# CAD/CAM Industry Service Forecast Data Base

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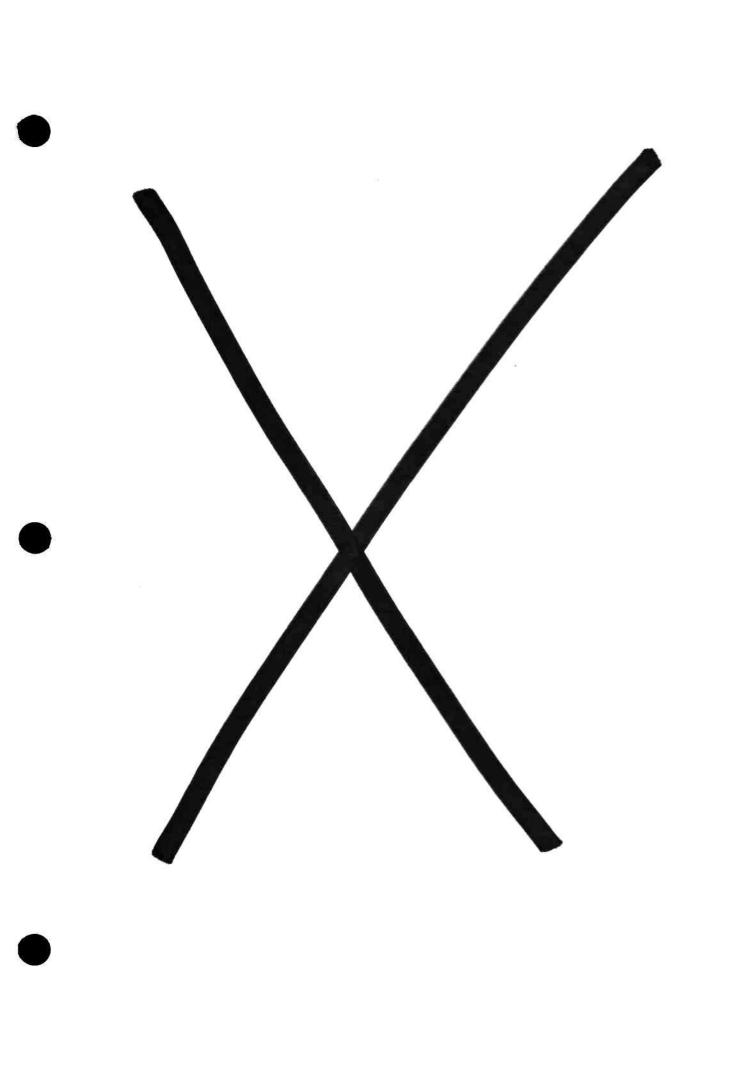
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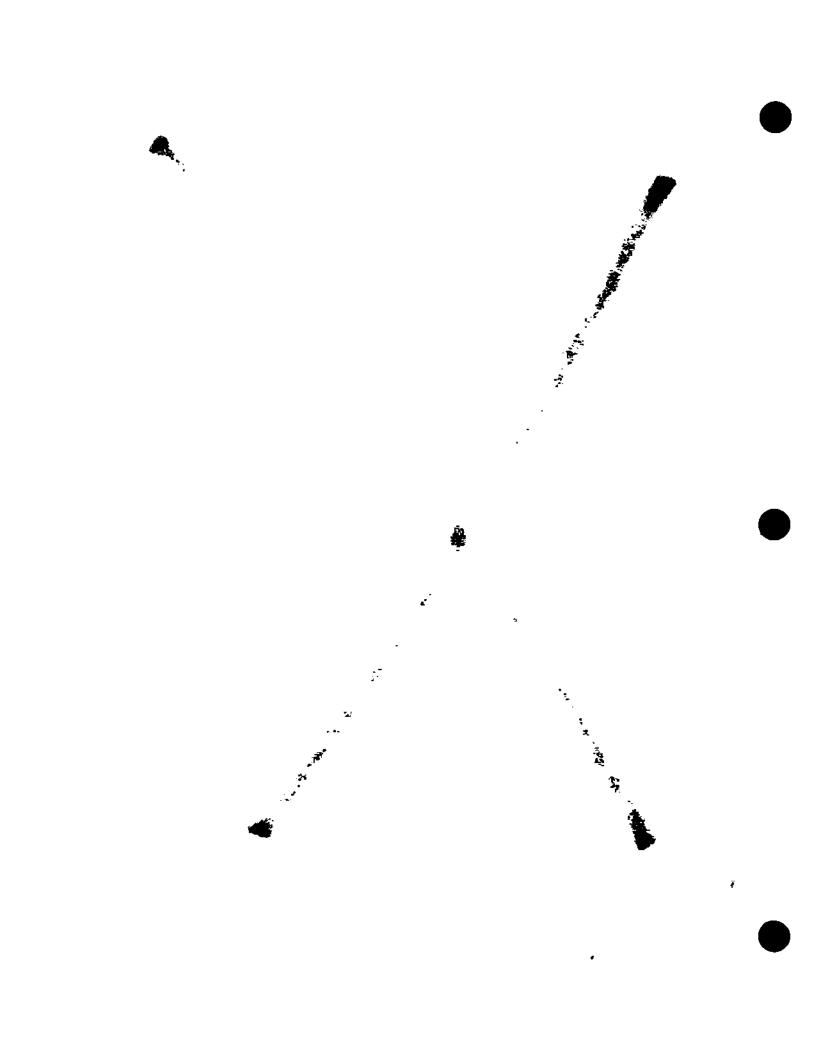
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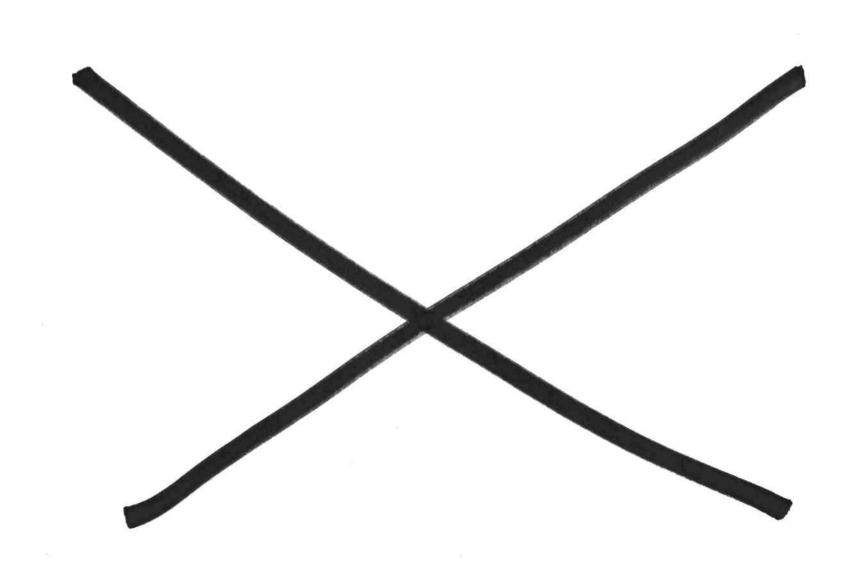
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A-1.11

TITLE:

CAD/CAM History and Forecast

APPLICATION:

AEC

REGION:

Worldwide

PRODUCT TYPE:

All Product Types

UNITS:

Millions of Dollars and Actual Units

|                              |       |       |       |        |        |        |        |         |         |         | 81-85 | 85-90 |
|------------------------------|-------|-------|-------|--------|--------|--------|--------|---------|---------|---------|-------|-------|
|                              | 1981  | 1982  | 1983  | 1984   | 1985   | 1986   | 1987   | 1988    | 1989    | 1990    | CAGR  | CAGR  |
|                              | E222  | 222#  | EFFR  | EZZZ   | ****   | ====   | ####   | ***     | ***     | 2272    | #=##  | ****  |
| UNIT SHIPHENT DATA           |       |       |       |        |        |        |        |         |         |         |       |       |
| CPU Shipments                | 325   | 585   | 898   | 11,051 | 15,466 | 16,977 | 20,774 | 25,352  | 30,933  | 37,096  | 163%  | 19%   |
| Total Workstation Shipments  | 1,264 | 2,079 | 2,210 | 13,203 | 18,514 | 20,712 | 25,201 | 30,486  | 36,465  | 42,525  | 96%   | 18%   |
| New Workstation Shipments    | 1,175 | 1,927 | 2,058 | 12,750 | 17,825 | 19,886 | 24,269 | 29,410  | 35,247  | 41,179  | 97%   | 18%   |
| Add-On Workstation Shipments | 89    | 153   | 152   | 453    | 697    | 826    | 932    | 1,075   | 1,218   | 1,345   | 67%   | 14%   |
| CPU Installed Base           | 1,235 | 1,766 | 2,576 | 13,606 | 29,046 | 45,954 | 66,579 | 91,712  | 122,323 | 158,948 | 120%  | 40%   |
| Workstation Installed Base   | 3,989 | 5,884 | 7,800 | 20,784 | 39,004 | 59,314 | 83,921 | 113,614 | 149,034 | 190,212 | 77%   | 37%   |
| REVENUE DATA                 |       |       |       |        |        |        |        |         |         |         |       |       |
| CPU Revenue                  | NA    | NA    | MA    | KA     | 188    | 220    | 253    | 286     | 317     | 343     | NA    | 13%   |
| Morkstation Revenue          | NA    | NA    | KA    | MA     | 235    | 280    | 317    | 357     | 392     | 416     | NA    | 12X   |
| Software Revenue             | NA    | MA    | MA    | MA     | 162    | 183    | 236    | 306     | 395     | 506     | NA    | 26X   |
| Peripheral Revenue           | NA    | NA    | MA    | MA     | 67     | 100    | 132    | 174     | 227     | 297     | NA    | 35%   |
| Service Revenue              | 21    | 31    | 50    | 73     | 93     | 112    | 137    | 173     | 229     | 315     | 45%   | 27%   |
| Total Revenue                | 144   | 201   | 283   | 554    | 746    | 896    | 1,075  | 1,296   | 1,559   | 1,876   | 51%   | 20%   |
| Increase over prior year     | NA    | 40%   | 41%   | 95%    | 35%    | 20%    | 20%    | 21%     | 20%     | 20X     |       |       |

Source: Dataquest

June 1986

**Forecasts** 

All Product Types

A-1.12

TITLE:

CAD/CAM History and Forecast

APPLICATION:

AEC

REGION: PRODUCT TYPE: North America All Product Types

UNITS:

Millions of Dollars and Actual Units

|                              |       |       |       |           |        |         |        |        |        |         | 81-85 | 85-90 |
|------------------------------|-------|-------|-------|-----------|--------|---------|--------|--------|--------|---------|-------|-------|
|                              | 1981  | 1982  | 1983  | 1984      | 1985   | 1986    | 1987   | 1988   | 1989   | 1990    | CAGR  | CAGR  |
|                              | 2222  | 2222  | BCCE  | ****      | ****   | ****    | ****   | ====   | ====   | 2222    | ***   | ****  |
| UNIT SHIPMENT DATA           |       |       |       |           |        |         |        |        |        |         |       |       |
| CPU Shipments                | 246   | 480   | 692   | 7,517     | 9,208  | 9,901   | 12,146 | 15,164 | 19,028 | 23,201  | 147%  | 20%   |
| Total Workstation Shipments  | 960   | 1,661 | 1,597 | 8,961     | 10,961 | 12,126  | 14,897 | 18,399 | 22,581 | 26,870  | 84%   | 20%   |
| New Workstation Shipments    | 893   | 1,542 | 1,503 | 8,657     | 10,462 | 11,6341 | 14,318 | 17,722 | 21,799 | 25,961  | 85%   | 20%   |
| Add-On Workstation Shipments | 67    | 119   | 94    | 304       | 499    | 492     | 579    | 678    | 782    | 909     | 65%   | 13%   |
| CPU Installed Base           | 923   | 1,361 | 1,985 | 9,487     | 18,675 | 28,529  | 40,572 | 55,587 | 74,399 | 97,292  | 112X  | 39%   |
| Workstation Installed Base   | 3,013 | 4,533 | 5,903 | 14,700    | 25,447 | 37,299  | 51,801 | 69,678 | 91,578 | 117,575 | 70%   | 36%   |
| REVENUE DATA                 |       |       |       |           |        |         |        |        |        |         |       |       |
| CPU Revenue                  | NA    | XA    | NA    | <b>MA</b> | 110    | 137     | 157    | 178    | 198    | 215     | NA    | 14%   |
| Workstation Revenue          | NA    | MA    | NA    | MA        | 146    | 172     | 197    | 223    | 246    | 265     | NA    | 13%   |
| Software Revenue             | MA    | NA    | NA    | MA        | 103    | 117     | 149    | 192    | 247    | 316     | NA    | 25%   |
| Peripheral Revenue           | NA    | MA    | NA    | NA        | 44     | 66      | 85     | 111    | 143    | 184     | NA    | 33%   |
| Service Revenue              | 16    | 23    | 34    | 49        | 67     | 71      | 87     | 110    | 145    | 199     | 43%   | 24%   |
| Total Revenue                | 113   | 161   | 199   | 372       | 469    | 563     | 675    | 814    | 979    | 1,178   | 43%   | 20%   |
| Increase over prior year     | NA    | 42%   | 24%   | 87%       | 26%    | 20%     | 20%    | 21%    | 20%    | 20%     |       |       |

Source: Dataquest

June 1986

**Forecasts** 

**Product Types** 

A-1.13

TITLE:

CAD/CAM History and Forecast

APPLICATION:

AEC

REGION:

Europe

PRODUCT TYPE:

All Product Types

UNITS:

Millions of Dollars and Actual Units

|                              |      |      |      |       |       |        |        |        |                |         | 81 - 85 | 85-90 |
|------------------------------|------|------|------|-------|-------|--------|--------|--------|----------------|---------|---------|-------|
|                              | 1981 | 1982 | 1983 | 1984  | 1985  | 1986   | 1987   | 1988   | 1989           | 1990    | ÇAGR    | CAGR  |
|                              | **** | ==== | **** | Zzz   | ====  | ***    | ***    | 2222   | 2#32           | 2222    | ***     | 2000  |
| UNIT SHIPMENT DATA           |      |      |      |       |       |        |        |        |                |         |         |       |
| CPU Shipments                | 0    | 0    | 126  | 1,845 | 4,475 | 4,067  | 4,834  | 5,670  | 6,679          | 7,769   | ERR     | 12%   |
| Total Workstation Shipments  | 0    | 0    | 396  | 2,238 | 5,063 | 4,776  | 5,734  | 6,744  | 7, <b>7</b> 91 | 8,702   | ERR     | 11%   |
| New Workstation Shipments    | 0    | 0    | 355  | 2,156 | 4,939 | 4,619  | 5,545  | 6,519  | 7,546          | 8,471   | ERR     | 11%   |
| Add-On Workstation Shipments | 0    | 0    | 41   | 83    | 132   | 157    | 190    | 225    | 245            | 231     | ERR     | 12%   |
| CPU Installed Base           | 0    | 0    | 126  | 1,970 | 6,444 | 10,503 | 15,317 | 20,955 | 27,583         | -35,275 | ERR     | 40%   |
| Workstation Installed Base   | 0    | 0    | 396  | 2,624 | 7,662 | 12,390 | 18,042 | 24,665 | 32,285         | 40,757  | ERR     | 40%   |
| REVENUE DATA                 |      |      |      |       |       |        |        |        |                |         |         |       |
| CPU Revenue                  | NA   | MA   | MA   | NA    | 35    | 44     | 50     | 57     | 63             | 68      | NA      | 14%   |
| Workstation Revenue          | MA   | NA   | NA   | NA    | 47    | 55     | 63     | 72     | 78             | 80      | KA      | 11%   |
| Software Revenue             | WA   | WA   | NA   | MA    | - 32  | 36     | 45     | 59     | 76             | 99      | NA      | 25%   |
| Peripheral Revenue           | MA   | NA   | NA   | NA    | 11    | 18     | 23     | 31     | 41             | 57      | HA      | 40%   |
| Service Revenue              | 0    | 0    | 12   | 13    | 18    | 21     | 26     | 33     | 43             | 59      | ERR     | 26%   |
| Total Revenue                | 0    | 0    | 56   | 96    | 144   | 173    | 208    | 250    | 301            | 363     | ERR     | 20%   |
| Increase over prior year     | NA   | ERR  | ERR  | 71%   | 50%   | 20%    | 20%    | 21%    | 20%            | 20%     |         |       |

Source: Dataquest

TABLE NUMBER: A-1.14

TITLE: CAD/CAM History and Forecast

APPLICATION: AEC
REGION: Far East

PRODUCT TYPE: All Product Types

UNITS: Millions of Dollars and Actual Units

|                                  |      |      |      |            |       |       | •      |        |        |        | 81-85 | 85-90 |
|----------------------------------|------|------|------|------------|-------|-------|--------|--------|--------|--------|-------|-------|
|                                  | 1981 | 1982 | 1983 | 1984       | 1985  | 1986  | 1987   | 1988   | 1989   | 1990   | CAGR  | CAGR  |
|                                  | ==== | ***  | ==== | ***        | ****  | 2222  | ***    | REER   | ****   | ***    | -     | ****  |
| UNIT SHIPHENT DATA               |      |      |      |            |       |       |        |        |        |        |       |       |
| CPU Shipments                    | 0    | 0    | 69   | 1,359      | 1,403 | 2,579 | 3,248  | 3,811  | 4,323  | 5,003  | ERR   | 29%   |
| Total Workstation Shipments      | 0    | 0    | 170  | 1,644      | 1,995 | 3,242 | 3,845  | 4,425  | 4,958  | 5,598  | ERR   | 23X   |
| <b>New Workstation Shipments</b> | 0    | 0    | 157  | 1,584      | 1,955 | 3,095 | 3,720  | 4,296  | 4,818  | 5,450  | ERR   | 23%   |
| Add-On Workstation Shipments.    | 0    | 0    | 13   | 60         | 40    | 147   | 126    | 129    | 140    | 148    | ERR   | 30%   |
| CPU Installed Base               | 0    | D    | 69   | 1,428      | 2,830 | 5,401 | 8,635  | 12,421 | 16,704 | 21,641 | ERR   | 50%   |
| Workstation Installed Base       | 0    | 0    | 170  | 1,810      | 3,789 | 6,992 | 10,771 | 15,100 | 19,928 | 25,355 | ERR   | 46X   |
| REVENUE DATA                     |      |      |      |            |       |       |        |        |        |        |       |       |
| CPU Revenue                      | NA   | ЙA   | NA   | NA         | 38    | 33    | 37     | 42     | 46     | 49     | NA    | 6X    |
| Workstation Revenue              | NA   | NA   | NA   | KA         | 34    | 44    | 46     | 50     | 54     | 57     | NA    | 11%   |
| Software Revenue                 | KA   | NA   | NA   | NA         | 22    | 25    | 35     | 46     | 59     | 75     | HA    | 28%   |
| Peripheral Revenue               | NA   | NA:  | NA   | NA         | 10    | 12    | 20     | 27     | 36     | 47     | NA    | 36%   |
| Service Revenue                  | 0    | 0    | 3    | 9          | 5     | 17    | 20     | 25     | 33     | 46     | ERR   | 58%   |
| Total Revenue                    | 0    | 0    | 22   | <b>7</b> Ö | 109   | 131   | 157    | 189    | 228    | 275    | ERR   | 20%   |
| Increase over prior year         | MA   | ERR  | ÉRR  | 218X       | 56%   | 20%   | 20%    | 21%    | 20%    | 20%    |       |       |

Source: Dataquest

June 1986

**Forecasts** 

**Product** 

A-1.15

TITLE:

CAD/CAM History and Forecast

APPLICATION:

AEC

REGION:

Rest of World

PRODUCT TYPE:

All Product Types

UNITS:

Millions of Dollars and Actual Units

|                              |      |       |       |       |       |       |       |       |       |       | 81-85 | 85-90 |
|------------------------------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
|                              | 1981 | 1982  | 1983  | 1984  | 1985  | 1986  | 1987  | 1988  | 1989  | 1990  | CAGR  | CAGR  |
|                              | ***  | 2222  | ****  | 2222  | ****  | ***   | 2222  | ====  | 2222  | grait | 2222  | E===  |
| UNIT SHIPMENT DATA           |      |       |       |       |       |       |       | •     |       |       |       |       |
| CPU Shipments                | 79   | 105   | 11    | 329   | 380   | 430   | 546   | 707   | 903   | 1,124 | 48%   | 24%   |
| Total Workstation Shipments  | 304  | 418   | 47    | 360   | 495   | 569   | 724   | 918   | 1,136 | 1,355 | 13%   | 22%   |
| New Workstation Shipments    | 282  | 385   | 43    | 353   | 469   | 539   | 687   | 874   | 1,084 | 1,298 | 14%   | 23%   |
| Add-On Workstation Shipments | 22   | 34    | 4     | 6     | 26    | 31    | 37    | 44    | 51    | 57    | 5%    | 17X   |
| CPU installed Base           | 312  | 405   | 396   | 721   | 1,098 | 1,520 | 2,055 | 2,750 | 3,637 | 4,740 | 37%   | 34%   |
| Workstation Installed Base   | 976  | 1,351 | 1,331 | 1,651 | 2,106 | 2,632 | 3,308 | 4,171 | 5,243 | 6,524 | 21%   | 25%   |
| REVENUE DATA                 |      |       |       |       |       |       |       |       |       |       |       |       |
| CPU Rev <b>enue</b>          | NA   | NA    | NA    | NA    | 6     | 7     | 8     | 9     | 10    | 11    | NA    | 15%   |
| Horkstation Revenue          | NA   | MA    | NA    | NA    | 8     | 9     | 11    | 12    | 13    | 14    | MA    | 12%   |
| Software Revenue             | NA   | NA    | NA    | NA    | 5     | 6     | 7     | 10    | 12    | 16    | MA    | 26%   |
| Peripheral Revenue           | NA   | NA    | NA    | NA.   | 2     | 3     | 4     | 5     | 7     | 9     | MA    | 34%   |
| Service Revenue              | 5    | 8     | 1     | 2     | 4     | 4     | 5     | 6     | 8     | 11    | -8%   | 25%   |
| Total Revenue                | 31   | 40    | 6     | 16    | 24    | 29    | 35    | 42    | 51    | 61    | -6X   | 20%   |
| Increase over prior year     | NA   | 29%   | -84%  | 150%  | 51%   | 20%   | 20%   | 21%   | 20%   | 20%   |       |       |

Source: Dataquest June 1986

A-1.16

TITLE:

CAD/CAM History and Forecast

APPLICATION:

Mapping

REGION:

Worldwide

PRODUCT TYPE:

All Product Types

UNITS:

Millions of Dollars and Actual Units

|                              |       |       |       |       |       |        |        |        |        |        | 81-85     | 85-90 |
|------------------------------|-------|-------|-------|-------|-------|--------|--------|--------|--------|--------|-----------|-------|
|                              | 1981  | 1982  | 1983  | 1984  | 1985  | 1986   | 1987   | 1988   | 1989   | 1990   | CAGR      | CAGR  |
|                              | 2022  | 2025  | 2227  | ****  | 甘果写平  | 2223   | ****   | **==   | ***    | 2222   | X222      | 2222  |
| UNIT SKIPMENT DATA           |       |       |       |       |       |        |        |        |        |        |           |       |
| CPU Shipments                | 167   | 245   | 102   | 253   | 432   | 2,153  | 3,276  | 3,661  | 4,083  | 4,527  | 27%       | 60%   |
| Total Workstation Shipments  | 613   | 912   | 790   | 1,108 | 1,752 | 3,866  | 5,714  | 7,001  | 8,425  | 9,762  | 30%       | 41%   |
| New Workstation Shipments    | 556   | 830   | 730   | 928   | 1,508 | 3,636  | 5,419  | 6,619  | 7,930  | 9,124  | 28%       | 43%   |
| Add-On Workstation Shipments | 57    | 82    | 60    | 179   | 300   | 230    | 296    | 383    | 496    | 637    | 51%       | 16%   |
| CPU Installed Base           | 453   | 674   | 960   | 1,203 | 1,612 | 3,737  | 6,977  | 10,581 | 14,584 | 18,998 | 37%       | 64%   |
| Workstation Installed Base   | 1,682 | 2,511 | 4,085 | 5,070 | 6,671 | 10,343 | 15,806 | 22,465 | 30,427 | 39,568 | 41%       | 43X   |
| REVENUE DATA                 |       |       |       |       |       |        |        |        |        |        |           |       |
| CPU Revenue                  | NA    | MA    | MA    | NA    | 49    | 63     | 77     | 90     | 99     | 102    | AM        | 16X   |
| Workstation Revenue          | NA    | NA    | MA    | NA    | 71    | 87     | 108    | 130    | 149    | 162    | <b>MA</b> | 18%   |
| Software Revenue             | MA    | NA    | KA    | NA    | 48    | 73     | 103    | 143    | 193    | 256    | MA        | 40%   |
| Peripheral Revenue           | MA    | NA    | NA    | NA    | 17    | 20     | 27     | 35     | 44     | 54     | NA        | 27%   |
| Service Revenue              | 10    | 16    | 21    | 24    | 35    | 45     | 59     | 78     | 106    | 145    | 37X       | 33%   |
| Total Revenue                | 73    | 109   | 91    | 151   | 220   | 288    | 375    | 476    | 590    | 720    | 32x       | 27%   |
| increase over prior year     | MA    | 49%   | -17%  | 66X   | 46%   | 31%    | 30%    | 27%    | 24%    | 22%    |           |       |

Source: Dataquest June 1986 Forecasts

**Product** 

Types

A-1.17

TITLE:

CAD/CAM History and Forecast

APPLICATION:

Mapping

REGION:

North America

PRODUCT TYPE:

**All Product Types** 

UNITS:

Millions of Dollars and Actual Units

|                              |       |       |       |       |                 |       |        |        |        |        | 81-85 | 85 - 90     |
|------------------------------|-------|-------|-------|-------|-----------------|-------|--------|--------|--------|--------|-------|-------------|
|                              | 1981  | 1982  | 1983  | 1984  | 1985            | 1986  | 1987   | 1988   | 1989   | 1990   | CAGR  | CAGR        |
|                              | 2222  | 2220  | ****  | ****  | 2200            | 223X  | ****   | 2000   | ****   | 2222   | ****  | 2223        |
| UNIT SHIPHENT DATA           |       |       |       |       |                 |       |        |        |        |        |       |             |
| CPU Shipments                | 136   | 207   | 74    | 163   | 201             | 1,221 | 2,082  | 2,077  | 2,110  | 2,264  | 10%   | 62 <b>%</b> |
| Total Workstation Shipments  | 486   | 756   | 622   | 784   | 1,135           | 2,369 | 3,751  | 4,468  | 5,336  | 6,263  | 24%   | 41%         |
| New Workstation Shipments    | 438   | 688   | 584   | 654   | 906             | 2,215 | 3,549  | 4,194  | 4,968  | 5,776  | 20%   | 45%         |
| Add-On Workstation Shipments | 48    | 68    | 38    | 130   | 229             | 154   | 203    | 274    | 368    | 487    | 48%   | 16%         |
| CPU Installed Base           | 351   | 540   | 587   | 745   | <del>9</del> 31 | 2,134 | 4,193  | 6,236  | 8,297  | 10,494 | 28%   | 62%         |
| Workstation Installed Base   | 1,286 | 1,979 | 2,503 | 3,212 | 4,251           | 6,494 | 10,081 | 14,324 | 19,352 | 25,195 | 35X   | 43X         |
| REVENUE DATA                 |       |       |       |       |                 |       |        |        |        |        |       |             |
| CPU Revenue                  | NA    | NA    | KA    | MA    | 30              | 41    | 51     | 59     | 65     | 66     | NA    | 17%         |
| Workstation Revenue          | NA    | MA    | WA    | NA    | 47              | 58    | 72     | 88     | 102    | 111    | HA    | 19X         |
| Software Revenue             | NA    | MA    | KA    | NA    | 31              | 47    | 66     | 89     | 119    | 157    | MA    | 38%         |
| Peripheral Revenue           | MA    | NA    | NA    | MA    | 11              | 13    | 17     | 23     | 29     | 35     | NA    | 26X         |
| Service Revenue              | 8     | 13    | 15    | 17    | 25              | 30    | 40     | 53     | 74     | 103    | 33%   | 33%         |
| Total Revenue                | 56    | 87    | 62    | 106   | 145             | 189   | 246    | 312    | 387    | 472    | 27%   | 27%         |
| Increase over prior year     | NA    | 55%   | -29%  | 71%   | 36%             | 31%   | 30%    | 27%    | 24%    | 22%    |       |             |

Source: Dataquest June 1986

A-1.18

TITLE:

CAD/CAN History and Forecast

APPLICATION:

Mapping

REGION:

Europe

PRODUCT TYPE:

All Product Types

UNITS:

Millions of Dollars and Actual Units

|                              |      |      |      |       |       |       |       |       |       |       | 81-85 | 85-90 |
|------------------------------|------|------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
|                              | 1981 | 1982 | 1983 | 1984  | 1985  | 1986  | 1987  | 1988  | 1989  | 1990  | CAGR  | CAGR  |
|                              | **** | 2323 | ***  | ====  | 2223  | ****  | ***   | 2222  | ***   | @###  | ##==  | ***   |
| UNIT SHIPMENT DATA           |      |      |      |       |       |       |       |       |       |       |       |       |
| CPU Shipments                | Q    | 0    | 9    | 35    | 182   | 767   | 864   | 970   | 1,170 | 1,341 | ERR   | 49%   |
| Total Workstation Shipments  | 0    | 0    | 75   | 168   | 372   | 1,097 | 1,351 | 1,632 | 1,986 | 2,251 | ERR   | 43X   |
| New Workstation Shipments    | 0    | 0    | 64   | 140   | 390   | 1,052 | 1,292 | 1,556 | 1,892 | 2,140 | ERR   | 41%   |
| Add-On Workstation Shipments | 0    | 0    | 11   | 28    | 38    | 44    | 59    | 76    | 93    | 111   | ERR   | 24%   |
| CPU Installed Base           | 0    | 0    | 227  | 260   | 436   | 1,197 | 2,052 | 3,007 | 4,157 | 5,470 | ERR   | 66%   |
| Workstation Installed Base   | 0    | 0    | 984  | 1,123 | 1,460 | 2,517 | 3,815 | 5,375 | 7,264 | 9,387 | ERR   | 45%   |
| REVENUE DATA                 |      |      |      |       |       |       |       |       |       |       |       |       |
| CPU Revenue                  | NA   | NA   | NA   | MA    | 10    | 13    | 17    | 19    | 21    | 22    | MA    | 18%   |
| Workstation Revenue          | MA   | NA   | NA   | MA    | 15    | 18    | 23    | 27    | 31    | 33    | NA    | 16%   |
| Software Revenue             | HA   | NA   | NA   | MA    | 12    | 17    | 23    | 32    | 45    | 60    | WA    | 38%   |
| Peripheral Revenue           | MA   | NA   | KA   | NA    | 3     | 4     | 6     | 8     | 10    | 12    | MA    | 34%   |
| Service Revenue              | 0    | 0    | 5    | 4     | 7     | 9     | 12    | 16    | 21    | 28    | ERR   | 31%   |
| Total Revenue                | 0    | 0    | 16   | 25    | 47    | 62    | 81    | 103   | 127   | 156   | ERR   | 27%   |
| Increase over prior year     | NA   | ERR  | ERR  | 56%   | 90%   | 31%   | 30%   | 27%   | 24%   | 22%   |       |       |

Source: Dataquest

June 1986

**Forecasts** 

**Product** 

A-1.19

TITLE:

CAD/CAM History and Forecast

APPLICATION:

Mapping

REGION:

far East

PRODUCT TYPE:

All Product Types

UNITS:

Millions of Dollars and Actual Units

|                              |      |      |      |      |      | •    |      |       |       |       | 81-85 | 85-90 |
|------------------------------|------|------|------|------|------|------|------|-------|-------|-------|-------|-------|
|                              | 1981 | 1982 | 1983 | 1984 | 1985 | 1986 | 1987 | 1988  | 1989  | 1990  | CAGR  | CAGR  |
|                              | ***  | ***  | FFRE | E222 | HEAR | ***  | ***  | *===  | 2222  | 7772  | ¥222  | 2222  |
| UNIT SHIPMENT DATA           |      |      |      |      |      |      |      |       |       |       |       |       |
| CPU Shipments                | 0    | 0    | 15   | 50   | 37   | 79   | 206  | 445   | 593   | 701   | ERR   | 80%   |
| Total Workstation Shipments  | 0    | 0    | 73   | 135  | 162  | 234  | 373  | 573   | 681   | 750   | ERR   | 36%   |
| New Workstation Shipments    | 0    | 0    | 64   | 118  | 145  | 213  | 353  | 559   | 671   | 744   | ERR   | 39%   |
| Add-On Workstation Shipments | 0    | 0    | 9    | 18   | 17   | 21   | 20   | 15    | 10    | 6     | ERR   | - 19% |
| CPU Installed Base           | 0    | 0    | 15   | 65   | 102  | 180  | 383  | 825   | 1,411 | 2,100 | ERR   | 83X   |
| Workstation Installed Base   | 0    | 0    | 73   | 206  | 362  | 587  | 945  | 1,496 | 2,149 | 2,863 | ERR   | 51%   |
| REVENUE DATA                 |      |      |      |      |      |      |      |       |       |       |       |       |
| CPU Revenue                  | NA   | NA   | NA   | NA   | 7    | 5    | 6    | 7     | 9     | 9     | MA    | 6%    |
| Workstation Revenue          | NA   | NA   | NA   | MA   | 5    | 7    | 9    | 9     | 10    | 10    | MA    | 13%   |
| Software Revenue             | NA   | NA   | NA   | WA   | 3    | 6    | 9    | 15    | 21    | 28    | NA    | 57%   |
| Peripheral Revenue           | NA   | NA   | NA   | NA   | 2    | 2    | 2    | 3     | 4     | 5     | NA    | 22%   |
| Service Revenue              | 0    | 0    | 1    | 3    | 1    | 4    | 5    | 5     | 6     | 7     | ERR   | 44%   |
| Total Revenue                | 0    | 0    | 10   | 17   | 18   | 24   | 31   | 40    | 49    | 60    | ERR   | 27%   |
| Increase over prior year     | MA   | ERR  | ERR. | 70%  | 8%   | 31%  | 30%  | 27%   | 24%   | 22%   |       |       |

Source: Dataquest

June 1986

**Forecasts** 

**Product Types** 

A-1.20

TITLE:

CAD/CAM History and Forecast

APPLICATION:

Mapping

REGION:

Rest of World

PRODUCT TYPE: UNITS:

All Product Types Millions of Dollars and Actual Units

|                              |      |      |      |      |      |             |      |       |       |       | 81-85 | 85-90 |
|------------------------------|------|------|------|------|------|-------------|------|-------|-------|-------|-------|-------|
|                              | 1981 | 1982 | 1983 | 1984 | 1985 | 1986        | 1987 | 1988  | 1989  | 1990  | CAGR  | CAGR  |
|                              | ***  | ***  | 2554 | **** | 2422 | 2263        | 2222 | ****  | ***   | 2552  | ====  | ***   |
| UNIT SHIPMENT DATA           |      |      |      |      |      |             |      |       |       |       |       |       |
| CPU Shipments                | 31   | 38   | 4    | 4    | 12   | 87          | 125  | 168   | 211   | 221   | -22%  | 80%   |
| Total Workstation Shipments  | 127  | 156  | 20   | 20   | 84   | 166         | 239  | 328   | 422   | 498   | -10%  | 43%   |
| New Workstation Shipments    | 118  | 142  | 18   | 17   | 68   | 155         | 225  | 310   | 398   | 464   | -13%  | 47%   |
| Add-On Workstation Shipments | 9    | 14   | 2    | 3    | 16   | 11          | 14   | 18    | 24    | 34    | 16%   | 16%   |
| CPU Installed Base           | 102  | 134  | 131  | 134  | 143  | <b>2</b> 27 | 349  | 513   | 719   | 934   | 9%    | 46%   |
| Workstation Installed Base   | 396  | 532  | 525  | 529  | 598  | 746         | 965  | 1,269 | 1,662 | 2,123 | 11%   | 29%   |
| REVERUE DATA                 |      |      |      |      |      |             |      |       |       |       |       |       |
| CPU Revenue                  | NA   | NA   | HA   | NA   | 2    | 3           | 4    | 4     | 4     | 4     | NA    | 16%   |
| Workstation Revenue          | MA   | AM   | HA   | NA   | 4    | 4           | 5    | 6     | 7     | 8     | AK    | 16%   |
| Software <b>Revenue</b>      | NA   | NA   | NA   | NA   | 2    | 3           | 5    | 6     | 9     | 11    | NA    | 48%   |
| Peripheral Revenue           | NA   | MA   | NA   | NA   | 1    | 1           | 1    | 2     | 2     | 2     | NA    | 22X   |
| Service Revenue              | 2    | 3    | 0    | 0    | 2    | 2           | 3    | 4     | 5     | 7     | -3%   | 32%   |
| Total Revenue                | 17   | 22   | 3    | 3    | 10   | 13          | 17   | 22    | 27    | 33    | ·13%  | 27%   |
| Increase over prior year     | MA   | 29%  | -86% | 0%   | 232% | 31%         | 30X  | 27%   | 24%   | 22%   |       |       |

Source: Dataquest

June 1986

**Forecasts** 

All Product Types

A-1.21

TITLE:

CAD/CAM History and Forecast Electronic Design Automation

APPLICATION: REGION:

Worldwide

PRODUCT TYPE:

All Product Types

UNITS:

Millions of Dollars and Actual Units

|                              |           |       |       |       |        |        |        |        |         |         | 81-85 | 85-90 |
|------------------------------|-----------|-------|-------|-------|--------|--------|--------|--------|---------|---------|-------|-------|
|                              | 1981      | 1982  | 1983  | 1984  | 1985   | 1986   | 1987   | 1988   | 1989    | 1990    | CAGR  | CAGR  |
|                              | ====      | ====  |       | ====  | ***    | ****   | 2222   | ####   |         | 2223    | ***   | ****  |
| UNIT SHIPMENT DATA           |           |       |       |       |        |        |        |        |         |         |       |       |
| CPU Shipments                | 3         | 277   | 1,282 | 5,682 | 14,036 | 18,705 | 22,785 | 27,767 | 34,287  | 42,873  | 727X  | 25%   |
| Total Workstation Shipments  | 3         | 277   | 1,291 | 5,667 | 14,068 | 18,733 | 22,817 | 27,803 | 34,320  | 42,895  | 728%  | 25%   |
| New Workstation Shipments    | 3         | 277   | 1,291 | 5,665 | 14,067 | 18,733 | 22,817 | 27,802 | 34,320  | 42,895  | 728%  | 25%   |
| Add:On Workstation Shipments | 0         | 0     | 0     | 3     | 0      | 0      | 0      | 0      | 0       | 0       | ERR   | -31%  |
| CPU Installed Base           | 3         | 305   | 1,513 | 7,193 | 21,227 | 39,928 | 62,557 | 90,070 | 123,955 | 166,205 | 817%  | 51%   |
| Workstation Installed Base   | 3         | 305   | 1,522 | 7,184 | 21,244 | 39,967 | 62,619 | 90,157 | 124,062 | 166,320 | 817%  | 51%   |
| REVENUE DATA                 |           |       |       |       |        |        |        |        |         |         |       |       |
| CPU Revenue                  | HA        | MA    | NA    | MA    | 106    | 127    | 148    | 170    | 185     | 189     | MA    | 12%   |
| Workstation Revenue          | <b>XA</b> | MA    | HA    | MA    | 105    | 127    | 148    | 170    | 186     | 190     | MA    | 13%   |
| Software Revenue             | NA        | MA    | KA    | HA    | 212    | 252    | 315    | 403    | 512     | 642     | NA    | 25%   |
| Peripheral Revenue           | NA        | NA    | MA    | NA    | 71     | 82     | 98     | 122    | 150     | 184     | NA    | 21%   |
| Service Revenue              | 0         | 2     | 6     | 15    | 37     | 44     | 56     | 75     | 104     | 149     | ERR   | 32%   |
| Total Revenue                | 0         | 21    | 86    | 276   | 531    | 632    | 764    | 940    | 1,138   | 1,354   | 504X  | 21%   |
| Increase over prior year     | HA        | 5150X | 310%  | 221%  | 92%    | 19%    | 21%    | 23%    | 21%     | 19%     |       |       |

Source: Dataquest June 1986 **Forecasts** 

**Product Types** 

A-1.22

TITLE:

CAD/CAM History and Forecast Electronic Design Automation

APPLICATION: REGION:

North America

PRODUCT TYPE:

All Product Types

UNITS:

Millions of Dollars and Actual Units

|                                  |      |       |       |       |             |        |        |        |        |         | 81-85 | 85-90 |
|----------------------------------|------|-------|-------|-------|-------------|--------|--------|--------|--------|---------|-------|-------|
|                                  | 1981 | 1982  | 1983  | 1984  | 1985        | 1986   | 1987   | 1988   | 1989   | 1990    | CAGR  | CAGR  |
|                                  | ==== | ****  | 3722  | -     | 2223        | **=6   | -      | 2322   | ***    | ****    | 2222  | ****  |
| UNIT SHIPMENT DATA               |      |       |       |       |             |        |        |        |        |         |       |       |
| CPU Shipments                    | 3    | 240   | 1,003 | 4,390 | 10,692      | 13,131 | 15,957 | 19,255 | 23,581 | 29,219  | 673%  | 22%   |
| Total Workstation Shipments      | 3    | 240   | 1,012 | 4,382 | 10,686      | 13,154 | 15,981 | 19,281 | 23,606 | 29,237  | 673%  | 22X   |
| <b>New Workstation Shipments</b> | 3    | 240   | 1,012 | 4,381 | 10,686      | 13,154 | 15,981 | 19,281 | 23,606 | 29,237  | 673%  | 22%   |
| Add-On Workstation Shipments     | 0    | 0     | 0     | 1     | 0           | 0      | 0      | 0      | 0      | 0       | ERR   | ERR   |
| CPU Installed Base               | 3    | 243   | 1,234 | 5,621 | 16,311      | 29,439 | 45,287 | 64,369 | 87,681 | 116,487 | 759%  | 48%   |
| Workstation Installed Base       | 3    | 243   | 1,243 | 5,620 | 16,299      | 29,444 | 45,309 | 64,410 | 87,737 | 116,552 | 759%  | 48%   |
| REVENUE DATA                     |      |       |       |       |             |        |        |        |        |         |       |       |
| CPU Revenue                      | NA   | MA    | NA    | NA    | 71          | 87     | 101    | 116    | 127    | 129     | HA    | 13X   |
| Workstation Revenue              | NA   | MA    | NA    | NA    | 71          | 87     | 102    | 117    | 128    | 130     | WA    | 13%   |
| Software Revenue                 | NA   | NA    | NA    | AK    | 140         | 169    | 211    | 271    | 344    | 432     | NA    | 25X   |
| Peripheral Revenue               | NA   | NA    | NA    | AK    | 51          | 55     | 65     | 80     | 99     | 122     | NA    | 19%   |
| Service Revenue                  | 0    | 2     | 5     | 11    | 25          | 29     | 37     | 49     | 69     | 99      | ERR   | 32X   |
| Total Revenue                    | 0    | 19    | 68    | 205   | 358         | 426    | 515    | 633    | 766    | 912     | 447X  | 21%   |
| Increase over prior year         | NA   | 4650% | 258%  | 202%  | 74 <b>x</b> | 19%    | 21%    | 23X    | 21%    | 19%     |       |       |

Source: Dataquest

June 1986

**Forecasts** 

All Product Types

A-1.23

TITLE: APPLICATION: CAD/CAM History and Forecast Electronic Design Automation

REGION:

Europe

PRODUCT TYPE:

All Product Types

UNITS:

Millions of Dollars and Actual Units

|                              |      |      |      |           |       |       |        |        |        |        | 81-85 | 85-90 |
|------------------------------|------|------|------|-----------|-------|-------|--------|--------|--------|--------|-------|-------|
|                              | 1981 | 1982 | 1983 | 1984      | 1985  | 1986  | 1987   | 1988   | 1989   | 1990   | CAGR  | CAGR  |
|                              | ¥222 | E=== | **** | *===      | *===  | ***   | ***    | E===   | 2222   | ====   | 2222  | ***   |
| UNIT SHIPMENT DATA           |      |      |      |           |       |       |        |        |        |        |       |       |
| CPU Shipments                | 0    | 0    | 217  | 702       | 2,424 | 3,241 | 3,906  | 4,900  | 6,212  | 7,985  | ERR   | 27%   |
| Total Workstation Shipments  | 0    | 0    | 217  | 701       | 2,422 | 3,245 | 3,912  | 4,907  | 6,218  | 7,987  | ERR   | 27%   |
| New Workstation Shipments    | 0    | 0    | 217  | 700       | 2,422 | 3,245 | 3,912  | 4,907  | 6,218  | 7,987  | ERR   | 27%   |
| Add-On Workstation Shipments | 0    | 0    | 0    | 0         | 0     | 0     | 0      | 0      | 0      | 0      | ERR   | -100% |
| CPV Installed Base           | 0    | 0    | 217  | 919       | 3,343 | 6,583 | 10,460 | 15,309 | 21,437 | 29,288 | ERR   | 54%   |
| Workstation Installed Base   | 0    | 0    | 217  | 918       | 3,340 | 6,584 | 10,466 | 15,321 | 21,453 | 29,304 | ERR   | 54%   |
| REVENUE DATA                 |      |      |      |           |       |       |        |        |        |        |       |       |
| CPU Reve <b>nue</b>          | NA   | NA   | MA   | NA        | 20    | 24    | 28     | 32     | 34     | 35     | NA    | 11%   |
| Workstation Revenue          | NA   | NA   | NA   | NA        | 21    | 24    | 28     | 32     | 34     | 35     | NA    | 11%   |
| Software Revenue             | MA   | MA   | NA   | NA        | 45    | 51    | 64     | 82     | 104    | 130    | NA    | 23%   |
| Peripheral <b>Revenue</b>    | NA   | NA   | NA   | <b>MA</b> | 11    | 17    | 21     | 27     | 33     | 40     | NA    | 29%   |
| Service Revenue              | 0    | 0    | 1    | 2         | 8     | 9     | 12     | 16     | 23     | 32     | ERR   | 31%   |
| Total Revenue                | 0    | 0    | 14   | 37        | 106   | 126   | 153    | 188    | 228    | 271    | ERR   | 21%   |
| Increase over prior year     | NA   | ERR  | ERR  | 163%      | 188%  | 19%   | 21%    | 23%    | 21%    | 19%    |       |       |

Source: Dataquest

TABLE MUMBER: A-1.24
TITLE: CAD/CAM
APPLICATION: Electro

CAD/CAM History and Forecast

Electronic Design Automation

Far East

PRODUCT TYPE:

All Product Types

UNITS:

REGION:

Millions of Dollars and Actual Units

|                               |      |      |      |              |       |       |       |        |        |        | 81-85 | 85-90       |
|-------------------------------|------|------|------|--------------|-------|-------|-------|--------|--------|--------|-------|-------------|
|                               | 1981 | 1982 | 1983 | 1984         | 1985  | 1986  | 1987  | 1988   | 1989   | 1990   | CAGR  | CAGR        |
|                               | 英字艺术 | 2222 | ==== | 2272         | 2223  | 2222  | 2222  | ***    | ****   | ***    | ====  | *===        |
| UNIT SHIPMENT DATA            |      |      |      |              |       |       |       |        |        |        |       |             |
| CPU Shipments                 | 0    | 0    | 62   | 532          | 916   | 2,319 | 2,897 | 3,577  | 4,449  | 5,612  | ERR   | 44%         |
| Total Workstation Shipments   | 0    | 0    | 62   | 526          | 953   | 2,320 | 2,899 | 3,579  | 4,451  | 5,613  | ERR   | 43%         |
| New Workstation Shipments     | 0    | 0    | 62   | 526          | 953   | 2,320 | 2,899 | 3,579  | 4,451  | 5,613  | ERR   | 43%         |
| Add-On Workstation Shipments, | 0    | 0    | 0    | 1            | 0     | 0     | 0     | 0      | 0      | 0      | ERR   | ERR         |
| CPU Installed Base            | 0    | 0    | 62   | 594          | 1,510 | 3,829 | 6,709 | 10,256 | 14,657 | 20,193 | ERR   | 68X         |
| Workstation Installed Base    | 0    | 0    | 62   | 588          | 1,542 | 3,860 | 6,740 | 10,288 | 14,689 | 20,224 | ERR   | 67%         |
| REVENUE DATA                  |      |      |      |              |       |       |       |        |        |        |       |             |
| CPU Revenue                   | NA   | MA   | NA   | MA           | 14    | 16    | 19    | 22     | 24     | 25     | NA    | 12 <b>%</b> |
| Workstation Revenue           | NA   | MA   | NA   | NA           | 13    | 16    | 19    | 22     | 24     | 25     | NA    | 14%         |
| Saftware Revenue              | KA   | KA   | HA   | NA           | 27    | 32    | 39    | 50     | 64     | 80     | NA    | 24%         |
| Peripheral Revenue            | NA   | HA   | HA   | WA           | 8     | 10    | 12    | 15     | 18     | 22     | NA    | 22%         |
| Service Revenue               | 0    | 0    | 0    | 2            | 4     | 5     | 7     | 9      | 13     | 18     | ERR   | 37%         |
| Total Revenue                 | 0    | 0    | 4    | 32           | 66    | 79    | 95    | 117    | 142    | 169    | ERR   | 21%         |
| Increase over prior year      | NA   | ERR  | ĒRR  | 696 <b>%</b> | 107%  | 19%   | 21%   | 23%    | 21%    | 19%    |       |             |

Source: Dataquest

June 1986

**Forecasts** 

**All Product** 

# A.1 Forecasts — All Product Types

TABLE NUMBER:

A-1.25

TITLE:

CAD/CAM History and Forecast

APPLICATION:

Electronic Design Automation

REGION:

Rest of World

PRODUCT TYPE:

All Product Types

UNITS:

Millions of Dollars and Actual Units

|                              |      |      |       |      |      |      |      |      |      |      | 81-85 | 85-90 |
|------------------------------|------|------|-------|------|------|------|------|------|------|------|-------|-------|
|                              | 1981 | 1982 | 1983  | 1984 | 1985 | 1986 | 1987 | 1988 | 1989 | 1990 | CAGR  | CAGR  |
|                              | REFE | *=== | ETHE  | ==== | ==== | **** | 2222 | HYTE | EESS | ==## | F804  | ****  |
| UNIT SHIPMENT DATA           |      |      |       |      |      |      |      |      |      |      |       |       |
| CPU Shipments                | 0    | 37   | 0     | 58   | 5    | 14   | 25   | 36   | 45   | 57   | ERR   | 64%   |
| Total Workstation Shipments  | 0    | 37   | 0     | 58   | 6    | 14   | 25   | 36   | 46   | 58   | ERR   | 58%   |
| New Workstation Shipments    | 0    | 37   | 0     | 58   | 6    | 14   | 25   | 36   | 46   | 58   | ERR   | 58X   |
| Add-On Workstation Shipments | 0    | 0    | 0     | 0    | 0    | 0    | 0    | 0    | 0    | 0    | ERR   | ERR   |
| CPU Installed Base           | 0    | 62   | 0     | 58   | 63   | 77   | 101  | 136  | 181  | 238  | ERR   | 30%   |
| Workstation Installed Rase   | 0    | 62   | 0     | 58   | 64   | 78   | 103  | 138  | 183  | 240  | ERR   | 30%   |
| REVENUE DATA                 |      |      |       |      |      |      | _    |      |      |      |       |       |
| CPU Revenue                  | MA   | NA   | NA    | NA   | 0    | 0    | Ò    | 0    | 0    | 0    | NA    | 17%   |
| Workstation Revenue          | MA   | MA   | NA    | MA . | 0    | 0    | 0    | 0    | 0    | 0    | MA    | 18%   |
| Software Revenue             | MA   | NA   | NA    | MA   | 0    | 0    | 0    | 1    | 1    | 1    | NA    | 40%   |
| Peripher <b>al Revenue</b>   | NA.  | NA   | NA    | NA   | 0    | Ð    | 0    | 0    | 0    | 0    | NA    | 1%    |
| Service Revenue              | 0    | 0    | 0     | 0    | 0    | 0    | 0    | 0    | 0    | 0    | ERR   | 19%   |
| Yotal Revenue                | 0    | 2    | 0     | 2    | 1    | 1    | 1    | ŧ    | 2    | 2    | ERR   | 21%   |
| Increase over prior year     | NA   | ERR  | -100% | ERR  | -62% | 19%  | 20%  | 24%  | 21%  | 18X  |       |       |

Source: Dataquest

# A.1 Forecasts — All Product Types

TABLE NUMBER:

A-1.26

TITLE:

CAD/CAM History and Forecast

APPLICATION:

Integrated Circuit

REGION:

**V**orldwide

PRODUCT TYPE:

All Product Types

UNITS:

Millions of Dollars and Actual Units

|                                 |       |       |           |       |       |       |        |        |        |        | 81-85 | 85-90 |
|---------------------------------|-------|-------|-----------|-------|-------|-------|--------|--------|--------|--------|-------|-------|
|                                 | 1981  | 1982  | 1983      | 1984  | 1985  | 1986  | 1987   | 1988   | 1989   | 1990   | CAGR  | CAGR  |
|                                 | 2232  |       | ****      | 2222  | ****  | EÇZZ  | ***    | 無本本名   | ***    | ****   | ====  | ====  |
| UNIT SHIPMENT DATA              |       |       |           |       |       |       |        |        |        |        |       |       |
| CPU Shipments                   | 158   | 176   | 209       | 638   | 1,196 | 1,753 | 2,723  | 4,164  | 6,121  | 8,903  | 66%   | 49%   |
| Total Workstation Shipments     | 660   | 679   | 644       | 1,211 | 1,419 | 1,950 | 2,881  | 4,280  | 6,197  | 8,945  | 21%   | 45%   |
| New Workstation Shipments       | 619   | 636   | 536       | 1,080 | 1,335 | 1,934 | 2,869  | 4,270  | 6,190  | 8,938  | 21%   | 46%   |
| Add-On Workstation Shipments    | 41    | 43    | 106       | 132   | 84    | 16    | 12     | 10     | 8      | 6      | 20%   | -41%  |
| CPU Installed Base              | 759   | 904   | 1,069     | 1,686 | 2,864 | 4,590 | 7,254  | 11,335 | 17,334 | 26,059 | 39%   | 56%   |
| Workstation Installed Base      | 2,607 | 3,181 | 3,619     | 4,723 | 6,019 | 7,833 | 10,543 | 14,624 | 20,584 | 29,236 | 23%   | 37X   |
| REVENUE DATA                    |       |       |           |       |       |       |        |        |        |        |       |       |
| CPU Revenue                     | MA    | NA    | NA        | ИА    | 38    | 43    | 50     | 61     | 75     | 92     | NA    | 19%   |
| Workstation Revenue             | NA    | NA    | NA        | NA    | 42    | 45    | 52     | 62     | 77     | 92     | NA    | 17%   |
| Software Revenue                | NA    | KA    | HA        | NA    | 71    | 87    | 118    | 169    | 245    | 360    | NA    | 38X   |
| Peripheral Revenue              | NA    | АЙ    | HA        | NA    | 19    | 24    | 32     | 46     | 65     | 91     | NA    | 36%   |
| Service Revenue                 | 11    | 12    | 12        | 21    | 28    | 32    | 40     | 54     | 81     | 128    | 26%   | 36%   |
| Total Revenue                   | 82    | 93    | 100       | 152   | 198   | 230   | 292    | 392    | 543    | 762    | 25%   | 31%   |
| Increase over <b>prior</b> year | NA    | 13%   | <b>6%</b> | 51%   | 31%   | 16%   | 27%    | 35%    | 38%    | 40%    |       |       |

Source: Dataquest

A-1.27

TITLE:

CAD/CAM History and Forecast

APPLICATION:

Integrated Circuit

REGION:

Worth America

PRODUCT TYPE:

All Product Types

WITS:

Millions of Dollars and Actual Units

| •                            |       |       |       |       |       |       |       |       |        |        | 81-85 | 85-90       |
|------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|--------|--------|-------|-------------|
|                              | 1981  | 1982  | 1983  | 1984  | 1985  | 1986  | 1987  | 1988  | 1989   | 1990   | CAGR  | CAGR        |
|                              |       | ====  | EBET  | 2222  | ****  | 2052  | ####  | ****  | F233   | ****   | 2277  | 2222        |
| UNIT SHIPMENT DATA           |       |       |       |       |       |       |       |       |        |        |       |             |
| CPU Shipments                | 130   | 145   | 151   | 425   | 811   | 1,127 | 1,665 | 2,560 | 3,780  | 5,513  | 58%   | 47%         |
| Total Workstation Shipments  | 540   | 545   | 433   | 800   | 898   | 1,239 | 1,770 | 2,639 | 3,832  | 5,540  | 14%   | 44%         |
| New Workstation Shipments    | 506   | 510   | 388   | 714   | 838   | 1,230 | 1,762 | 2,633 | 3,827  | 5,536  | 13%   | 46%         |
| Add-On Workstation Shipments | 34    | 35    | 45    | - 86  | 60    | 9     | 8     | 7     | 5      | 4      | 15%   | -42X        |
| CPU Installed Base           | 566   | 687   | 804   | 1,213 | 2,007 | 3,114 | 4,739 | 7,244 | 10,945 | 16,344 | 37%   | 52 <b>X</b> |
| Workstation Installed Base   | 1,996 | 2,458 | 2,768 | 3,486 | 4,288 | 5,428 | 7,078 | 9,580 | 13,251 | 18,595 | 21%   | 34%         |
| REVENUE DATA                 |       |       |       |       |       |       |       |       |        |        |       |             |
| CPU Revenue                  | NA    | MA    | MA    | NA    | 22    | 26    | 31    | 38    | 47     | 57     | MA    | 21%         |
| Workstation Revenue          | KA    | NA    | NA    | NA    | 24    | 28    | 32    | 39    | 48     | 57     | NA    | 19%         |
| Software Revenue             | MA    | NA    | NA    | NA    | 45    | 55    | 73    | 105   | 152    | 223    | NA    | 38%         |
| Peripheral Revenue           | NA    | NA    | NA    | KA    | 13    | 15    | 20    | 28    | 40     | 56     | NA    | 35%         |
| Service Revenue              | 9     | 10    | 9     | 13    | 19    | 19    | 25    | 34    | 50     | 79     | 20%   | 33%         |
| Total Revenue                | 68    | 75    | 71    | 101   | 123   | 143   | 181   | 243   | 337    | 473    | 16%   | 31%         |
| Increase over prior year     | NA    | 10%   | -5%   | 43X   | 22%   | 16X   | 27%   | 34%   | 38%    | 40%    |       |             |

Source: Dataquest

# A.1 Forecasts — All Product Types

Source: Dataquest June 1986

A-1.29

TITLE:

CAD/CAM History and Forecast

APPLICATION:

Integrated Circuit

REGION:

Far East

PRODUCT TYPE:

All Product Types

UNITS:

Millions of Dollars and Actual Units

|                              |      |      |      |      |      |      |       |       |       |       | 81-85 | 85-90 |
|------------------------------|------|------|------|------|------|------|-------|-------|-------|-------|-------|-------|
|                              | 1981 | 1982 | 1983 | 1984 | 1985 | 1986 | 1987  | 1988  | 1989  | 1990  | CAGR  | CAGR  |
|                              |      | ==== |      | **** | 2225 | ==== | ***   | HHEE  | 2002  | ====  | ***   | ****  |
| UNIT SHIPMENT DATA           |      |      |      |      |      |      |       |       |       |       |       |       |
| CPU Shipments                | 0    | 0    | 19   | 102  | 158  | 251  | 478   | 738   | 1,085 | 1,579 | ERR   | 59%   |
| Total Workstation Shipments  | 0    | 0    | 98   | 192  | 267  | 298  | 502   | 750   | 1,091 | 1,583 | ERR   | 43%   |
| New Workstation Shipments    | 0    | 0    | 47   | 172  | 265  | 294  | 500   | 749   | 1,091 | 1,582 | ERR   | 43%   |
| Add-On Workstation Shipments | 0    | 0    | 51   | 21   | 3    | 4    | 2     | 1     | 1     | 1     | ERR   | -28%  |
| CPU Installed Base           | 0    | 0    | 19   | 121  | 277  | 526  | 997   | 1,724 | 2,792 | 4,342 | ERR   | 73%   |
| Workstation Installed Base   | 0    | 0    | 52   | 243  | 505  | 793  | 1,279 | 2,008 | 3,072 | 4,616 | ERR   | 56X   |
| REVENUE DATA                 |      |      |      |      |      |      |       |       |       |       |       |       |
| CPU Revenue                  | HA   | NA.  | NA   | NA   | 10   | 8    | 9     | 11    | 13    | 16    | NA    | 11%   |
| Workstation Revenue          | NA   | MA   | NA   | NA   | 9    | 8    | 9     | 11    | 13    | 16    | NA    | 12%   |
| Software Revenue             | NA   | MA   | HA   | HA   | 11   | 15   | 21    | 30    | 44    | 64    | NA    | 42%   |
| Peripheral Revenue           | HA   | NA   | NA   | NA   | 3    | 4    | 6     | 8     | 12    | 16    | NA    | 41%   |
| Service Revenue              | 0    | 0    | 1    | 3    | 2    | 6    | 7     | 9     | 14    | 22    | ERR   | 59%   |
| Total Revenue                | 0    | 0    | 10   | 25   | 35   | 41   | 51    | 69    | 96    | 135   | ERR   | 31%   |
| Increase over prior year     | HA   | ERR  | ERR  | 149% | 40%  | 16%  | 27%   | 35%   | 39%   | 40%   |       |       |

Source: Dataquest

June 1986

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# A.1 Forecasts — All Product Types

TABLE NUMBER:

A-1.30

TITLE:

CAD/CAM History and Forecast

APPLICATION:

Integrated Circuit

REGION:

Rest of World

PRODUCT TYPE:

All Product Types

UNITS:

Millions of Dollars and Actual Units

|                              |      |      |      |      |      |      |      |      |      |      | 81-85 | 85-90  |
|------------------------------|------|------|------|------|------|------|------|------|------|------|-------|--------|
|                              | 1981 | 1982 | 1983 | 1984 | 1985 | 1986 | 1987 | 1988 | 1989 | 1990 | CAGR  | CAGR   |
|                              | ***  | 2022 | 2823 | ***  | 2222 | 8200 | 2222 | **** | ***  | ==== | 2222  |        |
| UNIT SHIPMENT DATA           |      |      |      |      |      |      |      |      |      |      |       |        |
| CPU Shipments                | 28   | 31   | 0    | 6    | 14   | 30   | 46   | 69   | 101  | 146  | ·15%  | 59%    |
| Total Workstation Shipments  | 120  | 134  | 3    | 20   | 17   | 32   | 47   | 70   | 101  | 146  | -38%  | 53%    |
| New Workstation Shipments    | 113  | 126  | 2    | 16   | 16   | 32   | 47   | 70   | 101  | 146  | -39%  | 56%    |
| Add-On Workstation Shipments | 7    | 8    | 0    | 3    | 1    | 0    | 0    | 0    | 0    | 0    | -34%  | - 100% |
| CPU Installed Base           | 193  | 217  | 207  | 209  | 225  | 251  | 293  | 357  | 452  | 592  | 4%    | 21%    |
| Workstation Installed Base   | 611  | 723  | 689  | 688  | 691  | 703  | 730  | 780  | 861  | 986  | 3%    | 7%     |
| REVENUE DATA                 |      |      |      |      |      |      |      |      |      |      |       |        |
| CPU Revenue                  | NA   | NA   | NA   | NA   | 1    | 1    | 1    | 1    | 1    | 1    | NA    | 17%    |
| Workstation Revenue          | KA   | NA   | NA   | NA   | 1    | 1    | 1    | 1    | 1    | 1    | NA    | 16%    |
| Software Revenue             | MA   | HA   | NA   | NA   | 1    | t    | 2    | 3    | 4    | 6    | NA    | 49%    |
| Peripheral Revenue           | HA.  | NA   | NA.  | NA.  | 0    | 0    | 1    | 1    | 1    | 1    | NA    | 36%    |
| Service Revenue              | 2    | 2    | 0    | 0    | 1    | 0    | 1    | 1    | 1    | 2    | -23%  | 23%    |
| Total Revenue                | 14   | 18   | 0    | 3    | 3    | 4    | 5    | 6    | 9    | 12   | -31%  | 31%    |
| Increase over prior year     | AK   | 29%  | -98% | 662% | 3%   | 16%  | 27%  | 34%  | 39%  | 40%  |       |        |

Source: Dataquest

A-1.31

TITLE:

CAD/CAM History and Forecast

APPLICATION:

Printed Circuit Board

REGION:

Worldwide

PRODUCT TYPE:

All Product Types

UNITS:

Millions of Dollars and Actual Units

|                              |       |          |       |        |        |        |        |        |        |        | 81-85       | 85-90      |
|------------------------------|-------|----------|-------|--------|--------|--------|--------|--------|--------|--------|-------------|------------|
|                              | 1981  | 1982     | 1983  | 1984   | 1985   | 1986   | 1987   | 1988   | 1989   | 1990   | CAGR        | CAGR       |
|                              | XX22  | ====     | ****  | 0222   | E===   | ****   | E222   | 2222   |        |        | 芸芸学堂        | 2222       |
| UNIT SHIPMENT DATA           |       | <b>.</b> |       |        |        |        |        |        |        |        |             |            |
| CPU Shipments                | 647   | 831      | 1,231 | 2,589  | 4,449  | 6,949  | 9,876  | 13,392 | 17,634 | 23,150 | 62%         | 39%        |
| Total Workstation Shipments  | 1,485 | 1,854    | 2,430 | 3,927  | 5,668  | 8,221  | 10,975 | 14,294 | 18,367 | 23,663 | 40%         | 33%        |
| New Workstation Shipments    | 1,391 | 1,712    | 2,253 | 3,428  | 5,382  | 8,043  | 10,827 | 14,170 | 18,256 | 23,570 | 40%         | 34%        |
| Add-On Workstation Shipments | 95    | 143      | 177   | 499    | 289    | 178    | 148    | 124    | 110    | 94     | 32X         | -20%       |
| CPU Installed Base           | 1,841 | 2,609    | 3,709 | 6,368  | 10,783 | 17,694 | 27,450 | 40,652 | 57,991 | 80,695 | 56 <b>X</b> | 50%        |
| Workstation Installed Base   | 4,332 | 6,016    | 8,145 | 11,949 | 17,348 | 25,256 | 35,796 | 49,554 | 67,256 | 90,090 | 41%         | 39%        |
| REVENUE DATA                 |       |          |       |        |        |        |        |        |        |        |             |            |
| CPU Revenue                  | NA    | NA       | AK    | NA     | 113    | 122    | 132    | 141    | 146    | 145    | NA          | 5%         |
| Workstation Revenue          | NA    | NA       | MA    | HA     | 115    | 126    | 137    | 147    | 153    | 151    | NA          | 6 <b>X</b> |
| Software Revenue             | NA    | NA       | NA    | HA     | 141    | 163    | 209    | 258    | 309    | 366    | NA          | 21%        |
| Peripheral Revenue           | NA    | NA       | NA    | NA     | 46     | 66     | 87     | 111    | 136    | 161    | NA          | 29%        |
| Service Revenue              | 21    | 27       | 39    | 49     | 63     | 74     | 94     | 120    | 159    | 215    | 31%         | 28%        |
| Total Revenue                | 174   | 231      | 271   | 355    | 477    | 552    | 659    | 778    | 902    | 1,038  | 29%         | 17%        |
| Increase over prior year     | NA    | 33%      | 17%   | 31%    | 34%    | 16%    | 19%    | 18X    | 16%    | 15%    |             |            |

Source: Dataquest

A-1.32

TITLE:

CAD/CAN History and Forecast

APPLICATION:

Printed Circuit Board

REGION:

North America

PRODUCT TYPE:

**All Product Types** 

UNITS:

Millions of Dollars and Actual Units

|                              |       |           |       |       |       |        |        |        |        |        | 81-85 | 85-90       |
|------------------------------|-------|-----------|-------|-------|-------|--------|--------|--------|--------|--------|-------|-------------|
|                              | 1981  | 1982      | 1983  | 1984  | 1985  | 1986   | 1987   | 1988   | 1989   | 1990   | CAGR  | CAGR        |
|                              | 2220  | 2022      | 2222  | ****  | 2222  | 2222   | 2222   | 2222   | 2222   | 8222   | 2262  | E222        |
| UNIT SHIPMENT DATA           |       |           |       |       |       |        |        |        |        |        |       |             |
| CPU Shipments                | 290   | 362       | 593   | 1,599 | 2,293 | 3,295  | 4,596  | 6,158  | 8,102  | 10,586 | 68%   | 36%         |
| Total Workstation Shipments  | 743   | 869       | 1,230 | 2,390 | 2,618 | 3,846  | 5,075  | 6,543  | 8,381  | 10,795 | 37%   | 33%         |
| New Workstation Shipments    | 689   | 792       | 1,134 | 2,095 | 2,447 | 3,769  | 5,011  | 6,490  | 8,339  | 10,757 | 37%   | 34%         |
| Add-On Workstation Shipments | 53    | 77        | 96    | 295   | 171   | 77     | 65     | 53     | 42     | 38     | 34%   | -26%        |
| CPU Installed Base           | 840   | 1,172     | 1,706 | 3,391 | 5,668 | 8,945  | 13,479 | 19,542 | 27,501 | 37,872 | 61%   | 46X         |
| Workstation Installed Base   | 2,360 | 3,133     | 4,206 | 6,580 | 9,054 | 12,744 | 17,603 | 23,884 | 31,944 | 42,343 | 40%   | 36 <b>X</b> |
| REVENUE DATA                 |       |           |       |       |       |        |        |        |        |        |       |             |
| CPU Revenue                  | NA    | MA        | MA    | KA    | 45    | 56     | 61     | 65     | 67     | 67     | NA    | 8%          |
| Workstation Revenue          | NA    | NA        | MA    | NA    | 50    | 57     | 63     | 67     | 69     | 69     | NA    | 6%          |
| Software Revenue             | NA    | <b>HA</b> | MA    | NA    | 66    | 76     | 96     | 119    | 142    | 167    | NA    | 20%         |
| Peripheral Revenue           | NA    | MA        | NA    | MA    | 24    | 31     | 40     | 52     | 63     | 75     | NA    | 26%         |
| Service Revenue              | 10    | 12        | 21    | 29    | 34    | 34     | 43     | 55     | 73     | 99     | 36X   | 24%         |
| Total Revenue                | 85    | 108       | 145   | 211   | 219   | 254    | 303    | 357    | 414    | 476    | 27%   | 17%         |
| increase over prior year     | NA    | 27%       | 34%   | 45%   | 4%    | 16%    | 19%    | 18%    | 16%    | 15%    |       |             |

Source: Dataquest June 1986

A.1

A-1.33

TITLE:

CAD/CAM History and Forecast

APPLICATION:

Printed Circuit Board

REGION:

Europe

PRODUCT TYPE:

All Product Types

UNITS:

Millions of Dollars and Actual Units

|                              |      |      |             |           |       |       |       |        |        |        | 81-85 | 85-90 |
|------------------------------|------|------|-------------|-----------|-------|-------|-------|--------|--------|--------|-------|-------|
|                              | 1981 | 1982 | 1983        | 1984      | 1985  | 1986  | 1987  | 1988   | 1989   | 1990   | CAGR  | CAGR  |
|                              |      | ***  | <b>*===</b> | 2222      | ****  | ****  | 2222  | REES   | ***    | 2222   | ****  | 5422  |
| UNIT SHIPMENT DATA           |      |      |             |           |       |       |       |        |        |        |       |       |
| CPU Shipments                | 0    | 0    | 507         | 536       | 1,146 | 1,819 | 2,420 | 3,167  | 4,165  | 5,532  | ERR   | 37%   |
| Total Workstation Shipments  | 0    | 0    | 903         | 785       | 1,271 | 2,149 | 2,765 | 3,502  | 4,461  | 5,743  | ERR   | 35%   |
| New Workstation Shipments    | 0    | 0    | 856         | 692       | 1,200 | 2,103 | 2,718 | 3,456  | 4,417  | 5,705  | ERR   | 37%   |
| Add-On Workstation Shipments | 0    | 0    | 47          | 93        | 71    | 46    | 46    | 46     | 45     | 38     | ERR   | -12%  |
| CPU Installed Base           | 0    | 0    | 507         | 1,041     | 2,185 | 4,001 | 6,397 | 9,525  | 13,628 | 19,065 | ERR   | 54%   |
| Workstation Installed Base   | 0    | 0    | 903         | 1,670     | 2,914 | 5,031 | 7,731 | 11,143 | 15,479 | 21,054 | ERR   | 49%   |
| REVENUE DATA                 |      |      |             |           |       |       |       |        |        |        |       |       |
| CPU Revenue                  | NA   | MA   | NA          | <b>NA</b> | 24    | 30    | 33    | 35     | 36     | 36     | KA    | 8%    |
| Workstation Revenue          | NA   | NA   | NA          | NA        | 26    | 31    | 35    | 38     | 39     | 38     | HA    | 8%    |
| Software Revenue             | NA   | NA   | NA          | NA.       | 38    | 41    | 51    | 62     | 75     | 89     | MA    | 19%   |
| Peripher <b>al Revenue</b>   | NA   | NA   | HA          | NA        | 9     | 15    | 20    | 26     | 32     | 38     | MA    | 32X   |
| Service Revenue              | 0    | 0    | 13          | 11        | 19    | 18    | 22    | 29     | 39     | 53     | ERR   | 23%   |
| Total Revenue                | 0    | 0    | 91          | 79        | 116   | 135   | 161   | 190    | 220    | 254    | ERR   | 17%   |
| Increase over prior year     | NA   | ERR  | ĒRR         | -13%      | 46%   | 16%   | 20%   | 18%    | 16%    | 15%    |       |       |

Source: Dataquest

A-1.34

TITLE:

CAD/CAM History and forecast

APPLICATION:

Printed Circuit Board

REGION:

Far East

PRODUCT TYPE:

All Product Types

UNITS:

Millions of Dollars and Actual Units

|                              |      |      |      |      |       |       |       |        |        |        | 81-85 | 85-90       |
|------------------------------|------|------|------|------|-------|-------|-------|--------|--------|--------|-------|-------------|
|                              | 1981 | 1982 | 1983 | 1984 | 1985  | 1986  | 1987  | 1988   | 1989   | 1990   | CAGR  | CAGR        |
|                              |      | ***  | ==== | **** | 2222  | ###   | ====  | ====   | TREE   | ****   | ====  | ==48        |
| UNIT SHIPMENT DATA           |      |      |      |      |       |       |       |        |        |        |       |             |
| CPU Shipments                | 0    | 0    | 120  | 413  | 977   | 1,777 | 2,780 | 3,942  | 5,186  | 6,793  | ERR   | 47%         |
| Total Workstation Shipments  | 0    | 0    | 260  | 689  | 1,733 | 2,154 | 3,037 | 4,113  | 5,339  | 6,884  | ERR   | 32%         |
| New Workstation Shipments    | O.   | 0    | 231  | 586  | 1,693 | 2,101 | 3,003 | 4,090  | 5,316  | 6,868  | ERR   | 3 <b>2%</b> |
| Add-On Workstation Shipments | 0    | 0    | 29   | 103  | 43    | 53    | 35    | 24     | 23     | 17     | ERR   | -17%        |
| CPU Installed Base           | 0    | 0    | 120  | 532  | 1,508 | 3,281 | 6,040 | 9,940  | 15,052 | 21,727 | ERR   | 71%         |
| Workstation Installed Base   | e    | 0    | 260  | 943  | 2,659 | 4,767 | 7,729 | 11,737 | 16,933 | 23,627 | ERR   | 55 <b>%</b> |
| REVENUE DATA                 |      |      |      |      |       |       |       |        |        |        |       |             |
| CPU Revenue                  | NA   | NA   | MA   | MA   | 43    | 35    | 37    | 40     | 42     | 41     | NA    | -1%         |
| Workstation Revenue          | NA   | NA   | NA   | NA   | 37    | 36    | 38    | 41     | 43     | 42     | NA    | 3%          |
| Software Revenue             | NA   | NA   | NA   | NA   | 36    | 45    | 60    | 75     | 90     | 106    | NA    | 24%         |
| Peripheral Revenue           | MA   | NA   | NA   | NA   | 12    | 19    | 26    | 33     | 39     | 47     | NA    | 312         |
| Service Revenue              | 0    | 0    | 4    | 9    | 9     | 22    | 27    | 34     | 45     | 61     | ERR   | 46X         |
| Total Revenue                | 0    | 0    | 31   | 59   | 136   | 158   | 189   | 223    | 259    | 298    | ERR   | 17%         |
| Increase over prior year     | NA   | ERR  | ERR  | 91%  | 130%  | 16%   | 20%   | 18%    | 16X    | 15%    |       |             |

Source: Dataquest

A-1.35

TITLE:

CAD/CAM History and Forecast

APPLICATION:

Printed Circuit Board

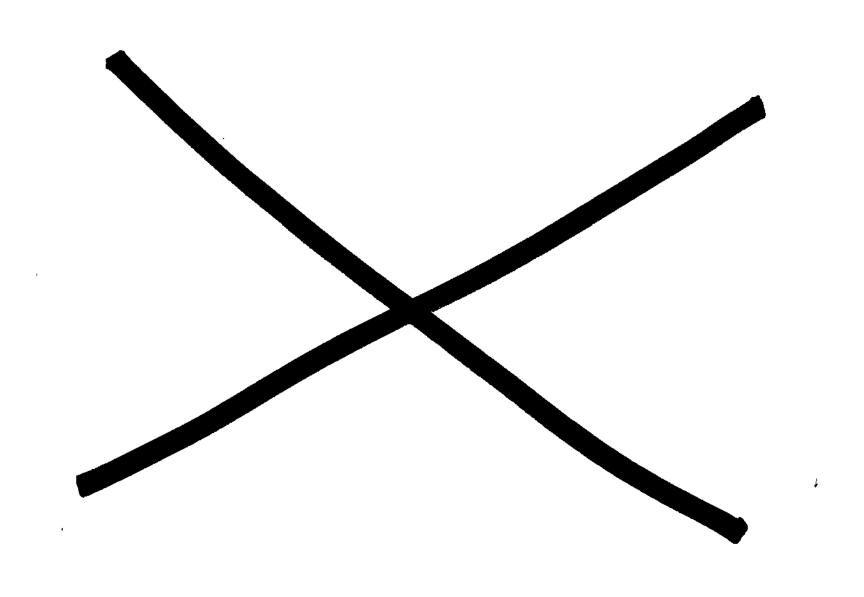
REGION: PRODUCT TYPE: Rest of World

All Product Types

Millions of Dollars and Actual Units UNITS:

|                              |             |       |       |       |       |             |       |       |       |       | 81-85 | 85-90 |
|------------------------------|-------------|-------|-------|-------|-------|-------------|-------|-------|-------|-------|-------|-------|
|                              | 1981        | 1982  | 1983  | 1984  | 1985  | 1986        | 1987  | 1988  | 1989  | 1990  | CAGR  | CAGR  |
|                              | ## <b>#</b> | 2222  | ====  | ====  | ====  | ====        | ====  | ====  | 2222  |       | ====  | EREE  |
| UNIT SHIPMENT DATA           |             |       |       |       |       |             |       |       |       |       |       |       |
| CPU Shipments                | 357         | 469   | 11    | 41    | 33    | 58          | 81    | 125   | 181   | 239   | -45%  | 49%   |
| Total Workstation Shipments  | 742         | 985   | 37    | 63    | 47    | 72          | 97    | 136   | 185   | 241   | -50%  | 39%   |
| New Workstation Shipments    | 702         | 920   | 32    | 55    | 42    | 70          | 95    | 135   | 185   | 241   | -50%  | 42X   |
| Add-On Workstation Shipments | 42          | 66    | 5     | 8     | 4     | 2           | 2     | 2     | 1     | 0     | -44X  | -35%  |
| CPU Installed Base           | 1,001       | 1,437 | 1,376 | 1,404 | 1,423 | 1,467       | 1,534 | 1,644 | 1,810 | 2,032 | 9%    | 7%    |
| Workstation Installed Base   | 1,972       | 2,883 | 2,776 | 2,756 | 2,721 | 2,714       | 2,732 | 2,791 | 2,900 | 3,065 | 8%    | 2%    |
| REVENUE DATA                 |             |       |       |       |       |             |       |       |       |       |       |       |
| CPU Revenue                  | MA          | KA    | NA    | NA    | 1     | 1           | 1     | 1     | 1     | 1     | NA    | 8%    |
| Workstation Revenue          | NA          | MA    | NA    | MA    | 1     | 1           | 1     | 1     | 1     | 1     | NA    | 3%    |
| Software Revenue             | NA          | WA    | NA    | NA    | 1     | 2           | 2     | 2     | 3     | 4     | NA    | 24%   |
| Peripheral Revenue           | NA          | NA    | NA    | MA    | 0     | 1           | 1     | 1     | 1     | 2     | NA    | 29%   |
| Service Revenue              | 11          | 15    | 1     | 1     | 1     | 1           | 1     | 1     | 2     | 2     | -49%  | 22%   |
| Total Revenue                | 89          | 123   | 4     | 5     | 5     | 5           | 6     | 8     | 9     | 10    | -52%  | 17%   |
| Increase over prior year     | NA          | 38%   | -97%  | 35%   | -14%  | 16 <b>%</b> | 20%   | 18%   | 16%   | 15%   |       |       |

Source: Dataquest



A-2.11

TITLE:

CAD/CAM History and Forecast

APPLICATION:

AEC

REGION: PRODUCT TYPE: Worldwide

Standalone

UNITS:

Millions of Dollars and Actual Units

•.

|                              |      |      |      |       |       |       |        |        |        |        | 81-85 | 85-90 |
|------------------------------|------|------|------|-------|-------|-------|--------|--------|--------|--------|-------|-------|
|                              | 1981 | 1982 | 1983 | 1984  | 1985  | 1986  | 1987   | 1988   | 1989   | 1990   | CAGR  | CAGR  |
|                              | ***  | ==== | 2222 | ====  | ====  | ****  | ====   | 2222   | 2222   | ###    | ****  |       |
| UNIT SHIPMENT DATA           |      |      |      |       |       |       |        |        |        |        |       |       |
| CPU Shipments                | 0    | 0    | 510  | 955   | 1,674 | 2,881 | 5,065  | 8,277  | 12,911 | 19,456 | ERR   | 63%   |
| Total Workstation Shipments  | 0    | 0    | 510  | 955   | 1,674 | 2,881 | 5,065  | 8,277  | 12,911 | 19,456 | ERR   | 63%   |
| New Workstation Shipments    | 0    | 0    | 510  | 955   | 1,674 | 2,881 | 5,065  | 8,277  | 12,911 | 19,456 | ERR   | 63%   |
| Add-On Workstation Shipments | 0    | 0    | 0    | Û     | 0     | 0     | 0      | 0      | O O    | 0      | ERR   | ERR   |
| CPU Installed Base           | 0    | 0    | 510  | 1,465 | 3,140 | 6,021 | 11,026 | 19,193 | 31,913 | 51,050 | ERR   | 75%   |
| Workstation Installed Base   | 0    | 0    | 510  | 1,465 | 3,140 | 6,021 | 11,026 | 19,193 | 31,913 | 51,050 | ERR   | 75%   |
| REVENUE DATA                 |      |      |      |       |       |       |        |        |        |        |       |       |
| CPU Revenue                  | NA   | MA   | HA   | WA    | 35    | 55    | 86     | 124    | 168    | 217    | NA    | 44%   |
| Workstation Revenue          | NA   | WA   | NA   | HA    | 35    | 55    | 86     | 124    | 168    | 217    | HA    | 44%   |
| Software Revenu <del>e</del> | HA   | MA   | NA   | NA    | 49    | 68    | 110    | 168    | 249    | 364    | NA    | 49%   |
| Peripheral Revenue           | NA   | MA   | MA   | NA    | 25    | 52    | 83     | 124    | 179    | 254    | NA    | 58%   |
| Service Revenue              | 0    | 0    | 8    | 15    | 19    | 31    | 51     | 80     | 127    | 204    | ERR   | 61%   |
| Total Revenue                | 0    | 0    | 42   | 117   | 163   | 261   | 416    | 620    | 891    | 1,255  | ERR   | 50%   |
| Increase over prior year     | KA   | ERR  | ERR  | 176%  | 40%   | 60%   | 59%    | 49%    | 44%    | 41%    |       |       |

Source: Dataquest

A-2.12

TITLE:

CAD/CAM History and Forecast

APPLICATION:

AEC

REGION:

North America

PRODUCT TYPE:

Standalone

UNITS:

Millions of Dollars and Actual Units

|                              |      |      |      |             |       |       |       |        |        |        | 81-85 | 85.90 |
|------------------------------|------|------|------|-------------|-------|-------|-------|--------|--------|--------|-------|-------|
|                              | 1981 | 1982 | 1983 | 1984        | 1985  | 1986  | 1987  | 1988   | 1989   | 1990   | CAGR  | CAGR  |
|                              | 2232 | E222 | 2272 | ****        | ****  | ***   | ****  | 2272   | ****   | 2222   | 2222  | ####  |
| UNIT SHIPMENT DATA           |      |      |      |             |       |       |       |        |        |        |       |       |
| CPU Shipments                | 0    | 0    | 428  | <b>73</b> 5 | 1,219 | 2,109 | 3,369 | 5,324  | 8,083  | 11,873 | ERR   | 58%   |
| Total Workstation Shipments  | 0    | 0    | 428  | 735         | 1,219 | 2,109 | 3,369 | 5,324  | 8,083  | 11,873 | ERR   | 58%   |
| New Workstation Shipments    | 0    | 0    | 428  | 735         | 1,219 | 2,109 | 3,369 | 5,324  | 8,083  | 11,873 | ERR   | 58%   |
| Add-On Workstation Shipments | 0    | 0    | 0    | 0           | 0     | 0     | 0     | 0      | 0      | 0      | ERR   | ERR   |
| CPU Installed Base           | 0    | 0    | 428  | 1,163       | 2,382 | 4,491 | 7,815 | 13,061 | 21,014 | 32,676 | ERR   | 69%   |
| Workstation Installed Base   | 0    | 0    | 428  | 1,163       | 2,382 | 4,491 | 7,815 | 13,061 | 21,014 | 32,676 | ERR   | 69%   |
| REVENUE DATA                 |      |      |      |             |       |       |       |        |        |        |       |       |
| CPU Revenue                  | NA   | NA   | NA   | MA          | 26    | 41    | 57    | 80     | 105    | 132    | MA    | 38%   |
| Workstation Revenue          | NA   | NA   | NA   | NA          | 26    | 41    | 57    | 80     | 105    | 132    | NA    | 38%   |
| Software Revenue             | NA   | NA   | MA   | MA:         | 36    | 49    | 73    | 108    | 156    | 222    | NA    | 44%   |
| Peripheral Revenue           | NA   | NA   | NA   | KA          | 20    | 38    | 55    | 80     | 112    | 155    | HA    | 51%   |
| Service Revenue              | 0    | 0    | 7    | 11          | 14    | 22    | 34    | 51     | 80     | 125    | ERR   | 54%   |
| Total Revenue                | 0    | 0    | 36   | 88          | 123   | 191   | 277   | 399    | 558    | 766    | ERR   | 44%   |
| Increase over prior year     | NA   | ERR  | ERR  | 144%        | 40%   | 56%   | 45X   | 44%    | 40%    | 37%    |       |       |

Source: Dataquest

A-2.13

TITLE:

REGION:

CAD/CAM History and Forecast

APPLICATION:

AEC Europe

PRODUCT TYPE:

Standalone

UNITS:

Millions of Dollars and Actual Units

|                              |      |      |      |      |      |      |       |             |       |       | 81-85 | 85-90       |
|------------------------------|------|------|------|------|------|------|-------|-------------|-------|-------|-------|-------------|
|                              | 1981 | 1982 | 1983 | 1984 | 1985 | 1986 | 1987  | 1988        | 1989  | 1990  | CAGR  | CAGR        |
|                              | ==== | ==== | EESE | ==== | ==== | **** | 2222  |             | ====  | ====  | -     | 2200        |
| UNIT SHIPMENT DATA           |      |      |      |      |      |      |       |             |       |       |       |             |
| CPU Shipments                | 0    | 0    | 48   | 91   | 352  | 476  | 783   | 1,337       | 2,281 | 3,770 | ERR   | 61%         |
| Total Workstation Shipments  | 0    | G    | 48   | 91   | 352  | 476  | 783   | 1,337       | 2,281 | 3,770 | ERR   | 61%         |
| New Workstation Shipments    | 0    | 0    | 48   | 91   | 352  | 476  | 783   | 1,337       | 2,281 | 3,770 | ERR   | 61%         |
| Add-On Workstation Shipments | 0    | 0    | 0    | 0    | 0    | 0    | 0     | 0           | 0     | 0     | ERR   | ERR         |
| CPU Installed Base           | 0    | C    | 48   | 139  | 491  | 967  | 1,741 | 3,060       | 5,310 | 9,028 | ERR   | 79%         |
| Workstation Installed Base   | 0    | 0    | 48   | 139  | 491  | 967  | 1,741 | 3,060       | 5,310 | 9,028 | ERR   | 79%         |
| REVENUE DATA                 |      |      |      |      |      |      |       |             |       |       |       |             |
| CPU Revenue                  | NA   | NA   | NA   | NA   | 6    | 9    | 13    | 20          | 30    | 42    | MA    | 46%         |
| Workstation Revenue:         | NA   | WA   | NA   | NA   | 6    | 9    | 13    | 20          | 30    | 42    | NA    | 46%         |
| Software Revenue             | HA   | NA   | NA   | NA   | 9    | 11   | 17    | 27          | 44    | 70    | RA    | 49%         |
| Peripheral Revenue           | NA   | NA   | NA   | NA   | 4    | 9    | 13    | 20          | 32    | 49    | MA    | 66%         |
| Service Revenue              | 0    | 0    | 1    | 2    | 4    | 5    | 8     | 13          | 22    | 40    | ERR   | 60%         |
| Total Revenue                | 0    | 0    | 4    | 12   | 30   | 43   | 64    | 100         | 157   | 243   | ERR   | 52 <b>X</b> |
| Increase over prior year     | NA   | ERR  | ERR  | 200% | 148% | 45%  | 49%   | 56 <b>X</b> | 57%   | 54%   |       |             |

Source: Dataquest June 1986

A-2.14

TITLE:

CAD/CAM History and Forecast

APPLICATION:

AEC

REGION:

Far East

PRODUCT TYPE:

Standalone

UNITS:

Millions of Dollars and Actual Units

|                              |      |      |      |      |      |      |       |       |       |       | 81-85 | 85-90 |
|------------------------------|------|------|------|------|------|------|-------|-------|-------|-------|-------|-------|
|                              | 1981 | 1982 | 1983 | 1984 | 1985 | 1986 | 1987  | 1988  | 1989  | 1990  | CAGR  | CAGR  |
|                              | 3222 | 2272 | 222  | **** | **** | *=== | EZZZ  | zere  | ***   | ****  | ¥2#2  | *===  |
| UNIT SHIPMENT DATA           |      |      |      |      |      |      |       |       |       |       |       |       |
| CPU Shipments                | 0    | 0    | 33   | 68   | 61   | 216  | 783   | 1,392 | 2,180 | 3,237 | ERR   | 121%  |
| Total Workstation Shipments  | 0    | 0    | 33   | 68   | 61   | 216  | 783   | 1,392 | 2,180 | 3,237 | ERR   | 121%  |
| New Workstation Shipments    | 0    | Ð    | 33   | 68   | 61   | 216  | 783   | 1,392 | 2,180 | 3,237 | ERR   | 121%  |
| Add-On Workstation Shipments | 0    | 0    | 0    | 0    | 0    | 0    | Đ     | 0     | 0     | 0     | ERR   | ERR   |
| CPU Installed Base           | 0    | 0    | 33   | 101  | 162  | 378  | 1,158 | 2,538 | 4,692 | 7,882 | ERR   | 117%  |
| Workstation Installed Base   | 0    | 0    | 33   | 101  | 162  | 378  | 1,158 | 2,538 | 4,692 | 7,882 | ERR   | 117X  |
| REVENUE DATA                 |      |      |      |      |      |      |       |       |       |       |       |       |
| CPU Revenue                  | ЖA   | NA   | NA   | MA   | 1    | 4    | 13    | 21    | 28    | 36    | NA    | 99%   |
| Workstation Revenue          | NA   | NA   | NA   | WA   | 1    | 4    | 13    | 21    | 28    | 36    | MA    | 99%   |
| Software Revenue             | NA   | WA   | MA   | NA   | 2    | 5    | 17    | 28    | 42    | 61    | NA    | 103%  |
| Peripheral Revenue           | NA   | NA   | NA   | NA   | 1    | 4    | 13    | 21    | 30    | 42    | NA    | 113%  |
| Service Revenue              | 0    | 0    | 0    | 1    | 1    | 2    | 8     | 13    | 21    | 34    | ERR   | 131%  |
| Total Revenue                | 0    | 0    | 2    | 9    | 6    | 20   | 64    | 104   | 151   | 209   | ERR   | 106%  |
| Increase over prior year     | NA   | ERR  | ERR  | 350% | ·38X | 250% | 228%  | 62%   | 44%   | 39%   |       |       |

Source: Dataquest

A-2.15

TITLE:

CAD/CAM History and Forecast

APPLICATION:

AEC

REGION:

Rest of World

PRODUCT TYPE:

Standalone

UNITS:

Millions of Dollars and Actual Units

|                              |      |      |      |       |               |      |      |      |      |       | 81-85 | 85-90       |
|------------------------------|------|------|------|-------|---------------|------|------|------|------|-------|-------|-------------|
|                              | 1981 | 1982 | 1983 | 1984  | 1 <b>98</b> 5 | 1986 | 1987 | 1988 | 1989 | 1990  | CAGR  | CAGR        |
|                              | ==== | 2222 | ==== | E223  | ====          | ==== | ==== | ==== | 2222 | ====  | ====  | 2000        |
| UNIT SHIPMENT DATA           |      |      |      |       |               |      |      |      |      |       |       |             |
| CPU Shipments                | 0    | 0    | 1    | 61    | 43            | 80   | 131  | 225  | 367  | 576   | ERR   | 68%         |
| Total Workstation Shipments  | 0    | 0    | 1    | 61    | 43            | 80   | 131  | 225  | 367  | 576   | ERR   | 68%         |
| New Workstation Shipments    | 0    | 0    | 1    | 61    | 43            | 80   | 131  | 225  | 367  | 576   | ERR   | 68%         |
| Add-On Workstation Shipments | 0    | 0    | Ð    | 0     | 0             | 0    | 0    | 0    | 0    | 0     | ERR   | ERR         |
| CPU Installed Base           | 0    | 0    | 1    | 62    | 104           | 184  | 313  | 535  | 896  | 1,463 | ERR   | 70%         |
| Workstation Installed Base   | 0    | 0    | 1    | 62    | 104           | 184  | 313  | 535  | 896  | 1,463 | ERR   | 70%         |
| REVENUE DATA                 |      |      |      |       |               |      |      |      |      |       |       |             |
| CPU Revenue                  | NA   | NA   | NA   | NA    | 1             | 2    | 2    | 3    | 5    | 6     | NA    | 43%         |
| Workstation Revenue          | NA   | NA   | NA   | NA    | 1             | 2    | 2    | 3    | 5    | 6     | NA    | 43%         |
| Software Revenue             | XA   | NA   | NA   | NA    | 2             | 2    | 3    | 5    | 7    | 11    | MA    | 48%         |
| Peripheral Revenue           | NA.  | NA   | NA   | HA    | 1             | 1    | 2    | 3    | 5    | 8     | MA    | 62%         |
| Service Revenue              | 0    | 0    | 0    | 1     | 1             | 1    | 1    | 2    | 4    | 6     | ERR   | 56 <b>X</b> |
| Total Revenue                | 0    | 0    | 0    | 8     | 5             | 7    | 11   | 17   | 25   | 37    | ERR   | 49%         |
| Increase over prior year     | NA   | ERR  | ERR  | 1900% | -38%          | 46%  | 48%  | 57%  | 50%  | 47%   |       |             |

Source: Dataquest

A-2.16

TITLE:

CAD/CAM History and Forecast

APPLICATION: REGION: Mapping Worldwide

PRODUCT TYPE:

Standalone

UNITS:

Millions of Dollars and Actual Units

|                              |      |      |      |      |      |      |      |       |             |       | 81-85 | 85 - 90 |
|------------------------------|------|------|------|------|------|------|------|-------|-------------|-------|-------|---------|
|                              | 1981 | 1982 | 1983 | 1984 | 1985 | 1986 | 1987 | 1988  | 1989        | 1990  | CAGR  | CAGR    |
|                              | ==== | **=# | 2022 | ==== | 2012 | #222 | ***  | 2222  | ***         | 2222  |       | 2322    |
| LIMIT SHIPPENT DATA          |      |      |      |      |      |      |      |       |             |       |       |         |
| CPU Shipments                | Q    | 0    | 0    | Û    | 26   | 201  | 512  | 1,036 | 1,724       | 2,681 | ERR   | 152%    |
| Total Workstation Shipments  | 0    | 0    | 0    | 0    | 26   | 201  | 512  | 1,036 | 1,724       | 2,681 | ERR   | 152%    |
| New Workstation Shipments    | 0    | 0    | 0    | 0    | 26   | 201  | 512  | 1,036 | 1,724       | 2,681 | ERR   | 152%    |
| Add-On Workstation Shipments | 0    | 0    | 0    | 0    | 0    | Ç    | 0    | 0     | 0           | 0     | ERR   | ERR     |
| CPU installed Base           | 0    | 0    | 0    | 0    | 26   | 227  | 737  | 1,765 | 3,471       | 6,118 | ERR   | 197%    |
| Workstation Installed Base   | 0    | 0    | 0    | 0    | 26   | 227  | 737  | 1,765 | 3,471       | 6,118 | ERR   | 197%    |
| REVENUE DATA                 |      |      |      |      |      |      |      |       |             |       |       |         |
| CPU Revenue                  | MA   | NA   | MA   | MA   | . 0  | 4    | 10   | 19    | 29          | 41    | NA    | 153X    |
| Workstation Revenue          | NA   | NA   | NA   | NA   | 0    | 4    | 10   | 19    | 29          | 41    | NA    | 153%    |
| Software Revenue             | NA   | MA   | HA   | HA   | 1    | 9    | 21   | 44    | 75          | 123   | NA    | 170%    |
| Peripheral Revenue           | NA   | AK   | NA   | NA   | 0    | 2    | 5    | 9     | 15          | 22    | MA    | 152%    |
| Service Revenue              | 0    | 0    | 0    | 0    | 0    | 2    | 4    | 9     | 16          | 29    | ERR   | 176X    |
| Total Revenue                | 0    | 0    | 0    | 0    | 2    | 20   | 50   | 99    | 164         | 256   | ERR   | 161%    |
| Increase over prior year     | NA   | ERR  | ERR  | ERR  | ERR  | 851% | 148% | 99%   | 65 <b>%</b> | 56%   |       |         |

Source: Dataquest June 1986 Standalone

A-2.17

TITLE:

CAD/CAM History and Forecast

APPLICATION:

Mapping

REGION:

North America

PRODUCT TYPE:

Standalone

UNITS:

Millions of Dollars and Actual Units

|                                   |      |      |      |      |      |       |      |      |       |       | 81-85 | 85-90 |
|-----------------------------------|------|------|------|------|------|-------|------|------|-------|-------|-------|-------|
|                                   | 1981 | 1982 | 1983 | 1984 | 1985 | 1986  | 1987 | 1988 | 1989  | 1990  | CAGR  | CAGR  |
|                                   | ==== | 2222 | EFEE | ==== | 2222 | ====  | ==== |      | ####  | ====  | ====  |       |
| UNIT SHIPMENT DATA                |      |      |      |      |      |       |      |      |       |       |       |       |
| CPU Shipments                     | 0    | 0    | 0    | 0    | 4    | 103   | 243  | 464  | 778   | 1,284 | ERR   | 220%  |
| Total Workstation Shipments       | 0    | 0    | 0    | 0    | 4    | 103   | 243  | 464  | 778   | 1,284 | ERR   | 220%  |
| New Workstati <b>on Shipments</b> | 0    | 0    | 0    | 0    | 4    | 103   | 243  | 464  | 778   | 1,284 | ERR   | 220%  |
| Add-On Workstation Shipments      | 0    | 0    | 0    | 0    | 0    | 0     | 0    | 0    | 0     | 0     | ERR   | ERR   |
| CPU Installed Base                | 0    | 0    | 0    | 0    | 4    | 107   | 349  | 809  | 1,579 | 2,847 | ERR   | 275%  |
| Workstation Installed Base        | 0    | 0    | 0    | 0    | 4    | 107   | 349  | 809  | 1,579 | 2,847 | ERR   | 275%  |
| REVENUE DATA                      |      |      |      |      |      |       |      |      |       |       |       |       |
| CPU Revenue                       | NA   | NA   | KA   | NA   | 0    | 2     | 5    | 8    | 13    | 20    | NA    | 194X  |
| Workstation Revenue               | NA   | NA   | NA   | NA   | 0    | 2     | 5    | 8    | 13    | 20    | NA    | 194%  |
| Software Revenue                  | NA   | NA   | KA   | NA   | 0    | 4     | 10   | 20   | 34    | 59    | NA    | 177%  |
| Peripheral Revenue                | NA   | NA   | NA   | NA   | 0    | 1     | 2    | 4    | 7     | 11    | NA    | 166%  |
| Service Revenue                   | 0    | 0    | 0    | 0    | 0    | 1     | 2    | 4    | 7     | 14    | ERR   | 180%  |
| Total Revenue                     | 0    | 0    | . 0  | 0    | 1    | 10    | 24   | 44   | 74    | 123   | ERR   | 179%  |
| Increase over priom year          | AK   | ERR  | ERR  | ERR  | ERR  | 1315% | 130% | 87%  | 66%   | 66%   |       |       |

Source: Dataquest

Standalone

**Products** 

A-2.18

TITLE:

CAD/CAM History and Forecast

APPLICATION: REGION: Mapping Europe

PRODUCT TYPE:

Standalone

UNITS:

Millions of Dollars and Actual Units

|                              |      |      |      |      |      |      |      |      |       |       | 81-85 | 85-90 |  |
|------------------------------|------|------|------|------|------|------|------|------|-------|-------|-------|-------|--|
|                              | 1981 | 1982 | 1983 | 1984 | 1985 | 1986 | 1987 | 1988 | 1989  | 1990  | CAGR  | CAGR  |  |
|                              |      |      | ***  | 2223 | ***  | HE22 | ***  | ***  | 2222  | ****  | 2222  | ====  |  |
| UNIT SHIPMENT DATA           |      |      |      |      |      |      |      |      |       |       |       |       |  |
| CPU Shipments                | 0    | 0    | 0    | 0    | 21   | 89   | 154  | 280  | 474   | 749   | ERR   | 105%  |  |
| Total Workstation Shipments  | 0    | 0    | 0    | 0    | 21   | 89   | 154  | 280  | 474   | 749   | ERR   | 105%  |  |
| New Workstation Shipments    | 0    | 0    | 0    | 0    | 21   | 89   | 154  | 280  | 474   | 749   | ERR   | 105%  |  |
| Add-On Workstation Shipments | 0    | 0    | G    | 0    | 0    | 0    | e e  | 0    | 0     | 0     | ERR   | ERR   |  |
| CPU Installed Base           | 0    | 0    | 0    | 0    | 21   | 110  | 263  | 540  | 1,009 | 1,748 | ERR   | 143%  |  |
| Workstation Installed Base   | . 0  | 0    | 0    | 0    | 21   | 110  | 263  | 540  | 1,009 | 1,748 | ERR   | 143%  |  |
| REVENUE DATA                 |      |      |      |      |      |      |      |      |       |       |       |       |  |
| CPU Revenue                  | NA   | NA   | NA   | NA   | 0    | 2    | 3    | 5    | 8     | 12    | MA    | 112%  |  |
| Workstation Revenue          | NA   | NA   | NA   | MA   | Û    | 2    | 3    | 5    | 8     | 12    | MA    | 112%  |  |
| Software Revenue             | NA   | NA   | MA   | MA   | 0    | 4    | 6    | 12   | 21    | 34    | NA    | 139%  |  |
| Peripheral Revenue           | NA   | NA   | NA   | NA   | 0    | 1    | 1    | 2    | 4     | 6     | MA    | 124%  |  |
| Service Revenue              | 0    | 0    | Û    | 0    | 0    | 1    | 1    | 2    | 4     | 8     | ERR   | 140%  |  |
| Total Revenue                | 0    | 0    | 0    | 0    | 1    | 9    | 15   | 27   | 45    | 72    | ERR   | 126%  |  |
| Increase over prior year     | NA   | ERR  | ERR  | ERR  | ERR  | 634X | 68%  | 79%  | 68%   | 59%   |       |       |  |

Source: Dataquest June 1986 A-2.19

TITLE:

CAD/CAM History and Forecast

APPLICATION:

Mapping

REGION: PRODUCT TYPE: Far East Standalone

UNITS:

Millions of Dollars and Actual Units

|                              |      |      |      |      |       |      |       |      |      |       | 81-85 | 85-90 |  |
|------------------------------|------|------|------|------|-------|------|-------|------|------|-------|-------|-------|--|
|                              | 1981 | 1982 | 1983 | 1984 | 1985  | 1986 | 1987  | 1988 | 1989 | 1990  | CAGR  | CAGR  |  |
|                              |      | ==== | ==== | 2222 | ##### | ==== | ====  | ==== | 2225 | 9822  | 2222  | ====  |  |
| UNIT SHIPMENT DATA           |      |      |      |      |       |      |       |      |      |       |       |       |  |
| CPU Shipments                | 0    | 0    | 0    | 0    | 1     | 2    | 96    | 257  | 414  | 569   | ERR   | 230%  |  |
| Total Workstation Shipments  | 0    | 0    | 0    | 8    | 1     | 2    | 96    | 257  | 414  | 569   | ERR   | 230%  |  |
| New Workstation Shipments    | 0    | 0    | 0    | 0    | 1     | 2    | 96    | 257  | 414  | 569   | ERR   | 230%  |  |
| Add-On Workstation Shipments | 0    | 0    | 0    | 0    | 0     | 0    | 0     | 0    | 0    | 0     | ERR   | ERR   |  |
| CPU Installed Base           | 0    | 0    | . 0  | 0    | 1     | 3    | 99    | 354  | 765  | 1,327 | ERR   | 291%  |  |
| Workstation Installed Base   | 0    | 0    | 0    | 0    | 1     | 3    | 99    | 354  | 765  | 1,327 | ERR   | 291%  |  |
| REVENUE DATA                 |      |      |      |      |       |      |       |      |      |       |       |       |  |
| CPU Revenue                  | NA   | NA   | HA   | NA   | 0     | 0    | 2     | 5    | 7    | 9     | NA    | 211%  |  |
| Workstation Revenue          | NA   | NA   | NA   | MA   | 0     | 0    | 2     | 5    | 7    | 9     | NA    | 211%  |  |
| Software Revenue             | NA   | NA   | NA.  | WA   | 0     | 0    | 4     | 11   | 18   | 26    | NA    | 249%  |  |
| Peripheral Revenue           | NA   | NA   | NA   | NA   | 0     | 0    | 1     | 2    | 4    | 5     | NA.   | 199%  |  |
| Service Revenue              | 0    | 0    | 0    | 0    | 0     | 0    | 1     | 2    | 4    | 6     | ERR   | ERR   |  |
| Total Revenue                | 0    | 0    | 0    | 0    | 0     | 0    | 9     | 25   | 39   | 54    | ERR   | 234%  |  |
| Increase over prior year     | NA   | ERR  | ERR  | ERR  | ERR   | 31%  | 5406X | 163% | 60%  | 38%   |       |       |  |

Source: Dataquest

June 1986

All Standalone

A-2.20

TITLE:

CAD/CAN History and Forecast

APPLICATION:

Mapping

REGION: PRODUCT TYPE: Rest of World 'Standalone

UNITS:

Millions of Dollars and Actual Units

|                              |      |           |      |      |      |       |      |             |      |              | 81-85 | 85-90 |
|------------------------------|------|-----------|------|------|------|-------|------|-------------|------|--------------|-------|-------|
|                              | 1981 | 1982      | 1983 | 1984 | 1985 | 1986  | 1987 | 1988        | 1989 | 1990         | CAGR  | CAGR  |
|                              | ==== | ****      | 2222 |      | ==== | ####  | 2222 | F##5        | 2222 | <b>#</b> #=# | E===  |       |
| UNIT SHIPMENT DATA           |      |           |      |      |      |       |      |             |      |              |       |       |
| CPU Shipments                | 0    | Ð         | 0    | 0    | 0    | 7     | 19   | 35          | 58   | 78           | ERR   | 237%  |
| Yotal Workstation Shipments  | 0    | 0         | 0    | 0    | 0    | 7     | 19   | 35          | 58   | 78           | ERR   | 237%  |
| New Workstation Shipments    | 0    | 0         | 0    | 0    | 0    | 7     | 19   | 35          | 58   | 78           | ERR   | 237%  |
| Add-On Workstation Shipments | 0    | C         | 0    | 0    | 0    | 0     | 0    | 0           | 0    | 0            | ERR   | ERR   |
| CPU Installed Base           | 0    | 0         | 0    | 0    | 0    | 7     | 26   | 61          | 119  | 196          | ERR   | 305%  |
| Workstation Installed Base   | 0    | 0         | 0    | 0    | 0    | 7     | 26   | 61          | 119  | 196          | ERR   | 305%  |
| REVENUE DATA                 |      |           |      |      |      |       |      |             |      |              |       |       |
| CPU Revenue                  | NA   | MA        | NA   | NA   | 0    | 0     | 0    | 1           | 1    | 1            | NA    | 161%  |
| Workstation Revenue          | NA   | <b>RA</b> | NA   | AK   | 0    | 0     | 0    | 1           | 1    | 1            | NA    | 161%  |
| Software Revenue             | NA   | MA        | NA   | NA   | 0    | 0     | 1    | 2           | 3    | 4            | NA    | 224%  |
| Peripheral Revenue           | NA   | MA        | NA   | NA   | 0    | 0     | 0    | 0           | 0    | 1            | NA    | 130%  |
| Service Revenue              | 0    | 0         | 0    | 0    | 0    | 0     | 0    | 0           | 1    | 1            | ERR   | ERR   |
| Total Revenue                | 0    | 0         | 0    | 0    | 0    | 1     | 2    | 3           | 6    | 7            | ERR   | 185%  |
| , Increase over prior year   | NA   | ERR       | ERR  | ERR  | ERR  | 1650% | 163% | 85 <b>%</b> | 63X  | 35 <b>%</b>  |       |       |

Source: Dataquest

June 1986

All Standalone

A-2.21

TITLE:

CAD/CAM History and Forecast

APPLICATION:

**Electronic Design Automation** 

REGION:

Worldwide

PRODUCT TYPE:

Standalone

UNITS:

Millions of Dollars and Actual Units

| •                            |      |           |       |       |       |        |        |        |        |        | 81-85 | 85-90 |
|------------------------------|------|-----------|-------|-------|-------|--------|--------|--------|--------|--------|-------|-------|
|                              | 1981 | 1982      | 1983  | 1984  | 1985  | 1986   | 1987   | 1988   | 1989   | 1990   | CAGR  | CAGR  |
|                              | 2222 | ====      | ====  | E222  | ====  | ***    | ***    | ====   | ====   | EE==   | ZZZZ  | ****  |
| UNIT SHIPMENT DATA           |      |           |       |       |       |        |        |        |        |        |       |       |
| CPU Shipments                | 0    | 0         | 1,281 | 3,465 | 3,864 | 6,606  | 9,874  | 15,063 | 22,414 | 32,421 | ERR   | 53%   |
| Total Workstation Shipments  | 0    | 0         | 1,281 | 3,465 | 3,864 | 6,606  | 9,874  | 15,063 | 22,414 | 32,421 | ERR   | 53%   |
| New Workstation Shipments    | 0    | 0         | 1,281 | 3,465 | 3,864 | 6,606  | 9,874  | 15,063 | 22,414 | 32,421 | ERR   | 53%   |
| Add-On Workstation Shipments | 0    | 0         | 0     | 0     | 0     | 0      | 0      | 0      | 0      | 0      | ERR   | ERR   |
| CPU Installed Base           | 0    | 0         | 1,281 | 4,746 | 8,610 | 15,216 | 24,938 | 39,751 | 61,767 | 93,571 | ERR   | 61%   |
| Workstation Installed Base   | 0    | 0         | 1,281 | 4,746 | 8,610 | 15,216 | 24,938 | 39,751 | 61,767 | 93,571 | ERR   | 61%   |
| REVENUE DATA                 |      |           |       |       |       |        |        |        |        |        |       |       |
| CPU Revenue                  | MA   | NA        | NA    | NA    | 54    | 70     | 86     | 107    | 126    | 139    | NA    | 21%   |
| Workstation Revenue          | NA   | NA        | NA    | NA    | 54    | 70     | 86     | 107    | 126    | 139    | NA    | 21%   |
| Softwa <b>re Revenue</b>     | NA   | NA        | NA    | NA    | 141   | 177    | 230    | 311    | 416    | 552    | NA    | 31%   |
| Peripheral Revenue           | NA   | <b>XA</b> | NA    | NA    | 42    | 64     | 82     | 108    | 140    | 178    | NA    | 34%   |
| Service <b>Revenue</b>       | 0    | 0         | 6     | 13    | 27    | 35     | 47     | 66     | 95     | 141    | ERR   | 39%   |
| Total Revenue                | 0    | 0         | 85    | 219   | 317   | 416    | 532    | 698    | 902    | 1,149  | ERR   | 29%   |
| Increase over prior year     | NA   | ERR       | ERR   | 158%  | 45%   | 31%    | 28%    | 31%    | 29%    | 27%    |       |       |

Source: Dataquest

A-2.22

TITLE: APPLICATION:

CAD/CAM History and Forecast Electronic Design Automation

REGION: PRODUCT TYPE: North America Standalone

UNITS:

Millions of Dollars and Actual Units

|                              |           |      |       |       |       |        |        |             |            |        | 81-85 | 85-90 |
|------------------------------|-----------|------|-------|-------|-------|--------|--------|-------------|------------|--------|-------|-------|
|                              | 1981      | 1982 | 1983  | 1984  | 1985  | 1986   | 1987   | 1988        | 1989       | 1990   | CAGR  | CAGR  |
|                              | ====      | ==== | ****  | ====  | 2223  | **==   |        | ****        | *333       | #===   |       | ====  |
| UNIT SHIPMENT DATA           |           |      |       |       |       |        |        |             |            |        |       |       |
| CPU Shipments                | 0         | 0    | 1,002 | 2,659 | 2,781 | 4,195  | 6,339  | 9,778       | 14,594     | 21,243 | ERR   | 50%   |
| Total Workstation Shipments  | 0         | 0    | 1,002 | 2,659 | 2,781 | 4,195  | 6,339  | 9,778       | 14,594     | 21,243 | ERR   | 50%   |
| New Workstation Shipments    | 0         | 0    | 1,002 | 2,659 | 2,781 | 4,195  | 6,339  | 9,778       | 14,594     | 21,243 | ERR   | 50%   |
| Add-On Workstation Shipments | 0         | 0    | 0     | 0     | 0     | 0      | 0      | 0           | 0          | 0      | ERR   | ERR   |
| CPU Installed Base           | 0         | 0    | 1,002 | 3,661 | 6,442 | 10,638 | 16,870 | 26,480      | 40,809     | 61,644 | ERR   | 57%   |
| Workstation Installed Base   | 0         | 6    | 1,002 | 3,661 | 6,442 | 10,638 | 16,870 | 26,480      | 40,809     | 61,644 | ERR   | 57%   |
| REVENUE DATA                 |           |      |       |       |       |        |        |             |            |        |       |       |
| CPU Revenue                  | NA        | NA   | NA    | MA    | 35    | 44     | 55     | 69          | <b>8</b> 2 | 91     | NA    | 21%   |
| Workstation Revenue          | NA        | HA   | NA    | MA    | 35    | 44     | 55     | 69          | 82         | 91     | NA    | 21%   |
| Software <b>Revenue</b>      | NA        | NA   | XA    | NA    | 94    | 112    | 148    | <b>2</b> 02 | 271        | 362    | MA    | 31%   |
| Peripheral Revenue           | WA        | MA   | KA    | NA    | 27    | 41     | 53     | 70          | 91         | 116    | MA    | 34%   |
| Service Revenue              | 0         | 0    | 5     | 10    | 18    | 22     | 30     | 43          | 62         | 92     | ERR   | 39%   |
| Total Revenue                | 0         | 0    | 67    | 164   | 208   | 264    | 341    | 453         | 587        | 753    | ERR   | 29%   |
| Increase over prior year     | <b>NA</b> | ERR  | ERR   | 145%  | 27%   | 27%    | 29%    | 33 <b>X</b> | 30X        | 28%    |       |       |

Source: Dataquest

June 1986

All Standalone

A-2.23

TITLE:

CAD/CAM History and Forecast

APPLICATION:

**Electronic Design Automation** 

REGION:

Europe

PRODUCT TYPE:

Standalone

UNITS:

Millions of Dollars and Actual Units

|                              |      |      |      |      |              |       |       |       |        |        | 81-85 | 85-90 |
|------------------------------|------|------|------|------|--------------|-------|-------|-------|--------|--------|-------|-------|
|                              | 1981 | 1982 | 1983 | 1984 | 1985         | 1986  | 1987  | 1988  | 1989   | 1990   | CAGR  | CAGR  |
|                              | ==== | 2220 | ==== | ETIC | <b>22</b> 22 | EE==  | ====  | *===  | ====   | 2222   | ====  | ====  |
| UNIT SHIPMENT DATA:          |      |      |      |      |              |       |       |       |        |        |       |       |
| CPU Shipments                | 0    | 0    | 217  | 440  | 710          | 1,505 | 2,243 | 3,371 | 5,007  | 7,194  | ERR   | 59%   |
| Total Workstation Shipments  | 0    | 0    | 217  | 440  | 710          | 1,505 | 2,243 | 3,371 | 5,007  | 7,194  | ERR   | 59%   |
| New Workstation Shipments    | 0    | 0    | 217  | 440  | 710          | 1,505 | 2,243 | 3,371 | 5,007  | 7,194  | ERR   | 59%   |
| Add-On Workstation Shipments | 0    | 0    | 0    | 0    | 0            | 0     | 0     | 0     | 0      | . 0    | ERR   | ERR   |
| CPU Installed Base           | 0    | 0    | 217  | 657  | 1,367        | 2,872 | 5,086 | 8,406 | 13,329 | 20,390 | ERR   | 72%   |
| Workstation Installed Base   | 0    | 0    | 217  | 657  | 1,367        | 2,872 | 5,086 | 8,406 | 13,329 | 20,390 | ERR   | 72%   |
| REVENUE DATA                 |      |      |      |      |              |       |       |       |        |        |       |       |
| CPU Revenue                  | NA   | NA   | NA   | NA   | 12           | 16    | 20    | 24    | 28     | 31     | NA    | 21%   |
| Workstation Revenue          | NA   | NA   | NA   | NA   | 12           | 16    | 20    | 24    | 28     | 31     | NA    | 21%   |
| Software Revenue             | NA   | AH   | NA   | NA   | 30           | 40    | 52    | 70    | 93     | 123    | NA    | 33%   |
| Peri <b>pheral Re</b> venue  | NA   | NA   | NA   | NA   | 9            | 15    | 19    | 24    | 31     | 39     | NA    | 34%   |
| Service Revenue              | 0    | 0    | 1    | 2    | 6            | 8     | 11    | 15    | 21     | 31     | ERR   | 39%   |
| Total Revenue                | 0    | 0    | 14   | 30   | 68           | 95    | 121   | 156   | 202    | 255    | ERR   | 30%   |
| Increase over prior year     | NA   | ERR  | ERR  | 113% | 128%         | 39%   | 28%   | 29%   | 29%    | 26%    |       |       |

Source: Dataquest

A-2.24

TITLE: APPLICATION:

CAD/CAM History and Forecast Electronic Design Automation

REGION: PRODUCT TYPE: Far East Standalone

UNITS:

Millions of Dollars and Actual Units

|                              |      |      |      |      |      |       |       |       |           |        | 81-85 | 85-90 |
|------------------------------|------|------|------|------|------|-------|-------|-------|-----------|--------|-------|-------|
|                              | 1981 | 1982 | 1983 | 1984 | 1985 | 1986  | 1987  | 1988  | 1989      | 1990   | CAGR  | CAGR  |
|                              | PERE | 4220 | **** | ==== |      | ##P#  | ***   | 2223  | - 10 日本工業 | 2222   | ====  | ====  |
| UNIT SHIPMENT DATA           |      |      |      |      |      |       |       |       |           |        |       |       |
| CPU <b>5hip</b> ments        | 0    | 0    | 62   | 352  | 370  | 900   | 1,283 | 1,899 | 2,788     | 3,939  | ERR   | 61%   |
| Total Workstation Shipments  | 0    | 0    | 62   | 352  | 370  | 900   | 1,283 | 1,899 | 2,788     | 3,939  | ERR   | 61%   |
| New Workstation Shipments    | 0    | 0    | 62   | 352  | 370  | 900   | 1,283 | 1,899 | 2,788     | 3,939  | ERR   | 61%   |
| Add-On Workstation Shipments | 0    | 0    | 0    | 0    | 0    | 0     | 0     | 0     | 0         | 0      | ERR   | ERR   |
| CPU Installed Base           | 0    | 0    | 62   | 414  | 783  | 1,684 | 2,950 | 4,820 | 7,559     | 11,423 | ERR   | 71%   |
| Workstation Installed Base   | 0    | 0    | 62   | 414  | 783  | 1,684 | 2,950 | 4,820 | 7,559     | 11,423 | ERR   | 71%   |
| REVENUE DATA                 |      |      |      |      |      |       |       |       |           |        |       |       |
| CPU Revenue                  | AN   | MA   | NA   | NA   | 7    | 10    | 11    | 13    | 16        | 17     | HA    | 19%   |
| Workstation Revenue          | NA   | NA   | ₩A   | NA   | 7    | 10    | 11    | 13    | 16        | 17     | NA    | 19%   |
| Software Revenue             | HA   | MA   | NA   | NA   | 17   | 24    | 30    | 39    | 52        | 67     | NA    | 31%   |
| Peripheral Revenue           | NA   | MA   | NA   | NA   | 6    | 9     | 11    | 14    | 17        | 22     | NA    | 31%   |
| Service Revenue              | 0    | 0    | 0    | 1    | 3    | 5     | 6     | 8     | 12        | 17     | ERR   | 39%   |
| Total <b>Revenue</b>         | 0    | 0    | 4    | 24   | 40   | 57    | 69    | 88    | 112       | 140    | ERR   | 28%   |
| Increase over prior year     | MA   | ERR  | ERR  | 497% | 68%  | 41%   | 22%   | 27%   | 28X       | 24%    |       |       |

Source: Dataquest

A-2.25

TITLE:

CAD/CAM History and Forecast

APPLICATION:

**Electronic Design Automation** 

REGION:

Rest of World

PRODUCT TYPE:

Standalone

UNITS:

Millions of Dollars and Actual Units

|                                  |      |      |      |      |      |      |      |      |      |      | 81-85 | 85-90 |
|----------------------------------|------|------|------|------|------|------|------|------|------|------|-------|-------|
|                                  | 1981 | 1982 | 1983 | 1984 | 1985 | 1986 | 1987 | 1988 | 1989 | 1990 | CAGR  | CAGR  |
|                                  | ==== | **** | ==== | ==== | ==== | ==== | ==== | ==== | ***  | ==== | ====  | ====  |
| UNIT SHIPMENT DATA               |      |      |      |      |      |      |      |      |      |      |       |       |
| CPU Shipments                    | 0    | 0    | 0    | 15   | 3    | 6    | 8    | 14   | 25   | 45   | ERR   | 72%   |
| Total Workstation Shipments      | 0    | 0    | 0    | 15   | 3    | 6    | 8    | 14   | 25   | 45   | ERR   | 72%   |
| New Workstation Shipments        | 0    | 0    | 0    | 15   | 3    | 6    | 8    | 14   | 25   | 45   | ERR   | 72%   |
| Add-On Workstation Shipments     | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | ERR   | ERR   |
| CPU installed Base               | 0    | 0    | 0    | 15   | 18   | 24   | 32   | 45   | 70   | 115  | ERR   | 45%   |
| Workstation Installed Base       | 0    | 0    | . 0  | 15   | 18   | 24   | 32   | 45   | 70   | 115  | ERR   | 45%   |
| REVENUE DATA                     |      |      |      |      |      |      |      |      |      |      |       |       |
| CPU Revenue                      | NA   | NA   | NA   | NA   | 0    | 0    | 0    | 0    | 0    | 0    | MA    | 38%   |
| Workstation Revenue              | MA   | AK   | NA   | NA   | 0    | 0    | 0    | 0    | 0    | 0    | NA    | 38%   |
| Software Revenue                 | NA   | NA   | NA   | NA   | 0    | 0    | 0    | 0    | 0    | 1    | MA    | 48%   |
| Peripheral Revenue               | NA.  | NA   | NA   | NA   | 0    | 0    | 0    | 0    | 0    | 0    | MA    | 53%   |
| Service Revenue                  | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | ERR   | 38%   |
| Total Revenue                    | 0    | 0    | 0    | 1    | 0    | 0    | 0    | 1    | 1    | 2    | ERR   | 43%   |
| Increase over <b>pr</b> ior year | NA   | ERR  | ERR  | ERR  | -73% | 41%  | 18%  | 40%  | 62%  | 58%  |       |       |

Source: Dataquest

### TABLE NUMBER: A-2.26 TITLE: CAD/CAM History and Forecast

APPLICATION: Integrated Circuit

REGION: Worldwide PRODUCT TYPE: Standalone

UNITS: Nillions of Dollars and Actual Units

|                              |              |              |      |      |       |       |       |       |        |             | 81-85 | 85-90 |
|------------------------------|--------------|--------------|------|------|-------|-------|-------|-------|--------|-------------|-------|-------|
|                              | 1981         | 1982         | 1983 | 1984 | 1985  | 1986  | 1987  | 1988  | 1989   | 1990        | CAGR  | CAGR  |
|                              | <b>===</b> = | <b>E</b> EE= | ***  | ==== | 2000  | ====  | *TES  | ====  |        | ====        | ***   | 322E  |
| UNIT SHIPMENT DATA           |              |              |      |      |       |       |       |       |        |             |       |       |
| CPU Shipments                | 0            | 0            | 34   | 389  | 917   | 1,364 | 2,344 | 3,742 | 5,672  | 8,416       | ERR   | 56%   |
| Total Workstation Shipments  | 0            | 0            | 35   | 389  | 917   | 1,364 | 2,344 | 3,742 | 5,672  | 8,416       | ERR   | 56%   |
| New Workstation Shipments    | 0            | 0            | 34   | 389  | 917   | 1,364 | 2,344 | 3,742 | 5,672  | 8,416       | ERR   | 56%   |
| Add-On Workstation Shipments | 0            | 0            | 0    | 0    | 0     | 0     | 0     | 0     | 0      | 0           | ERR   | ERR   |
| CPU Installed Base           | 0            | 0            | 34   | 423  | 1,340 | 2,704 | 5,021 | 8,712 | 14,297 | 22,570      | ERR   | 76%   |
| Workstation Installed Base   | 0            | 0            | 34   | 423  | 1,340 | 2,704 | 5,021 | 8,712 | 14,297 | 22,570      | ERR   | 76%   |
| REVENUE DATA                 |              |              |      |      |       |       |       |       |        |             |       |       |
| CPU Revenue                  | NA           | NA           | NA   | MA   | 16    | 23    | 36    | 52    | 70     | 89          | NA    | 40%   |
| Workstation Revenue          | HA           | NA           | NA   | MA   | 16    | 23    | 36    | 52    | 70     | 89          | MA    | 40%   |
| Software Revenue             | NA           | NA           | NA   | NA   | 41    | 58    | 97    | 153   | 233    | 350         | MA    | 53%   |
| Peripheral Revenue           | NA           | NA           | NA   | MA   | 12    | 17    | 28    | 43    | 62     | 90          | NA    | 50%   |
| Service Revenue              | Ó            | 0            | 0    | 3    | 12    | 16    | 28    | 46    | 74     | 122         | ERR   | 60%   |
| Total Revenue                | 0            | 0            | 4    | 37   | 97    | 137   | 225   | 346   | 510    | 739         | ERR   | 50%   |
| Increase over prior year     | NA           | ERR          | ERR  | 830% | 161%  | 41%   | 64%   | 54X   | 48X    | 45 <b>X</b> |       |       |

Source: Dataquest June 1986 **Standalone** 

A-2.27

TITLE:

CAD/CAM History and Forecast

APPLICATION:

Integrated Circuit

REGION:

North America

PRODUCT TYPE:

Standatione

UNITS:

Millions of Dollars and Actual Units

|                              |      |      |      |      |      |       |       |             |       |             | 81-85 | 85-90       |
|------------------------------|------|------|------|------|------|-------|-------|-------------|-------|-------------|-------|-------------|
|                              | 1981 | 1982 | 1983 | 1984 | 1985 | 1986  | 1987  | 1988        | 1989  | 1990        | CAGR  | CAGR        |
|                              | ==== | ==== | #### | ==== | E325 | ====  | ====  | 2222        | 2222  | ****        | 2222  | ====        |
| UNIT SHIPMENT DATA           |      |      |      |      |      |       |       |             |       |             |       |             |
| CPU Shipments                | 0    | 0    | 27   | 280  | 652  | 897   | 1,433 | 2,298       | 3,506 | 5,223       | ERR   | 52%         |
| Total Workstation Shipments  | 0    | 0    | 27   | 280  | 652  | 897   | 1,433 | 2,298       | 3,506 | 5,223       | ERR   | 52%         |
| New Workstation Shipments    | 0    | 0    | 27   | 280  | 652  | 897   | 1,433 | 2,298       | 3,506 | 5,223       | ERR   | 52%         |
| Add-On Workstation Shipments | 0    | 0    | 0    | 0    | 0    | 0     | 0     | 0           | 0     | 0           | ERR   | ERR         |
| CPU Installed Base           | 0    | G    | 27   | 307  | 960  | 1,856 | 3,270 | 5,535       | 8,986 | 14,119      | ERR   | 71%         |
| Workstation Installed Base   | 0    | G    | 27   | 307  | 960  | 1,856 | 3,270 | 5,535       | 8,986 | 14,119      | ERR   | 71%         |
| REVENUE DATA                 |      |      |      |      |      |       |       |             |       |             |       |             |
| CPU Revenue                  | NA   | NA   | RA   | NA   | 12   | 15    | 22    | 32          | 44    | 55          | NA    | 37%         |
| Workstation Revenue          | NA   | NA   | NA   | NA   | 12   | 15    | 22    | 32          | 44    | 55          | NA    | 37%         |
| Software Revenue             | NA   | NA   | NA   | NA   | 29   | 38    | 59    | 94          | 144   | 217         | NA    | 49%         |
| Peripheral Revenue           | NA   | NA   | WA   | NA   | 8    | 11    | 17    | 26          | 39    | 56          | NA    | 47%         |
| Service Revenue              | 0    | 0    | 0    | 2    | 9    | 11    | 17    | 28          | 46    | 76          | ERR   | 54 <b>%</b> |
| Total Revenue                | 0    | 0    | 3    | 26   | 69   | 90    | 138   | 212         | 315   | 459         | ERR   | 46%         |
| Increase over prior year     | KA   | ERR  | ERR  | 769% | 166% | 30%   | 53%   | 54 <b>X</b> | 49%   | 45 <b>X</b> |       |             |

Source: Dataquest

## A.2 All Standalone Products

TABLE NUMBER:

A-2.28

TITLE:

CAD/CAM History and Forecast

APPLICATION:

Integrated Circuit

REGION:

Europe

PRODUCT TYPE:

Standalone

UNITS:

Millions of Dollars and Actual Units

|                                    |      |      |      |      |      |      |      |       |       |       | 81 - 85 | 85-90 |
|------------------------------------|------|------|------|------|------|------|------|-------|-------|-------|---------|-------|
|                                    | 1981 | 1982 | 1983 | 1984 | 1985 | 1986 | 1987 | 1988  | 1989  | 1990  | CAGR    | CAGR  |
|                                    | ==== | ==== | ==== | EZZ= | ==== | ==== | ==== | 2222  | ====  | ====  | ====    | ====  |
| UNIT SKIPMENT DATA                 |      |      |      |      |      |      |      |       |       |       |         |       |
| CPU Shipments                      | 0    | 0    | 6    | 69   | 154  | 257  | 437  | 684   | 1,038 | 1,555 | ERR     | 59%   |
| <b>Fotal Workstation Shipments</b> | 0    | 0    | 6    | 69   | 154  | 257  | 437  | 684   | 1,038 | 1,555 | ERR     | 59%   |
| New Workstation Shipments          | D .  | 0    | 6    | 69   | 154  | 257  | 437  | 684   | 1,038 | 1,555 | ERR     | 59%   |
| Add-On Workstation Shipments       | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0     | 0     | 0     | ERR     | ERR   |
| CPU Installed Base                 | 0    | 0    | 6    | 75   | 229  | 485  | 917  | 1,592 | 2,614 | 4,143 | ERR     | 79%   |
| Workstation Installed Base         | 0    | 0    | 6    | 75   | 229  | 485  | 917  | 1,592 | 2,614 | 4,143 | ERR     | 79%   |
| REVENUE DATA                       |      |      |      |      |      |      |      |       |       |       |         |       |
| CPU Revenue                        | MA   | NA.  | NA   | NA   | 3    | 4    | 7    | 10    | 13    | 16    | HA      | 40%   |
| Workstation Revenue                | NA   | NA   | HA   | NA   | 3    | 4    | 7    | 10    | 13    | 16    | NA      | 40%   |
| Software Revenue                   | NA   | NA   | NA   | NA   | 8    | 11   | 18   | 28    | 43    | 65    | NA      | 53%   |
| Peripheral Revenue                 | NA   | NA   | NA   | NA   | 2    | 3    | 5    | 8     | 11    | 17    | NA      | 48%   |
| Service Revenue                    | 0    | 0    | 0    | 1    | 2    | 3    | 5    | 8     | 14    | 23    | ERR     | 60%   |
| Total Revenue                      | 0    | 0    | 1    | 7    | 18   | 26   | 42   | 63    | 93    | 137   | ERR     | 50%   |
| Increase over prior year           | NA   | ERR  | ERR  | 602% | 159% | 42%  | 63%  | 51%   | 48%   | 46%   |         |       |

Source: Dataquest

A-2.29

TITLE:

CAD/CAM History and Forecast

APPLICATION:

Integrated Circuit

REGION:

Far East

PRODUCT TYPE:

Standalone

UNITS:

Millions of Dollars and Actual Units

|                              |           |      |      |      |      |      |      |       |       |       | 81-85      | 85-90 |
|------------------------------|-----------|------|------|------|------|------|------|-------|-------|-------|------------|-------|
|                              | 1981      | 1982 | 1983 | 1984 | 1985 | 1986 | 1987 | 1988  | 1989  | 1990  | CAGR       | CAGR  |
|                              | ====      | ==== | ==== | ==== | ==== | 2272 | ==== | 2222  | ====  | 2233  | E2E2       | *===  |
| UNIT SHIPMENT DATA           |           |      |      |      |      |      |      |       |       |       |            |       |
| CPU Shipments                | 0         | 0    | 1    | 39   | 99   | 186  | 433  | 696   | 1,033 | 1,502 | ERR        | 72%   |
| Total Workstation Shipments  | 0         | 0    | 1    | 39   | 99   | 186  | 433  | 696   | 1,033 | 1,502 | ERR        | 72%   |
| New Workstation Shipments    | 0         | 0    | 1    | 39   | 99   | 186  | 433  | 696   | 1,033 | 1,502 | ERR        | 72%   |
| Add-On Workstation Shipments | 0         | 0    | 0    | 0    | 0    | 0    | 0    | 0     | 0     | 0     | <b>ERR</b> | ERR   |
| CPU Installed Base           | 0         | 0    | 1    | 40   | 140  | 325  | 755  | 1,443 | 2,462 | 3,939 | ERR        | 95%   |
| Workstation Installed Base   | 0         | 0    | 1    | 40   | 140  | 325  | 755  | 1,443 | 2,462 | 3,939 | ERR        | 95%   |
| REVENUE DATA                 |           |      |      |      |      |      |      |       |       |       |            |       |
| CPU Revenue                  | NA        | NA   | NA   | NA   | 1    | 3    | 7    | 10    | 13    | 16    | AK         | 63%   |
| Workstation Revenue          | NA        | NA   | NA   | NA   | 1    | 3    | 7    | 10    | 13    | 16    | NA         | 63%   |
| Software Revenue             | NA        | NA   | NA   | NA   | 4    | 8    | 18   | 28    | 42    | 62    | NA         | 74%   |
| Peripheral Revenue           | NA        | NA   | NA   | NA   | 1    | 2    | 5    | 8     | 11    | 16    | NA         | 77%   |
| Service Revenue              | 0         | 0    | 0    | 0    | 1    | 2    | 5    | 8     | 14    | 22    | ERR        | 109%  |
| Total Revenue                | 0         | 0    | 0    | 4    | 8    | 19   | 42   | 64    | 93    | 132   | ERR        | 74%   |
| Increase over prior year     | <b>NA</b> | ERR  | ERR  | ERR  | 103% | 128% | 123% | 55%   | 45%   | 42%   |            |       |

Source: Dataquest

## A.2 All Standalone Products

TABLE NUMBER:

A-2.30

TITLE:

CAD/CAM History and Forecast

APPLICATION:

Integrated Circuit

REGION:

Rest of World

PRODUCT TYPE:

Standalone

UNITS:

Millions of Dollars and Actual Units

|                              |      |           |      |      |       |      |      |      |      |      | 81-85 | 85-90 |
|------------------------------|------|-----------|------|------|-------|------|------|------|------|------|-------|-------|
|                              | 1981 | 1982      | 1983 | 1984 | 1985  | 1986 | 1987 | 1988 | 1989 | 1990 | CAGR  | CAGR  |
|                              | 2522 | 2222      | XX33 | 2222 | 222   | *=== | 2222 | 3222 | 2222 | ==== | ====  | ====  |
| UNIT SHIPMENT DATA           |      |           |      |      |       |      |      |      |      |      |       |       |
| CPU Shipments                | 0    | 0         | C    | 1    | 11    | 25   | 42   | 64   | 94   | 136  | ERR   | 66%   |
| Total Workstation Shipments  | 0    | 0         | 1    | 1    | 11    | 25   | 42   | 64   | 94   | 136  | ERR   | 66%   |
| New Workstation Shipments    | 0    | 0         | 0    | 1    | 11    | 25   | 42   | 64   | 94   | 136  | ERR   | 66%   |
| Add-On Workstation Shipments | 0    | 0         | 0    | 0    | 0     | 0    | 0    | 0    | 0    | 0    | ERR   | ERR   |
| CPU Installed Base           | 0    | 0         | 0    | 1    | 12    | 37   | 78   | 142  | 235  | 368  | ERR   | 99%   |
| Workstation Installed Base   | 0    | 0         | 0    | 1    | 12    | 37   | 78   | 142  | 235  | 368  | ERR   | 99%   |
| REVENUE DATA                 |      |           |      |      |       |      |      |      |      |      |       |       |
| CPU Revenue                  | NA   | <b>NA</b> | NA   | NA   | 0     | 0    | 1    | 1    | 1    | 1    | NA    | 39%   |
| <b>Horkstation Revenue</b>   | NA   | NA.       | NA   | NA   | 0     | 0    | 1    | 1    | 1    | 1    | NA    | 39%   |
| Software Revenue             | NA   | NA        | NA   | NA   | 0     | 1    | 2    | 3    | 4    | 6    | NA    | 67%   |
| Peripheral Revenue           | NA   | NA        | NA   | NA   | 0     | 0    | 0    | 1    | 1    | 1    | NA    | 50%   |
| Service Revenue              | 0    | 0         | 0    | 0    | G     | 0    | 1    | 1    | 1    | 2    | ERR   | 49%   |
| Total Revenue                | 0    | 0         | 0    | 0    | 1     | 3    | 4    | 6    | 9    | 12   | ERR   | 53%   |
| Increase over prior year     | NA   | ERR       | ERR  | ERR  | 1330% | 75%  | 60%  | 48%  | 43%  | 40%  |       |       |

Source: Dataquest

A-2.31

TITLE:

CAD/CAM History and Forecast

APPLICATION:

Printed Circuit Board

REGION:

Worldwide

PRODUCT TYPE:

Standatone

UNITS:

Millions of Dollars and Actual Units

|                              |      |      |      |       |       |       |        |        |        |        | 81-85 | 85-90 |
|------------------------------|------|------|------|-------|-------|-------|--------|--------|--------|--------|-------|-------|
|                              | 1981 | 1982 | 1983 | 1984  | 1985  | 1986  | 1987   | 1988   | 1989   | 1990   | CAGR  | CAGR  |
|                              | ==== | z=== | MEME | ====  | ====  | 2772  | ****   | 2222   | 2222   | ====   | ====  | ====  |
| UNIT SHIPMENT DATA           |      |      |      |       |       |       |        |        |        |        |       |       |
| CPU Shipments                | 0    | 0    | 713  | 1,218 | 1,823 | 3,762 | 6,610  | 10,415 | 15,075 | 20,929 | ERR   | 63%   |
| Total Workstation Shipments  | 0    | 0    | 713  | 1,218 | 1,823 | 3,762 | 6,610  | 10,415 | 15,075 | 20,929 | ERR   | 63%   |
| New Workstation Shipments    | 0    | 0    | 713  | 1,218 | 1,823 | 3,762 | 6,610  | 10,415 | 15,075 | 20,929 | ERR   | 63%   |
| Add-On Workstation Shipments | 0    | 0    | 0    | 0     | 0     | 0     | 0      | 0      | 0      | 0      | ERR   | ERR   |
| CPU Installed Base           | 0    | 0    | 713  | 2,031 | 3,855 | 7,617 | 14,151 | 24,424 | 39,255 | 59,791 | ERR   | 73%   |
| Workstation Installed Base   | 0    | 0    | 713  | 2,031 | 3,855 | 7,617 | 14,151 | 24,424 | 39,255 | 59,791 | ERR   | 73%   |
| REVENUE DATA                 |      |      |      |       |       |       |        |        |        |        |       |       |
| CPU Revenue                  | NA   | NA   | NA   | NA    | 37    | 54    | 81     | 106    | 123    | 131    | NA    | 29%   |
| Workstation Reverue:         | NA   | NA   | NA   | NA    | 37    | 54    | 81     | 106    | 123    | 131    | NA    | 29%   |
| Software Revenue             | NA   | NA   | NA   | NA    | 67    | 91    | 143    | 201    | 261    | 326    | NA    | 37%   |
| Peripheral Revenue           | NA   | NA   | NA   | NA    | 24    | 47    | 72     | 100    | 127    | 155    | NA    | 45%   |
| Service Revenue              | 0    | 0    | 4    | 10    | 28    | 42    | 67     | 98     | 139    | 197    | ERR   | 48%   |
| Total Revenue                | 0    | 0    | 58   | 104   | 193   | 289   | 444    | 611    | 772    | 941    | ERR   | 37%   |
| increase over prior year     | NA   | ERR  | ERR  | 80%   | 85%   | 50%   | 54%    | 37%    | 26%    | 22%    |       |       |

Source: Dataquest

### TABLE NUMBER: A-2.32 TITLE: CAD/CAM History and Forecast APPLICATION: Printed Circuit Board REGION: North America PRODUCT TYPE: Stendalone

UNITS: Millions of Dollars and Actual Units

|                              | 1981 | 1982 | 1983 | 1984  | 1985        | 1986  | 1987  | 1988   | 1989   | 1990   | 81-85<br>CAGR | 85-90<br>CAGR |
|------------------------------|------|------|------|-------|-------------|-------|-------|--------|--------|--------|---------------|---------------|
| UNIT SHIPMENT DATA           |      |      |      |       |             |       |       |        |        |        |               |               |
| CPU Shipments                | 0    | 0    | 328  | 834   | 1,146       | 1,791 | 3,090 | 4,878  | 7,122  | 9,750  | ERR           | 53%           |
| Total Workstation Shipments  | 0    | 0    | 328  | 834   | 1,146       | 1,791 | 3,090 | 4,878  | 7,122  | 9,750  | ERR           | 53%           |
| New Workstation Shipments    | 0    | 0    | 328  | 834   | 1,146       | 1,791 | 3,090 | 4,878  | 7,122  | 9,750  | ERR           | 53%           |
| Add-On Workstation Shipments | 0    | 0    | 0    | 0     | 0           | 0     | 0     | 0      | 0      | 0      | ERR           | ERR           |
| CPU Installed Base           | G    | 0    | 328  | 1,262 | 2,408       | 4,199 | 7,248 | 12,053 | 19,054 | 28,614 | ERR           | 64%           |
| Workstation Installed Base   | 0    | 0    | 328  | 1,262 | 2,408       | 4,199 | 7,248 | 12,053 | 19,054 | 28,614 | ERR           | 64%           |
| REVENUE DATA                 |      |      |      |       |             |       |       |        |        |        |               |               |
| CPU Revenue                  | NA   | NA   | HA   | NA    | 18          | 26    | 38    | 50     | 58     | 61     | NA            | 28%           |
| Workstation Revenue          | NA   | NA   | NA   | MA    | 18          | 26    | 38    | 50     | 58     | 61     | NA            | 28%           |
| Software Revenue             | WA   | NA   | NA   | NA.   | 36          | 43    | 67    | 94     | 123    | 152    | NA            | 34%           |
| Peripheral Revenue           | AK   | NA   | NA   | NA    | 16          | 22    | 34    | 47     | 60     | 72     | NA            | 36%           |
| Service Revenue              | 0    | 0    | 2    | 7     | 14          | 20    | 31    | 46     | 66     | 92     | ERR           | 46X           |
| Total Revenue                | 0    | 0    | 27   | 69    | 101         | 137   | 208   | 286    | 365    | 438    | ERR           | 34%           |
| Increase over prior year     | NA   | ERR  | ERR  | 157%  | 45 <b>X</b> | 37%   | 51%   | 38X    | 28%    | 20%    |               |               |

Source: Dataquest

June 1986

**All Standalone Products** 

A-2.33

TITLE:

CAD/CAM History and Forecast

APPLICATION:

Printed Circuit Board

REGION:

Europe

PRODUCT TYPE:

Standalone

UNITS:

Millions of Dollars and Actual Units

|                              |      |      |      |      |       |       |       |       |       |        | 81-85 | 85-90 |
|------------------------------|------|------|------|------|-------|-------|-------|-------|-------|--------|-------|-------|
|                              | 1981 | 1982 | 1983 | 1984 | 1985  | 1986  | 1987  | 1988  | 1989  | 1990   | CAGR  | CAGR  |
|                              | ==== | ==== | #225 | ==== | ====  | 2222  | 2223  | ====  | ====  | ====   | ****  | ****  |
| UNIT SHIPMENT DATA           |      |      |      |      |       |       |       |       |       |        |       |       |
| CPU Shipments                | 0    | 0    | 321  | 341  | 352   | 824   | 1,388 | 2,236 | 3,357 | 4,852  | ERR   | 69%   |
| Total Workstation Shipments  | 0    | 0    | 321  | 341  | 352   | 824   | 1,388 | 2,236 | 3,357 | 4,852  | ERR   | 69%   |
| New Workstation Shipments    | 0    | 0    | 321  | 341  | 352   | 824   | 1,388 | 2,236 | 3,357 | 4,852  | ERR   | 69%   |
| Add-On Workstation Shipments | 0    | 0    | 0    | 0    | 0     | 0     | 0     | 0     | 0     | 0      | ERR   | ERR   |
| CPU Installed Base           | 0    | 0    | 321  | 662  | 1,013 | 1,838 | 3,207 | 5,411 | 8,714 | 13,479 | ERR   | 68%   |
| Workstation Installed Base   | 0    | 0    | 321  | 662  | 1,013 | 1,838 | 3,207 | 5,411 | 8,714 | 13,479 | ERR   | 68%   |
| REVENUE DATA                 |      |      |      |      |       |       |       |       |       |        |       |       |
| CPU Revenue                  | NA   | NA   | NA   | NA   | 10    | 12    | 17    | 23    | 27    | 30     | MA    | 25%   |
| Workstation Revenue          | NA   | NA   | NA   | NA   | 10    | 12    | 17    | 23    | 27    | 30     | NA    | 25%   |
| Software Revenue             | NA   | NA   | NA   | KA   | 16    | 20    | 30    | 43    | 58    | 75     | NA    | 36%   |
| Peripheral Revenue           | NA   | NA   | NA   | AR   | 5     | 10    | 15    | 21    | 28    | 36     | WA    | 47X   |
| Service Revenue              | 0    | 0    | 2    | 3    | 9     | 9     | 14    | 21    | 31    | 46     | ERR   | 40%   |
| Total Revenue                | 0    | 0    | 26   | 31   | 50    | 63    | 93    | 131   | 172   | 218    | ERR   | 34%   |
| Increase over prior year     | NA   | ERR  | ERR  | 20%  | 60%   | 27%   | 48%   | 40%   | 31%   | 27%    |       |       |

Source: Dataquest

TITLE:

A-2.34

CAD/CAN History and Forecast

APPLICATION:

TABLE NIMBER:

Printed Circuit Board : Far East

REGION: PRODUCT TYPE:

Standalone

UNITS:

Millions of Dollars and Actual Units

|                              |           |      |      |      |       |       |       |       |               |        | 81-85 | 85-90 |
|------------------------------|-----------|------|------|------|-------|-------|-------|-------|---------------|--------|-------|-------|
|                              | 1981      | 1982 | 1983 | 1984 | 1985  | 1986  | 1987  | 1988  | 1989          | 1990   | CAGR  | CAGR  |
|                              | ====      | ==== | **** | 2222 | e www | ****  | 2222  | 2552  | 22 <b>2</b> 2 | ====   | 8222  | ****  |
| UNIT SHIPMENT DATA           |           |      |      |      |       |       |       |       |               |        |       |       |
| CPU Shipments                | 0         | 0    | 60   | 33   | 305   | 1,112 | 2,078 | 3,205 | 4,444         | 6,122  | ERŘ   | 82%   |
| Total Workstation Shipments  | 0         | 0    | 60   | 33   | 305   | 1,112 | 2,078 | 3,205 | 4,444         | 6,122  | ERR   | 82%   |
| New Workstation Shipments    | 0         | 0    | 60   | 33   | 305   | 1,112 | 2,078 | 3,205 | 4,444         | 6,122  | ERR   | 82%   |
| Add-On Workstation Shipments | 0         | 0    | 0    | 0    | 0     | 0     | 0     | 0     | 0             | 0      | ERR   | ERR   |
| CPU Installed Base           | 0         | 0    | 60   | 93   | 398   | 1,509 | 3,572 | 6,742 | 11,118        | 17,129 | ERR   | 112%  |
| Workstation Installed Base   | 0         | Đ    | 60   | 93   | 398   | 1,509 | 3,572 | 6,742 | 11,118        | 17,129 | ERR   | 112%  |
| REVENUE DATA                 |           |      |      |      |       |       |       |       |               |        |       |       |
| CPU Revenue                  | <b>HA</b> | NA   | NA   | NA   | 9     | 16    | 26    | 33    | 36            | 38     | HA    | 35%   |
| Workstation Revenue          | NA        | XA   | NA   | NA   | 9     | 16    | 26    | 33    | 36            | 38     | HA    | 35%   |
| Software Revenue             | WA        | NA   | NA   | NA   | 15    | 27    | 45    | 62    | 77            | 95     | MA    | 45%   |
| Peripheral Revenue           | NA        | NA   | KA   | MA   | 3     | 14    | 23    | 31    | 37            | 45     | NA    | 67%   |
| Service Revenue              | 0         | C    | 0    | 0    | 5     | 12    | 21    | 30    | 41            | 58     | ERR   | 60%   |
| Tota <b>i Revenue</b>        | 0         | 0    | 5    | 3    | 41    | 85    | 140   | 188   | 228           | 275    | ERR   | 47%   |
| Increase over prior year     | NA        | ERR  | ERR  | -40X | 1254% | 109%  | 64%   | 34%   | 21%           | 21%    |       |       |

Source: Dataquest June 1986 A-2.35

TITLE:

CAD/CAM History and Forecast

APPLICATION:

Printed Circuit Board

REGION:

Rest of World

PRODUCT TYPE:

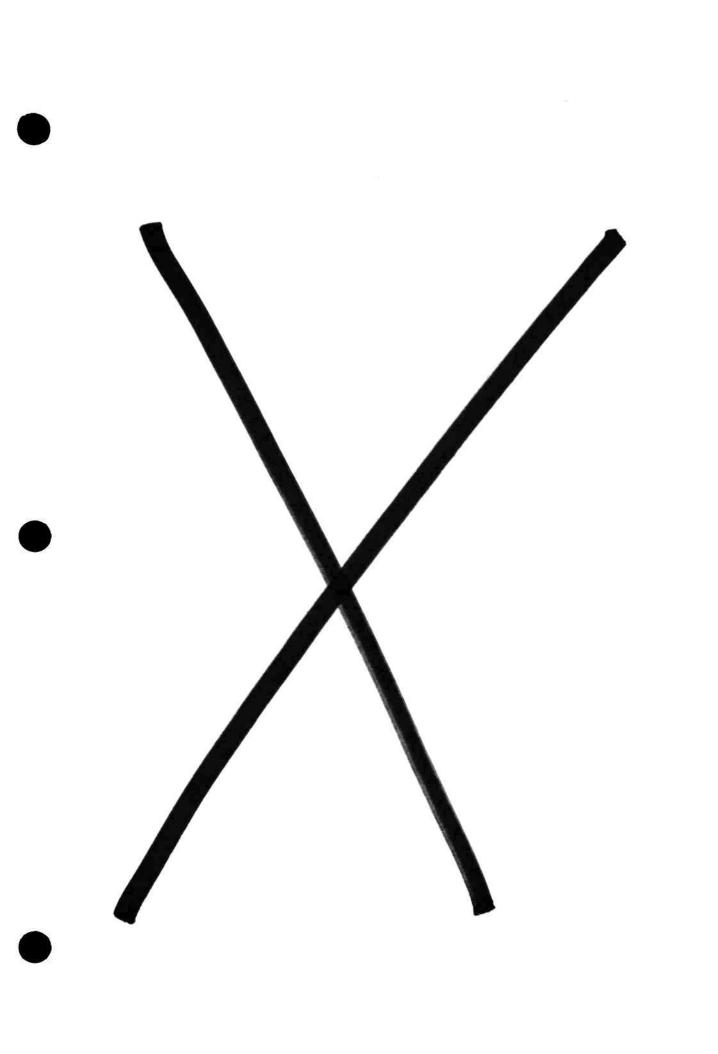
Standalone

UNITS:

Millions of Dollars and Actual Units

|                              |      |      |      |      |      |      |      |            |      |      | 81-85 | 85-90 |
|------------------------------|------|------|------|------|------|------|------|------------|------|------|-------|-------|
|                              | 1981 | 1982 | 1983 | 1984 | 1985 | 1986 | 1987 | 1988       | 1989 | 1990 | CAGR  | CAGR  |
|                              | ==== | ==== | ==== | 2025 | *=== | ==== | E==# | 2222       | ==== | ==== | ===#  | ====  |
| UNIT SHIPMENT DATA           |      |      |      |      |      |      |      |            |      |      |       |       |
| CPV Shipments                | 0    | 0    | 4    | 11   | 20   | 35   | 54   | <b>9</b> 6 | 151  | 205  | €RR   | 59%   |
| Total Workstation Shipments  | 0    | 0    | 4    | 11   | 20   | 35   | 54   | <b>9</b> 6 | 151  | 205  | ERR   | 59%   |
| New Workstation Shipments    | 0    | 0    | 4    | 11   | 20   | 35   | 54   | 96         | 151  | 205  | ERR   | 59%   |
| Add-On Workstation Shipments | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0          | 0    | 0    | ERR   | ERR   |
| CPU installed Base           | 0    | 0    | 4    | 15   | 35   | 70   | 123  | 218        | 368  | 569  | ERR   | 74%   |
| Workstation Installed Base   | 0    | 0    | 4    | 15   | 35   | 70   | 123  | 218        | 368  | 569  | ERR   | 74%   |
| REVENUE DATA                 |      |      |      |      |      |      |      |            |      |      |       |       |
| CPU Revenue                  | NA   | NA   | NA   | HA   | 0    | 1    | 1    | 1          | 1    | 1    | NA    | 31%   |
| Workstation Revenue          | NA   | NA   | NA   | NA   | 0    | 1    | 1    | 1          | 1    | 1    | NA    | 31%   |
| Software Revenue             | NA   | NA   | NA   | NA   | 1    | 1    | 1    | 2          | 3    | 3    | NA    | 40%   |
| Peripheral Revenue           | NA   | NA   | KA   | NA   | 0    | 0    | 1    | 1          | 1    | 2    | NA    | 46%   |
| Service Revenue              | 0    | 0    | 0    | 0    | 0    | 0    | 1    | 1          | 1    | 2    | ERR   | 44%   |
| Total Revenue                | 0    | 0    | 0    | 1    | 2    | 3    | 4.   | 6          | 8    | 9    | ERR   | 38%   |
| Increase over prior year     | NA   | ERR  | ERR  | ERR  | 82%  | 47%  | 36%  | 56%        | 37%  | 19%  |       |       |

Source: Dataquest



A-3.11

TITLE:

CAD/CAM History and Forecast

APPLICATION:

AEC

REGION:

Worldwide

PRODUCT TYPE:

Host-Dependent

UNITS:

Millions of Dollars and Actual Units

|                              |       |       |       |             |        |        |        |        |        |        | 81-85 | 85-90 |
|------------------------------|-------|-------|-------|-------------|--------|--------|--------|--------|--------|--------|-------|-------|
|                              | 1981  | 1982  | 1983  | 1984        | 1985   | 1986   | 1987   | 1988   | 1989   | 1990   | CAGR  | CAGR  |
|                              | #===  | REES  |       | E===        | #=##   | ====   | REZE   |        | *===   |        | 2222  | ====  |
| UNIT SHIPMENT DATA           |       |       |       |             |        |        |        |        |        |        |       |       |
| CPU Shipments                | 325   | 585   | 388   | 566         | 880    | 1,002  | 1,115  | 1,199  | 1,183  | 1,040  | 28%   | 3%    |
| Total Workstation Shipments  | 1,264 | 2,079 | 1,790 | 2,718       | 3,928  | 4,738  | 5,542  | 6,333  | 6,715  | 6,469  | 33X   | 10%   |
| New Workstation Shipments    | 1,175 | 1,927 | 1,548 | 2,265       | 3,239  | 3,912  | 4,610  | 5,258  | 5,497  | 5,123  | 29%   | 10%   |
| Add-On Workstation Shipments | 89    | 153   | 152   | 453         | 697    | 826    | 932    | 1,075  | 1,218  | 1,345  | 67%   | 14%   |
| CPU Installed Base           | 1,235 | 1,766 | 2,066 | 2,612       | 3,465  | 4,398  | 5,425  | 6,516  | 7,568  | 8,457  | 29%   | 20%   |
| Workstation Installed Base   | 3,989 | 5,884 | 7,290 | 9,789       | 13,423 | 17,758 | 22,767 | 28,418 | 34,280 | 39,720 | 35%   | 24%   |
| REVENUE DATA                 |       |       |       |             |        |        |        |        |        |        |       |       |
| CPU Revenue                  | NA    | NA    | NA    | NA          | 114    | 118    | 111    | 99     | 79     | 55     | NA    | -14%  |
| Workstation Revenue          | NA    | AK    | NA    | NA          | 161    | 178    | 176    | 170    | 154    | 129    | NA    | -4%   |
| Software Revenue             | NA    | NA    | NA    | NA          | 85     | 82     | 84     | 86     | 82     | 72     | NA    | -3%   |
| Peripheral Revenue           | NA    | NA    | NA    | NA          | 39     | 45     | 45     | 45     | 43     | 39     | NA    | 0%    |
| Service Revenue              | 21    | 31    | 42    | 57          | 72     | 79     | 84     | 90     | 98     | 106    | 36%   | 8%    |
| Total Revenue                | 144   | 201   | 241   | 334         | 470    | 501    | 500    | 491    | 457    | 401    | 34%   | -3%   |
| Increase over prior year     | NA    | 40%   | 20%   | 39 <b>x</b> | 41%    | 6%     | -0%    | -2%    | -7X    | -12%   |       |       |

Source: Dataquest

A-3.12

TITLE:

CAD/CAM History and Forecast

APPLICATION:

AEC

REGION:

North America

PRODUCT TYPE:

Host-Dependent

UNITS:

Millions of Dollars and Actual Units

|                                  |       |       |       |       |       |        | •      |        |        |        | 81-85 | 85-90 |
|----------------------------------|-------|-------|-------|-------|-------|--------|--------|--------|--------|--------|-------|-------|
|                                  | 1981  | 1982  | 1983  | 1984  | 1985  | 1986   | 1987   | 1988   | 1989   | 1990   | CAGR  | CAGR  |
|                                  | ****  | 2223  | ****  | EREE  | 2423  | 2273   | #733   | ***    | ****   | -      | ****  | ****  |
| UNIT SHIPMENT DATA               |       |       |       |       |       |        |        |        |        |        |       |       |
| CPU Shipments                    | 246   | 480   | 264   | 380   | 470   | 597    | 693    | 756    | 760    | 703    | 18%   | 8%    |
| Total Workstation Shipments      | 960   | 1,661 | 1,169 | 1,824 | 2,224 | 2,822  | 3,443  | 3,991  | 4,312  | 4,372  | 23%   | 14X   |
| <b>New Workstation Shipments</b> | 893   | 1,542 | 1,075 | 1,520 | 1,724 | 2,330  | 2,864  | 3,314  | 3,530  | 3,462  | 18%   | 15%   |
| Add-On Workstation Shipments     | 67    | 119   | 94    | 304   | 499   | 492    | 579    | 678    | 782    | 909    | 65%   | 13%   |
| CPU Installed Base               | 923   | 1,361 | 1,557 | 1,921 | 2,372 | 2,922  | 3,556  | 4,241  | 4,915  | 5,520  | 27%   | 18%   |
| Workstation Installed Base       | 3,013 | 4,533 | 5,475 | 7,135 | 9,144 | 11,692 | 14,784 | 18,332 | 22,095 | 25,803 | 35%   | 23%   |
| REVENUE DATA                     |       |       |       |       |       |        |        |        |        |        |       |       |
| CPU Revenue                      | NA    | NA    | NA    | NA    | 62    | 70     | 69     | 63     | 51     | 37     | NA    | -10%  |
| Morkstation Revenue              | KA    | NA    | NA    | KA    | 97    | 106    | 109    | 107    | 99     | 87     | NA    | -2%   |
| Software Revenue                 | NA    | NA    | NA    | NA    | 52    | 49     | 52     | 54     | 53     | 49     | ŅA    | - 1%  |
| Peripheral Revenue               | MA    | NA    | NA    | MA    | 23    | 27     | 28     | 29     | 28     | 26     | NA    | 2%    |
| Service Revenue                  | 16    | 23    | 27    | 37    | 52    | 47     | 52     | 57     | 63     | 72     | 34%   | 7%    |
| Total Revenue                    | 113   | 161   | 163   | 217   | 286   | 298    | 311    | 309    | 294    | 271    | 26%   | -1%   |
| Increase over prior year         | MA    | 42%   | 1%    | 33%   | 32X   | 4%     | 4%     | -0%    | -5%    | -8%    |       |       |

Source: Dataquest

June 1986

Host-Dependent

A-3.15

TITLE:

CAD/CAM History and Forecast

APPLICATION:

AEC

REGION: PRODUCT TYPE: Rest of World Host-Dependent

UNITS:

Millions of Dollars and Actual Units

|                              |      |       |       |       |       |       |       |       |       |       | 81-85 | 85-90 |
|------------------------------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
|                              | 1981 | 1982  | 1983  | 1984  | 1985  | 1986  | 1987  | 1988  | 1989  | 1990  | CAGR  | CAGR  |
|                              | ==== | ====  | ****  | 2223  | 2523  | z===  | ¥222  | ***   | ====  | 2222  | ====  |       |
| UNIT SHIPMENT DATA           |      |       |       |       |       |       |       |       |       |       |       |       |
| CPU Shipments                | 79   | 105   | 10    | 8     | 19    | 37    | 45    | 49    | 50    | 44    | -30%  | 18%   |
| Total Workstation Shipments  | 304  | 418   | 46    | 38    | 134   | 176   | 223   | 261   | 282   | 275   | -19%  | 15%   |
| New Workstation Shipments    | 282  | 385   | 42    | 32    | 108   | 145   | 185   | 216   | 231   | 218   | -21%  | 15%   |
| Add-On Workstation Shipments | 22   | 34    | 4     | 6     | 26    | 31    | 37    | 44    | 51    | 57    | 5%    | 17%   |
| CPU Installed Base           | 312  | 405   | 395   | 399   | 414   | 443   | 479   | 519   | 558   | 592   | 7%    | 7%    |
| Workstation Installed Base   | 976  | 1,351 | 1,330 | 1,328 | 1,422 | 1,556 | 1,732 | 1,941 | 2,165 | 2,375 | 10%   | 11%   |
| REVENUE DATA                 |      |       |       |       |       |       |       |       |       |       |       |       |
| CPU Revenue                  | NA   | AK    | NA    | NA    | 4     | 4     | 4     | 4     | 3     | 2     | NA    | -8%   |
| Workstation Revenue          | NA   | NA    | HA    | NA    | 6     | 7     | 7     | 7     | 6     | 5     | NA    | -2%   |
| Software Revenue             | NA   | AK    | NA    | NA    | 3     | 3     | 3     | 4     | 3     | 3     | NA    | 4%    |
| Peripheral Revenue           | NA   | NA    | MA    | NA    | 1     | 2     | 2     | 2     | 2     | 2     | NA    | 3%    |
| Service Revenue              | 5    | 8     | 1     | 1     | 3     | 3     | 3     | 4     | 4     | 5     | -13%  | 9%    |
| Total Revenue                | 31   | 40    | 6     | 5     | 16    | 19    | 20    | 20    | 19    | 17    | ·15%  | 1%    |
| Increase over prior year     | NA   | 29%   | -85%  | -17%  | 228%  | 13%   | 8%    | 0%    | -5%   | -11%  |       |       |

Source: Dataquest

# A.3 All Host-Dependent Products

| TABLE M | MRFP. |
|---------|-------|

A-3.16

TITLE:

CAD/CAM History and Forecast

APPLICATION:

Mapping

REGION:

Worldwide Host-Dependent

PRODUCT TYPE:

Millions of Dollars and Actual Units

|                              |       |       |       |             |       |       |        |        |         |        | 81-85 | 85-90       |
|------------------------------|-------|-------|-------|-------------|-------|-------|--------|--------|---------|--------|-------|-------------|
|                              | 1981  | 1982  | 1983  | 1984        | 1985  | 1986  | 1987   | 1988   | 1989    | 1990   | CAGR  | CAGR        |
|                              | z===  | ****  | ****  | ***         | EFFS  | 2222  | EHET   | 2222   | 2222    | 2222   | ****  | 2222        |
| UNIT SHIPMENT DATA           |       |       |       |             |       |       |        |        |         |        |       |             |
| CPU Shipments                | 167   | 245   | 102   | 225         | 256   | 328   | 442    | 569    | 691     | 771    | 11%   | 25%         |
| Total Workstation Shipments  | 613   | 912   | 790   | 1,080       | 1,577 | 2,041 | 2,880  | 3,910  | 5,033   | 6,006  | 27%   | 31%         |
| New Workstation Shipments    | 556   | 830   | 730   | 900         | 1,333 | 1,811 | 2,584  | 3,527  | 4,537   | 5,368  | 24%   | 32%         |
| Add-On Workstation Shipments | 57    | 82    | 60    | 179         | 300   | 230   | 296    | 383    | 496     | 637    | 51X   | 16%         |
| CPU Installed Base           | 453   | 674   | 960   | 1,176       | 1,408 | 1,709 | 2,116  | 2,643  | 3,281   | 3,987  | 33%   | 23%         |
| Workstation Installed Base   | 1,682 | 2,511 | 4,085 | 5,042       | 6,468 | 8,315 | 10,946 | 14,527 | 19, 125 | 24,557 | 40%   | 31%         |
| REVENUE DATA                 |       |       |       |             |       |       |        |        |         |        |       |             |
| CPU Revenue                  | MA    | MA    | NA    | NA          | 48    | 58    | 65     | 69     | 68      | 60     | AK    | 5 <b>X</b>  |
| Workstation Revenue          | NA    | NA    | NA    | NA          | 70    | 82    | 96     | 109    | 118     | 119    | KA    | 11%         |
| Software Revenue             | NA    | NA    | MA    | MA          | 45    | 59    | 73     | 89     | 107     | 123    | NA    | 22 <b>X</b> |
| Peripheral Revenue           | NA    | NA    | MA    | MA          | 16    | 18    | 22     | 26     | 29      | 32     | MA    | 14%         |
| Service Revenue              | 10    | 16    | 21    | 24          | 35    | 44    | 55     | 69     | 89      | 116    | 37%   | 27%         |
| Total Revenue                | 73    | 109   | 91    | 150         | 215   | 260   | 311    | 362    | 411     | 451    | 31%   | 16%         |
| Increase over prior year     | MA    | 49%   | -17%  | 65 <b>%</b> | 43X   | 21%   | 20%    | 16%    | 14%     | 10%    |       |             |

Source: Dataquest June 1986

A-3.13

TITLE:

CAD/CAM History and Forecast

APPLICATION:

AEC

REGION:

Europe

PRODUCT TYPE:

Host-Dependent

UNITS:

Millions of Dollars and Actual Units

|                              |      |      |      |      |       |       |       |       |       |       | 81-85 | 85-90       |
|------------------------------|------|------|------|------|-------|-------|-------|-------|-------|-------|-------|-------------|
|                              | 1981 | 1982 | 1983 | 1984 | 1985  | 1986  | 1987  | 1988  | 1989  | 1990  | CAGR  | CAGR        |
|                              | x==2 | ==== | 2225 | 2222 | REER  | ====  |       | ====  | ****  | E222  | 2222  | 2222        |
| LÍNIT SHIPMENT DATA          |      |      |      |      |       |       |       |       |       |       |       |             |
| CPU Shipments                | 0    | 0    | 78   | 103  | 161   | 190   | 227   | 251   | 238   | 179   | ERR   | 2%          |
| Total Workstation Shipments  | 0    | 0    | 348  | 497  | 749   | 899   | 1,127 | 1,325 | 1,350 | 1,113 | ERR   | 8%          |
| New Workstation Shipments    | 0    | 0    | 307  | 414  | 625   | 742   | 938   | 1,100 | 1,105 | 881   | ERR   | 7%          |
| Add-On Workstation Shipments | 0    | 0    | 41   | 83   | 132   | 157   | 190   | 225   | 245   | 231   | ERR   | 12%         |
| CPU Installed Base           | 0    | 0    | 78   | 181  | 340   | 524   | 740   | 976   | 1,194 | 1,349 | ERR   | 32 <b>%</b> |
| Workstation Installed Base   | 0    | 0    | 348  | 834  | 1,558 | 2,411 | 3,466 | 4,686 | 5,895 | 6,831 | ERR   | 34%         |
| REVENUE DATA                 |      |      |      |      |       |       |       |       |       |       |       |             |
| CPU Revenue                  | NA   | NA   | NA   | NA   | 18    | 22    | 23    | 21    | 16    | 9     | NA    | -12%        |
| Workstation Revenue          | NA   | NA   | NA   | MA   | 30    | 34    | 36    | 36    | 31    | 22    | NA    | -6%         |
| Software Revenue             | NA   | NA   | NA   | NA   | 17    | 16    | 17    | 18    | 17    | 12    | NA    | -6%         |
| Peripheral Revenue           | NA   | NA   | NA   | WA   | 6     | 8     | 9     | 9     | 9     | 7     | NA    | 2%          |
| Service Revenue              | Ð    | 0    | 11   | 11   | 14    | 15    | 17    | 19    | 20    | 18    | ERR   | 6X          |
| Total Revenue                | 0    | 0    | 52   | 65   | 85    | 95    | 102   | 103   | 92    | 69    | ERR   | -4%         |
| Increase over prior year     | NA   | ERR  | ERR  | 25%  | 30%   | 12%   | 7%    | 1%    | - 10% | -25%  |       |             |

Source: Dataquest

June 1986

All Host-Dependent Products

# A.3 All Host-Dependent Products

TABLE NUMBER: A-3.14

TITLE: CAD/CAN History and Forecast

APPLICATION: AEC
REGION: Fer East

PRODUCT TYPE: Host-Dependent

UNITS: Millions of Dollars and Actual Units

|                              |      |      |      |              |       |       |       |       |       |       | 81-85 | 85-90 |
|------------------------------|------|------|------|--------------|-------|-------|-------|-------|-------|-------|-------|-------|
|                              | 1981 | 1982 | 1983 | 1984         | 1985  | 1986  | 1987  | 1988  | 1989  | 1990  | CAGR  | CAGR  |
|                              | ESSE | E322 | **** | ****         | 2222  | ***   | ***   |       | ****  | ##### | ***   | ***   |
| UNIT SHIPMENT DATA           |      |      |      |              |       |       |       |       |       |       |       |       |
| CPU Shipments                | 0    | 0    | 36   | 75           | 229   | 178   | 150   | 143   | 136   | 114   | ERR   | -13%  |
| Total Workstation Shipments  | 0    | 0    | 137  | 359          | 821   | 841   | 748   | 757   | 770   | 709   | ERR   | -3%   |
| New Workstation Shipments    | 0    | 0    | 124  | 299          | 782   | 694   | 622   | 628   | 630   | 562   | ERR   | .6%   |
| Add-On Workstation Shipments | 0    | 0    | 13   | 60           | 40    | 147   | 126   | 129   | 140   | 148   | ERR   | 30%   |
| CPU Installed Base           | 0    | 0    | 36   | 110          | 339   | 510   | 650   | 780   | 900   | 996   | ERR   | 24%   |
| Workstation Installed Base   | 0    | 0    | 137  | 492          | 1,298 | 2,100 | 2,786 | 3,459 | 4,125 | 4,711 | ERR   | 29%   |
| REVENUE DATA                 |      |      |      |              |       |       |       |       |       |       |       |       |
| CPU Revenue                  | HA   | NA   | AK   | NA           | 31    | 21    | 15    | 12    | 9     | 6     | NA    | -28%  |
| Workstation Revenue          | NA   | NA   | NA   | MA           | 27    | 32    | 24    | 20    | 18    | 14    | MA    | -12%  |
| Software Revenue             | AA   | NA   | NA   | AK           | 14    | 15    | 11    | 10    | 9     | 8     | KA    | -11%  |
| Peripheral Revenue           | NA   | MA   | NA   | NA           | 8     | 8     | 6     | 5     | 5     | 4     | NA    | - 12% |
| Service Revenue              | 0    | 0    | 3    | 8            | 4     | 14    | 11    | 11    | 11    | 12    | ERR   | 26%   |
| Total Revenue                | 0    | 0    | 20   | 47           | 83    | 89    | 68    | 59    | 52    | 44    | ERR   | -12%  |
| Increase over prior year     | NA   | ERR  | ERR  | 135 <b>%</b> | 78%   | 7%    | -24%  | · 13% | -11%  | -16%  |       |       |

Source: Dataquest

A-3.17

TITLE:

CAD/CAM History and Forecast

APPLICATION:

Mapping

REGION:

North America

PRODUCT TYPE:

Host-Dependent

UNITS:

Millions of Dollars and Actual Units

|                              |       |       |       |       |       |       |       |       |        |                | 81-85 | 85-90       |
|------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|--------|----------------|-------|-------------|
|                              | 1981  | 1982  | 1983  | 1984  | 1985  | 1986  | 1987  | 1988  | 1989   | 1990           | CAGR  | CAGR        |
|                              | E223  | ====  | 2523  | ***   | ====  | 3322  | 2223  | ====  | ====   | 2222           | 2002  | ====        |
| UNIT SHIPMENT DATA.          |       |       |       |       |       |       |       |       |        |                |       |             |
| CPU Shipments                | 136   | 207   | 74    | 163   | 146   | 220   | 303   | 407   | 513    | 589            | 2%    | 32X         |
| Total Workstation Shipments  | 486   | 756   | 622   | 784   | 1,081 | 1,369 | 1,972 | 2,798 | 3,740  | 4,588          | 22%   | 34%         |
| New Workstation Shipments    | 438   | 688   | 584   | 654   | 851   | 1,215 | 1,770 | 2,524 | 3,372  | 4,101          | 18%   | 37%         |
| Add-On Workstation Shipments | 48    | 68    | 38    | 130   | 229   | 154   | 203   | 274   | 368    | 487            | 48%   | 16%         |
| CPU Installed Base           | 351   | 540   | 587   | 745   | 876   | 1,079 | 1,360 | 1,740 | 2,219  | 2,763          | 26%   | 26%         |
| Workstation Installed Base   | 1,286 | 1,979 | 2,503 | 3,212 | 4,196 | 5,439 | 7,248 | 9,829 | 13,274 | 17,464         | 34%   | 33%         |
| REVENUE DATA                 |       |       |       |       |       |       |       |       |        |                |       |             |
| CPU Revenue                  | HA    | NA    | KA    | NA    | 30    | 39    | 45    | 50    | 51     | 46             | ,NA   | 9%          |
| Workstation Revenue          | NA    | MA    | NA    | NA    | 46    | 55    | 66    | 78    | 88     | <del>9</del> 1 | NA    | 15%         |
| Software Revenue             | NA    | NA    | NA    | NA    | 29    | 40    | 50    | 64    | 79     | 94             | NA    | 26 <b>%</b> |
| Peripheral Revenue           | NA    | NA.   | NA    | NA    | 11    | 12    | 15    | 19    | 22     | 24             | NA    | 17%         |
| Service Revenue              | 8     | 13    | 15    | 17    | 25    | 29    | 38    | 49    | 66     | 89             | 33%   | 29%         |
| Total Revenue                | 56    | 87    | 62    | 106   | 142   | 174   | 213   | 259   | 306    | 345            | 26%   | 19%         |
| Increase over prior year     | NA    | 55%   | -29%  | 71%   | 34%   | 23%   | 22%   | 22%   | 18%    | 13%            |       |             |

Source: Dataquest June 1986

### A.3 All Host-Dependent

**Products** 

TABLE NUMBER:

A-3.18

TITLE:

CAD/CAM History and Forecast

APPLICATION:

Mapping

REGION:
PRODUCT TYPE:

Europe

UNITS:

Host-Dependent Millions of Dollars and Actual Units

|                              |      |      |      |       |       |       |       |       |       |       | 81-85 | 85-90       |
|------------------------------|------|------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------------|
|                              | 1981 | 1982 | 1983 | 1984  | 1985  | 1986  | 1987  | 1988  | 1989  | 1990  | CAGR  | CAGR        |
| •                            | z=== | **** |      | 2723  | 2222  | £222  | 2223  | 2222  | E222  | 2222  | 2211  | ====        |
| UNIT SHIPMENT DATA           |      |      |      |       |       |       |       |       |       |       |       |             |
| CPU Shipments                | 0    | 0    | 9    | 35    | 67    | 63    | 88    | 113   | 130   | 134   | ERR   | 15%         |
| Total Workstation Shipments  | 0    | 0    | 75   | 168   | 256   | 393   | 575   | 775   | 945   | 1,044 | ERR   | 32 <b>%</b> |
| New Workstation Shipments    | 0    | 0    | 64   | 140   | 275   | 349   | 516   | 699   | 852   | 933   | ERR   | 28%         |
| Add-On Workstation Shipments | 0    | 0    | 11   | 28    | 38    | 44    | 59    | 76    | 93    | 111   | ERR   | 24%         |
| CPU Installed Base           | 0    | 0    | 227  | 260   | 321   | 378   | 459   | 563   | 681   | 801   | ERR   | 20%         |
| Workstation Installed Base   | 0    | 0    | 984  | 1,123 | 1,345 | 1,698 | 2,223 | 2,930 | 3,788 | 4,718 | ERR   | 29%         |
| REVENUE DATA                 |      |      |      |       |       |       |       |       |       |       |       |             |
| CPU Revenue                  | NA   | NA   | MA   | NA    | 9     | 11    | 13    | 14    | 13    | 10    | NA    | 2%          |
| Workstation Revenue          | NA   | MA   | MA   | NA    | 15    | 16    | 19    | 22    | 22    | 21    | NA    | 7%          |
| Software Revenue             | HA   | NA   | NA   | NA    | 11    | 11    | 15    | 18    | 20    | 21    | HA    | 13%         |
| Peripheral Revenue           | NA   | MA   | WA   | NA    | 3     | 4     | 4     | 5     | 6     | 6     | MA    | 16X         |
| Service Revenue              | 0    | 0    | 5    | 4     | 7     | 8     | 11    | 14    | 17    | 20    | ERR   | 22%         |
| Total Revenue                | 0    | 0    | 16   | 25    | 45    | 50    | 62    | 72    | 77    | 78    | ERR   | 12%         |
| Increase over prior year     | NA   | ERR  | ERR  | 56X   | 82%   | 10%   | 24%   | 15%   | 8%    | 1%    |       |             |

Source: Dataquest

A-3.19

TITLE:

CAD/CAM History and Forecast

APPLICATION:

Mapping

REGION:

Far East

PRODUCT TYPE:

Host-Dependent

UNITS:

Millions of Dollars and Actual Units

|                                     |      |      |      |      |             |      |      |             |      |      | 81-85 | 85-90 |
|-------------------------------------|------|------|------|------|-------------|------|------|-------------|------|------|-------|-------|
|                                     | 1981 | 1982 | 1983 | 1984 | 1985        | 1986 | 1987 | 1988        | 1989 | 1990 | CAGR  | CAGR  |
|                                     | ==== | 222  | *=== | -    | <b>1111</b> | **** |      | 2222        | 2222 | ***  | E===  | ====  |
| UNIT SHIPMENT DATA                  |      |      |      |      |             |      |      |             |      |      |       |       |
| CPU Shipments                       | 0    | 0    | 15   | 22   | 33          | 30   | 30   | 22          | 14   | 7    | ERR   | -26%  |
| Total Workst <b>ation Shipments</b> | 0    | 0    | 73   | 108  | 157         | 185  | 198  | 150         | 102  | 56   | ERR   | -19%  |
| New Workstation Shipments           | 0    | 0    | 64   | 90   | 140         | 164  | 177  | 135         | 92   | 50   | ERR   | - 19% |
| Add-On Workstation Shipments        | 0    | 0    | 9    | 18   | 17          | 21   | 20   | 15          | 10   | 6    | ERR   | -19%  |
| CPU Installed Base                  | 0    | 0    | 15   | 37   | 69          | 98   | 126  | 145         | 156  | 161  | ERR   | 18%   |
| Workstation Installed Base          | 0    | 0    | 73   | 178  | 330         | 505  | 688  | 817         | 895  | 924  | ERR   | 23%   |
| REVENUE DATA                        |      |      |      |      |             |      |      |             |      |      |       |       |
| CPU Revenue                         | WA   | NA   | HA   | NA   | 7           | 5    | 4    | 3           | 1    | 1    | МА    | -39%  |
| Workstation Revenue                 | MA   | MA   | NA   | NA   | 5           | 7    | 7    | 4           | 2    | 1    | MA    | -27X  |
| Software Revenue                    | KA   | NA   | NA   | NA   | 3           | 5    | 5    | 3           | 2    | 1    | MA    | -16%  |
| Peripheral Revenue                  | WA   | AK   | NA   | NA   | 2           | 2    | 2    | 1           | 1    | 0    | NA    | -30%  |
| Service Revenue                     | 0    | 0    | 1    | 3    | 1           | 4    | 4    | 3           | 2    | 1    | ERR   | -2%   |
| Total Revenue                       | 0    | 0    | 10   | 16   | 18          | 24   | 21   | 14          | 8    | 4    | ERR   | -25%  |
| Increase over priop year            | NA   | ERR  | ERR  | 60%  | 13%         | 31%  | -9%  | 35 <b>x</b> | -40% | -50% |       |       |

Source: Dataquest

# A.3 All Host-Dependent Products

TABLE NUMBER:

A-3.20

TITLE:

CAD/CAN History and Forecast

APPLICATION:

Mapping

REGION:

Rest of World

PRODUCT TYPE:

Host-Dependent

UNITS:

Millions of Dollars and Actual Units

|                              |      |      |      |      |      |      |      |      |       |       | 81-85 | 85-90 |
|------------------------------|------|------|------|------|------|------|------|------|-------|-------|-------|-------|
|                              | 1981 | 1982 | 1983 | 1984 | 1985 | 1986 | 1987 | 1988 | 1989  | 1990  | CAGR  | CAGR  |
|                              | **** | ==== | tttn | **** | 2232 | **** | #=== | 222  | *===  | ====  | ====  |       |
| UNIT SHIPMENT DATA           |      |      |      |      |      |      |      |      |       |       |       |       |
| CPU Shipments                | 31   | 38   | 4    | 4    | 10   | 15   | 21   | 27   | 34    | 41    | -24%  | 31%   |
| Total Workstation Shipments  | 127  | 156  | 20   | 20   | 83   | 94   | 135  | 187  | 245   | 317   | - 10% | 31%   |
| New Workstation Shipments    | 118  | 142  | 18   | 17   | 67   | 84   | 121  | 169  | 221   | 284   | -13%  | 34%   |
| Add-On Workstation Shipments | 9    | 14   | 2    | 3    | 16   | 11   | 14   | 18   | 24    | 34    | 16%   | 16%   |
| CPU Installed Base           | 102  | 134  | 131  | 134  | 142  | 154  | 172  | 196  | 225   | 262   | 9%    | 13X   |
| Workstation Installed Base   | 396  | 532  | 525  | 529  | 596  | 673  | 788  | 951  | 1,168 | 1,450 | 11%   | 19%   |
| REVENUE DATA                 |      |      |      |      |      |      |      |      |       |       |       |       |
| CPU Revenue                  | MA   | NA   | NA   | NA   | 2    | 3    | 3    | 3    | 3     | 3     | NA    | 9%    |
| Workstation Revenue          | AK   | NA   | NA   | WA   | 4    | 4    | 5    | 5    | 6     | 6     | NA    | 12%   |
| Software Revenue             | NA.  | WA   | NA   | NA   | 1    | 3    | 3    | 4    | 5     | 7     | NA    | 34%   |
| Peripheral Revenue           | NA   | NA   | NA.  | NA   | 1    | 1    | 1    | 1    | 1     | 2     | MA    | 14%   |
| Sarvice Revenue              | 2    | 3    | 0    | 0    | 2    | 2    | 3    | 3    | 4     | 6     | -3%   | 29%   |
| Total Revenue                | 17   | 22   | 3    | 3    | 10   | 12   | 15   | 17   | 20    | 24    | · 13% | . 19% |
| Increase over prior year     | HA   | 29%  | -86% | OX.  | 228% | 22%  | 21%  | 19%  | 16%   | 19%   |       |       |

Source: Dataquest

A-3.21

TITLE:

CAD/CAN History and Forecast

APPLICATION:

**Electronic Design Automation** 

REGION:

Worldwide

PRODUCT TYPE:

Host-Dependent

UNITS:

Millions of Dollars and Actual Units

|                              |      |       |      |              |      |      |      |      |       |      | 81-85 | 85-90 |
|------------------------------|------|-------|------|--------------|------|------|------|------|-------|------|-------|-------|
|                              | 1981 | 1982  | 1983 | 1984         | 1985 | 1986 | 1987 | 1988 | 1989  | 1990 | CAGR  | CAGR  |
|                              | ***  | 2522  | 2222 | ### <b>#</b> |      | 2=== | **** |      | ====  | 2222 | *===  | ***   |
| UNIT SHIPMENT DATA           |      |       |      |              |      |      |      |      |       |      |       |       |
| CPU Shipments                | 3    | 277   | 1    | 18           | 83   | 61   | 58   | 55   | 44    | 26   | 129%  | -21%  |
| Total Workstation Shipments  | 3    | 277   | 10   | 3            | 114  | 90   | 90   | 90   | 77    | 48   | 149%  | - 16% |
| New Workstation Shipments    | 3    | 277   | 10   | 0            | 114  | 90   | 90   | 90   | 77    | 48   | 148%  | - 16% |
| Add-On Workstation Shipments | 0    | 0     | 0    | 3            | 0    | 0    | 0    | 0    | 0     | 0    | ERR   | -31%  |
| CPU Installed Base           | 3    | 305   | 232  | 247          | 328  | 386  | 440  | 491  | 530   | 551  | 223%  | 11%   |
| Workstation Installed Base   | 3    | 305   | 241  | 238          | 346  | 425  | 502  | 578  | 637   | 666  | 228%  | 14%   |
| REVENUE DATA                 |      |       |      |              |      |      |      |      |       |      |       |       |
| CPU Revenue                  | NA   | NA    | NA   | AK           | 7    | 5    | 4    | 3    | 1     | 0    | NA    | -44%  |
| Workstation Revenue          | AH   | NA    | NA   | NA           | 6    | 5    | 4    | 3    | 2     | 1    | NA    | -29%  |
| Software Revenue             | NA   | NA    | NA   | KA           | 24   | 19   | 17   | 17   | 16    | 15   | NA    | -10%  |
| Peripheral Revenue           | NA   | NA    | NA   | NA           | 26   | 15   | 13   | 11   | 9     | 5    | NA    | -28%  |
| Service Revenue              | 0    | 2     | 0    | 1            | 7    | 5    | 5    | 5    | 5     | 5    | ERR   | -8%   |
| Total Revenue                | 0    | 21    | 1    | 10           | 71   | 49   | 43   | 39   | 33    | 26   | 265%  | -18%  |
| Incresse over prior year     | NA   | 5150% | -95% | 906%         | 606% | -31% | -12% | -9%  | - 15% | -22% |       |       |

Source: Dataquest

### Host-Dependent **Products**

TABLE NUMBER:

A-3.22

TITLE:

APPLICATION:

CAD/CAM History and Forecast

Electronic Design Automation

REGION: PRODUCT TYPE: North America

UNITS:

Host-Dependent Millions of Dollars and Actual Units

|                              |      |       |      |      |      | •    |      |      |              |       | 81-85 | 85-90 |
|------------------------------|------|-------|------|------|------|------|------|------|--------------|-------|-------|-------|
|                              | 1981 | 1982  | 1983 | 1984 | 1985 | 1986 | 1987 | 1988 | 1989         | 1990  | CAGR  | CAGR  |
|                              |      | 要な事業  | ***  | 2532 | **** | **** | 2622 | 2222 | <b>=</b> === | EE25  | ***   | X222  |
| URIT SHIPMENT DATA           |      |       |      |      |      |      |      |      |              |       |       |       |
| CPU Shipments                | 3    | 240   | 1    | 9    | 45   | 48   | 44   | 40   | 34           | 22    | 97X   | -13%  |
| Total Workstation Shipments  | 3    | 240   | 10   | 1    | 40   | 71   | 68   | 66   | 59           | 41    | 91%   | 1%    |
| New Workstation Shipments    | 3    | 240   | 10   | 0    | 40   | 70   | 68   | 66   | 59           | 41    | 91%   | 1%    |
| Add-On Workstation Shipments | 0    | 0     | 0    | 1    | 0    | 0    | 0    | 0    | 0            | 0     | ERR   | ERR   |
| CPU Installed Base           | 3    | 243   | 232  | 239  | 282  | 327  | 368  | 405  | 435          | 453   | 211%  | 10%   |
| Workstation Installed Base   | 3    | 243   | 241  | 237  | 270  | 332  | 390  | 445  | 491          | 517   | 208%  | 14%   |
| REVENUE DATA                 |      |       |      |      |      |      |      |      |              |       |       |       |
| CPU Revenue                  | NA   | MA    | AK   | NA   | 2    | 4    | 3    | 2    | 1            | 0     | NA    | -29%  |
| Workstation Revenue          | NA   | NA    | NA   | NA   | 2    | 4    | 3    | 2    | 2            | 1     | NA    | -11%  |
| Software Revenue             | NA   | NA    | NA   | NA   | 16   | 15   | 13   | 13   | 12           | 12    | NA    | -5%   |
| Peripheral Revenue           | MA   | MA    | NA   | NA   | 23   | 12   | 10   | 8    | 7            | 4     | NA    | -28%  |
| Service Revenue              | 0    | 2     | 0    | 1    | 5    | 4    | 4    | 3    | 4            | 4     | ERR   | -5%   |
| Total Revenue                | 0    | 19    | 1    | 5    | 48   | 38   | 32   | 29   | 26           | 22    | 230%  | - 14% |
| Increase over prior year     | NA   | 4650X | -95% | 398% | 857X | -20% | -16% | -11% | -10%         | - 13% |       |       |

Source: Dataquest

A-3.23

TITLE:

CAD/CAM History and Forecast Electronic Design Automation

APPLICATION: REGION:

Europe

PRODUCT TYPE:

Host-Dependent

UNITS:

Millions of Dollars and Actual Units

|                              |      |      |      |      |       |      |      |      |      |      | 81-85 | <b>85-9</b> 0 |
|------------------------------|------|------|------|------|-------|------|------|------|------|------|-------|---------------|
|                              | 1981 | 1982 | 1983 | 1984 | 1985  | 1986 | 1987 | 1988 | 1989 | 1990 | CAGR  | CAGR          |
|                              | 3222 |      | 2222 | ==== | ====  | ***  | 2522 | E=== | ==== | E=== | ****  | ####          |
| UNIT SHIPMENT DATA           |      |      |      |      |       |      |      |      |      |      |       |               |
| CPU Shipments                | 0    | 0    | 0    | 2    | 21    | 10   | 10   | 11   | 8    | 3    | ERR   | -33%          |
| Total Workstation Shipments  | 0    | 0    | 0    | 0    | 19    | 14   | 16   | 18   | 13   | 5    | ERR   | ·23X          |
| New Workstation Shipments    | Ö    | 0    | 0    | 0    | 19    | 14   | 16   | 18   | 13   | 5    | ERR   | -23%          |
| Add-On Workstation Shipments | 0    | 0    | 0    | 0    | 0     | 0    | 0    | 0    | 0    | 0    | ERR   | - 100%        |
| CPU Installed Base           | 0    | 0    | 0    | 2    | 22    | 32   | 42   | 52   | 59   | 61   | ERR   | 22%           |
| Workstation Installed Base   | 0    | 0    | 0    | 0    | 19    | 33   | 48   | 64   | 75   | 78   | ERR   | 32%           |
| REVENUE DATA                 |      |      |      |      |       |      |      |      |      |      |       |               |
| CPU Revenue                  | NA   | NA   | NA   | NA   | 2     | 1    | 1    | 0    | 0    | 0    | NA    | -53 <b>%</b>  |
| Workstation Revenue          | NA   | NA   | NA   | NA   | 2     | 1    | 1    | 1    | 0    | 0    | NA    | -45%          |
| Software Revenue             | NA   | NA   | NA   | NA   | 6     | 3    | 3    | 3    | 3    | 2    | NA    | -24%          |
| Peripheral Revenue           | NA   | NA   | NA   | NA   | 2     | 2    | 2    | 2    | 1    | 1    | NA    | -21%          |
| Service Revenue              | 0    | 0    | 0    | 0    | 2     | 1    | 1    | 1    | 1    | 0    | ERR   | -21%          |
| Total Revenue                | 0    | 0    | 0    | 1    | 14    | 8    | 8    | 8    | 6    | 3    | ERR   | -28%          |
| Increase over priör year     | NA   | ERR  | ERR  | ERR  | 1254% | -44% | 1%   | -2%  | -24% | -52% |       |               |

Source: Dataquest

A-3.24

TITLE: APPLICATION:

CAD/CAM History and Forecast Electronic Design Automation

REGION:

Far East

PRODUCT TYPE:

Host-Dependent

UNITS:

Millions of Dollars and Actual Units

|                              |      |      |      |      |      |      |      |      |             |            | 81-85 | 65-90 |
|------------------------------|------|------|------|------|------|------|------|------|-------------|------------|-------|-------|
|                              | 1981 | 1982 | 1983 | 1984 | 1985 | 1986 | 1987 | 1988 | 1989        | 1990       | CAGR  | CAGR  |
|                              | E222 | ***  | EEC  | **** | 非常基本 | R822 | **** | 24×  | <b>非常主张</b> | <b>E22</b> | ***   | ***   |
| UNIT SHIPMENT DATA           |      |      |      |      |      |      |      |      |             |            |       |       |
| CPU Shipments                | 0    | 0    | 0    | 7    | 17   | 3    | 3    | 3    | 2           | 1          | ERR   | -45%  |
| Total Workstation Shipments  | Ò    | 0    | 0    | 1    | 54   | 4    | 5    | 5    | 3           | 2          | ERR   | -51%  |
| New Workstation Shipments    | 0    | 0    | 0    | 0    | 54   | 4    | 5    | 5    | 3           | 2          | ERR   | -51%  |
| Add-On Workstation Shipments | 0    | 0    | 0    | 1    | 0    | 0    | 0    | 0    | 0           | 0          | ERR   | ERR   |
| CPU installed Base           | 0    | 0    | Ô    | 7    | 23   | 26   | 29   | 32   | 34          | 34         | ERR   | 8%    |
| Workstation Installed Base   | 0    | 0    | 0    | 1    | 55   | 58   | 61   | 65   | 66          | 66         | ERR   | 4%    |
| REVENUE DAYA                 |      |      |      |      |      |      |      |      |             |            |       |       |
| CPU Revenue                  | NA.  | NA   | NA   | NA   | 3    | 0    | 0    | 0    | 0           | 0          | - NA  | -69%  |
| Workstation Revenue          | HA   | NA   | NA   | NA   | 2    | 0    | 0    | 0    | 0           | 0          | WA    | -55%  |
| Software Revenue             | MA   | NA   | NA   | NA   | 2    | 1    | 1    | 1    | 1           | 0          | NA    | -26X  |
| Peripheral Revenue           | NA   | NA   | NA   | NA   | 1    | 1    | 1    | 1    | 0           | 0          | MA    | ·35%  |
| Service Revenue              | 0    | 0    | 0    | 1    | 0    | 0    | 0    | 0    | 0           | 0          | ERR   | 1%    |
| Total Revenue                | Û    | 0    | 0    | 4    | 9    | 2    | 2    | 2    | 1           | 1          | ERR   | -38%  |
| Increase over prior year     | NA   | ERR  | ERR  | ERR  | 134% | ·75% | 1%   | -1%  | -40%        | -40%       |       |       |

Source: Dataquest

June 1986

All Host-Dependent

A-3.25

TITLE:

CAD/CAM History and Forecast

APPLICATION:

Electronic Design Automation

REGION:

Rest of World

PRODUCT TYPE:

Host-Dependent

UNITS:

Millions of Dollars and Actual Units

|                              |      |      |       |      |      |      |      |      |       |      | 81-85 | 85-90 |
|------------------------------|------|------|-------|------|------|------|------|------|-------|------|-------|-------|
|                              | 1981 | 1982 | 1983  | 1984 | 1985 | 1986 | 1987 | 1988 | 1989  | 1990 | CAGR  | CAGR  |
|                              | 222  | ##== | ====  | 2222 | ***  | #### |      | EE22 |       | ***  |       | 2022  |
| UNIT SHIPMENT DATA           |      |      |       |      |      |      |      |      |       |      |       |       |
| CPU \$hipments               | 0    | 37   | 0     | 0    | 0    | 1    | 1    | 1    | 0     | 0    | ERR   | - 15% |
| Total Workstation Shipments  | 0    | 37   | 0     | 0    | 2    | 1    | 1    | 1    | 1     | 0    | ERR   | -24%  |
| New Workstation Shipments    | 0    | 37   | 0     | 0    | 2    | 1    | 1    | 1    | 1     | 0    | ERR   | -24%  |
| Add-On Workstation Shipments | 0    | 0    | 0     | 0    | 0    | 0    | 0    | 0    | 0     | 0    | ERR   | ERR   |
| CPU installed Base           | 0    | 62   | 0     | 0    | 1    | 1    | 2    | 2    | 3     | 3    | ERR   | 37%   |
| Workstation Installed Base   | 0    | 62   | 0     | 0    | 2    | 2    | 3    | 4    | 5     | 5    | ERR   | 26%   |
| REVENUE DATA                 |      |      |       |      |      |      |      |      |       |      |       |       |
| CPU Revenue                  | NA   | NA   | NA    | NA   | 0    | 0    | 0    | 0    | 0     | 0    | NA    | -100% |
| Workstation Revenue          | NA   | NA   | NA    | MA   | 0    | 0    | 0    | 0    | 0     | 0    | NA    | -32%  |
| Software Revenue             | NA   | NA   | NA    | NA   | 0    | 0    | 0    | 0    | 0     | 0    | NA    | 9%    |
| Peripheral Revenue           | NA   | NA   | NA    | NA   | 0    | 0    | 0    | 0    | 0     | 0    | NA    | -31%  |
| Service Revenue              | 0    | 0    | 0     | 0    | 0    | 0    | 0    | 0    | 0     | 0    | ERR   | -8%   |
| Total Revenue                | 0    | 2    | 0     | 0    | 1    | 0    | 0    | . 0  | 0     | 0    | ERR   | -17X  |
| Increase over prior year     | HA   | ERR  | -100% | ERR  | 410% | -8%  | -4%  | . 7X | - 19% | -41% |       |       |

Source: Dataquest

June 1986

**Host-Dependent Products** 

### A.3 All Host-Dependent

**Products** 

TABLE NUMBER:

A-3.26

TITLE:

CAD/CAM History and Forecast

APPLICATION:

Integrated Circuit

REGION:

Worldwide

PRODUCT TYPE:

Host-Dependent

UNITS:

Millions of Dollars and Actual Units

|                              |       |              |       |           |       |             |       |       |       |       | 81-85 | 85-90 |  |
|------------------------------|-------|--------------|-------|-----------|-------|-------------|-------|-------|-------|-------|-------|-------|--|
| -                            | 1981  | 1982         | 1983  | 1984      | 1985  | 1986        | 1987  | 1988  | 1989  | 1990  | CAGR  | CAGR  |  |
|                              | ====  | ### <b>#</b> | 至多年本  | 2322      | ****  | <b>東京</b> 主 | 2623  | 2223  |       |       | ***   | ****  |  |
| UNIT SHIPMENT DATA           |       |              |       |           |       |             |       |       |       |       |       |       |  |
| CPU Shipments                | 158   | 176          | 175   | 221       | 174   | 200         | 143   | 93    | 54    | 25    | 2%    | -32%  |  |
| Total Workstation Shipments  | 660   | 679          | 609   | 794       | 397   | 396         | 302   | 208   | 131   | 67    | - 12X | -30%  |  |
| New Workstation Shipments    | 619   | 636          | 502   | 662       | 313   | 381         | 290   | 199   | 123   | 61    | - 16% | -28%  |  |
| Add-On Morkstation Shipments | 41    | 43           | 106   | 132       | 84    | 16          | 12    | 10    | 8     | 6     | 20%   | -41%  |  |
| CPU Installed Base           | 759   | 904          | 1,035 | 1,235     | 1,384 | 1,557       | 1,669 | 1,728 | 1,748 | 1,738 | 16%   | 5%    |  |
| Workstation Installed Base   | 2,607 | 3,181        | 3,585 | 4,271     | 4,540 | 4,800       | 4,958 | 5,018 | 4,998 | 4,915 | 15%   | 2%    |  |
| REVENUE DATA                 |       |              |       |           |       |             |       |       |       |       |       |       |  |
| CPU Revenue                  | NA    | NA           | NA    | <b>NA</b> | 21    | 19          | 12    | 7     | 3     | 1     | NA    | -43%  |  |
| Workstation Revenue          | NA    | NA           | MA    | MA        | 25    | 21          | 14    | 8     | 5     | 2     | NA    | -39%  |  |
| Software Revenue             | NA    | NA           | NA    | AN        | 29    | 27          | 19    | 13    | 9     | 6     | NA    | -28%  |  |
| Peripheral Revenue           | NA    | HA           | NA    | NA        | 8     | 6           | 4     | 3     | 2     | 1     | NA    | -37%  |  |
| Service Revenue              | 11    | 12           | 12    | 18        | 16    | 15          | 11    | 8     | 7     | 5     | 10%   | -20%  |  |
| Total Revenue                | 82    | 93           | 96    | 113       | 99    | 88          | 61    | 39    | 25    | 15    | 5%    | -31%  |  |
| indrease over prior year     | NA    | 13%          | 4%    | 18X       | -13%  | +11%        | -31%  | ·36X  | -37%  | -39%  |       |       |  |

Source: Dataquest

A-3.27

TITLE:

CAD/CAM History and Forecast

APPLICATION:

Integrated Circuit

REGION:

North America

PRODUCT TYPE:

Host-Dependent

UNITS:

Millions of Dollars and Actual Units

|                              |       |       |       |       |       |       |                 |       |       |       | 81-85 | 85-90 |
|------------------------------|-------|-------|-------|-------|-------|-------|-----------------|-------|-------|-------|-------|-------|
|                              | 1981  | 1982  | 1983  | 1984  | 1985  | 1986  | 1987            | 1988  | 1989  | 1990  | CAGR  | CAGR  |
|                              | ***   | 2223  |       | 2252  | ====  |       | 2222            | z===  | 2523  | ====  | ====  |       |
| UNIT SHIPMENT DATA           |       |       |       |       |       |       |                 |       |       |       |       |       |
| CPU Shipments                | 130   | 145   | 124   | 145   | 101   | 113   | 95              | 63    | 37    | 16    | -6%   | -31%  |
| Total Workstation Shipments  | 540   | 545   | 406   | 520   | 187   | 224   | 200             | 142   | 88    | 42    | -23%  | -26%  |
| New Workstation Shipments    | 506   | 510   | 361   | 433   | 127   | 215   | <del>19</del> 1 | 136   | 83    | 38    | -29%  | -21%  |
| Add-On Workstation Shipments | 34    | 35    | 45    | 86    | 60    | 9     | 8               | 7     | 5     | 4     | 15%   | -42%  |
| CPU Installed Base           | 566   | 687   | 777   | 906   | 989   | 1,082 | 1,155           | 1,195 | 1,208 | 1,200 | 15%   | 4%    |
| Workstation Installed Base   | 1,996 | 2,458 | 2,741 | 3,178 | 3,270 | 3,396 | 3,494           | 3,531 | 3,514 | 3,451 | 13%   | 1%    |
| REVENUE DATA                 |       |       |       |       |       |       |                 |       |       |       |       |       |
| CPU Revenue                  | NA    | NA    | NA    | HA    | 10    | 11    | 8               | 5     | 2     | 1     | MA    | -40%  |
| Workstation Revenue          | NA    | NA    | MA    | NA    | 13    | 12    | 9               | 6     | 3     | 1     | NA    | -36%  |
| Software Revenue             | NA    | KA    | NA    | NA    | 16    | 15    | 13              | 9     | 6     | 4     | NA    | - 26% |
| Peripheral Revenue           | NA    | NA    | HA    | HA    | 4     | 4     | 3               | . 2   | 1     | 0     | NA    | -36%  |
| Service Revenue              | 9     | 10    | 9     | 11    | 10    | 8     | 7               | 6     | 4     | 3     | 3%    | -20%  |
| Total Revenue                | 68    | 75    | 68    | 75    | 53    | 50    | 40              | 27    | 17    | 9     | -6%   | -29%  |
| Increase over prior year     | NA    | 10%   | .9%   | 11%   | -29%  | -6%   | -19%            | -34%  | -37%  | -44%  |       |       |

Source: Dataquest

A-3.28

TITLE:

CAD/CAM History and Forecast

APPLICATION:

Integrated Circuit

REGION:

Europe

PRODUCT TYPE:

Host-Dependent

UNITS:

Millions of Dollars and Actual Units

|                              |      |      |      |      |      |      |      |      |      |      | 81-85 | 85-90 |
|------------------------------|------|------|------|------|------|------|------|------|------|------|-------|-------|
|                              | 1981 | 1982 | 1983 | 1984 | 1985 | 1986 | 1987 | 1988 | 1989 | 1990 | CAGR  | CAGR  |
|                              | ==== | 222  | *238 | E222 | 2222 | **** | 2322 | *=== | #22x | **** |       |       |
| UNIT SHIPMENT DATA           |      |      |      |      |      |      |      |      |      |      |       |       |
| CPU Shipments                | 0    | 0    | 33   | 36   | 20   | 36   | 26   | 19   | 13   | 7    | ERR   | -18%  |
| Total Workstation Shipments  | 0    | 0    | 104  | 131  | 43   | 71   | 54   | 43   | 32   | 19   | ERR   | -15%  |
| New Workstation Shipments    | 0    | 0    | 93   | 109  | 23   | 68   | 52   | 41   | 30   | 17   | ERR   | -6%   |
| Add-On Workstation Shipments | 0    | 9    | 10   | 22   | 20   | 3    | 2    | 2    | 2    | 2    | ERR   | -38%  |
| CPU installed Base           | 0    | 0    | 33   | 69   | 87   | 121  | 144  | 160  | 170  | 174  | ERR   | 15%   |
| Workstation Installed Base   | 0    | 0    | 104  | 232  | 268  | 331  | 375  | 407  | 426  | 433  | ERR   | 10X   |
| REVENUE DATA                 |      |      |      |      |      |      |      |      |      |      |       |       |
| CPU Revenue                  | AH   | MA   | NA   | NA   | 3    | 3    | 2    | 1    | 1    | 0    | NA    | -35%  |
| Workstation Revenue          | MA   | MA   | MA   | HA   | 4    | 4    | 3    | 2    | 1    | 1    | HA    | -32%  |
| Software Revenue             | NA   | NA   | AK   | NA   | 6    | 5    | 3    | 3    | 2    | 2    | NA    | -22%  |
| Peripheral Revenue           | NA   | NA   | NA   | NA   | 1    | 1    | 1    | 1    | 0    | 0    | NA    | -29%  |
| Service Revenue              | 0    | 0    | 2    | 3    | 4    | 3    | 2    | 2    | 2    | 2    | ERR   | - 18% |
| Total Revenue                | 0    | 0    | 18   | 15   | 18   | 16   | 11   | 8    | 6    | 4    | ERR   | ·25X  |
| Increase over prior year     | NA   | ERR  | ERR  | -14% | 15%  | -11% | -31% | -26% | -24% | -30% |       |       |

Source: Dataquest

June 1986

All Host-Dependent

**Host-Dependent Products** 

TABLE NUMBER:

A-3.29

TITLE:

CAD/CAM History and Forecast

APPLICATION:

Integrated Circuit

REGION:

Far East

PRODUCT TYPE:

Host-Dependent

UNITS:

Millions of Dollars and Actual Units

|                              |      |      |      |      |      |      |      |      |              |      | 81-85      | 85-90      |
|------------------------------|------|------|------|------|------|------|------|------|--------------|------|------------|------------|
|                              | 1981 | 1982 | 1983 | 1984 | 1985 | 1986 | 1987 | 1988 | 1989         | 1990 | CAGR       | CAGR       |
|                              | ==== | ==== | ==== | 2222 | *=== | **** | ***  | **** | 2000         | **** | <b>###</b> | FEFE       |
| UNIT SHIPMENT DATA           |      |      |      |      |      |      |      |      |              |      |            |            |
| CPU Shipments                | 0    | 0    | 18   | 35   | 52   | 48   | 22   | 10   | 4            | 2    | ERR        | -47%       |
| Total Workstation Shipments  | 0    | 0    | 97   | 125  | 161  | 96   | 46   | 22   | 10           | 6    | ERR        | -48%       |
| New Workstation Shipments    | 0    | 0    | 46   | 104  | 159  | 92   | 44   | 21   | 9            | 5    | ERR        | -49%       |
| Add-On Workstation Shipments | 0    | 0    | 51   | 21   | 3    | 4    | 2    | 1    | 1            | 1    | ERR        | -28%       |
| CPU Installed Base           | 0    | 0    | 18   | 52   | 103  | 149  | 168  | 175  | 175          | 174  | ERR        | 11%        |
| Workstation Installed Base   | 0    | 0    | 51   | 174  | 331  | 417  | 450  | 459  | 455          | 447  | ERR        | 6 <b>X</b> |
| REVENUE DATA                 |      |      |      |      |      |      |      |      |              |      |            |            |
| CPU Revenue                  | NA   | NA   | HA   | NA   | 8    | 5    | 2    | 1    | 0            | 0    | NA         | -58%       |
| Workstation Revenue          | NA   | NA   | ЖА   | #A   | 8    | 5    | 2    | 1    | 0            | 0    | NA         | -52%       |
| Software Revenue             | NA   | NA   | HA   | NA.  | 7    | 7    | 3    | 1    | 1            | 1    | NA         | -41%       |
| Peripheral Revenue           | NĄ   | NA   | NA   | NA   | 2    | 2    | . 1  | 0    | 0            | 0    | NA         | -49%       |
| Service Revenue              | 0    | 0    | 1    | 3    | 2    | 4    | 2    | 1    | 1            | 0    | ERR        | -22%       |
| Total Revenue                | 0    | 0    | 10   | 20   | 26   | 21   | 9    | 4    | 2            | 1    | ERR        | -45X       |
| Increase over prior year     | NA   | ERR  | ERR  | 99%  | 33%  | -19% | -57% | -55% | -54 <b>X</b> | -30% |            |            |

Source: Dataquest

A-3.30

TITLE:

CAD/CAM History and Forecast

APPLICATION:

Integrated Circuit

REGION:

Rest of World

PRODUCT TYPE:

Host-Dependent

UNITS:

Millions of Dollars and Actual Units

|                              |      |      |      |      |      |      |      |      |       |      | 81-85 | 85-90 |
|------------------------------|------|------|------|------|------|------|------|------|-------|------|-------|-------|
|                              | 1981 | 1982 | 1983 | 1984 | 1985 | 1986 | 1987 | 1988 | 1989  | 1990 | CAGR  | CAGR  |
|                              | 2222 | 2238 | 222  | ***  | HHEH | **== | **** | -    | ****  | 2288 | ****  | 1===  |
| UNIT SHIPMENT DATA           |      |      |      |      |      |      |      |      |       |      |       |       |
| CPU Shipments                | 28   | 31   | 0    | 5    | 2    | 2    | 1    | 0    | 0     | 0    | -47%  | -100% |
| Total Workstation Shipments  | 120  | 134  | 2    | 19   | 5    | 5    | 3    | 1    | 0     | 0    | -55%  | -100% |
| New Workstation Shipments    | 113  | 126  | 2    | 15   | 4    | 5    | 3    | 1    | 0     | 0    | -57X  | ·100% |
| Add-On Workstation Shipments | 7    | 8    | 0    | 3    | 1    | 0    | 0    | 0    | 0     | 0    | -34%  | -100% |
| CPU Installed Base           | 193  | 217  | 207  | 208  | 206  | 204  | 202  | 198  | 194   | 190  | 2%    | -2%   |
| Workstation Installed Base   | 611  | 723  | 689  | 687  | 671  | 656  | 639  | 621  | 602   | 584  | 2%    | -3%   |
| REVENUE DATA                 |      |      |      |      |      |      |      |      |       |      |       |       |
| CPU Revenue                  | MA   | NA   | AK   | NA   | 0    | 0    | 0    | 0    | 0     | 0    | NA    | -100% |
| Workstation Revenue          | NA   | MA   | NA   | NA   | 0    | Ð    | 0    | 0    | 0     | 0    | NA.   | -100% |
| Software Revenue             | NA   | KA   | NA   | NA   | 0    | 0    | 0    | 0    | 0     | 0    | NA    | -100% |
| Peripheral Revenue           | NA   | NA   | NA   | NA   | 0    | 0    | 0    | 0    | 0     | 0    | MA    | -100X |
| Service Revenue              | 2    | 2    | 0    | 0    | 0    | 0    | 0    | ο ΄  | 0     | 0    | -32%  | -100% |
| Total Revenue                | 14   | 18   | 0    | 3    | 2    | 1    | 1    | 0    | 0     | 0    | -41%  | -100% |
| Increase over prior year     | KA   | 29%  | -98% | 638% | -44% | -33% | -49% | -66% | -100% | ERR  |       |       |

Source: Dataquest June 1986 **Host-Dependent Products** 

A-3.31

TITLE:

CAD/CAM History and Forecast

APPLICATION:

Printed Circuit Board

REGION:

Worldwide

PRODUCT TYPE:

Host-Dependent

UNITS:

Millions of Dollars and Actual Units

|                                    |       |       |       |       |        |        |        |        |        |        | 81-85      | 85-90 |
|------------------------------------|-------|-------|-------|-------|--------|--------|--------|--------|--------|--------|------------|-------|
|                                    | 1981  | 1982  | 1983  | 1984  | 1985   | 1986   | 1987   | 1988   | 1989   | 1990   | CAGR       | CAGR  |
|                                    | ***   | ****  | ****  | 3222  | z===   | 2222   | ****   | ****   | ====   |        | ESSE       | ****  |
| UNIT SHIPMENT DATA                 |       |       |       |       |        |        |        |        |        |        |            |       |
| CPU Shipments                      | 647   | 831   | 518   | 419   | 526    | 565    | 450    | 338    | 249    | 155    | -5X        | ·22%  |
| Total Workstation Shipments        | 1,485 | 1,854 | 1,717 | 1,757 | 1,746  | 1,837  | 1,548  | 1,241  | 981    | 668    | 4 <b>X</b> | -17%  |
| New Workstation Shipments          | 1,391 | 1,712 | 1,540 | 1,258 | 1,459  | 1,659  | 1,401  | 1,116  | 871    | 575    | 1%         | -17X  |
| Add-On Workstation Shipments       | 95    | 143   | 177   | 499   | 289    | 178    | 148    | 124    | 110    | 94     | 32%        | ·20%  |
| CPU Installed Base                 | 1,841 | 2,609 | 2,996 | 3,385 | 3,878  | 4,404  | 4,810  | 5,100  | 5,298  | 5,400  | 20%        | 7%    |
| Workstation Ins <b>talled Base</b> | 4,332 | 6,016 | 7,432 | 8,966 | 10,443 | 11,966 | 13,156 | 14,002 | 14,563 | 14,794 | 25%        | 7%    |
| REVENUE DATA                       |       |       |       |       |        |        |        |        |        |        |            |       |
| CPU Revenue                        | NA    | NA    | NA    | WA    | 68     | 60     | 43     | 28     | 18     | 9      | MA         | -33%  |
| Workstation Revenue                | NA    | MA    | NA    | NA    | 70     | 63     | 47     | 34     | 24     | 15     | NA.        | -26%  |
| Software Revenue                   | NA    | NA    | NA    | NA    | 46     | 41     | 32     | 24     | 19     | 13     | MA         | -23%  |
| Peripheral Revenue                 | NA    | NA    | NA    | NA    | 19     | 17     | 13     | 10     | 7      | 5      | NA         | -24%  |
| Servic <b>e Revenue</b>            | 21    | 27    | 35    | 38    | 34     | 31     | 26     | 21     | 19     | 17     | 13%        | - 13% |
| Total <b>Revenue</b>               | 174   | 231   | 213   | 235   | 237    | 213    | 161    | 118    | 87     | 59     | 8%         | -24%  |
| Increase over prior year           | NA    | 33%   | -8%   | 10%   | 1%     | -10%   | -24%   | -27%   | ·26%   | -33%   |            |       |

Source: Dataquest

A-3.32

TITLE: APPLICATION: CAD/CAM History and Forecast

Printed Circuit Board

REGION: PRODUCT TYPE: North America Host-Dependent

UNITS:

Millions of Dollars and Actual Units

|                              |       |       |       |       |       |       |       |       |       |       | 81-85 | 85-90      |
|------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------------|
|                              | 1981  | 1982  | 1983  | 1984  | 1985  | 1986  | 1987  | 1988  | 1989  | 1990  | CAGR  | CAGR       |
|                              | *===  |       | ****  | ****  | ****  | 2222  | ***   | ****  | BEET  | 2222  | ****  | 2===       |
| UNIT SHIPMENT DATA           |       |       |       |       |       |       |       |       |       |       |       |            |
| CPU Shipments                | 290   | 362   | 265   | 248   | 203   | 245   | 196   | 144   | 95    | 63    | -9%   | -21X       |
| Total Workstation Shipments  | 743   | 869   | 902   | 1,040 | 528   | 796   | 676   | 528   | 374   | 272   | -8%   | -12%       |
| New Workstation Shipments    | 689   | 792   | 806   | 744   | 357   | 719   | 612   | 475   | 332   | 234   | -15%  | -8%        |
| Add-On Workstation Shipments | 53    | 77    | 96    | 295   | 171   | 77    | 65    | 53    | 42    | 38    | 34%   | -26X       |
| CPU Installed Base           | 840   | 1,172 | 1,378 | 1,612 | 1,799 | 2,026 | 2,202 | 2,324 | 2,395 | 2,434 | 21%   | 6%         |
| Norkstation Installed Base   | 2,360 | 3,133 | 3,878 | 4,801 | 5,185 | 5,825 | 6,326 | 6,665 | 6,839 | 6,905 | 22%   | 6 <b>X</b> |
| REVENUE DATA                 |       |       |       |       |       |       |       |       |       |       |       |            |
| CPU Revenue                  | NA    | MA    | NA    | NA    | 23    | 26    | 19    | 12    | 7     | 4     | HA    | -30%       |
| Workstation Revenue          | NA    | NA    | HA    | NA    | 28    | 27    | 21    | 14    | 9     | 6     | MA    | ·26%       |
| Software Revenue             | NA    | MA    | MA    | HA    | 18    | 18    | 14    | 10    | 7     | 5     | NA    | -22X       |
| Peripheral Revenue           | NA    | MA    | NA    | NA    | 7     | 7     | 6     | 4     | 3     | 2     | MA    | -23%       |
| Service Revenue              | 10    | 12    | 19    | 21    | 20    | 14    | 11    | 9     | 7     | 7     | 19%   | -19%       |
| Total Ravenue                | 85    | 108   | 118   | 134   | 96    | 92    | 70    | 50    | 33    | 24    | 3%    | -24%       |
| Increase over prior year     | NA    | 27%   | 9%    | 13%   | -28%  | -4%   | -24%  | -29%  | -34%  | -28%  |       |            |

Source: Dataquest June 1986 **Host-Dependent Products** 

A-3.33

TITLE:

CAD/CAM History and Forecast

APPLICATION:

Printed Circuit Board

PRODUCT TYPE:

Europe

REGION:

Host-Dependent

UNITS:

Millions of Dollars and Actual Units

|                              |      |      |      |      |       |       |       |       |       |       | 81-85 | 85-90      |
|------------------------------|------|------|------|------|-------|-------|-------|-------|-------|-------|-------|------------|
|                              | 1981 | 1982 | 1983 | 1984 | 1985  | 1986  | 1987  | 1988  | 1989  | 1990  | CAGR  | CAGR       |
|                              | ==== | 2223 | ***  | ==== | 2222  | 2222  | ***   | ====  | ====  | ****  | 2227  | CERE       |
| UNIT SHIPMENT DATA           |      |      |      |      |       |       |       |       |       |       |       |            |
| CPU Shipments                | 0    | 0    | 186  | 78   | 89    | 146   | 141   | 126   | 101   | 64    | ERR   | -6%        |
| Total Workstation Shipments  | 0    | 0    | 582  | 327  | 213   | 476   | 487   | 461   | 398   | 275   | ERR   | 5 <b>X</b> |
| New Workstation Shipments    | 0    | 0    | 535  | 234  | 142   | 430   | 440   | 415   | 353   | 236   | ERR   | 11%        |
| Add-On Workstation Shipments | 0    | 0    | 47   | 93   | 71    | 46    | 46    | 46    | 45    | 38    | ERR   | -12%       |
| CPV Installed Base           | 0    | 0    | 186  | 262  | 348   | 491   | 627   | 747   | 840   | 895   | ERR   | 21%        |
| Workstation Installed Base   | G    | 0    | 582  | 891  | 1,077 | 1,521 | 1,962 | 2,364 | 2,691 | 2,885 | ERR   | 22%        |
| REVENUE DATA                 |      |      |      |      |       |       |       |       |       |       |       |            |
| CPU Revenue                  | NA   | NA   | NA   | NA   | 12    | 16    | 13    | 11    | 7     | 4     | NA    | -20%       |
| Workstation Revenue          | NA   | NA   | NA   | NA   | 14    | 16    | 15    | 13    | 10    | 6     | NA    | - 15%      |
| Software Revenue             | NA   | NA   | KA   | NA   | 11    | 11    | 10    | 9     | 8     | 5     | MA    | -14%       |
| Periph <b>eral Rev</b> enue  | MA   | HA   | NA   | NA   | 3     | 4     | 4     | 4     | 3     | 2     | NA    | -8%        |
| Servic <b>e Revenue</b>      | 0    | 0    | 11   | 7    | 10    | 8     | 8     | 8     | 8     | 7     | ERR   | -7%        |
| Total Revenue                | 0    | 0    | 65   | 46   | 50    | 55    | 51    | 44    | 35    | 24    | ERR   | -13%       |
| Increase over prior year     | MA   | ERR  | ERR  | -29% | 7%    | 11%   | -8%   | -14%  | -19%  | -32%  |       |            |

Source: Dataquest

### A.3 All Host-Dependent Products

TABLE NUMBER:

A-3.34

TITLE:

CAD/CAN History and Forecast

APPLICATION:

Printed Circuit Board

REGION:

Far East

PRODUCT TYPE:

Host-Dependent

UNITS:

Millions of Dollars and Actual Units

|                              |      |      |      |      |       |       |       |       |       |       | 81-85 | 85-90 |
|------------------------------|------|------|------|------|-------|-------|-------|-------|-------|-------|-------|-------|
|                              | 1981 | 1982 | 1983 | 1984 | 1985  | 1986  | 1987  | 1988  | 1989  | 1990  | CAGR  | CAGR  |
|                              | 3322 |      |      | ***  | ****  | ====  | -     | ****  | 2222  | TETT  | *===  | ====  |
| UNIT SHIPMENT DATA           |      |      |      |      |       |       |       |       |       |       |       |       |
| CPU Shipments                | 0    | 0    | 60   | 86   | 232   | 167   | 105   | 64    | 52    | 28    | ERR   | -35%  |
| Total Workstation Shipments  | 0    | 0    | 200  | 362  | 988   | 545   | 362   | 235   | 204   | 119   | ERR   | -35%  |
| New Workstation Shipments    | 0    | 0    | 171  | 259  | 948   | 492   | 328   | 212   | 181   | 102   | ERR   | -36%  |
| Add-On Workstation Shipments | 0    | 0    | 29   | 103  | 43    | 53    | 35    | 24    | 23    | 17    | ERR   | ·17%  |
| CPU Installed Base           | 0    | 0    | 60   | 146  | 376   | 540   | 640   | 698   | 742   | 763   | ERR   | 15%   |
| Workstation Installed Base   | 0    | 0    | 200  | 556  | 1,528 | 2,027 | 2,329 | 2,494 | 2,623 | 2,663 | ERR   | 12%   |
| REVENUE DATA                 |      |      |      |      |       |       |       |       |       |       |       |       |
| CPU Revenue                  | NA   | NA   | NA   | WA   | 33    | 18    | 10    | 5     | 4     | 2     | NA    | -45X  |
| Workstation Revenue          | NA   | NA   | NA   | NA   | 27    | 19    | 11    | 6     | 5     | 3     | NA    | -37%  |
| Software Revenue             | NA   | NA   | NA   | KA   | 17    | 12    | 8     | 5     | 4     | 2     | NA    | -33%  |
| Peripheral Revenue           | MA   | NA.  | NA   | NA   | 8     | 5     | 3     | 2     | 2     | 1     | NA    | -36%  |
| Service Revenue              | 0    | 0    | 4    | 8    | 4     | 9     | 6     | 4     | 4     | 3     | ERR   | -5%   |
| Total Revenue                | 0    | 0    | 26   | 51   | 88    | 63    | 38    | 22    | 18    | 10    | ERR   | -35%  |
| Increase over prior year     | NA   | ERR  | ERR  | 97%  | 72X   | -28%  | -40%  | -41%  | -19%  | -42%  |       |       |

Source: Dataquest

A-3.35

TITLE:

CAD/CAN Ristory and Forecast

APPLICATION:

Printed Circuit Board

REGION:

Rest of World

PRODUCT TYPE:

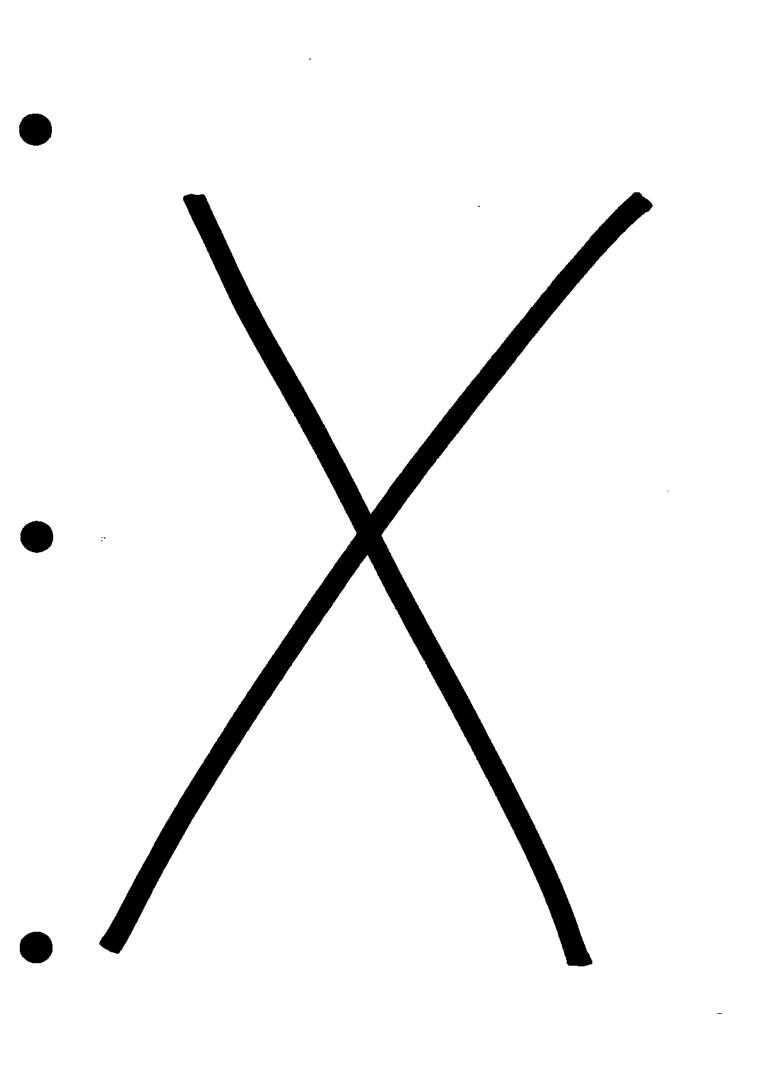
**Host-Dependent** 

UNITS:

Millions of Dollars and Actual Units

|                              |       |       |       |       |       |       |       |       |       |       | 81-85 | 85-90        |
|------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------------|
|                              | 1981  | 1982  | 1983  | 1984  | 1985  | 1986  | 1987  | 1988  | 1989  | 1990  | CAGR  | CAGR         |
|                              | 2222  | ERTT  | ====  | 2222  | ***   | ====  | 2222  | ****  | 2272  | 2222  | 2222  | 2222         |
| UNIT SKIPMENT DATA           |       |       |       |       |       |       |       |       |       |       |       |              |
| CPU Shipments                | 357   | 469   | 7     | 7     | 3     | 6     | 7     | 4     | 2     | 1     | -69%  | -24%         |
| Total Workstation Shipments  | 742   | 985   | 33    | 28    | 17    | 21    | 23    | 16    | 6     | 3     | -61%  | -27X         |
| New Workstation Shipments    | 702   | 920   | 28    | 20    | 13    | 19    | 21    | 14    | 5     | 3     | -63%  | -25%         |
| Add-On Workstation Shipments | 42    | 66    | 5     | 8     | 4     | 2     | 2     | 2     | 1     | 0     | -44%  | -35X         |
| CPU Installed Base           | 1,001 | 1,437 | 1,372 | 1,365 | 1,355 | 1,347 | 1,341 | 1,332 | 1,320 | 1,307 | 8%    | -1%          |
| Workstation Installed Base   | 1,972 | 2,883 | 2,772 | 2,717 | 2,653 | 2,594 | 2,539 | 2,478 | 2,410 | 2,341 | 8%    | -2%          |
| REVENUE DATA                 |       |       |       |       |       |       |       |       |       |       |       |              |
| CPU Revenue                  | NA    | NA    | KA    | MA    | 1     | 1     | 1     | 0     | 0     | 0     | MA    | ·39%         |
| Workstation Revenue          | NA    | NA    | MA    | MA    | 1     | 1     | 1     | 0     | 0     | 0     | NA    | -38%         |
| Software Revenue             | NA    | KA    | NA    | NA    | 0     | 0     | 0     | 0     | 0     | 0     | HA    | -31%         |
| Peripheral Revenue           | NA    | AK    | NA    | NA    | 0     | 0     | 0     | 0     | 0     | 0     | NA    | -37%         |
| Service Revenue              | 11    | 15    | 1     | 1     | 0     | 0     | 0     | 0     | 0     | 0     | ·56X  | -27X         |
| Total Revenue                | 89    | 123   | 4     | 4     | 3     | 2     | 2     | 1     | 1     | 0     | -59%  | -35 <b>X</b> |
| Increase over prior year     | NA    | 38%   | -97%  | 0%    | -37%  | -6%   | 2%    | -39%  | -64%  | ·43%  |       |              |

Source: Dataquest



A-4.11

TITLE:

CAD/CAM History and Forecast

APPLICATION:

AEC

REGION:

Worldwide

PRODUCT TYPE:

Personal Computer

UNITS:

Millions of Dollars and Actual Units

|                              |      |      |      |       |        |        |        |        |        |        | 81-85 | 85-90 |
|------------------------------|------|------|------|-------|--------|--------|--------|--------|--------|--------|-------|-------|
|                              | 1981 | 1982 | 1983 | 1984  | 1985   | 1986   | 1987   | 1988   | 1989   | 1990   | CAGR  | CAGR  |
|                              |      | ==== | **** | ***   | ***    | **==   | ***    | ====   | ====   | 2225   | ****  | 2222  |
| UNIT SHIPMENT DATA           |      |      |      |       |        |        |        |        |        |        |       |       |
| CPU Shipments                | 0    | 0    | 0    | 9,530 | 12,912 | 13,093 | 14,594 | 15,875 | 16,839 | 16,600 | ERR   | 5%    |
| Total Workstation Shipments  | 0    | 0    | 0    | 9,530 | 12,912 | 13,093 | 14,594 | 15,875 | 16,839 | 16,600 | ERR   | 5%    |
| New Workstation Shipments    | 0    | 0    | 0    | 9,530 | 12,912 | 13,093 | 14,594 | 15,875 | 16,839 | 16,600 | ERR   | 5%    |
| Add-On Workstation Shipments | 0    | 0    | 0    | 0     | 0      | 0      | 0      | 0      | 0      | 0      | ERR   | ERR   |
| CPU Installed Base           | 0    | 0    | 0    | 9,530 | 22,441 | 35,534 | 50,128 | 66,003 | 82,842 | 99,442 | ERR   | 35%   |
| Workstation Installed Base   | 0    | 0    | 0    | 9,530 | 22,441 | 35,534 | 50,128 | 66,003 | 82,842 | 99,442 | ERR   | 35%   |
| REVENUE DATA                 |      |      |      |       |        |        |        |        |        |        |       |       |
| CPU Revenue                  | MA   | NA   | MA   | MA    | 40     | 47     | 55     | 63     | 70     | 71     | MA    | 12%   |
| Workstation Revenue          | NA   | NA   | AK   | NA    | 40     | 47     | 55     | 63     | 70     | 71     | MA    | 12%   |
| Software Revenue             | NA   | MA   | MA   | NA    | 28     | 34     | 42     | 52     | 63     | 71     | MA    | 20%   |
| Peripheral Revenue           | NA   | NA   | NA   | NA    | 3      | 3      | 4      | 4      | 4      | 4      | MA    | 9%    |
| Service Revenue              | 0    | 0    | 0    | 1     | 2      | 2      | 3      | 3      | 4      | 4      | ERR   | 14%   |
| Total Revenue                | 0    | 0    | 0    | 103   | 113    | 133    | 158    | 185    | 210    | 221    | ERR   | 14X   |
| Increase over prior year     | NA   | ERR  | ERR  | ERR   | 9%     | 18%    | 19%    | 17%    | 14%    | 5%     |       |       |

Source: Dataquest

### A-4.12 TABLE NUMBER:

CAD/CAM History and Forecast TITLE:

APPLICATION: AEC

North America REGION: Personal Computer PRODUCT TYPE:

Millions of Dollars and Actual Units UNITS:

|                              |      |      |      |       |        |        |        |        |        |        | 81-85 | 85-90       |
|------------------------------|------|------|------|-------|--------|--------|--------|--------|--------|--------|-------|-------------|
|                              | 1981 | 1982 | 1983 | 1984  | 1985   | 1986   | 1987   | 1988   | 1989   | 1990   | CAGR  | CAGR        |
|                              | ==== | ***  |      | ****  | 2322   |        | ***    | ¥238   | 2222   | 2222   |       | 2222        |
| UNIT SHIPMENT DATA           |      |      |      |       |        |        |        |        |        |        |       |             |
| CPU Shipments                | 0    | 0    | 0    | 6,402 | 7,519  | 7,195  | 8,085  | 9,084  | 10,185 | 10,626 | ERR   | 7%          |
| Total Workstation Shipments  | 0    | 0    | 0    | 6,402 | 7,519  | 7,195  | 8,085  | 9,084  | 10,185 | 10,626 | ERR   | 7%          |
| New Workstation Shipments    | 0    | 0    | 0    | 6,402 | 7,519  | 7,195  | 8,085  | 9,084  | 10,185 | 10,626 | ERR   | 7%          |
| Add-On Workstation Shipments | 0    | 0    | 0    | 0     | 0      | 0      | 0      | 0      | 0      | 0      | ERR   | ERR         |
| CPU Installed Base           | 0    | 0    | 0    | 6,402 | 13,921 | 21,116 | 29,202 | 38,285 | 48,470 | 59,096 | ERR   | 34%         |
| Workstation Installed Base   | 0    | 0    | 0    | 6,402 | 13,921 | 21,116 | 29,202 | 38,285 | 48,470 | 59,096 | ERR   | 34X         |
| REVENUE DATA                 |      |      |      |       |        |        |        |        |        |        |       |             |
| CPU Revenue                  | NA   | MA   | MA   | MA    | 22     | 26     | 30     | 36     | 42     | 45     | HA    | 15%         |
| Workstation Revenue          | NA   | MA   | MA   | MA    | 22     | 26     | 30     | 36     | 42     | 45     | NA    | 15 <b>%</b> |
| Software Revenue             | NA   | MA   | MA   | MA    | 15     | 19     | 24     | 30     | 38     | 45     | NA    | 25%         |
| Peripheral Revenue           | NA   | HA   | MA   | NA    | 1      | 2      | 2      | 2      | 3      | 3      | NA    | 37X         |
| Service Revenue              | 0    | 0    | 0    | 1     | 1      | 1      | 1      | 2      | 2      | 2      | ERR   | 35%         |
| Total Revenue                | 0    | 0    | 0    | 67    | 60     | 73     | 88     | 106    | 127    | 141    | ERR   | 19%         |
| increase over prior year     | MA   | ERR  | ERR  | ERR   | -10%   | 21%    | 20%    | 21%    | 20%    | 11%    |       |             |

Source: Dataquest June 1986 **Personal** 

Computer

A-4.13

TITLE:

CAD/CAM History and Forecast

APPLICATION:

AEC

REGION:

Europe

PRODUCT TYPE:

Personal Computer

UNITS:

Millions of Dollars and Actual Units

|                              |           |      |      |       |       |       |        |        |        | 1      | 81-85 | 85 • 90    |
|------------------------------|-----------|------|------|-------|-------|-------|--------|--------|--------|--------|-------|------------|
|                              | 1981      | 1982 | 1983 | 1984  | 1985  | 1986  | 1987   | 1988   | 1989   | 1990   | CAGR  | CAGR       |
|                              | ====      | **** |      | 2222  |       | 2222  | 2232   | ****   | ****   | 2222   | E000  | ***        |
| UNIT SHIPMENT DATA           |           |      |      |       |       |       |        |        |        |        |       |            |
| CPU Shipments                | 0         | 0    | 0    | 1,651 | 3,962 | 3,400 | 3,824  | 4,082  | 4,160  | 3,819  | ERR   | -1%        |
| Total Workstation Shipments  | 0         | 0    | 0    | 1,651 | 3,962 | 3,400 | 3,824  | 4,082  | 4,160  | 3,819  | ERR   | -1%        |
| New Workstation Shipments    | 0         | 0    | 0    | 1,651 | 3,962 | 3,400 | 3,824  | 4,082  | 4,160  | 3,819  | ERR   | -1%        |
| Add-On Workstation Shipments | 0         | 0    | 0    | 0     | 0     | 0     | 0      | 0      | 0      | 0      | ERR   | ERR        |
| CPU Installed Base           | 0         | 0    | 0    | 1,651 | 5,612 | 9,012 | 12,836 | 16,919 | 21,079 | 24,898 | ERR   | 35%        |
| Workstation Installed Base   | 0         | 0    | 0    | 1,651 | 5,612 | 9,012 | 12,836 | 16,919 | 21,079 | 24,898 | ERR   | 35%        |
| REVENUE DATA                 |           |      |      |       |       |       |        |        |        |        |       |            |
| CPU Revenue                  | NA        | NA   | NA   | MA    | 11    | 12    | 14     | 16     | 17     | 16     | AK    | 8%         |
| Workstation Revenue          | NA        | NA   | NA   | NA    | 11    | 12    | 14     | 16     | 17     | 16     | MA    | 8%         |
| Software Revenue             | NA        | NA   | NA   | NA    | 6     | 9     | 11     | 13     | 16     | 16     | MA    | 23%        |
| Peripheral Revenue           | <b>AK</b> | NA   | NA   | NA    | 1     | 1     | 1      | 1      | 1      | 1      | MA    | 4 <b>x</b> |
| Service Revenue              | 0         | 0    | 0    | 0     | 1     | 1     | 1      | 1      | 1      | 1      | ERR   | -3%        |
| Tot <b>al Revenue</b>        | 0         | 0    | 0    | 19    | 30    | 35    | 42     | 48     | 52     | 51     | ERR   | 11%        |
| Increase over prior year     | NA        | ERR  | ERR  | ERR   | 56X   | 17%   | 20%    | 15%    | 9%     | -2%    |       |            |

Source: Dataquest June 1986

Personal

Computer Products

TITLE: CAD/CAN History and Forecast

APPLICATION: AEC
REGION: Far East

PRODUCT TYPE: Personal Computer

UNITS: Millions of Dollars and Actual Units

|                              |      |      |      |       |       |       |       |           |        |        | 81-85 | 85-90 |
|------------------------------|------|------|------|-------|-------|-------|-------|-----------|--------|--------|-------|-------|
|                              | 1981 | 1982 | 1983 | 1984  | 1985  | 1986  | 1987  | 1988      | 1989   | 1990   | CAGR  | CAGR  |
|                              | =332 |      | **** | 2225  | HERR  | 2005  | 2222  | 2322      | ***    | 8023   | ====  | E222  |
| UNIT SHIPMENT DATA           |      |      |      |       |       |       |       |           |        |        |       |       |
| CPU Shipments                | 0    | 0    | 0    | 1,216 | 1,113 | 2,185 | 2,314 | 2,276     | 2,007  | 1,652  | ERR   | 8%    |
| Total Workstation Shipments  | 0    | 0    | 0    | 1,216 | 1,113 | 2,185 | 2,314 | 2,276     | 2,007  | 1,652  | ERR   | 8%    |
| New Workstation Shipments    | 0    | 0    | 0    | 1,216 | 1,113 | 2,185 | 2,314 | 2,276     | 2,007  | 1,652  | ERR   | 8%    |
| Add-On Workstation Shipments | 0    | 0    | 0    | 0     | 0     | 0     | 0     | 0         | 0      | 0      | ERR   | ERR   |
| CPU Installed Base           | 0    | 0    | 0    | 1,216 | 2,329 | 4,513 | 6,827 | 9,103     | 11,111 | 12,762 | ERR   | 41%   |
| Workstation Installed Base   | 0    | 0    | 0    | 1,216 | 2,329 | 4,513 | 6,827 | 9,103     | 11,111 | 12,762 | ERR   | 41%   |
| REVENUE DATA                 |      |      |      |       |       |       |       |           |        |        |       |       |
| CPU Revenue                  | NA   | NA   | MA   | NA    | 6     | 8     | 9     | 9         | 8      | 7      | NA    | 4%    |
| Workstation Revenue          | NA   | NA   | AK   | NA    | 6     | 8     | 9     | 9         | 8      | 7      | KA    | 4X    |
| Software Revenue             | NA   | NA   | NA   | NA    | 6     | 6     | 7     | 8         | 8      | 7      | MA    | 2%    |
| Peripheral Revenue           | NA   | MA   | NA   | NA    | 1     | 1     | 1     | 1         | 1      | 0      | WA    | -21%  |
| Service Revenue              | 0    | 0    | 0    | 0     | 0     | 0     | 0     | 0         | 0      | 0      | ERR   | 0%    |
| Total Revenue                | 0    | 0    | 0    | 14    | 20    | 22    | 25    | 27        | 25     | 22     | ERR   | 2%    |
| Increase over prior year     | NA   | ERR  | ERR  | ERR   | 41%   | 12%   | 13%   | <b>6%</b> | -5%    | -12%   |       |       |

Source: Dataquest

June 1986

All Personal Computer Products

### Personal Computer **Products**

TABLE NUMBER:

A-4.15

TITLE:

CAD/CAM History and Forecast

APPLICATION:

AEC

REGION: PRODUCT TYPE: Rest of World Personal Computer

UNITS:

Millions of Dollars and Actual Units

|                              |      |      |      |      |                 |      |       |       |       |       | 81-85 | 85-90       |
|------------------------------|------|------|------|------|-----------------|------|-------|-------|-------|-------|-------|-------------|
|                              | 1981 | 1982 | 1983 | 1984 | 1985            | 1986 | 1987  | 1988  | 1989  | 1990  | CAGR  | CAGR        |
|                              | ***  | ***  |      | 2222 | ***             | 2272 | ****  | ####  | ***   | ***   | ****  | ***         |
| UNIT SHIPMENT DATA           |      |      |      |      |                 |      |       |       |       |       |       |             |
| CPU Shipments                | 0    | 0    | 0    | 261  | 318             | 313  | 370   | 433   | 487   | 503   | ERR   | 10%         |
| Total Workstation Shipments  | 0    | 0    | 0    | 261  | 318             | 313  | 370   | 433   | 487   | 503   | ERR   | 10%         |
| New Workstation Shipments    | 0    | 0    | 0    | 261  | 318             | 313  | 370   | 433   | 487   | 503   | ERR   | 10%         |
| Add-On Workstation Shipments | 0    | 0    | 0    | 0    | 0               | 0    | 0     | 0     | 0     | 0     | ERR   | ERR         |
| CPU Installed Base           | 0    | 0    | 0    | 261  | 57 <del>9</del> | 892  | 1,263 | 1,696 | 2,182 | 2,685 | ERR   | 36%         |
| Workstation Installed Base   | 0    | 0    | 0    | 261  | 579             | 892  | 1,263 | 1,696 | 2,182 | 2,685 | ERR   | 36X         |
| REVENUE DATA                 |      |      |      |      |                 |      |       |       |       |       |       |             |
| CPU Revenue                  | MA   | MA   | NA   | NA   | 1               | 1    | 1     | 2     | 2     | 2     | MA    | 18%         |
| Workstation Revenue          | NA   | HA   | MA   | NA   | 1               | 1    | 1     | 2     | 2     | 2     | NA    | 18%         |
| Software Revenue             | NA   | MA   | WA   | NA   | 1               | 1    | 1     | 1     | 2     | 2     | NA    | 20%         |
| Peripheral Revenue           | NA   | KA   | WA   | NA   | 0               | 0    | 0     | 0     | 0     | 0     | MA    | 45 <b>X</b> |
| Service Revenue              | 0    | 0    | 0    | 0    | 0               | 0    | 0     | 0     | 0     | 0     | ERR   | 62%         |
| Total Revenue                | 0    | 0    | 0    | 3    | 3               | 3    | 4     | 5     | 6     | 7     | ERR   | 19%         |
| Increase over prior year     | NA   | ERR  | ERR  | ERR  | -6%             | 13%  | 26%   | 25%   | 20%   | 10%   |       |             |

Source: Dataquest June 1986

A-4.16

TITLE:

CAD/CAN History and Forecast

APPLICATION:

Mapping

REGION:

Worldwide Personal Computer

PRODUCT TYPE: UNITS:

Millions of Dollars and Actual Units

| •                            |      |      |      |      |      |       |       |       |       |       | 81-85 | 85-90 |
|------------------------------|------|------|------|------|------|-------|-------|-------|-------|-------|-------|-------|
|                              | 1981 | 1982 | 1983 | 1984 | 1985 | 1986  | 1987  | 1988  | 1989  | 1990  | CAGR  | CAGR  |
|                              | -    | 2223 | ***  | ***  | ***  | ***   | 8222  | JEES  | ****  | B35E  | ##22  | ****  |
| UNIT SHIPMENT DATA           |      |      |      |      |      |       |       |       |       |       |       |       |
| CPU Shipments                | 0    | 0    | 0    | 28   | 149  | 1,624 | 2,323 | 2,056 | 1,668 | 1,075 | ERR   | 48%   |
| Total Workstation Shipments  | 0    | 0    | 0    | 28   | 149  | 1,624 | 2,323 | 2,056 | 1,668 | 1,075 | ERR   | 48%   |
| New Workstation Shipments    | 0    | 0    | 0    | 28   | 149  | 1,624 | 2,323 | 2,056 | 1,668 | 1,075 | ERR   | 48%   |
| Add-On Workstation Shipments | 0    | 0    | 0    | 0    | 0    | 0     | 0     | 0     | 0     | 0     | ERR   | ERR   |
| CPU Installed Base           | 0    | 0    | 0    | 28   | 177  | 1,801 | 4,124 | 6,172 | 7,831 | 8,894 | ERR   | 119%  |
| Workstation Installed Base   | 0    | 0    | 0    | 28   | 177  | 1,801 | 4,124 | 6,172 | 7,831 | 8,894 | ERR   | 119%  |
| REVENUE DATA                 |      |      |      |      |      |       |       |       |       |       |       |       |
| CPU Revenue                  | NA   | KA   | NA   | NA   | 1    | 1     | 2     | 5     | 2     | 1     | NA    | 13%   |
| Workstation Revenue          | NA   | NA   | HA   | NA   | 1    | 1     | 2     | 2     | 2     | 1     | NA    | 13%   |
| Software Revenue             | MA   | NA   | NA   | NA   | 2    | 5     | 9     | 10    | 11    | 11    | NA    | 39%   |
| Peripheral Revenue           | NA   | MA   | WA   | NA   | 0    | 0     | 0     | 0     | 0     | 0     | NA    | 15%   |
| Service Revenue              | 0    | 0    | 0    | 0    | 0    | 0     | 0     | 0     | 0     | Û     | ERR   | 32X   |
| Total Revenue                | 0    | 0    | Q    | 1    | 3    | 8     | 14    | 15    | 15    | 13    | ERR   | 32%   |
| increase over prior year     | NA   | ERR  | ERR  | ERR  | 226X | 151%  | 69%   | 6%    | 2%    | - 13% |       |       |

Source: Dataquest

June 1986

**Personal Computer Products** 

A-4.17

TITLE:

CAD/CAM History and Forecast

APPLICATION:

Mapping

REGION:

North America

PRODUCT TYPE:

Personal Computer

UNITS:

Millions of Dollars and Actual Units

|                              |      |      |      |      |      |      |              |       |       |       | 81-85 | 85-90 |
|------------------------------|------|------|------|------|------|------|--------------|-------|-------|-------|-------|-------|
|                              | 1981 | 1982 | 1983 | 1984 | 1985 | 1986 | 1987         | 1988  | 1989  | 1990  | CAGR  | CAGR  |
|                              | 2222 | 2222 | R222 |      | -    | FEEF | 2222         | ****  | ***   | ***   | ***   | ****  |
| UNIT SHIPMENT DATA           |      |      |      |      |      |      |              |       |       |       |       |       |
| CPU Shipments                | 0    | 0    | 0    | 0    | 51   | 897  | 1,536        | 1,206 | 819   | 391   | ERR   | 50%   |
| Total Workstation Shipments  | 0    | 0    | 0    | 0    | 51   | 897  | 1,536        | 1,206 | 819   | 391   | ERR   | 50%   |
| New Workstation Shipments    | 0    | 0    | 0    | 0    | 51   | 897  | 1,536        | 1,206 | 819   | 391   | ERR   | 50%   |
| Add-On Workstation Shipments | 0    | 0    | 0    | 0    | 0    | 0    | 0            | 0     | 0     | 0     | ERR   | ERR   |
| CPU Installed Base           | 0    | 0    | 0    | 0    | 51   | 948  | 2,484        | 3,686 | 4,500 | 4,884 | ERR   | 149%  |
| Workstation Installed Base   | 0    | 0    | 0    | 0    | 51   | 948  | 2,484        | 3,686 | 4,500 | 4,884 | ERR   | 149%  |
| REVENUE DATA                 |      |      |      |      |      |      |              |       |       |       |       |       |
| CPU Revenue                  | NA   | NA   | NA   | NA   | 0    | 1    | 1            | 1     | 1     | 0     | NA    | 11%   |
| Workstation Revenue          | NA   | NA   | AM   | NA   | 0    | 1    | 1            | 1     | 1     | 0     | KA    | 11%   |
| Software Revenue             | NA   | NA   | HA   | MA   | 2    | 3    | 6            | 6     | 6     | 4     | MA    | 17%   |
| Peripheral Revenue           | NA   | NA   | NA   | MA   | 0    | 0    | 0            | 0     | 0     | 0     | NA    | ERR   |
| Service Revenue              | 0    | 0    | 0    | 0    | 0    | 0    | 0            | 0     | 0     | 0     | ERR   | ERR   |
| Total Revenue                | 0    | 0    | 0    | 0    | 2    | 5    | 9            | 9     | 7     | 5     | ERR   | 16%   |
| Increase over prior year     | NA   | ERR  | ERR  | ERR  | ERR  | 104% | 101 <b>X</b> | -6%   | -14%  | -36%  |       |       |

Source: Dataquest

# **Personal Computer Products**

TABLE MIMBER: A-4.18

TITLE: CAD/CAM History and Forecast

APPLICATION: . Mapping REGION: Europe

PRODUCT TYPE: Personal Computer

UNITS: Millions of Dollars and Actual Units

|                              |      |      |             |      |      |      |       |       |       |       | 81-85 | 85.90 |
|------------------------------|------|------|-------------|------|------|------|-------|-------|-------|-------|-------|-------|
|                              | 1981 | 1982 | 1983        | 1984 | 1985 | 1986 | 1987  | 1988  | 1989  | 1990  | CAGR  | CAGR  |
|                              | **** |      | <b>3322</b> | 2222 | **** | 2222 | 2222  | 2222  | ****  | E223  | 2222  | ****  |
| UNIT SHIPMENT DATA           |      |      |             |      |      |      |       |       |       |       |       |       |
| CPU Shipments                | 0    | 0    | 0           | 0    | 94   | 614  | 622   | 577   | 566   | 458   | ERR   | 37%   |
| Total Workstation Shipments  | 0    | 0    | 0           | 0    | 94   | 614  | 622   | 577   | 566   | 458   | ERR   | 37%   |
| New Workstation Shipments    | 0    | 0    | 0           | 0    | 94   | 614  | 622   | 577   | 566   | 458   | ERR   | 37%   |
| Add-On Workstation Shipments | 0    | 0    | 0           | 0    | 0    | 0    | 0     | 0     | 0     | 0     | ERR   | ERR   |
| CPU Installed Base           | 0    | 0    | 0           | 0    | 94   | 708  | 1,330 | 1,904 | 2,467 | 2,921 | ERR   | 99%   |
| Workstation Installed Base   | 0    | 0    | 0           | 0    | 94   | 708  | 1,330 | 1,904 | 2,467 | 2,921 | ERR   | 99%   |
| REVENUE DATA                 |      |      |             |      |      |      |       |       |       |       |       |       |
| CPU Revenue                  | NA   | NA   | NA          | NA   | 0    | 1    | 1     | 1     | 1     | 0     | MA    | 7X    |
| Workstation Revenue          | NA   | NA   | NA          | KA   | 0    | 1    | 1     | 1     | 1     | 0     | MA    | 7%    |
| Software Revenue             | MA   | HA   | NA          | NA   | 0    | 2    | 2     | 3     | 4     | 5     | HA    | 101%  |
| Peripheral Revenue           | NA   | NA   | NA          | MA   | 0    | 0    | 0     | 0     | 0     | 0     | MA    | 0%    |
| Service Revenue              | 0    | 0    | 0           | 0    | 0    | 0    | . 0   | 0     | 0     | 0     | ERR   | 8X    |
| Total Revenue                | 0    | 0    | 0           | 0    | 1    | 3    | 4     | 4     | 5     | 6     | ERR   | 47%   |
| Increase over prior year     | NA   | ERR  | ERR         | ERR  | ERR  | 276% | 20X   | 11%   | 24%   | 9%    |       |       |

Source: Dataquest June 1986

À-4.19

TITLE:

CAD/CAM History and Forecast

APPLICATION:

Mapping

REGION:

Far East

PRODUCT TYPE:

Personal Computer

UNITS:

Millions of Dollars and Actual Units

|                              |      |      |      |      |      |      |      |      |      |      | 81 - 85 | 85-90 |  |
|------------------------------|------|------|------|------|------|------|------|------|------|------|---------|-------|--|
|                              | 1981 | 1982 | 1983 | 1984 | 1985 | 1986 | 1987 | 1988 | 1989 | 1990 | CAGR    | CAGR  |  |
|                              | **** | ***  |      | ===3 | **** | ***  | ==== | *=== | **** |      | ****    | ====  |  |
| UNIT SHIPMENT DATA           |      |      |      |      |      |      |      |      |      |      |         |       |  |
| CPU Shipments                | 0    | 0    | 0    | 28   | 3    | 48   | 80   | 167  | 165  | 124  | ERR     | 108%  |  |
| Total Workstation Shipments  | 0    | 0    | 0    | 28   | 3    | 48   | 80   | 167  | 165  | 124  | ERR     | 108%  |  |
| New Workstation Shipments    | 0    | 0    | 0    | 28   | 3    | 48   | 80   | 167  | 165  | 124  | ERR     | 108%  |  |
| Add-On Workstation Shipments | 0    | 0    | 0    | 0    | 0    | 0    | Q    | 0    | 0    | 0    | ERR     | ERR   |  |
| CPU Installed Base           | 0    | 0    | 0    | 28   | 31   | 79   | 158  | 325  | 489  | 612  | ERR     | 82%   |  |
| Workstation installed Base   | 0    | 0    | 0    | 28   | 31   | 79   | 158  | 325  | 489  | 612  | ERR     | 82%   |  |
| REVENUE DATA                 |      |      |      |      |      |      |      |      |      |      |         |       |  |
| CPU Revenue                  | NA   | NA   | NA   | NA   | 0    | 0    | 0    | 0    | 0    | 0    | NA      | 32%   |  |
| Workstation Revenue          | MA   | NA   | MA   | MA   | 0    | 0    | 0    | 0    | 0    | 0    | HA      | 32%   |  |
| Software Revenue             | NA   | NA   | NA   | NA   | 0    | 0    | 0    | 1    | 1    | 1    | NA      | 73%   |  |
| Peripheral Revenue           | NA   | MA   | NA   | NA   | 0    | 0    | 0    | 0    | 0    | 0    | NA      | 0%    |  |
| Service Revenue              | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | ERR     | ERR   |  |
| Total Revenue                | 0    | 0    | 0    | 1    | 0    | 0    | 0    | 1    | 1    | 2    | ERR     | 61%   |  |
| Increase over prior year     | NA   | ERR  | ERR  | ERR  | -86% | 71%  | 96%  | 153X | 24%  | 1%   |         |       |  |

Source: Dataquest

# All Personal Computer Products

TABLE NUMBER: A-4.20

TITLE: CAD/CAN History and Forecast

APPLICATION: Mapping
REGIOW: Rest of World

PRODUCT TYPE: Personal Computer

UNITS: Nillions of Dollars and Actual Units

|                              |      |      |        |           |      |      |        |      |      |      | 81-85 | 85-90 |
|------------------------------|------|------|--------|-----------|------|------|--------|------|------|------|-------|-------|
|                              | 1981 | 1982 | 1983   | 1984      | 1985 | 1986 | 1987   | 1988 | 1989 | 1990 | CAGR  | CAGR  |
|                              | ==== | ***  | EE 3 3 | ====      | **** | HEES | ****** | ==== | ==== | F#22 | ****  | ****  |
| UNIT SHIPMENT DATA           |      |      |        |           |      |      |        |      |      |      |       |       |
| CPU Shipments                | 0    | 0    | 0      | 0         | 1    | 65   | 85     | 106  | 119  | 103  | ERR   | 150X  |
| Total Workstation Shipments  | 0    | 0    | 0      | 0         | 1    | 65   | 85     | 106  | 119  | 103  | ERR   | 150%  |
| New Workstation Shipments    | 0    | 0    | 0      | 0         | 1    | 65   | 85     | 106  | 119  | 103  | ERR   | 150%  |
| Add-On Workstation Shipments | 0    | 0    | 0      | 0         | 0    | 0    | 0      | 0    | 0    | 0    | ERR   | ERR   |
| CPU Installed Base           | 0    | 0    | 0      | 0         | 1    | 66   | 151    | 257  | 375  | 477  | ERR   | 239%  |
| Workstation Installed Base   | 0    | 0    | 0      | 0         | 1    | 66   | 151    | 257  | 375  | 477  | ERR   | 239%  |
| REVENUE DATA                 |      |      |        |           |      |      |        |      |      |      |       |       |
| CPU Revenue                  | MA   | NA   | MA     | HA        | 0    | 0    | 0      | 0    | 0    | 0    | NA    | ERR   |
| Workstation Revenue          | MA   | MA   | MA     | <b>WA</b> | Ó    | 0    | 0      | 0    | 0    | 0    | NA    | ERR   |
| Software Revenue             | NA   | MA   | NA     | KA        | 0    | 0    | 0      | 1    | 1    | 1    | NA    | 71%   |
| Peripheral Revenue           | NA   | MA   | NA     | NA        | 0    | 0    | 0      | 0    | 0    | 0    | MA    | ERR   |
| Service Revenue              | 0    | 0    | 0      | 0         | 0    | 0    | 0      | 0    | 0    | 0    | ERR   | ERR   |
| Total Revenue                | 0    | 0    | 0      | 0         | 0    | 0    | 1      | . 1  | 1    | 1    | ERR   | 73%   |
| Increase over prior year     | NA   | ERR  | ERR    | ERR       | ERR  | 313% | 55%    | 47%  | 43%  | 16X  |       |       |

Source: Dataquest

A-4.21

TITLE:

CAD/CAM History and Forecast Electronic Design Automation

APPLICATION: REGION:

Worldwide

PRODUCT TYPE:

Personal Computer

UNITS:

Millions of Dollars and Actuel Units

|                              |      |      |      |       |        |        |        |        | •      |        | 81-85 | 85-90      |
|------------------------------|------|------|------|-------|--------|--------|--------|--------|--------|--------|-------|------------|
|                              | 1981 | 1982 | 1983 | 1984  | 1985   | 1986   | 1987   | 1988   | 1989   | 1990   | CAGR  | CAGR       |
|                              | E222 | **** | 2222 | 2222  | 2222   | 2222   | ***    | ***    | 2223   | ####   | ****  | STEE       |
| UNIT SHIPMENT DATA           |      |      |      |       |        |        |        |        |        |        |       |            |
| CPU Shipments                | 0    | 0    | 0    | 2,199 | 10,089 | 12,037 | 12,853 | 12,650 | 11,830 | 10,425 | ERR   | 1%         |
| Total Workstation Shipments  | 0    | 0    | 0    | 2,199 | 10,089 | 12,037 | 12,853 | 12,650 | 11,830 | 10,425 | ERR   | 1%         |
| New Workstation Shipments    | 0    | 0    | 0    | 2,199 | 10,089 | 12,037 | 12,853 | 12,650 | 11,830 | 10,425 | ERR   | 1%         |
| Add-On Workstation Shipments | 0    | 0    | 0    | 0     | 0      | 0      | 0      | 0      | 0      | 0      | ERR   | ERR        |
| CPU Installed Base           | 0    | 0    | 0    | 2,199 | 12,288 | 24,326 | 37,179 | 49,828 | 61,658 | 72,083 | ERR   | 42%        |
| Workstation Installed Base   | 0    | 0    | 0    | 2,199 | 12,288 | 24,326 | 37,179 | 49,828 | 61,658 | 72,083 | ERR   | 42%        |
| REVENUE DATA                 |      |      |      |       |        |        |        |        |        |        |       |            |
| CPU Revenue                  | HA   | AN   | HA   | NA    | 45     | 52     | 58     | 61     | 58     | 49     | NA    | 2%         |
| Workstation Revenue          | MA   | MA   | MA   | HA    | 45     | 52     | 58     | 61     | 58     | 49     | NA    | 2%         |
| Software Revenue             | MA   | MA   | NA   | NA    | 47     | 56     | 67     | 76     | 80     | 76     | HA    | 10%        |
| Peripheral Revenue           | NA   | WA   | NA   | NA    | 3      | 3      | 3      | 3      | 2      | 1      | NA    | -13%       |
| Service Revenue              | 0    | 0    | 0    | 0     | 3      | 3      | 4      | 4      | 4      | 4      | ERR   | 5X         |
| Total Revenue                | 0    | 0    | 0    | 47    | 143    | 167    | 190    | 204    | 202    | 179    | ERR   | 5 <b>%</b> |
| Increase over prior year     | NA   | FRR  | FRR  | FRR   | 205%   | 17%    | 14%    | 7%     | -1%    | ·11%   |       |            |

Source: Dataquest

TITLE: CAD/CAM History and Forecast APPLICATION: Electronic Design Automation

REGION: North America
PRODUCT TYPE: Personal Computer

UMITS: Millions of Dollars and Actual Units

|                              |      |      |      |       |       |        |        |        |        |        | 81-85 | 85-90      |
|------------------------------|------|------|------|-------|-------|--------|--------|--------|--------|--------|-------|------------|
|                              | 1981 | 1982 | 1983 | 1984  | 1985  | 1986   | 1987   | 1988   | 1989   | 1990   | CAGR  | CAGR       |
|                              | ==== | **** | **** | 2222  | 2222  | ====   | 2222   | 2222   | ***    | 2222   | ***   | ****       |
| UNIT SHIPMENT DATA           |      |      |      |       |       |        |        |        |        |        |       |            |
| CPU Shipments                | 0    | 0    | 0    | 1,721 | 7,866 | 8,888  | 9,574  | 9,436  | 8,953  | 7,953  | ERR   | 0%         |
| Total Workstation Shipments  | 0    | 0    | 0    | 1,721 | 7,866 | 8,688  | 9,574  | 9,436  | 8,953  | 7,953  | ERR   | 0%         |
| New Workstation Shipments    | 0    | 0    | 0    | 1,721 | 7,866 | 8,888  | 9,574  | 9,436  | 8,953  | 7,953  | ERR   | OX.        |
| Add-On Workstation Shipments | 0    | 0    | 0    | 0     | 0     | 0      | 0      | 0      | 0      | 0      | ERR   | ERR        |
| CPU Installed Base           | 0    | 0    | 0    | 1,721 | 9,587 | 18,475 | 28,049 | 37,485 | 46,437 | 54,390 | ERR   | 42X        |
| Workstation Installed Base   | 0    | 0    | 0    | 1,721 | 9,587 | 18,475 | 28,049 | 37,485 | 46,437 | 54,390 | ERR   | 42%        |
| REVENUE DATA                 |      |      |      |       |       |        |        |        |        |        |       |            |
| CPU Revenue                  | NA   | NA   | MA   | NA    | 35    | 39     | 43     | 45     | 44     | 38     | KA    | 2%         |
| Workstation Revenue          | NA   | WA   | KA   | HA    | 35    | 39     | 43     | 45     | 44     | 38     | NA    | 2%         |
| Software Revenue             | NA   | MA   | NA   | NA    | 29    | 42     | 50     | 56     | 60     | 58     | NA    | 14%        |
| Peripheral Revenue           | NA   | HA   | NA   | NA    | 1     | 2      | 2      | 2      | 2      | 1      | NA    | .4%        |
| Service Revenue              | 0    | 0    | 0    | 0     | 2     | 3      | 3      | 3      | 3      | 3      | ERR   | 7 <b>%</b> |
| Total Revenue                | 0    | 0    | 0    | 36    | 102   | 124    | 142    | 152    | 153    | 137    | ERR   | 6 <b>X</b> |
| Increase over prior year     | NA   | ERR  | ERR  | ERR   | 184%  | 21%    | 15%    | 7%     | 1%     | -11%   |       |            |

Source: Dataquest

June 1986

**All Personal Computer Products** 

A-4.23

TITLE: APPLICATION: CAD/CAM Kistory and Forecast

REGION:

**Electronic Design Automation** 

Europe

PRODUCT TYPE:

Personal Computer

UN!TS:

Millions of Dollars and Actual Units

|                              | 1981 | 1982 | 1983 | 1984 | 1985  | 1986  | 1987  | 1988  | 1989  | 1990  | CAGR | CAGR |  |
|------------------------------|------|------|------|------|-------|-------|-------|-------|-------|-------|------|------|--|
|                              | ==== | **** |      | **** | ****  | 2223  | ****  | 東北北京  | 2232  | ****  | 2232 | 2222 |  |
| LNIT SHIPHENT DATA           |      |      |      |      |       |       |       |       |       |       |      |      |  |
| CPU Shipments                | 0    | 0    | 0    | 261  | 1,693 | 1,727 | 1,653 | 1,518 | 1,198 | 789   | ERR  | -14% |  |
| Total Workstation Shipments  | 0    | 0    | 0    | 261  | 1,693 | 1,727 | 1,653 | 1,518 | 1,198 | 789   | ERR  | -14X |  |
| New Workstation Shipments    | 0    | 0    | 0    | 261  | 1,693 | 1,727 | 1,653 | 1,518 | 1,198 | 789   | ERR  | -14% |  |
| Add-On Workstation Shipments | 0    | 0    | 0    | 0    | 0     | 0     | 0     | 0     | 0     | 0     | ERR  | ERR  |  |
| CPU Installed Base           | 0    | Q    | 0    | 261  | 1,953 | 3,680 | 5,333 | 6,851 | 8,048 | 8,837 | ERR  | 35%  |  |
| Workstation Installed Base   | 0    | 0    | 0    | 261  | 1,953 | 3,680 | 5,333 | 6,851 | 8,048 | 8,837 | ERR  | 35%  |  |
| REVENUE DATA                 |      |      |      |      |       |       |       |       |       |       |      |      |  |
| CPU Revenue                  | MA   | MA   | MA   | NA   | 7     | 8     | 8     | 7     | 6     | 4     | HA   | -11% |  |
| Workstation Revenue          | MA   | MA   | NA   | MA   | 7     | 8     | 8     | 7     | 6     | 4     | NA   | -11% |  |
| Software Revenue             | MA   | MA   | MA   | MA   | 10    | 8     | 9     | 9     | 8     | 6     | NA   | -10% |  |
| Peripheral Revenue           | MA   | MA   | HA   | KA   | 0     | 0     | 0     | 0     | 0     | 0     | HA   | -24% |  |
| Service Revenue              | 0    | 0    | 0    | 0    | 1     | 0     | 1     | 1     | 0     | 0     | ERR  | -15X |  |
| Total Revenue                | 0    | 0    | 0    | 6    | 24    | 24    | 24    | 24    | 21    | 14    | ERR  | -11% |  |
| Increase over prior year     | NA   | ERR  | ERR  | ERR  | 306X  | -1%   | 2%    | 0%    | -16%  | -34%  |      |      |  |
|                              |      |      |      |      |       |       |       |       |       |       |      |      |  |

Source: Dataquest June 1986

81-85 85-90

**Personal** 

Computer

TITLE: CAD/CAM History and Forecast APPLICATION: Electronic Design Automation

REGION: Far East

PRODUCT TYPE: Personal Computer

UNITS: Millions of Dollars and Actual Units

|                              |      |      |      |      |      |       |       |       |       |       | 81-85 | 85-90       |
|------------------------------|------|------|------|------|------|-------|-------|-------|-------|-------|-------|-------------|
|                              | 1981 | 1982 | 1983 | 1984 | 1985 | 1986  | 1987  | 1988  | 1989  | 1990  | CAGR  | CAGR        |
|                              | 2222 | **** | **** | 2222 | **** | ****  | ****  | 2223  | 9222  | 2222  |       | ****        |
| UNIT SHIPMENT DATA           |      |      |      |      |      |       |       |       |       |       |       |             |
| CPU Shipments                | 0    | 0    | 0    | 174  | 529  | 1,416 | 1,611 | 1,674 | 1,660 | 1,673 | ERR   | 26%         |
| Total Workstation Shipments  | 0    | 0    | 0    | 174  | 529  | 1,416 | 1,611 | 1,674 | 1,660 | 1,673 | ERR   | 26 <b>%</b> |
| New Workstation Shipments    | 0    | 0    | 0    | 174  | 529  | 1,416 | 1,611 | 1,674 | 1,660 | 1,673 | ERR   | 26%         |
| Add-On Workstation Shipments | 0    | 9    | 0    | e    | 0    | 0     | 0     | 0     | 0     | 0     | ERR   | ERR         |
| CPU Installed Base           | 0    | 0    | 0    | 174  | 703  | 2,119 | 3,730 | 5,404 | 7,064 | 8,736 | ERR   | 66X         |
| Workstation Installed Base   | 0    | 0    | 0    | 174  | 703  | 2,119 | 3,730 | 5,404 | 7,064 | 8,736 | ERR   | 66%         |
| REVENUE DATA                 |      |      |      |      |      |       |       |       |       |       |       |             |
| CPU Revenue                  | NA   | MA   | MA   | NA   | 4    | 6     | 7     | 8     | 8     | 8     | NA    | 16X         |
| Workstation Revenue          | NA   | HA   | NA   | MA   | 4    | 6     | 7     | 8     | 8     | 8     | HA    | 16%         |
| Software Revenue             | NA   | MA   | NA   | NA   | 8    | 7     | 8     | 10    | 11    | 12    | NA    | 9%          |
| Peripheral Revenue           | MA   | WA   | NA   | MA   | 1    | G     | 0     | 0     | 0     | 0     | HA    | -28%        |
| Service Revenue              | 0    | 0    | 0    | 0    | 0    | 0     | 0     | 1     | 1     | 1     | ERR   | 17%         |
| Total Re <b>venue</b>        | 0    | 0    | 0    | 4    | 17   | 20    | 24    | 27    | 28    | 29    | ERR   | 12X         |
| Increase over prior year     | MA   | ERR  | ERR  | ERR  | 319% | 18%   | 21%   | 13X   | 5%    | 1%    |       |             |

Source: Dataquest

June 1986

All Personal Computer Products

A-4.25

TITLE: APPLICATION: CAD/CAM History and Forecast Electronic Design Automation

REGION:

Rest of World

PRODUCT TYPE:

Personal Computer

UNITS:

Millions of Dollars and Actual Units

|                              |      |      |      |      |      |      |      |      |      |          | 81-85 | 85-90       |
|------------------------------|------|------|------|------|------|------|------|------|------|----------|-------|-------------|
|                              | 1981 | 1982 | 1983 | 1984 | 1985 | 1986 | 1987 | 1988 | 1989 | 1990     | CAGR  | CAGR        |
|                              | STEE | 2222 | 2222 |      | 8223 | ===# | ***  | 2222 | 4552 | Timber 1 | ****  | *==#        |
| UNIT SHIPMENT DATA           |      |      |      |      |      |      |      |      |      |          |       |             |
| CPU Shipments                | 0    | 0    | 0    | 43   | 1    | 7.   | 15   | 22   | 20   | 12       | ERR   | 55 <b>x</b> |
| Total Workstation Shipments  | 0    | 0    | 0    | 43   | 1    | 7    | 15   | 22   | 20   | 12       | ERR   | 55%         |
| New Workstation Shipments    | 0    | 0    | 0    | 43   | 1    | 7    | 15   | 22   | 20   | 12       | ERR   | 55X         |
| Add-On Workstation Shipments | 0    | O    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0        | ERR   | ERR         |
| CPU Installed Base           | 0    | 0    | 0    | 43   | 45   | 52   | 67   | 89   | 108  | 120      | ERR   | 22%         |
| Workstation Installed Base   | 0    | 0    | 0    | 43   | 45   | 52   | 67   | 89   | 108  | 120      | ERR   | 22%         |
| REVENUE DATA                 |      |      |      |      |      |      |      |      |      |          |       |             |
| CPU Revenue                  | MA   | NA   | MA   | AK   | 0    | 0    | 0    | 0    | 0    | 0        | NA    | 43%         |
| Workstation Revenue          | NA   | NA   | NA   | NA   | 0    | 0    | 0    | 0    | 0    | 0        | на    | 43%         |
| Software Revenue             | NA   | NA   | HA   | NA   | 0    | 0    | 0    | 0    | 0    | 0        | NA    | ERR         |
| Peripheral Revenue           | NA   | NA   | NA   | MA   | 0    | 0    | 0    | 0    | 0    | 0        | NA    | ERR         |
| Service Revenue              | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0        | ERR   | ERR         |
| Total Revenue                | 0    | 0    | 0    | 1    | 0    | 0    | 0    | 0    | 0    | 0        | ERR   | 82%         |
| Increase over prior year     | NA   | ERR  | ERR  | ERR  | -99% | 800% | 156% | 52%  | -3X  | -41%     |       |             |

Source: Dataquest June 1986 TABLE NUMBER: TITLE: A-4.26

CAD/CAM Kistory and Forecast

APPLICATION:

Integrated Circuit

REGION:

**Worldwide** 

PRODUCT TYPE:

Personal Computer

UNITS:

Millions of Dollars and Actual Units

|                              |      |      |      |      |      |      |      |      |       |       | 81-85 | 85+90       |
|------------------------------|------|------|------|------|------|------|------|------|-------|-------|-------|-------------|
|                              | 1981 | 1982 | 1983 | 1984 | 1985 | 1986 | 1987 | 1988 | 1989  | 1990  | CAGR  | CAGR        |
|                              | ***  | 2255 | **** |      | ==== | ==== | *=== | ==== |       | 2232  | 2522  | ****        |
| UNIT SHIPMENT DATA           |      |      |      |      |      |      |      |      |       |       |       |             |
| CPU Shipments                | 0    | 0    | 0    | 28   | 106  | 189  | 235  | 330  | 395   | 462   | ERR   | 34%         |
| Total Workstation Shipments  | 0    | 0    | 0    | 28   | 106  | 189  | 235  | 330  | 395   | 462   | ERR   | 34X         |
| New Workstation Shipments    | 0    | 0    | 0    | 28   | 106  | 189  | 235  | 330  | 395   | 462   | ERR   | 34X         |
| Add-On Workstation Shipments | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0     | 0     | ERR   | ERR         |
| CPU Installed Base           | 0    | 0    | 0    | 28   | 140  | 329  | 565  | 895  | 1,290 | 1,751 | ERR   | 66 <b>X</b> |
| Workstation Installed Base   | 0    | 0    | 0    | 26   | 140  | 329  | 565  | 895  | 1,290 | 1,751 | ERR   | 66%         |
| REVENUE DATA                 |      |      |      |      |      |      |      |      |       |       |       |             |
| CPU Revenue                  | NA   | MA   | NA   | NA   | 0    | 1    | 1    | 2    | 2     | 2     | HA    | 28%         |
| Workstation Revenue          | HA   | MA   | NA   | NA   | 0    | 1    | 1    | 2    | 2     | 2     | NA    | 28%         |
| Software Revenue             | HA   | HA   | NA   | NA   | 1    | 2    | 2    | 3    | 4     | 4     | HA    | 36%         |
| Peripheral Revenue           | NA   | MA   | NA   | NA   | 0    | 0    | 0    | 1    | 1     | 1     | NA    | 32%         |
| Service Revenue              | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0     | 0     | ERR   | 32%         |
| Total Revenue                | 0    | 0    | 0    | 1    | 2    | 5    | 5    | 7    | 8     | 8     | ERR   | 32%         |
| Increase over prior year     | NA   | ERR  | ERR  | ERR  | 109% | 121% | 17%  | 31X  | 10%   | 7%    |       |             |

Source: Dataquest

June 1986

**Personal** 

Computer

A-4.27

TITLE:

CAD/CAM History and Forecast

APPLICATION:

Integrated Circuit

REGION:

North America

PRODUCT TYPE:

Personal Computer

UNITS:

Millions of Dollars and Actual Units

|      |   |                                       |                                       |                                       |  |   |   |   |   | 81 - 85   | 85-90  |
|------|---|---------------------------------------|---------------------------------------|---------------------------------------|--|---|---|---|---|---|--|
| 1981 | 1982  | 1983                                  | 1984                                  | 1985                                  | 1986   | 1987  | 1988  | 1989  | 1990  | CAGR  | CAGR   |
| ***  | ****  | ====                                  |                                       | ****                                  | ****   | ****  | ****  | 2222  |   | <b>=342</b>   | sail 1   |
|      |   |                                       |                                       |                                       |  |   |   |   |   |   |  |
| 0    | 0   | 0                                     | 0                                     | 58                                    | 118  | 138   | 199   | 237   | 275   | ERR   | 36%  |
| 0    | 0   | 0                                     | 0                                     | 58                                    | 118  | 138   | 199   | 237   | 275   | ERR   | 36%  |
| 0    | 0   | 0                                     | 0                                     | 58                                    | 118  | 138   | 199   | 237   | 275   | ERR   | 36%  |
| 0    | 0   | 0                                     | 0                                     | 0                                     | 0  | 0   | 0   | 0   | 0   | ERR   | ERR  |
| 0    | 0   | 0                                     | 0                                     | 58                                    | 176  | 314   | 513   | 750   | 1,025   | ERR   | 78%  |
| 0    | 0   | 0                                     | 0                                     | 58                                    | 176  | 314   | 513   | 750   | 1,025   | ERR   | 78%  |
|      |   |                                       |                                       |                                       |  |   |   |   |   |   |  |
| NA   | NA  | #A                                    | NA                                    | 0                                     | 1  | 1   | 1   | 1   | 1   | NA  | 29%  |
| NA   | MA  | NA                                    | NA                                    | 0                                     | 1  | 1   | 1   | 1   | 1   | NA  | 29%  |
| RA   | MA  | NA                                    | NA                                    | 0                                     | t  | 1   | 2   | 2   | 2   | NA  | 93%  |
| WA   | MA  | NA                                    | NA                                    | 0                                     | 0  | 0   | 0   | 0   | 0   | NA  | 54X  |
| 0    | 0   | 0                                     | 0                                     | 0                                     | 0  | 0   | 0   | 0   | 0   | ERR   | 64%  |
| 0    | 0   | 0                                     | 0                                     | 1                                     | 3  | 3   | 4   | 5   | 5   | ERR   | 48%  |
| NA   | ERR   | ERR                                   | ERR                                   | ERR                                   | 314%   | 11%   | 34%   | 10%   | 6%  |   |  |
|      | 0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0 | 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | 0 0 0 0 0 58 0 0 0 0 0 58 0 0 0 0 0 58 0 0 0 0 0 58 0 0 0 0 0 58 0 0 0 0 0 58 0 0 0 0 0 58 0 0 0 0 0 58 0 0 0 0 0 0 58 | 0 0 0 0 0 58 118 0 0 0 0 0 58 118 0 0 0 0 0 58 118 0 0 0 0 0 58 118 0 0 0 0 0 0 58 118 0 0 0 0 0 58 176 0 0 0 0 0 58 176  NA NA NA NA NA 0 1 NA MA NA NA 0 1 NA NA NA NA 0 1 NA NA NA NA NA 0 1 | 0 0 0 0 0 58 118 138 0 0 0 0 0 58 118 138 0 0 0 0 0 58 118 138 0 0 0 0 0 0 58 118 138 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | 0 0 0 0 0 58 118 138 199 0 0 0 0 0 58 118 138 199 0 0 0 0 0 58 118 138 199 0 0 0 0 0 58 118 138 199 0 0 0 0 0 0 58 118 138 199 0 0 0 0 0 0 58 176 314 513 0 0 0 0 0 58 176 314 513  NA NA NA NA NA 0 1 1 1 1 NA MA NA NA NA 0 1 1 1 1 NA MA NA NA NA 0 1 1 1 2 NA MA NA NA NA 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | 0 0 0 0 0 58 118 138 199 237 0 0 0 0 0 58 118 138 199 237 0 0 0 0 0 58 118 138 199 237 0 0 0 0 0 58 118 138 199 237 0 0 0 0 0 0 58 118 138 199 237 0 0 0 0 0 0 58 176 314 513 750 0 0 0 0 0 58 176 314 513 750  NA NA NA NA NA 0 1 1 1 1 1 1 NA NA NA NA NA 0 1 1 1 1 1 1 NA NA NA NA NA 0 1 1 1 2 2 NA NA NA NA NA 0 | 0 0 0 0 0 58 118 138 199 237 275 0 0 0 0 0 58 118 138 199 237 275 0 0 0 0 0 58 118 138 199 237 275 0 0 0 0 0 58 118 138 199 237 275 0 0 0 0 0 0 58 118 138 199 237 275 0 0 0 0 0 0 58 176 314 513 750 1,025 0 0 0 0 58 176 314 513 750 1,025 0 0 0 0 0 58 176 314 513 750 1,025  NA NA NA NA NA 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | 1981 1982 1983 1984 1985 1986 1987 1988 1989 1990 CAGR |

Source: Dataquest June 1986

A-4.28

TITLE:

CAD/CAM History and Forecast

APPLICATION:

Integrated Circuit

REGION:

Europe

PRODUCT TYPE:

Personal Computer

UNITS:

Millions of Dollars and Actual Units

|                              |      |      |      |      |      |      |      |      |      |      | 81-85 | 85-90 |
|------------------------------|------|------|------|------|------|------|------|------|------|------|-------|-------|
|                              | 1981 | 1982 | 1983 | 1984 | 1985 | 1986 | 1987 | 1988 | 1989 | 1990 | CAGR  | ÇAGR  |
|                              | **** | **** | **** | 2322 | 2222 | 2222 | 2222 | 2222 | 2222 | ***  | 2228  | 2227  |
| UNIT SHIPHERT DATA           |      |      |      |      |      |      |      |      |      |      |       |       |
| CPU Shipments                | 0    | 0    | 0    | 0    | 40   | 53   | 71   | 94   | 103  | 103  | ERR   | 21%   |
| Total Workstation Shipments  | 0    | 0    | 0    | 0    | 40   | 53   | 71   | 94   | 103  | 103  | ERR   | 21%   |
| New Workstation Shipments    | 0    | 0    | 0    | 0    | 40   | 53   | 71   | 94   | 103  | 103  | ERR   | 21%   |
| Add-On Workstation Shipments | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | ERR   | ERR   |
| CPU installed Base           | 0    | 0    | 0    | 0    | 40   | 92   | 164  | 258  | 361  | 464  | ERR   | 64%   |
| Workstation Installed Base   | 0    | 0    | 0    | 0    | 40   | 92   | 164  | 258  | 361  | 464  | ERR   | 64%   |
| REVENUE DATA                 |      |      |      |      |      |      |      |      |      |      |       |       |
| CPU Revenue                  | MA   | NA   | NA   | NA   | 0    | 0    | 0    | 0    | 0    | 0    | NA    | 25%   |
| Workstation Revenue          | NA   | MA   | NA.  | HA   | 0    | 0    | 0    | 0    | 0    | 0    | NA    | 25%   |
| Software Revenue             | NA   | MA   | NA   | AK   | 1    | 1    | 1    | 1    | 1    | 1    | MA    | 6X    |
| Peripheral Revenue           | MA   | NA   | NA   | NA   | 0    | 0    | 0    | 0    | 0    | 0    | NA    | 10%   |
| Service Revenue              | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | ERR   | 2%    |
| Total Revenue                | 0    | 0    | 0    | 0    | 1    | 1    | 2    | 2    | 2    | 2    | ERR   | 12X   |
| Increase over prior year     | NA   | ERR  | ERR  | ERR  | ERR  | 22%  | 26%  | 24%  | 0%   | -9%  |       |       |

Source: Dataquest June 1986 **Personal** 

Computer

A-4.29

TITLE:

CAD/CAM History and Forecast

APPLICATION:

Integrated Circuit

REGION:

Far East

PRODUCT TYPE:

Personal Computer

UNITS:

Millions of Dollars and Actual Units

|                              |      |      |      |      |      |      |      |      |      |      | 81-85 | 85-90 |  |
|------------------------------|------|------|------|------|------|------|------|------|------|------|-------|-------|--|
|                              | 1981 | 1982 | 1983 | 1984 | 1985 | 1986 | 1987 | 1988 | 1989 | 1990 | ÇAGR  | CAGR  |  |
|                              | ***  | ***  | 2442 | 2572 | 2223 | **** | 2222 | 2322 | **** | 2222 | ***   | 2222  |  |
| UNIT SHIPMENT DATA           |      |      |      |      |      |      |      |      |      |      |       |       |  |
| CPU Shipments                | 0    | 0    | 0    | 26   | 7    | 16   | 23   | 32   | 48   | 74   | ERR   | 63%   |  |
| Total Workstation Shipments  | 0    | 0    | 0    | 28   | 7    | 16   | 23   | 32   | 48   | 74   | ERR   | 63%   |  |
| New Workstation Shipments    | 0    | 0    | 0    | 28   | 7    | 16   | 23   | 32   | 48   | 74   | ERR   | 63%   |  |
| Add-On Workstetion Shipments | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | ERR   | ERR   |  |
| CPU Installed Base           | 0    | Ò    | 0    | 28   | 35   | 51   | 74   | 106  | 155  | 229  | ERR   | 46%   |  |
| Workstation Installed Base   | 0    | 0    | 0    | 28   | 35   | 51   | 74   | 106  | 155  | 229  | ERR   | 46%   |  |
| REVENUE DATA                 |      |      |      |      |      |      |      |      |      |      |       |       |  |
| CPU Revenue                  | NA   | MA   | MA   | NA   | 0    | 0    | 0    | 0    | 0    | 0    | NA    | 34%   |  |
| <b>Vorkstation Revenue</b>   | NA   | NA   | HA   | MA   | 0    | 0    | 0    | 0    | 0    | 0    | KA    | 34×   |  |
| Software Revenue             | XA   | NA   | MA   | MA   | 0    | 0    | 0    | 0    | 0    | 1    | MA    | 46%   |  |
| Peripheral Revenue           | MA   | NA   | KA   | MA   | 0    | 0    | 0    | 0    | 0    | 0    | NA    | 27%   |  |
| Service Revenue              | 0    | 0    | 0    | .O   | 0    | 0    | 0    | 0    | 0    | 0    | ERR   | ERR   |  |
| Total Revenue                | 0    | 0    | 0    | 1    | Ó    | 0    | 1    | 1    | 1    | 1    | ERR   | 38X   |  |
| Increase over prior year     | HA   | ERR  | ERR  | ERR  | -73% | 52%  | 24%  | 35X  | 39%  | 41X  |       |       |  |

Source: Dataquest

TITLE: CAD/CAM History and Forecast

APPLICATION: Integrated Circuit
REGION: Rest of World
PRODUCT TYPE: Personal Computer

UNITS: Millions of Dollars and Actual Units

|                                  |      |      |      |      |      |      |      |      |      |      | 81-85 | 85-90      |
|----------------------------------|------|------|------|------|------|------|------|------|------|------|-------|------------|
|                                  | 1981 | 1982 | 1983 | 1984 | 1985 | 1986 | 1987 | 1988 | 1989 | 1990 | CAGR  | CAGR       |
|                                  | **** | **** | **** | 2228 | **** | 2222 | **** | 2222 | **** |      | -     | 2222       |
| UNIT SHIPMENT DATA               |      |      |      |      |      |      |      |      |      |      |       |            |
| CPU Shipments                    | 0    | 0    | 0    | 0    | 1    | 2    | 3    | 4    | 7    | 10   | ERR   | 48%        |
| Total Workstation Shipments      | 0    | 0    | 0    | 0    | 1    | 2    | 3    | 4    | 7    | 10   | ERR   | 48%        |
| <b>New Workstation Shipments</b> | 0    | 0    | 0    | 0    | 1    | 2    | 3    | 4    | 7    | 10   | ERR   | 48X        |
| Add-On Workstation Shipments     | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | ERR   | ERR        |
| CPU Installed Base               | 0    | 0    | 0    | 0    | 8    | 10   | 13   | 17   | 24   | 34   | ERR   | 35X        |
| Workstation Installed Base       | 0    | 0    | 0    | 0    | 8    | 10   | 13   | 17   | 24   | 34   | ERR   | 35%        |
| REVENUE DATA                     |      |      |      |      |      |      |      |      |      |      |       |            |
| CPU Revenue                      | MA   | MA   | MA   | NA   | 0    | 0    | 0    | 0    | 0    | 0    | NA    | 6 <b>X</b> |
| Morkstation Revenue              | HA   | NA   | MA   | NA   | 0    | 0    | 0    | 0    | 0    | 0    | NA    | 6%         |
| Software Revenue                 | NA   | NA   | HA   | NA   | 0    | 0    | 0    | 0    | 0    | 0    | NA    | ERR        |
| Peripheral Revenue               | NA   | NA   | NA   | NA   | 0    | 0    | 0    | 0    | 0    | 0    | NA    | ERR        |
| Service Revenue                  | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | ERR   | ERR        |
| Yotal Revenue                    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | ERR   | 21%        |
| Increase over prior year         | NA   | ERR  | ERR  | ERR  | ERR  | -29% | 40%  | 29%  | 44%  | 38X  |       | 3          |

Source: Dataquest June 1986 All Personal

Computer Products

TITLE: CAD/CAM History and Forecast

APPLICATION: Printed Circuit Board

REGION: Worldwide

PRODUCT TYPE: Personal Computer

UNITS: Millions of Dollars and Actual Units

|                              |      |      |      |      |              |       |       |        |        |              | 81-85 | <b>8</b> 5+90 |
|------------------------------|------|------|------|------|--------------|-------|-------|--------|--------|--------------|-------|---------------|
|                              | 1981 | 1982 | 1983 | 1984 | 1985         | 1986  | 1987  | 1988   | 1989   | 1990         | CAGR  | CAGR          |
|                              | 2222 | **** | ***  | 3222 | 222 <b>2</b> | 2222  |       |        | 2222   | ****         | ****  |               |
| UNIT SHIPMENT DATA           |      |      |      |      |              |       |       |        |        |              |       |               |
| CPU Shipments                | 0    | 0    | 0    | 951  | 2,100        | 2,622 | 2,816 | 2,639  | 2,311  | 2,066        | ERR   | -0%           |
| Total Workstation Shipments  | 0    | 0    | 0    | 951  | 2,100        | 2,622 | 2,816 | 2,639  | 2,311  | 2,066        | ERR   | -0%           |
| New Workstation Shipments    | 0    | 0    | 0    | 951  | 2,100        | 2,622 | 2,816 | 2,639  | 2,311  | 2,066        | ERR   | -0%           |
| Add-On Workstation Shipments | Ó    | 0    | 0    | 0    | 0            | 0     | 0     | 0      | 0      | 0            | ERR   | ERR           |
| CPU Installed Base           | 0    | 0    | 0    | 951  | 3,051        | 5,673 | 8,490 | 11,128 | 13,439 | 15,505       | ERR   | 38%           |
| Workstation Installed Base   | 0    | 0    | 0    | 951  | 3,051        | 5,673 | 8,490 | 11,128 | 13,439 | 15,505       | ERR   | 38%           |
| MÉVENUE DATA                 |      |      |      |      |              |       |       |        |        |              |       |               |
| CPU Revenue                  | MA   | NA   | NA   | NA   | 8            | 8     | 8     | 7      | 6      | 5            | NA    | -11%          |
| Workstation Revenue          | NA   | NA   | MA   | NA   | 8            | 8     | 8     | 7      | 6      | 5            | MA    | -11%          |
| Software Revenue             | NA   | MA   | NA   | MA   | 28           | 31    | 34    | 33     | 30     | 28           | MA    | -0%           |
| Peripheral Revenue           | NA   | NA   | NA   | NA   | 2            | 2     | 2     | 2      | 1      | 1            | MA    | -16%          |
| Service Revenue              | 0    | 0    | 0    | 1    | 1            | 1     | 1     | 1      | 1      | 1            | ERR   | -4%           |
| Total Revenue                | 0    | 0    | 0    | 15   | 47           | 50    | 53    | 50     | 43     | 38           | ERR   | -4%           |
| Increase over prior year     | NA   | ERR  | ERR  | ERR  | 203%         | 7%    | 7%    | -7%    | -13%   | -12 <b>X</b> |       |               |

Source: Dataquest June 1986 All Personal

Computer

TITLE: CAD/CAM History and Forecast

APPLICATION: Printed Circuit Board

REGION: North America
PRODUCT TYPE: Personal Computer

UNITS: Millions of Dollars and Actual Units

|                              |      |      |      |      |       |       |       |       |       |       | 81-85 | 85-90 |
|------------------------------|------|------|------|------|-------|-------|-------|-------|-------|-------|-------|-------|
|                              | 1981 | 1982 | 1983 | 1984 | 1985  | 1986  | 1987  | 1988  | 1989  | 1990  | CAGR  | CAGR  |
|                              | 2222 | 2222 | **** | 2222 | 2322  | ***   | 2222  | ***   |       | *===  | 2222  | ****  |
| UNIT SHIPMENT DATA           |      |      |      |      |       |       |       |       |       |       |       |       |
| CPU Shipments                | 0    | 0    | 0    | 517  | 944   | 1,259 | 1,309 | 1,136 | 885   | 773   | ERR   | -4%   |
| Total Workstation Shipments  | 0    | 0    | 0    | 517  | 944   | 1,259 | 1,309 | 1,136 | 885   | 773   | ERR   | -4%   |
| New Workstation Shipments    | 0    | 0    | 0    | 517  | 944   | 1,259 | 1,309 | 1,136 | 885   | 773   | ERR   | -4%   |
| Add-On Workstation Shipments | 0    | 0    | 0    | 0    | 0     | 0     | 0     | 0     | 0     | 0     | ERR   | ERR   |
| CPU Installed Base           | 0    | 0    | 0    | 517  | 1,461 | 2,720 | 4,029 | 5,166 | 6,051 | 6,824 | ERR   | 36%   |
| Workstation Installed Base   | 0    | 0    | ¢    | 517  | 1,461 | 2,720 | 4,029 | 5,166 | 6,051 | 6,824 | ERR   | 36%   |
| REVENUE DATA                 |      |      |      |      |       |       |       |       |       |       |       |       |
| CPU Revenue                  | NA   | NA   | AK   | NA   | 4     | 4     | 4     | 3     | 2     | 2     | MA    | -17X  |
| Workstation Revenue          | NA   | NA   | NA   | NA   | 4     | 4     | 4     | 3     | 2     | 2     | MA    | -17%  |
| Software Revenue             | NA   | NA   | NA   | MA   | 13    | 15    | 16    | 14    | 11    | 10    | NA    | -4%   |
| Peripheral Revenue           | MA   | MA   | NA   | MA   | 1     | 1     | 1     | 1     | 1     | 0     | NA    | -10%  |
| Service Revenue              | 0    | 0    | 0    | 0    | 0     | 0     | 0     | 0     | 0     | 0     | ERR   | -12%  |
| Total Revenue                | 0    | 0    | 0    | 8    | 22    | 24    | 25    | 21    | 17    | 14    | ERR   | -9%   |
| Increase over prior year     | KA   | ERR  | ERR  | ERR  | 177%  | 8%    | 4%    | -14%  | ·23X  | -14%  |       |       |

Source: Dataquest

June 1986

Personal

Computer

Personal

Computer

**Products** 

TABLE NUMBER: A-4.33

TITLE: CAD/CAM History and Forecast

APPLICATION: Printed Circuit Board

REGION: Europe

PRODUCT TYPE: Personal Computer

UNITS: Millions of Dollars and Actual Units

|                              |      |      |      |      |      |       |       |       |       |       | 81-85 | 85-90 |
|------------------------------|------|------|------|------|------|-------|-------|-------|-------|-------|-------|-------|
|                              | 1981 | 1982 | 1983 | 1984 | 1985 | 1986  | 1987  | 1988  | 1989  | 1990  | CAGR  | CAGR  |
|                              |      |      | 6222 | ==== | 2223 | ward  | 2277  | 2222  | 2222  | 2222  | ****  | 2222  |
| UNIT SHIPMENT DATA           |      |      |      |      |      |       |       |       |       |       |       |       |
| CPU Shipments                | 0    | 0    | 0    | 117  | 706  | 848   | 890   | 805   | 706   | 617   | ERR   | ·3X   |
| Total Workstation Shipments  | 0    | 0    | 0    | 117  | 706  | 848   | 890   | 805   | 706   | 617   | ERR   | -3%   |
| New Workstation Shipments    | 0    | 0    | Ò    | 117  | 706  | 848   | 890   | 805   | 706   | 617   | ERR   | -3%   |
| Add-On Workstation Shipments | 0    | 0    | 0    | 0    | 0    | 0     | 0     | 0     | 0     | 0     | ERR   | ERR   |
| CPU Installed Base           | 0    | 0    | 0    | 117  | 824  | 1,672 | 2,562 | 3,368 | 4,074 | 4,691 | ERR   | 42%   |
| Workstation Installed Base   | 0    | 0    | 0    | 117  | 824  | 1,672 | 2,562 | 3,368 | 4,074 | 4,691 | ERR   | 42%   |
| REVENUE DATA                 |      |      |      |      |      |       |       |       |       |       |       |       |
| CPU Revenue                  | HA   | MA   | NA   | WA   | 2    | 3     | 3     | 2     | 2     | 1     | MA    | -9%   |
| Workstation Revenue          | NA   | NA   | NA   | MA   | 2    | 3     | 3     | 2     | 2     | 1     | NA    | -9%   |
| Şoftware R <b>evenue</b>     | NA   | MA   | HA   | NA   | 11   | 10    | 11    | 10    | 9     | 8     | AN    | -6%   |
| Peripheral Revenue           | KA   | KA   | NA   | MA   | 1    | 1     | 1     | 1     | 0     | 0     | MA    | -24%  |
| Service Revenue              | 0    | 0    | 0    | 0    | 0    | 0     | 0     | 0     | 0     | 0     | ERR   | -8%   |
| Total Revenue                | 0    | 0    | 0    | 2    | 17   | 16    | 17    | 15    | 13    | 11    | ERR   | -8%   |
| Increase over prior year     | KA   | ERR  | ERR  | ERR  | 740% | -4%   | 5%    | -10%  | -13%  | -14%  |       |       |

Source: Dataquest June 1986

A-4.34

TITLE:

CAD/CAN History and Forecast

APPLICATION:

Printed Circuit Board

REGION:

Far East

PRODUCT TYPE:

Personal Computer

UNITS:

Millions of Dollars and Actual Units

|                              |      |      |      |      |      |       |       |       |       |       | 81-85 | 85.90 |
|------------------------------|------|------|------|------|------|-------|-------|-------|-------|-------|-------|-------|
|                              | 1981 | 1982 | 1983 | 1984 | 1985 | 1986  | 1987  | 1988  | 1989  | 1990  | CAGR  | CAGR  |
|                              | 2522 | 2222 | 2222 | E223 | ***  | ***   |       |       | ****  | ****  | 2222  | ***   |
| UNIT SHIPMENT DATA           |      |      |      |      |      |       |       |       |       |       |       |       |
| CPU Shipments                | 0    | 0    | 0    | 294  | 440  | 498   | 597   | 673   | 691   | 643   | ERR   | 8%    |
| Total Workstation Shipments  | 0    | 0    | 0    | 294  | 440  | 498   | 597   | 673   | 691   | 643   | ERR   | 8%    |
| New Workstation Shipments    | 0    | 0    | 0    | 294  | 440  | 498   | 597   | 673   | 691   | 643   | ERR   | 8%    |
| Add-On Workstation Shipments | 0    | 0    | 0    | 0    | 0    | 0     | 0     | 0     | 0     | 0     | ERR   | ERR   |
| CPU Installed Base           | 0    | 0    | 0    | 294  | 733  | 1,231 | 1,828 | 2,501 | 3,192 | 3,835 | ERR   | 39%   |
| Workstation Installed Base   | 0    | 0    | 0    | 294  | 733  | 1,231 | 1,828 | 2,501 | 3,192 | 3,835 | ERR   | 39%   |
| REVENUE DATA                 |      |      |      |      |      |       |       |       |       |       |       |       |
| CPU Revenue                  | NA   | MA   | MA   | NA   | 1    | 2     | 2     | 2     | 2     | 1     | MA    | 1%    |
| Morkstation Revenue          | NA   | MA   | NA   | NA   | 1    | 2     | 2     | 2     | 2     | 1     | MA    | 1%    |
| Software Revenue             | NA   | NA   | NA   | NA   | 4    | 6     | 7     | 8     | 9     | 9     | MA    | 16X   |
| Peripheral Revenue           | NA   | NA   | NA   | NA   | 1    | 0     | 0     | 0     | 0     | 0     | NA    | ·14X  |
| Service Revenue              | 0    | 0    | 0    | 0    | 0    | 0     | 0     | 0     | 0     | 0     | ERR   | 45X   |
| Total Revenue                | 0    | 0    | 0    | 5    | 7    | 9     | 11    | 13    | 13    | 12    | ERR   | 10%   |
| Increase over prior year     | AK   | ERR  | ERR  | ERR  | 47%  | 28%   | 20%   | 12%   | 2%    | -8%   |       |       |

Source: Dataquest

June 1986

Personal Computer

A-4.35

TITLE:

CAD/CAM History and Forecast

APPLICATION:

Printed Circuit Board

REGION:

Rest of World

PRODUCT TYPE:

Personal Computer

UNITS:

Millions of Dollars and Actual Units

|                              |      |      |      |              |       |      |      |            |      |                | 81-85 | 85-90 |
|------------------------------|------|------|------|--------------|-------|------|------|------------|------|----------------|-------|-------|
|                              | 1981 | 1982 | 1983 | 1984         | 1965  | 1986 | 1987 | 1988       | 1989 | 1990           | CAGR  | CAGR  |
|                              | ***  | ==== | F=== | <b>EXE</b> 2 | التحن |      |      | · ministra | **** | <b>Windles</b> | ***   | 2252  |
| UNIT SHIPMENT DATA           |      |      |      |              |       |      |      |            |      |                |       |       |
| CPU Shipments                | 0    | 0    | 0    | 23           | 9     | 17   | 20   | 24         | 28   | 33             | ERR   | 28%   |
| Total Workstation Shipments  | . 0  | 0    | 0    | 23           | 9     | 17   | 20   | 24         | 28   | 33             | ERR   | 28X   |
| New Workstation Shipments    | 0    | 0    | 0    | 23           | 9     | 17   | 20   | 24         | 28   | 33             | ERR   | 28%   |
| Add-On Workstation Shipments | 0    | 0    | 0    | 0            | 0     | 0    | 0    | 0          | 0    | 0              | ERR   | ERR   |
| CPU Installed Base           | 0    | 0    | 0    | 23           | 33    | 50   | 70   | 94         | 123  | 155            | ERR   | 36X   |
| Workstation Installed Base   | 0    | 0    | 0    | 23           | 33    | 50   | 70   | 94         | 123  | 155            | ERR   | 36%   |
| REVENUE DATA                 |      |      |      |              |       |      |      |            |      |                |       |       |
| CPU Revenue                  | NA   | MA   | NA   | NA           | 0     | 0    | 0    | 0          | 0    | 0              | HA    | 12%   |
| Workstation Revenue          | MA   | NA   | MA   | NA           | 0     | 0    | 0    | 0          | 0    | 0              | MA    | 12%   |
| Software Revenue             | MA   | NA   | NA   | NA           | 0     | 0    | 0    | 0          | 0    | 0              | MA    | 18%   |
| Peripheral Revenue           | HA   | WA   | NA   | NA           | 0     | 0    | 0    | 0          | 0    | 0              | NA    | 15%   |
| Service Revenue              | 0    | 0    | 0    | 0            | 0     | 0    | 0    | 0          | 0    | 0              | ERR   | ERR   |
| Total Revenue                | 0    | 0    | 0    | 0            | 0     | 0    | 0    | 0          | 1    | 1              | ERR   | 16X   |
| Increase over prior year     | MA   | ERR  | ERR  | ERR          | -28%  | 10%  | 22%  | 18%        | 15%  | 15%            |       |       |

Source: Dataquest

Appendix B Market Share

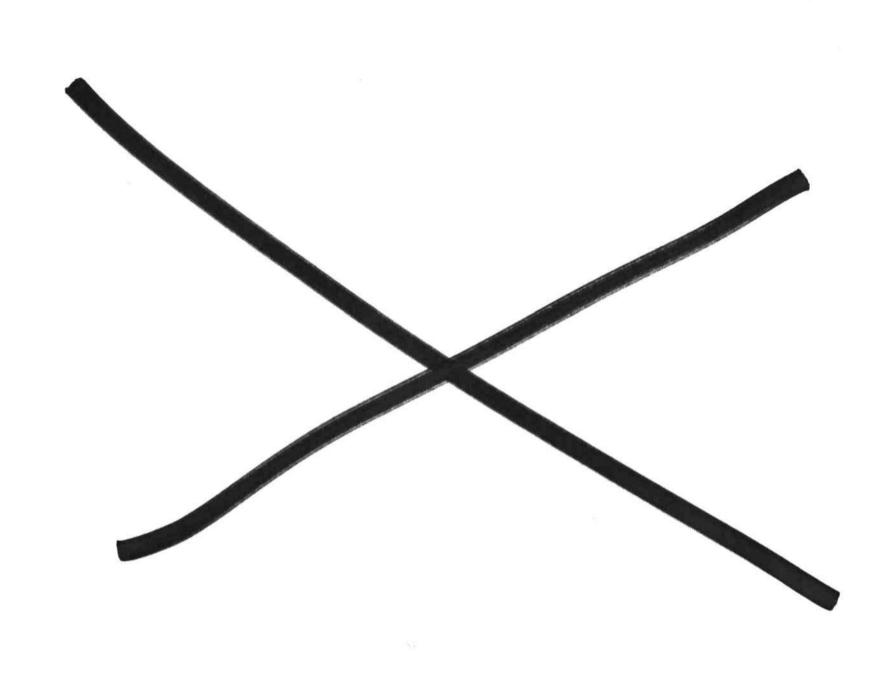


TABLE NUMBER:

B-1.7

TITLE:

1985 Market Share

APPLICATION:

AEC

PRODUCT TYPE:

All Product Types

MEASUREMENT:

Total Revenue

|                            | Measure | Share  |
|----------------------------|---------|--------|
|                            | *****   | 22221  |
| Applicon                   | \$23    | 3.1%   |
| Auto-Trol                  | 33      | 4.4%   |
| Autodesk                   | 14      | 1.9%   |
| Calcomp                    | 33      | 4.4%   |
| Celma                      | 37      | 4.9%   |
| Computervision             | 49      | 6.5%   |
| Control Data               | 5       | .6%    |
| Ferranti                   | 1       | .1%    |
| Hewlett-Packard            | 10      | 1.3%   |
| Holguin-CAD                | 38      | 5.0X   |
| IBM                        | 35      | 4.7%   |
| Intergraph                 | 204     | 27.4%  |
| Matra Datavision           | 1       | .1%    |
| McAuto                     | 30      | 4.0%   |
| MacNeal Schwendler         | 1       | .1%    |
| Prime                      | 28      | 3.8%   |
| SDRC                       | 2       | .2%    |
| Other Computer Companies   | 63      | 8.5%   |
| Other Europe Companies     | 32      | 4.3%   |
| Other Far East Companies   | 77      | 10.3%  |
| Other Turnkey and Software | 32      | 4.2%   |
| Att Companies              | \$746   | 100.0% |

Source: Dataquest

TABLE NUMBER:

8-1.8

TITLE:

1985 Market Share

APPLICATION:

AEC

PRODUCT TYPE: MEASUREMENT:

All Product Types

Workstation Shipments

|                            | Measure | Share  |
|----------------------------|---------|--------|
|                            | 2227365 | *****  |
| Applicon                   | 372     | 1.9%   |
| Auto-Trol                  | 264     | 1.4%   |
| Calcomp                    | 277     | 1.4%   |
| Calma                      | 277     | 1.4%   |
| Computervision             | 555     | 2.9%   |
| Control Data               | 111     | .6%    |
| Ferranti                   | 3       | .0%    |
| Hewlett-Packard            | 161     | .8%    |
| Holguin-CAD                | 377     | 1.9%   |
| TBM                        | 534     | 2.8%   |
| Intergraph                 | 2,000   | 10.3%  |
| Matra Datavision           | 8       | .0%    |
| McAuto                     | 449     | 2.3%   |
| Prime                      | 249     | 1.3%   |
| Other Computer Companies   | 10,766  | 55.6%  |
| Other Europe Companies     | 1,495   | 7.7%   |
| Other Far East Companies   | 955     | 4.9%   |
| Other Turnkey and Software | 508     | 2.6%   |
| All Companies              | 19,360  | 100.0% |

Source: Dataquest

TABLE NUMBER:

B-1.9

TITLE:

1985 Market Share

APPLICATION:

AEC

PRODUCT TYPE:

All Product Types

MEASUREMENT:

Workstation Installed Base

|                            | Measure | Share  |
|----------------------------|---------|--------|
|                            | ERNESTE | 32257  |
| Applicon                   | 1,548   | 5.6%   |
| Auto-Trol                  | 1,605   | 5.8%   |
| Calcomp                    | 277     | 1.0%   |
| Calma                      | 843     | 3.1%   |
| Computervision             | 1,730   | 6.3%   |
| Control Data               | 111     | .4%    |
| Ferranti                   | 3       | .0%    |
| Hewlett-Packard            | 161     | .6%    |
| 18M                        | 626     | 2.3%   |
| Intergraph                 | 5,278   | 19.2%  |
| Matra Datavision           | 8       | .0%    |
| McAuto                     | 655     | 2.4%   |
| Prime                      | 710     | 2.6%   |
| Other Computer Companies   | 10,766  | 39.2%  |
| Other Europe Companies     | 1,495   | 5.4%   |
| Other Far East Companies   | 1,145   | 4.2%   |
| Other Turnkey and Software | 508     | 1.8%   |
| All Companies              | 27,467  | 100.0% |

Source: Dataquest

TABLE NUMBER:

B-1.10

TITLE:

1985 Market Share

APPLICATION:

Mapping

PRODUCT TYPE:

All Product Types

MEASUREMENT:

Total Revenue

|                            | Measure | Share  |
|----------------------------|---------|--------|
|                            | 222222  | 22222  |
| Autodesk                   | 1       | .6%    |
| Calcomp                    | 1       | .3%    |
| Computervision             | 4       | 2.0%   |
| IBM                        | 26      | 11.9%  |
| Intergraph                 | 135     | 61.2X  |
| SDRC                       | 1       | .3%    |
| Synercom                   | 17      | 7.7%   |
| Other Computer Companies   | 1       | .4%    |
| Other Europe Companies     | 22      | 9.9%   |
| Other far East Companies   | 12      | 5.5%   |
| Other Turnkey and Software | 1       | .2%    |
| All Companies              | \$220   | 100.8% |

Source: Dataquest

TABLE NUMBER:

B-1.11

TITLE:

1985 Market Share

APPLICATION:

Mapping

PRODUCT TYPE:

All Product Types

MEASUREMENT:

Workstation Shipments

|                            | Measure | Share  |
|----------------------------|---------|--------|
|                            | ******  | HERRY  |
| Calcomp                    | 6       | .3%    |
| Computervision             | 43      | 2.2%   |
| IBM                        | 252     | 12.9%  |
| Intergraph                 | 1,302   | 66.9%  |
| Other Computer Companies   | 90      | 4.6%   |
| Other Europe Companies     | 150     | 7.7%   |
| Other Far East Companies   | 90      | 4.6%   |
| Other Turnkey and Software | 16      | .8%    |
| All Companies              | 1,947   | 100.0% |

Source: Dataquest

TABLE NUMBER:

B-1.12

TITLE:

1985 Market Share

APPLICATION:

Mapping

PRODUCT TYPE:

All Product Types

MEASUREMENT:

Workstation Installed Base

|                            | Measure | Share  |
|----------------------------|---------|--------|
|                            | 1857332 | ****   |
| Auto-Trol                  | 185     | 3.0%   |
| Calcomp                    | 6       | .1%    |
| Calma                      | 77      | 1.2%   |
| Computervision             | 622     | 10.1%  |
| IBM                        | 366     | 5.9%   |
| Intergraph                 | 4,522   | 73.2%  |
| Other Computer Companies   | 90      | 1.5%   |
| Other Europe Companies     | 150     | 2.4%   |
| Other Far East Companies   | 143     | 2.3%   |
| Other Turnkey and Software | 16      | .3%    |
| All Companies              | 6,176   | 100.0% |

Source: Datequest

TABLE NUMBER:

8-1.13

TITLE:

1985 Norket Share

APPLICATION:

PRODUCT TYPE:

All Product Types

MEASUREMENT:

Total Revenue

|                            | Measure | Share  |
|----------------------------|---------|--------|
|                            | ******  | ****   |
| Cadnetix                   | 8       | 1.4%   |
| Calma                      | 4       | .7%    |
| Computervision             | 13      | 2.5%   |
| Control Data               | 14      | 2.6X   |
| Daisy                      | 107     | 20.2%  |
| Futurenet                  | 20      | 3.7%   |
| Mentor                     | 127     | 23.9%  |
| Recat - Redac              | 1       | .2%    |
| Silver·Lisco               | 11      | 2.1%   |
| Tektronix                  | 11      | 2.1%   |
| Telesis                    | 2       | .5%    |
| Valid                      | 49      | 9.2%   |
| Zycad                      | 26      | 4.9X   |
| Other Computer Companies   | 79      | 14.9%  |
| Other Europe Companies     | 10      | 1.9%   |
| Other Far East Companies   | 20      | 3.8%   |
| Other Turnkey and Software | 29      | 5.4%   |
| All Companies              | \$531   | 100.0% |

Source: Dataquest

TABLE NUMBER:

8-1.14

TITLE:

1985 Market Share

APPLICATION:

EDA

PRODUCT TYPE:

All Product Types

MEASUREMENT:

Workstation Shipments

|                            | Measure | Share  |
|----------------------------|---------|--------|
|                            | SEESSE  | 2222   |
| Cadnetix                   | 101     | .7%    |
| Calma                      | 31      | .2%    |
| Computervision             | 244     | 1.7%   |
| Control Data               | 131     | .9%    |
| Daisy                      | 1,691   | 12.0%  |
| Futurenet                  | 33      | .2%    |
| Mentor                     | 1,276   | 9.0%   |
| Racal-Redac                | 7       | .1%    |
| Tektronix                  | 208     | 1.5%   |
| Telesis                    | 29      | .2%    |
| Valid                      | 888     | 6.3%   |
| Other Computer Companies   | 8,785   | 62.2%  |
| Other Europe Companies     | 328     | 2.3X   |
| Other Far East Companies   | 322     | 2.3%   |
| Other Turnkey and Software | 39      | .3%    |
| All Companies              | 14,114  | 100.0% |

Source: Detaquest

TABLE NUMBER:

B-1.15

TITLE:

1985 Market Share

APPLICATION:

ON: f

PRODUCT TYPE:

All Product Types

MEASUREMENT:

Workstation Installed Base

|                            | Measure | Share  |
|----------------------------|---------|--------|
|                            | zażątze | ****   |
| Cednetix                   | 101     | .5%    |
| Calma                      | 71      | .4%    |
| Computervision             | 244     | 1.3%   |
| Control Data               | 222     | 1.2X   |
| Daisy                      | 3,398   | 17.9%  |
| Futurenet                  | 33      | .2X    |
| Mentor                     | 2,988   | 15.8%  |
| Racal-Redac                | 23      | .1%    |
| Tektronix                  | 208     | 1.1%   |
| Telesis                    | 29      | .2%    |
| Valid                      | 2,100   | 11.1%  |
| Other Computer Companies   | 8,785   | 46.4%  |
| Other Europe Companies     | 328     | 1.7%   |
| Other Far East Companies   | 382     | 2.0%   |
| Other Turnkey and Software | 39      | .2%    |
| All Companies              | 18,952  | 100.0% |

Source: Dataquest

TABLE NUMBER:

B-1.16

TITLE:

1985 Market Share

APPLICATION:

10

PRODUCT TYPE: MEASUREMENT:

All Product Types

Total Revenue

|                            | Measure | Share  |
|----------------------------|---------|--------|
|                            | 2722233 | ****   |
| Applicon                   | \$5     | 2.3%   |
| Calma                      | 55      | 27.7%  |
| Computervision             | 18      | 8.9%   |
| Control Data               | 5       | 2.3%   |
| Daisy                      | 27      | 13.6%  |
| Hentor                     | 10      | 5.0%   |
| Racal-Redac                | 1       | .3%    |
| Scientific Calculations    | 3       | 1.7%   |
| Silvar-Lisco               | 7       | 3.7%   |
| Tektronix                  | 3       | 1.6%   |
| Valid                      | 8       | 4.1%   |
| Other Computer Companies   | 1       | .3%    |
| Other Far East Companies   | 21      | 10.8%  |
| Other Turnkey and Software | 35      | 17.7%  |
| All Companies              | \$198   | 100.0% |

Source: Dataquest

TABLE NUMBER:

8-1.17

TITLE:

1985 Market Share

APPLICATION:

PRODUCT TYPE:

All Product Types

MEASUREMENT: Workstation Shipments

|                            | Measure | Share  |
|----------------------------|---------|--------|
|                            | *****   | -      |
| Applicon                   | 58      | 3.4X   |
| Cetma                      | 405     | 24.1%  |
| Computervision             | 150     | 8.9%   |
| Control Data               | 30      | 1.8X   |
| Daisy                      | 310     | 18.4%  |
| Hentor                     | 106     | 6.3%   |
| Recal-Redac                | 2       | .1%    |
| Scientific Calculations    | 73      | 4.3%   |
| Tektronix                  | 28      | 1.7%   |
| Valid                      | 102     | 6.1%   |
| Other Computer Companies   | 70      | 4.2%   |
| Other Far East Companies   | 178     | 10.6%  |
| Other Turnkey and Software | 169     | 10.1%  |
| All Companies              | 1,681   | 100.0% |

Source: Dataquest

TABLE NUMBER:

B-1.18

TITLE:

1985 Market Share

APPLICATION:

10

PRODUCT TYPE:

All Product Types

MEASUREMENT:

Workstation Installed Base

|                            | Measure | Share  |
|----------------------------|---------|--------|
| Applicon                   | 1,682   | 28.8%  |
| Calma                      | 2,227   | 38.2%  |
| Computervision             | 489     | 8.4%   |
| Control Data               | 95      | 1.6%   |
| Daisy                      | 495     | 8.5%   |
| Mentor                     | 124     | 2.1%   |
| Racal-Redac                | 2       | .0%    |
| Scientific Calculations    | 87      | 1.5%   |
| Tektronix                  | 28      | .5X    |
| Valid                      | 187     | 3.2%   |
| Other Computer Companies   | 70      | 1.2%   |
| Other Far East Companies   | 178     | 3.1%   |
| Other Turnkey and Software | 169     | 2.9%   |
| All Companies              | 5,833   | 100.0% |

Source: Dataquest June 1986

TABLE NUMBER:

B-1.19

(1)TE:

1985 Market Share

APPLICATION:

PRODUCT TYPE:

All Product Types

MEASUREMENT:

Total Revenue

|                            | Heasure | Share  |
|----------------------------|---------|--------|
|                            | ******  | RREER  |
| Applicon                   | \$17    | 3.5%   |
| Autodesk                   | 1       | .3%    |
| Cadnetix                   | 17      | 3.7%   |
| Calay                      | 16      | 3.3%   |
| Calma                      | 18      | 3.8%   |
| Computervision             | 53      | 11.1%  |
| Ferranti                   | 0       | .0%    |
| Gerber Scientific          | 6       | 1.3%   |
| Hewlett-Packard            | 30      | 6.3%   |
| IBM                        | 26      | 5.5%   |
| Intergraph                 | 23      | 4.7%   |
| Recal-Redac                | 49      | 10.2%  |
| Scientific Calculations    | 45      | 9.4%   |
| Tektronix                  | 5       | 1.1%   |
| Telesis                    | 13      | 2.6%   |
| Other Computer Companies   | 11      | 2.3%   |
| Other Europe Companies     | 34      | 7.1%   |
| Other Far East Companies   | 96      | 20.1%  |
| Other Turnkey and Software | 18      | 3.7%   |
| All Companies              | \$477   | 100.0% |

Source: Detaquest

TABLE NUMBER:

B-1.20

TITLE:

1985 Market Share

APPLICATION:

PCB

PRODUCT TYPE:

All Product Types

MEASUREMENT: Workstation Shipments

|                            | Heasure | Share  |
|----------------------------|---------|--------|
|                            | *****   | ****   |
| Applicon                   | 194     | 3.0%   |
| Cadnetix                   | 199     | 3.1%   |
| Calay                      | 126     | 2.0%   |
| Calma                      | 227     | 3.5%   |
| Computervision             | 466     | 7.3%   |
| Ferranti                   | 0       | .0%    |
| Gerber Scientific          | 64      | 1.0%   |
| Hewlett-Packard            | 500     | 7.8%   |
| 18M                        | 252     | 3.9%   |
| Intergraph                 | 214     | 3.3%   |
| Racal-Redac                | 219     | 3,4%   |
| Scientific Calculations    | 364     | 5.7%   |
| Tektronix                  | 46      | .7%    |
| Telesis                    | 150     | 2.3%   |
| Other Computer Companies   | 1,229   | 19.1%  |
| Other Europe Companies     | 686     | 10.7%  |
| Other far East Companies   | 992     | 15.4%  |
| Other Turnkey and Software | 499     | 7.8%   |
| All Companies              | 6,428   | 100.0% |

Source: Dataquest

TABLE NUMBER:

B-1.21

TITLE:

1985 Market Share

APPLICATION:

PCB

PRODUCT TYPE:

All Product Types

MEASUREMENT:

Workstation Installed Base

| •                          | Measure | Share  |
|----------------------------|---------|--------|
|                            | ****    | *====  |
| Applicon                   | 1,553   | 11.5%  |
| Auto-Trol                  | 148     | 1.1%   |
| Cadnetix                   | 309     | 2.3%   |
| Calay                      | 275     | 2.0%   |
| Calma                      | 759     | 5.6%   |
| Computervision             | 2,452   | 18.2%  |
| Control Data               | 3       | .0%    |
| Ferranti                   | 0       | .0%    |
| Gerber Scientific          | 279     | 2.1%   |
| Hewlett-Packard            | 500     | 3.7%   |
| IBM                        | 723     | 5.4%   |
| Intergraph                 | 447     | 3.3%   |
| McAuto                     | 13      | .1%    |
| Prime                      | 257     | 1.9%   |
| Racal-Redac                | 1,386   | 10.3%  |
| Scientific Calculations    | 604     | 4.5%   |
| Tektronix                  | 46      | .3%    |
| Telesis                    | 357     | 2.7%   |
| Other Computer Companies   | 1,229   | 9.1%   |
| Other Europe Companies     | 686     | 5.1%   |
| Other Far East Companies   | 932     | 6.9%   |
| Other Turnkey and Software | 499     | 3.7%   |
| All Companies              | 13,458  | 100.0% |

Source: Dataquest

TABLE NUMBER:

B-2.7

TITLE:

1985 Market Share

APPLICATION:

AEC

PRODUCT TYPE: MEASUREMENT:

Stendalone Total Revenue

|                            | Measure | Share  |
|----------------------------|---------|--------|
|                            | 32255   | -      |
| Applicon                   | \$2     | 1.3%   |
| Auto-Trol                  | 31      | 18.9%  |
| Calcomp                    | 31      | 18.9%  |
| Calma                      | 20      | 11.9%  |
| Computervision             | 3       | 1.6%   |
| Ferranti                   | 0       | .2X    |
| Hewlett-Packard            | 10      | 6.1%   |
| Kolguin-CAD                | 38      | 23.0%  |
| MacNeal Schwendler         | 0       | .2X    |
| SDRC                       | 1       | .4%    |
| Other Europe Companies     | 7       | 4.3X   |
| Other Far East Companies   | . 1     | .4%    |
| Other Turnkey and Software | 21      | 12.7%  |
| All Companies              | \$163   | 100.0% |

Source: Dataquest

TABLE NUMBER:

B-2.8

TITLE:

1985 Market Share

APPLICATION:

AEC

PRODUCT TYPE:

Standalone

MEASUREMENT:

Workstation Shipments

|                            | Measure | Share  |
|----------------------------|---------|--------|
|                            | ******  |        |
| Applicon                   | 25      | 1.5%   |
| Auto-Trol                  | 246     | 14.7%  |
| Catcomp                    | 187     | 11.1%  |
| Calma                      | 157     | 9.4%   |
| Computervision             | 53      | 3.2X   |
| Ferranti                   | 1       | .1%    |
| Hewlett-Packard            | 161     | 9.6%   |
| Holguin-CAD                | 377     | 22.5%  |
| Other Europe Companies     | 137     | 8.2%   |
| Other far East Companies   | 10      | .6%    |
| Other Turnkey and Software | 321     | 19.2%  |
| All Companies              | 1,674   | 100.0% |

Source: Dataquest

TABLE NUMBER:

8-2.9

TITLE:

1985 Market Share

APPLICATION:

AEC

PRODUCT TYPE:

Standalone

**MEASUREMENT:** 

Workstation Installed Base

|                            | Heasure | Share  |
|----------------------------|---------|--------|
|                            | *****   | 22322  |
| Applicon                   | 32      | 1.8%   |
| Auto-Trol                  | 532     | 30.1%  |
| Calcomp                    | 187     | 10.6X  |
| Calma                      | 324     | 18.3%  |
| Computervision             | 56      | 3.2%   |
| Ferranti                   | 1       | .1%    |
| Rewlett-Packard            | 161     | 9.1%   |
| McAuto                     | 8       | .4%    |
| Other Europe Companies     | 137     | 7.7%   |
| Other Far East Companies   | 10      | .6%    |
| Other Turnkey and Software | 321     | 18.2%  |
| All Companies              | 1,767   | 100.0% |

Source: Dataquest

TABLE NUMBER:

8-2.10

TITLE:

1985 Market Share

APPLICATION:

FNA

PRODUCT TYPE: MEASUREMENT:

Standalone Total Revenue

|                            | Measure | Share  |
|----------------------------|---------|--------|
|                            | *****   | 22222  |
| Cadnetix                   | 8       | 2.4%   |
| Calma                      | 4       | 1.2%   |
| Computervision             | 13      | 4.2%   |
| Control Data               | 7       | 2.2%   |
| Daisy                      | 88      | 27.7%  |
| Mentor                     | 127     | 40.0%  |
| Racal-Redac                | 1       | .2x    |
| Silver-Lisco               | 3       | .8X    |
| Tektronix                  | 7       | 2.3%   |
| Telesis                    | 2       | .6%    |
| Valid                      | 47      | 14.8%  |
| Other Europe Companies     | 3       | .8%    |
| Other Far East Companies   | 2       | .7%    |
| Other Turnkey and Software | 6       | 2.0%   |
| All Companies              | \$317   | 100.0% |

Source: Datequest

TABLE NUMBER:

B-2.11

TITLE:

1985 Market Share

APPLICATION:

EDA

PRODUCT TYPE:

Standalone

MEASUREMENT:

Workstation Shipments

|                            | Measure | Share  |
|----------------------------|---------|--------|
|                            | ******* | EXEST  |
| Cadnetix                   | 101     | 2.6%   |
| Calma                      | 31      | .8%    |
| Computervision             | 244     | 6.3%   |
| Control Data               | 86      | 2.2%   |
| Daisy                      | 1,084   | 28.1X  |
| Mentor                     | 1,276   | 33.0%  |
| Racal-Redac                | 7       | .2%    |
| Tektronix                  | 97      | 2.5%   |
| Telesis                    | 16      | .4%    |
| Valid                      | 832     | 21.5%  |
| Other Europe Companies     | 45      | 1.2%   |
| Other Far East Companies   | 38      | . 1.0X |
| Other Turnkey and Software | 5       | .1%    |
| All Companies              | 3,864   | 100.0% |

Source: Detaquest

TABLE NUMBER:

B-2.12

TITLE:

1985 Market Share

APPLICATION:

EDA

PRODUCT TYPE:

Standal one

MEASUREMENT:

Workstation installed Base

|                            | Measure | Share  |
|----------------------------|---------|--------|
|                            | ******  | ****   |
| Cadnetix                   | 101     | 1.2%   |
| Calme                      | 71      | .8%    |
| Computervision             | 244     | 2.9%   |
| Control Data               | 135     | 1.6%   |
| Daisy                      | 2,686   | 31.4%  |
| Mentor                     | 2,988   | 34.9%  |
| Racal-Redac                | 19      | .2%    |
| Tektronix                  | 97      | 1.1%   |
| Telesis                    | 16      | .2X    |
| Valid                      | 2,045   | 23.9%  |
| Other Europe Companies     | 45      | .5%    |
| Other Far East Companies   | 98      | 1.1%   |
| Other Turnkey and Software | 5       | .1%    |
| All Companies              | 8,552   | 100.0% |

Source: Dataquest

TABLE NUMBER:

B-2.13

TITLE:

1985 Market Share

APPLICATION:

PRODUCT TYPE:

Standalone

MEASUREMENT:

Total Revenue

|                            | Measure | Share   |
|----------------------------|---------|---------|
|                            | ******  | ****    |
| Calma                      | 30      | 31.1%   |
| Computervision             | 0       | .1%     |
| Daisy                      | 26      | 27.0%   |
| Mentor                     | 10      | . 10.3% |
| Racal-Redac                | 0       | .4%     |
| Silvar-Lisco               | 1       | .9%     |
| Valid                      | 8       | 8.0%    |
| Other Far East Companies   | 2       | 2.0%    |
| Other Turnkey and Software | 20      | 20.2%   |
| All Companies              | \$97    | 100.0%  |

Source: Dataquest

TABLE NUMBER:

B-2.14

TITLE:

1985 Market Share

APPLICATION:

ŧĊ

PRODUCT TYPE:

Standalone

MEASUREMENT:

Workstation Shipments

|                            | Measure | Share  |
|----------------------------|---------|--------|
|                            | ******* | #21EE  |
| Calmo                      | 244     | 26.6%  |
| Computervision             | 2       | .2%    |
| Daisy                      | 284     | 31.0%  |
| Mentor                     | 106     | 11.6%  |
| Recel-Redec                | 2       | .2%    |
| Valid                      | 91      | 9.9%   |
| Other Far East Companies   | 25      | 2.7%   |
| Other Turnkey and Software | 162     | 17.7%  |
| All Companies              | 917     | 100.0% |

Source: Dataquest

TABLE NUMBER:

8-2.15

TITLE:

1985 Market Share

APPLICATION:

10

PRODUCT TYPE:

Standalone

MEASUREMENT:

Workstation Installed Base

|                            | Measure | Share  |
|----------------------------|---------|--------|
|                            | #224#EE |        |
| Calma                      | 244     | 20.0%  |
| Computervision             | 2       | .2X    |
| Control Data               | 16      | 1.3%   |
| Daisy                      | 469     | 38.5%  |
| Mentor                     | 124     | 10.1%  |
| Racat-Redac                | 2       | .1%    |
| Valid                      | 176     | 14.4%  |
| Other Far East Companies   | 25      | 2.0%   |
| Other Turnkey and Software | 162     | 13.3%  |
| All Companies              | 1,220   | 100.0% |

Source: Dataquest

TABLE NUMBER:

B-2.16

TITLE:

1985 Market Share

APPLICATION:

PCB

PRODUCT TYPE:

Standalone

MEASUREMENT:

Total Revenue

|                            | Neasure | Share  |
|----------------------------|---------|--------|
|                            | ******  | 2227X  |
| Cadnetix                   | 17      | 9.1%   |
| Catay                      | 12      | 6.4%   |
| Calma                      | 13      | 6.8%   |
| Computervision             | 0       | .2%    |
| Ferranti                   | 0       | .0%    |
| Gerber Scientific          | 6       | 3.1%   |
| Hewlett-Packard            | 30      | 15.6%  |
| Recell-Redac               | 30      | 15.7%  |
| Scientific Calculations    | 26      | 13.5%  |
| Tektronix                  | 0       | .2%    |
| Telesis                    | 11      | 5.5X   |
| Other Europe Companies     | 21      | 10.8%  |
| Other Far East Companies   | 19      | 9.6%   |
| Other Turnkey and Software | 7       | 3.4%   |
| Att Companies              | \$193   | 100.0% |

Source: Dataquest

TABLE NUMBER:

B-2.17

TITLE:

1985 Market Share

APPLICATION:

PCB

PRODUCT TYPE:

Standalone

MEASUREMENT:

Workstation Shipments

|                            | Measure | Share  |
|----------------------------|---------|--------|
|                            | ******  | =====  |
| Cadnetix                   | 199     | 10.9%  |
| Calay                      | 80      | 4.4%   |
| Calma                      | 194     | 10.6%  |
| Computervision             | 7       | .4%    |
| Ferranti                   | 0       | .0%    |
| Gerber Scientific          | 64      | 3.5%   |
| Hewlett-Packard            | 500     | 27.4%  |
| Racal - Redac              | 181     | 10.0%  |
| Scientific Calculations    | 94      | 5.1%   |
| Tektronix                  | 3       | .2%    |
| Telesis                    | 87      | 4.8X   |
| Other Europe Companies     | 207     | 11.4%  |
| Other Far East Companies   | 90      | 5.0X   |
| Other Turnkey and Software | 116     | 6.4%   |
| All Companies              | 1,823   | 100.0% |

Source: Detaquest

TABLE NUMBER:

B-2.18

TITLE:

1985 Market Share

APPLICATION:

PCB

PRODUCT TYPE:

Standal one

MEASUREMENT:

Workstation installed Base

|                            | Measure | Share  |
|----------------------------|---------|--------|
|                            | ******  | 22222  |
| Cadnetix                   | 309     | 9.3%   |
| Calay                      | 110     | 3.3%   |
| Calma                      | 201     | 6.0%   |
| Computervision             | 10      | .3%    |
| Ferranti                   | 0       | .0%    |
| Gerber Scientific          | 279     | 8.3%   |
| Hewlett-Packard            | 500     | 15.0%  |
| Racat - Redac              | 1,041   | 31.2%  |
| Scientific Calculations    | 139     | 4.1%   |
| Tektronix                  | 3       | .1%    |
| Telesis                    | 294     | 8.8%   |
| Other Europe Companies     | 207     | 6.2%   |
| Other Far East Companies   | 130     | 3.9%   |
| Other Turnkey and Software | 116     | 3.5%   |
| All Companies              | \$3,339 | 100.0% |

Source: Dataquest

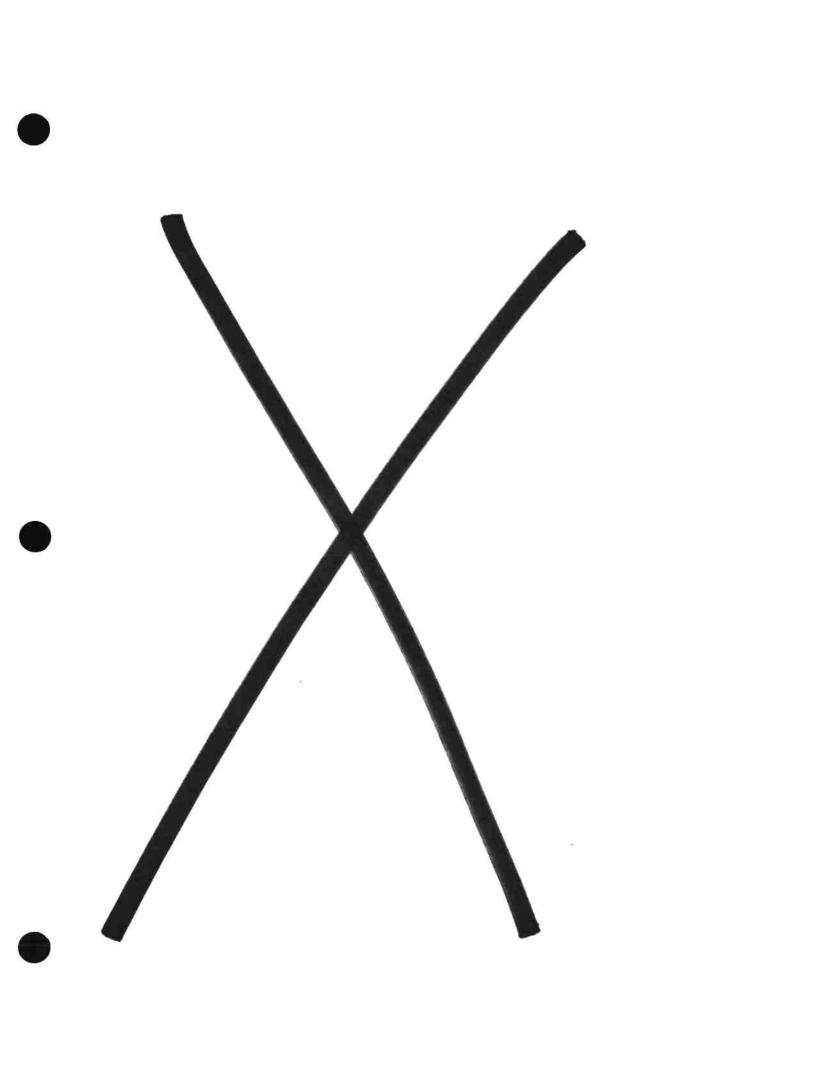


TABLE NUMBER:

B-3.7

TITLE:

1985 Market Share

APPLICATION:

PRODUCT TYPE:

Host-Dependent

**MEASUREMENT:** 

Total Revenue

|                            | Measure | Share  |
|----------------------------|---------|--------|
|                            | ****    | ****   |
| Applicon                   | \$19    | 4.1%   |
| Auto-Trol                  | 2       | .4%    |
| Calma                      | 17      | 3.6%   |
| Computervision             | 44      | 9.3%   |
| Control Data               | 2       | .5%    |
| Ferranti                   | 1       | .1%    |
| IBM                        | 31      | 6.7%   |
| Intergraph                 | 204     | 43.5%  |
| Matra Datavision           | t       | .2%    |
| NcAuto                     | 30      | 6.4%   |
| MacNeal Schwendler         | 1       | .2%    |
| Prime                      | 28      | 6.0%   |
| SDRC                       | 1       | .2%    |
| Other Europe Companies     | 17      | 3.6%   |
| Other Far East Companies   | 66      | 13.9%  |
| Other Turnkey and Software | 6       | 1.4%   |
| All Companies              | \$470   | 100.0% |

Source: Dataquest

TABLE NUMBER:

B-3.8

TITLE:

1985 Market Share

APPLICATION:

AEC

PRODUCT TYPE:

Host-Dependent

MEASUREMENT:

Workstation Shipments

|                            | Measure | Share  |
|----------------------------|---------|--------|
|                            | 2232222 | =====  |
| Applicon                   | 290     | 6.1%   |
| Auto-Trol                  | 18      | .4%    |
| Celse                      | 109     | 2.3%   |
| Computervision             | 403     | 8.4%   |
| Control Data               | 15      | .3%    |
| Ferranti                   | Z       | .0%    |
| IBM                        | 303     | 6.4%   |
| Intergraph                 | 2,000   | 41.9%  |
| Metra Datavision           | 8       | .2%    |
| NcAuto                     | 449     | 9.4%   |
| Prime                      | 249     | 5.2%   |
| Other Europe Companies     | 236     | 4.9%   |
| Other Far East Companies   | 537     | 11.2X  |
| Other Turnkey and Software | 155     | 3.2%   |
| Att Companies              | 4,774   | 100.0% |

Source: Dataquest

TABLE NUMBER: B-3.9

TITLE: 1985 Market Share

APPLICATION: A

PRODUCT TYPE: Host-Dependent

MEASUREMENT: Workstation Installed Base

|                            | Measure | Share  |
|----------------------------|---------|--------|
|                            | ******  | ****   |
| Applicon                   | 1,459   | 11.5%  |
| Auto-Trol                  | 1,073   | 8.5%   |
| Calma                      | 509     | 4.0%   |
| Computervision             | 1,575   | 12.5%  |
| Control Data               | 15      | .1%    |
| Ferranti                   | 2       | .0%    |
| IBM                        | 395     | 3.1%   |
| Intergraph                 | 5,278   | 41.8%  |
| Matra Datavision           | 8       | .1%    |
| McAuto                     | 647     | 5.1%   |
| Prime                      | 710     | 5.6%   |
| Other Europe Companies     | 236     | 1.9%   |
| Other Far East Companies   | 579     | 4.6%   |
| Other Turnkey and Software | 155     | 1.2%   |
| All Companies              | 12,641  | 100.0% |

Source: Dataquest

TABLE NUMBER:

B-3.10

TITLE:

1985 Market Share

APPLICATION:

Mapping

PRODUCT TYPE:

Host-Dependent

MEASUREMENT:

Total Revenue

|                          | Measure | Share  |
|--------------------------|---------|--------|
|                          | ******  | ****   |
| Computervision           | 4       | 1.9%   |
| 18M                      | 26      | 12.2%  |
| Intergraph               | 135     | 62.7%  |
| SDRC                     | 0       | .2%    |
| Synercom                 | 17      | 7.9%   |
| Other Europe Companies   | 21      | 9.6%   |
| Other Far East Companies | 12      | 5.6%   |
| All Companies            | \$215   | 100.0% |

Source: Dataquest

TABLE NUMBER:

B-3.11

TITLE:

1985 Market Share

APPLICATION:

Mapping

PRODUCT TYPE:

Host-Dependent

MEASUREMENT:

Workstation Shipments

|                            | Measure | Share  |
|----------------------------|---------|--------|
|                            |         | -      |
| Computervision             | 31      | 1.8%   |
| IBN                        | 252     | 14.2%  |
| Intergraph                 | 1,302   | 73.5%  |
| Other Europe Companies     | 83      | 4.7%   |
| Other Far East Companies   | 88      | 5.0%   |
| Other Turnkey and Software | . 16    | .9%    |
| All Companies              | 1,772   | 100.0% |

Source: Dataquest

TABLE NUMBER:

B-3.12

TITLE:

1985 Market Share

APPLICATION:

Mapping

PRODUCT TYPE:

Host-Dependent

MEASUREMENT:

Workstation Installed Base

|                            | Measure | Share  |
|----------------------------|---------|--------|
|                            | ******  | 27226  |
| Auto-Trol                  | 180     | 3.0%   |
| Calma                      | 77      | 1.3%   |
| Computervision             | 610     | 10.2%  |
| IBM                        | 366     | 6.1%   |
| Intergraph                 | 4,522   | 75.5%  |
| Other Europe Companies     | 83      | 1.4%   |
| Other Far East Companies   | 132     | 2.2%   |
| Other Turnkey and Software | 16      | .3%    |
| Att Companies              | 5,987   | 100.0% |

Source: Dataquest

TABLE NUMBER:

B-3.13

TITLE:

1985 Market Share

APPLICATION:

EDA

PRODUCT TYPE: MEASUREMENT:

Host-Dependent

Total Revenue

|                            | Measure | Share  |
|----------------------------|---------|--------|
|                            | ******  | -      |
| Control Data               | 7       | 9.8%   |
| Racat - Redac              | 0       | .2%    |
| Silvar-Lisco               | 8       | 11.7%  |
| Zycad                      | 26      | 36.6X  |
| Other Europe Companies     | 6       | 9.1%   |
| Other Far East Companies   | 8       | 11.2%  |
| Other Turnkey and Software | 15      | 21.4%  |
| All Companies              | \$71    | 100.0% |

Source: Dataquest

TABLE NUMBER:

B-3.14

TITLE:

1985 Market Share

APPLICATION:

**EDA** 

PRODUCT TYPE:

**Host-Dependent** 

MEASUREMENT:

Workstation Shipments

|                          | Measure | Share  |
|--------------------------|---------|--------|
|                          |         |        |
| Control Data             | 44      | 27.6%  |
| Racal - Redac            | 0       | .1%    |
| Other Europe Companies   | 65      | 40.5%  |
| Other Far East Companies | 51      | 31.8%  |
| Ali Companies            | 161     | 100.0% |

Source: Dataquest

TABLE NUMBER:

B-3.15

TITLE:

1985 Market Share

APPLICATION:

**EDA** 

PRODUCT TYPE:

Host-Dependent

MEASUREMENT:

Workstation Installed Base

|                          | Measure | Share  |
|--------------------------|---------|--------|
|                          | *****   |        |
| Control Data             | 86      | 32.2%  |
| Daisy                    | 65      | 24.2%  |
| Racal-Redac              | 1       | .4%    |
| Other Europe Companies   | 65      | 24.2%  |
| Other Far East Companies | 51      | 19.0%  |
| All Companies            | 269     | 100.0% |

Source: Dataquest

TABLE NUMBER:

8-3.16

TITLE:

1985 Market Share

APPLICATION:

IC

PRODUCT TYPE: MEASUREMENT: **Host-Dependent** 

Total Revenue

|                            | Measure | \$hare |
|----------------------------|---------|--------|
|                            | ****    | ====   |
| Applicon                   | \$5     | 4.5%   |
| Calmo                      | 25      | 24.9%  |
| Computervision             | 17      | 17.6%  |
| Control Date               | 5       | 4.7%   |
| Racal-Redac                | 0       | .0%    |
| Scientific Calculations    | 3       | 3.3%   |
| Silver-Lisco               | 6       | 6.5%   |
| Tektronix                  | 3       | 3.1%   |
| Other Far East Companies   | 19      | 19.5%  |
| Other Turnkey and Software | 16      | 15.7%  |
| All Companies              | \$99    | 100.0% |

Source: Pataquest

TABLE NUMBER:

TITLE: 1985 Market Share

APPLICATION: I

PRODUCT TYPE: Host-Dependent

MEASUREMENT: Workstation Shipments

B-3.17

|                            | Measure | Share  |
|----------------------------|---------|--------|
|                            | EZZZZŻŹ | *****  |
| Applicon                   | 58      | 8.9%   |
| Catma                      | 160     | 24.6%  |
| Computervision             | 145     | 22.3%  |
| Control Data               | 30      | 4.5%   |
| Racal-Redac                | 0       | .0%    |
| Scientific Calculations    | 73      | 11.1%  |
| Tektronix                  | 28      | 4.3X   |
| Other Far East Companies   | 151     | 23.1%  |
| Other Turnkey and Software | 7       | 1.1%   |
| All Companies              | 653     | 100.0% |

Source: Dataquest

TABLE NUMBER:

B-3.18

TITLE:

1985 Market Share

APPLICATION:

T.C.

PRODUCT TYPE:

Host-Dependent

MEASUREMENT:

Workstation Installed Base

|                            | Measure | Share  |
|----------------------------|---------|--------|
|                            | EIGEFIE | 常常元本王  |
| Applican                   | 1,682   | 37.4%  |
| Calmo                      | 1,982   | 44.0%  |
| Computervision             | 484     | 10.8X  |
| Control Data               | 79      | 1,7%   |
| Racal - Redac              | 0       | _OX    |
| Scientific Calculations    | 87      | 1.9%   |
| Tektronix                  | 28      | .6%    |
| Other Far East Companies   | 151     | 3.4%   |
| Other Turnkey and Software | 7       | .2%    |
| All Companies              | 4,501   | 100.0X |

Source: Dataquest

TABLE NUMBER:

B-3.19

TITLE:

1985 Market Share

APPLICATION:

PCB

PRODUCT TYPE:

**Host-Dependent** 

MEASUREMENT:

Total Revenue

|                            | Measure | Share  |
|----------------------------|---------|--------|
|                            | 3232232 |        |
| Applicon                   | \$17    | 7.0%   |
| Calay                      | 3       | 1.3%   |
| Calma                      | 5       | 2.2%   |
| Computervision             | 52      | 22.1%  |
| IBM                        | 26      | 11.0%  |
| Intergraph                 | 23      | 9.6%   |
| Racal - Redac              | 3       | 1.2%   |
| Scientific Calculations    | 19      | 8.0%   |
| Tektroníx                  | 5       | 2.0%   |
| Other Europe Companies     | 11      | 4.6%   |
| Other Far East Companies   | 72      | 30.2%  |
| Other Turnkey and Software | 2       | .9%    |
| All Companies              | \$237   | 100.0% |

Source: Dataquest

TABLE NUMBER:

B-3.20

TITLE:

1985 Market Share

APPLICATION:

PCB

PRODUCT TYPE:

Host-Dependent

MEASUREMENT:

Workstation Shipments

|                            | Measure | Share  |
|----------------------------|---------|--------|
|                            | ****    | ****   |
| Applicon                   | 194     | 7.7%   |
| Calay                      | 45      | 1.8%   |
| Calma                      | 33      | 1.3%   |
| Computervision             | 451     | 18.0%  |
| IBM                        | 252     | 10.0%  |
| Intergraph                 | 214     | 8.6%   |
| Racal-Redac                | 6       | .2%    |
| Scientific Calculations    | 270     | 10.8%  |
| Tektronix                  | 43      | 1.7%   |
| Other Europe Companies     | 108     | 4.3%   |
| Other Far East Companies   | 504     | 20.1%  |
| Other Turnkey and Software | 383     | 15.3%  |
| All Companies              | 2,505   | 100.0% |

Source: Dataquest

TABLE NUMBER:

8-3.21

TITLE:

1985 Market Share

APPLICATION:

PCB

PRODUCT TYPE:

Host-Dependent

**MEASUREMENT:** 

Workstation Installed Base

|                            | Measure | Share  |
|----------------------------|---------|--------|
|                            | -       | =====  |
| Applicon                   | 1,553   | 19.5%  |
| Auto-Trol                  | 148     | 1.9%   |
| Calay                      | 165     | 2.1%   |
| Calma                      | 558     | 7.0%   |
| Computervision             | 2,434   | 30.6%  |
| Control Data               | 3       | .0%    |
| IBM                        | 723     | 9.1%   |
| Intergraph                 | 447     | 5.6%   |
| McAuto                     | 13      | .2%    |
| Prime                      | 257     | 3.2%   |
| Racal - Redac              | 250     | 3.1%   |
| Scientific Calculations    | 466     | 5.9%   |
| Tektronix                  | 43      | .5%    |
| Other Europe Companies     | 108     | 1.4%   |
| Other Far East Companies   | 404     | 5.1%   |
| Other Turnkey and Software | 383     | 4.8%   |
| All Companies              | 7,957   | 100.0% |

Source: Dataquest

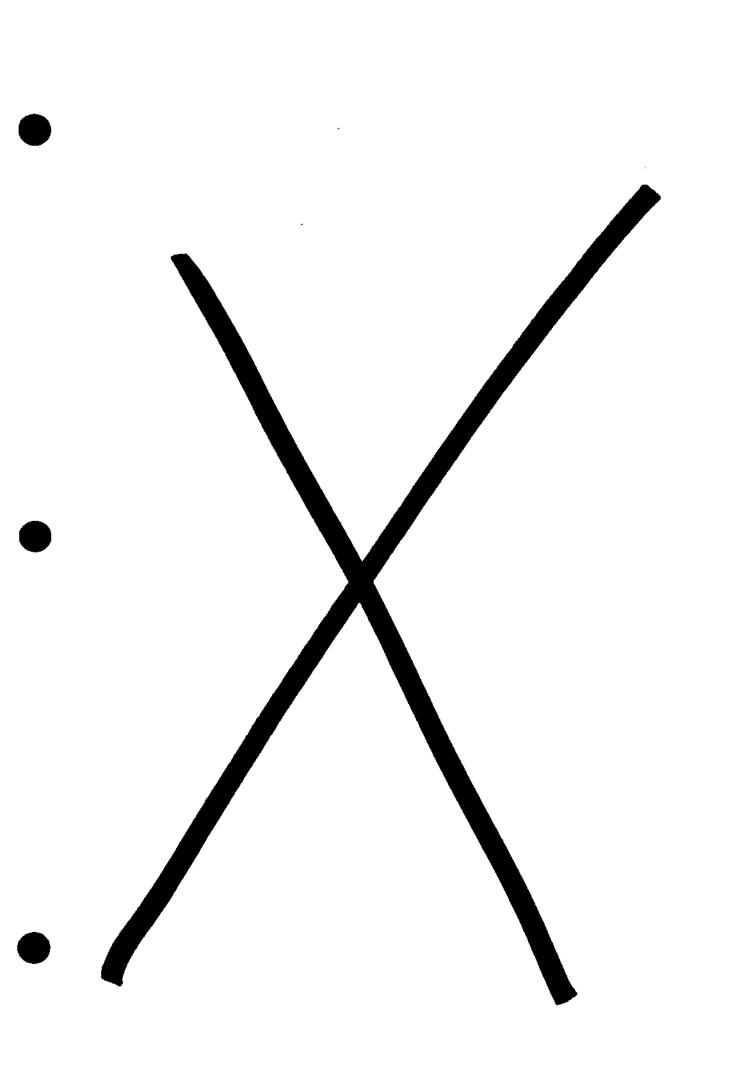


TABLE NUMBER:

B-4.7

TITLE:

1985 Market Share

APPLICATION:

AEC

PRODUCT TYPE: MEASUREMENT:

Personal Computer Total Revenue

|                            | Measure | Share  |
|----------------------------|---------|--------|
|                            | 882222  | ====   |
| Applicon                   | \$2     | 1.7%   |
| Autodesk                   | 14      | 12.3%  |
| Calcomp                    | 2       | 1.7%   |
| Calma `                    | 0       | .4%    |
| Computervision             | 2       | 1.7%   |
| Control Data               | 2       | 2.1%   |
| 1BM                        | 3       | 3.0%   |
| MacNeal Schwendler         | 0       | .0%    |
| Other Computer Companies   | 63      | 56.3%  |
| Other Europe Companies     | 8       | 7.4%   |
| Other Far East Companies   | 11      | 9.5%   |
| Other Turnkey and Software | 5       | 4.0%   |
| All Companies              | \$113   | 100.0% |

Source: Dataquest

TABLE NUMBER:

B-4.8

TITLE:

1985 Market Share

APPLICATION:

AEC

PRODUCT TYPE: MEASUREMENT:

Personal Computer Workstation Shipments

|                            | Measure | Share  |
|----------------------------|---------|--------|
|                            | *****   | BEEEE  |
| Applicon                   | 57      | .4%    |
| Calcomp                    | 91      | .7%    |
| Calma                      | 11      | .1%    |
| Computervision             | 99      | .8%    |
| Control Data               | 96      | .7%    |
| IBM                        | 231     | 1.8%   |
| Other Computer Companies   | 10,766  | 83.4%  |
| Other Europe Companies     | 1,123   | 8.7%   |
| Other Far East Companies   | 408     | 3.2%   |
| Other Turnkey and Software | 32      | .2%    |
| All Companies              | 12,912  | 100.0% |

Source: Dataquest

TABLE NUMBER:

B-4.9

TITLE:

1985 Market Share

APPLICATION:

AEC

PRODUCT TYPE:

Personal Computer

MEASUREMENT:

Workstation Installed Base

|                            | Measure | Share  |
|----------------------------|---------|--------|
|                            | *****   | ****   |
| Applicon                   | 57      | .4%    |
| Calcomp                    | 91      | .7%    |
| Calma                      | 11      | .1%    |
| Computervision             | 99      | .8%    |
| Control Data               | 96      | .7%    |
| IBM                        | 231     | 1.8%   |
| Other Computer Companies   | 10,766  | 82.4%  |
| Other Europe Companies     | 1,123   | 8.6%   |
| Other Far East Companies   | 556     | 4.3%   |
| Other Turnkey and Software | 32      | .2%    |
| All Companies              | 13,059  | 100.0% |

Source: Dataquest

150

TABLE NUMBER:

B-4.10

TITLE:

1985 Market Share

APPLICATION:

EDA

PRODUCT TYPE:

Personal Computer

MEASUREMENT:

Total Revenue

|                            | Measure | Share  |
|----------------------------|---------|--------|
|                            | ******  |        |
| Daisy                      | 19      | 13.5%  |
| Futurenet                  | 20      | 13.8%  |
| Racal - Redac              | 0       | .3%    |
| Tektronix                  | 4       | 2.8%   |
| Telesis                    | 0       | .3%    |
| Valid                      | 2       | 1.2%   |
| Other Computer Companies   | 79      | 55.3%  |
| Other Europe Companies     | 1       | .8%    |
| Other Far East Companies   | 10      | 7.0%   |
| Other Turnkey and Software | 7       | 5.0%   |
| All Companies              | \$143   | 100.0% |

Source: Dataquest

TABLE NUMBER:

B-4.11

TITLE:

1985 Market Share

APPLICATION:

EDA

PRODUCT TYPE: MEASUREMENT:

Personal Computer
Workstation Shipments

|                            | Measure | Share  |
|----------------------------|---------|--------|
|                            | ======  |        |
| Daisy                      | 607     | 6.0%   |
| Futurenet                  | 33      | .3%    |
| Tektronix                  | 111     | 1.1%   |
| Telesis                    | 13      | .1%    |
| Valid                      | 56      | .6%    |
| Other Computer Companies   | 8,785   | 87.1%  |
| Other Europe Companies     | 218     | 2.2%   |
| Other Far East Companies   | 233     | 2.3%   |
| Other Turnkey and Software | 34      | .3%    |
| All Companies              | 10,089  | 100.0X |

Source: Dataquest

TABLE NUMBER:

B-4.12

TITLE:

1985 Market Share

APPLICATION:

EDA

PRODUCT TYPE:

Personal Computer

MEASUREMENT:

Workstation Installed Base

| •                          | Measure | Share  |
|----------------------------|---------|--------|
|                            | *****   | =====  |
| Daisy                      | 647     | 6.4%   |
| futurenet                  | 33      | .3%    |
| Racal • Redac              | 3       | .0%    |
| Tektronix                  | 111     | 1.1%   |
| Telesis                    | 13      | .1%    |
| Valid                      | 56      | .5%    |
| Other Computer Companies   | 8,785   | 86.7%  |
| Other Europe Companies     | 218     | 2.2%   |
| Other Far East Companies   | 233     | 2.3%   |
| Other Turnkey and Software | 34      | .3%    |
| All Companies              | 10,132  | 100.0% |

Source: Dataquest

TABLE NUMBER:

B-4.13

TITLE:

1985 Market Share

APPLICATION:

10

PRODUCT TYPE: MEASUREMENT:

Personal Computer

Total Revenue

|                          | Measure | Share  |  |
|--------------------------|---------|--------|--|
|                          | ******  | **===  |  |
| Computervision           | 0       | 1.9%   |  |
| Daisy                    | 1       | 35.9%  |  |
| Racal-Redac              | 0       | 7.7%   |  |
| Valid                    | 0       | 16.3%  |  |
| Other Computer Companies | 1       | 30.1%  |  |
| Other Far East Companies | 0       | 8.1%   |  |
| All Companies            | \$2     | 100.0% |  |

Source: Dataquest

TABLE NUMBER:

8-4.14

TITLE:

1985 Market Share

APPLICATION:

10

PRODUCT TYPE: MEASUREMENT:

Personal Computer Workstation Shipments

Measure Share ======= Z=ZZZ 2 2.0% Computervision 26 23.0% Daisy 10.1% Valid 11 Other Computer Companies 70 62.7% 2.1% 2 Other Far East Companies All Companies 112 100.0%

Source: Dataquest

TABLE NUMBER:

TITLE: 1985 Market Share

APPLICATION: IC

PRODUCT TYPE: Personal Computer

MEASUREMENT: Workstation Installed Base

B-4.15

|                          | Measure | Share  |
|--------------------------|---------|--------|
|                          | ======  | -      |
| Computervision           | 2       | 2.0%   |
| Daisy                    | 26      | 23.0%  |
| Valid                    | 11      | 10.1%  |
| Other Computer Companies | 70      | 62.7%  |
| Other Far East Companies | 2       | 2.1%   |
| All Companies            | 112     | 100.0% |

Source: Dataquest

TABLE NUMBER:

B-4.16

TITLE:

1985 Market Share

APPLICATION:

PCB

PRODUCT TYPE:

Personal Computer

MEASUREMENT:

Total Revenue

|                            | Measure | Share  |
|----------------------------|---------|--------|
|                            | ****    | ****   |
| Autodesk                   | 1       | 2.9%   |
| Computervision             | 0       | .3%    |
| Racal - Redac              | 16      | 33.3%  |
| Telesis                    | 2       | 4.2%   |
| Other Computer Companies   | 11      | 23.6%  |
| Other Europe Companies     | 2       | 4.9%   |
| Other Far East Companies   | 5       | 11.7%  |
| Other Turnkey and Software | 9       | 19.1%  |
| All Companies              | \$47    | 100.0% |

Source: Dataquest

TABLE NUMBER:

B-4.17

TITLE:

1985 Market Share

APPLICATION:

PCB

PRODUCT TYPE: MEASUREMENT:

Personal Computer
Workstation Shipments

|                          | Measure | Share  |
|--------------------------|---------|--------|
|                          | ======  | =====  |
| Computervision           | 8       | .4%    |
| Racal-Redac              | 32      | 1.5%   |
| Telesis                  | 63      | 3.0%   |
| Other Computer Companies | 1,229   | 58.5%  |
| Other Europe Companies   | 371     | 17.7%  |
| Other Far East Companies | 398     | 18.9%  |
| All Companies            | 2,100   | 100.0% |

Source: Dataquest

TABLE NUMBER:

B-4.18

TITLE:

1985 Market Share

APPLICATION:

PCB

PRODUCT TYPE:

Personal Computer

MEASUREMENT:

Workstation Installed Base

|                          | Measure | Share  |
|--------------------------|---------|--------|
|                          |         | ****   |
| Computervision           | 8       | .3%    |
| Racal - Redac            | 95      | 4.4%   |
| Telesis                  | 63      | 2.9%   |
| Other Computer Companies | 1,229   | 56.8%  |
| Other Europe Companies   | 371     | 17.1%  |
| Other Far East Companies | 398     | 18.4%  |
| All Companies            | 2,163   | 100.0% |

Source: Dataquest

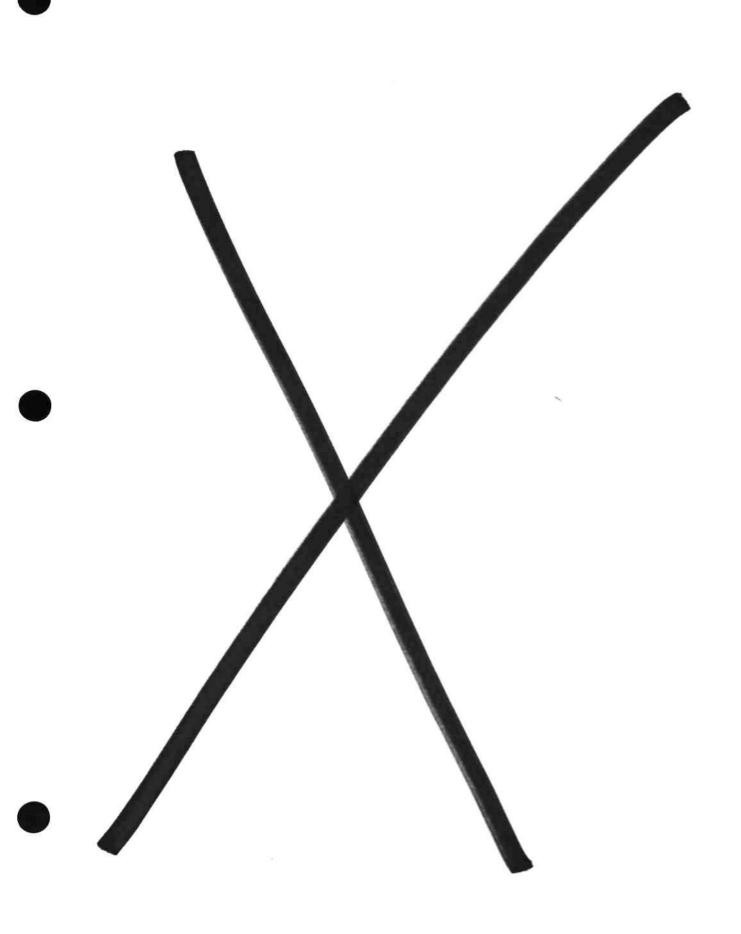


TABLE NUMBER:

C-3

TITLE:

Company History

COMPANY:

Applicon

APPLICATION:

AEC

UNITS:

Millions of Dollars and Actual Units

|                            | 1981        | 1982 | 1983  | 1984  | 1985  | CAGR  |
|----------------------------|-------------|------|-------|-------|-------|-------|
|                            | ****        | ==== | waf=  |       |       | ====  |
| Worldwide                  |             |      |       |       |       |       |
| Total Revenue              | 11          | 13   | 28    | 19    | 23    | 20%   |
| System Shipments           | 23          | 22   | 50    | 48    | 163   | 63%   |
| Workstation Shipments      | 96          | 92   | 219   | 195   | 372   | 40%   |
| Workstation Installed Base | 791         | 857  | 1,030 | 1,176 | 1,548 | 18% . |
| North America              |             |      |       |       |       |       |
| Total Revenue              | 9           | 10   | 21    | 14    | 19    | 20%   |
| System Shipments           | 18          | 17   | 37    | 35    | 130   | 64%   |
| Workstation Shipments      | 75          | 71   | 162   | 143   | 313   | 43%   |
| Workstation Installed Base | 508         | 564  | 698   | 805   | 1,118 | 22%   |
| Europe                     |             |      |       |       |       |       |
| Total Revenue              | 0           | 0    | 6     | 4     | 2     | ERR   |
| System Shipments           | 0           | 0    | 10    | 11    | 21    | ERR   |
| Workstation Shipments      | 0           | 0    | 44    | 43    | 31    | ERR   |
| Workstation Installed Base | 0           | 0    | 43    | 84    | 115   | ERR   |
| Far East                   |             |      |       |       |       |       |
| Total Revenue              | 0           | 0    | 1     | 1     | 2     | ERR   |
| System Shipments           | 0           | 0    | 3     | 2     | 10    | ERR   |
| Workstation Shipments      | 0           | 0    | 13    | 9     | 24    | ERR   |
| Workstation Installed Base | Ð           | 0    | 11    | 21    | 45    | ERR   |
| Rest of World              |             |      |       |       |       |       |
| Total Revenue              | 2           | 3    | 0     | 0     | 0     | -42%  |
| System Shipments           | 5           | 5    | 0     | 0     | 1     | -27%  |
| Workstation Shipments      | 21          | 21   | 0     | 0     | 4     | -36%  |
| Workstation Installed Base | 283         | 293  | 278   | 266   | 270   | -1%   |
| Standalone                 |             |      |       |       |       |       |
| Total Revenue              | 0           | 0    | 0     | 1     | 2     | ERR   |
| System Shipments           | 0           | 0    | 0     | 7     | 25    | ERR   |
| Workstation Shipments      | 0           | 0    | 0     | 7     | 25    | ERR   |
| Workstation Installed Base | 0           | 0    | 0     | 7     | 32    | ERR   |
| Host-Dependent             |             |      |       | •     |       |       |
| Total Revenue              | 11          | 13   | 28    | 18    | 19    | 14%   |
| System Shipments           | 23          | 22   | 50    | 41    | 82    | 37%   |
| Workstation Shipments      | 96          | 92   | 219   | 188   | 290   | 32%   |
| Workstation Installed Base | <b>79</b> 1 | 857  | 1,030 | 1,169 | 1,459 | 17%   |
| Personal Computer          |             |      |       |       |       |       |
| Total Revenue              | 0           | 0    | 0     | 0     | 2     | ERR   |
| System Shipments           | 0           | 0    | 0     | 0     | 57    | ERR   |
| Workstation Shipments      | 0           | 0    | 0     | 0     | 57    | ERR   |
| Workstation Installed Base | 0           | 0    | 0     | 0     | 57    | ERR   |
|                            |             |      |       |       |       |       |

TABLE NUMBER:

C-4

TITLE:

Company History

COMPANY:

Applicon

APPLICATION:

īr

UNITS:

Millions of Dollars and Actual Units

|                            | 1981  | 1982  | 1983  | 1984  | 1985  | CAGR  |
|----------------------------|-------|-------|-------|-------|-------|-------|
|                            | ****  | ====  | ====  | ===3  | 202#  | ====  |
| Worldwide                  |       |       |       |       |       |       |
| Total Revenue              | 46    | 30    | 36    | 50    | 5     | -44%  |
| System Shipments           | 52    | 51    | 34    | 57    | 16    | -25%  |
| Workstation Shipments      | 176   | 174   | 148   | 261   | 58    | -24%  |
| Workstation Installed Base | 1,161 | 1,340 | 1,420 | 1,624 | 1,682 | 10%   |
| North America              |       |       |       |       |       |       |
| Total Revenue              | 20    | 23    | 13    | 19    | 2     | -41%  |
| System Shipments           | 40    | 39    | 22    | 44    | 11    | -28%  |
| Workstation Shipments      | 126   | 124   | 96    | 202   | 39    | -26%  |
| Workstation Installed Base | 752   | 891   | 943   | 1,111 | 1,150 | 11%   |
| Europe                     |       |       |       |       |       |       |
| Total Revenue              | 0     | 0     | 6     | 4     | 2     | ERR   |
| System Shipments           | 0     | 0     | 10    | 9     | 4     | ERR   |
| Workstation Shipments      | 0     | 0     | 43    | 41    | 14    | ERR   |
| Workstation Installed Base | 0     | 0     | 43    | 82    | 96    | ERR   |
| Far East                   |       |       |       |       |       |       |
| Total Revenue              | 0     | 0     | 17    | 27    | 0     | ERR   |
| System Shipments           | 0     | 0     | 2     | 3     | 1     | ERR   |
| Workstation Shipments      | 0     | 0     | 9     | 14    | 5     | ERR   |
| Workstation Installed Base | 0     | 0     | 7     | 23    | 28    | ERR   |
| Rest of World              |       |       |       |       |       |       |
| Total Revenue              | 26    | 7     | 0     | อ     | 0     | -80%  |
| System Shipments           | 12    | 12    | 0     | 1     | 0     | -65%  |
| Workstation Shipments      | 50    | 50    | 0     | 4     | 1     | -66%  |
| Workstation Installed Base | 409   | 449   | 427   | 408   | 409   | -0%   |
| Standalone                 |       |       |       |       |       |       |
| Total Revenue              | 0     | 0     | 0     | 0     | 0     | ERR   |
| System Shipments           | 0     | 0     | 0     | 0     | 0     | ERR   |
| Workstation Shipments      | 0     | 0     | 0     | 0     | 0     | ERR   |
| Workstation Installed Base | 0     | 0     | 0     | 0     | 0     | ERR   |
| Host-Dependent             |       |       |       |       |       |       |
| Total Revenue              | 46    | 30    | 36    | 50    | 5     | - 44% |
| System Shipments           | 52    | 51    | 34    | 57    | 16    | -25%  |
| Workstation Shipments      | 176   | 174   | 148   | 261   | 58    | -24%  |
| Workstation Installed Base | 1,161 | 1,340 | 1,420 | 1,624 | 1,682 | 10%   |
| Personal Computer          |       |       |       |       |       |       |
| Total Revenue              | 0     | 0     | 0     | 0     | 0     | ERR   |
| System Shipments           | 0     | 0     | 0     | 0     | 0     | ERR   |
| Workstation Shipments      | 0     | 0     | 0     | 0     | 0     | ERR   |
| Workstation Installed Base | 0     | 0     | 0     | 0     | 0     | ERR   |
|                            |       |       |       |       |       |       |

Source: Dataquest

TABLE NUMBER:

C-9

TITLE:

Company History

COMPANY:

Autodesk

APPLICATION:

Mapping

UNITS:

Millions of Dollars and Actual Units

|                            | 1981               | 1982 | 1983 | 1984 | 1985 | CAGR |
|----------------------------|--------------------|------|------|------|------|------|
|                            | <del>*******</del> |      |      |      | **** |      |
| Worldwide                  |                    |      |      |      |      |      |
| Total Revenue              | 0                  | 0    | 0    | 0    | 1    | ERR  |
| System Shipments           | 0                  | 0    | 0    | 0    | 0    | ERR  |
| Workstation Shipments      | 0                  | 0    | 0    | 0    | 0    | ERR  |
| Workstation Installed Base | 0                  | 0    | 0    | 0    | 0    | ERR  |
| North America              |                    |      |      |      |      |      |
| Total Revenue              | 0                  | 0    | 0    | 0    | 1    | ERR  |
| System Shipments           | 0                  | 0    | 0    | 0    | 0    | ERR  |
| Workstation Shipments      | 0                  | 0    | 0    | 0    | 0    | ERR  |
| Workstation Installed Base | 0                  | 0    | 0    | 0    | 0    | ERR  |
| Europe                     |                    |      |      |      |      |      |
| Total Revenue              | 0                  | 0    | 0    | 0    | 0    | ERR  |
| System Shipments           | 0                  | 0    | 0    | 0    | 0    | ERR  |
| Workstation Shipments      | 0                  | 0    | 0    | 0    | 0    | ERR  |
| Workstation Installed Base | 0                  | 0    | 0    | 0    | 0    | ERR  |
| Far East                   |                    |      |      |      |      |      |
| Total Revenue              | 0                  | 0    | 0    | 0    | 0    | ERR  |
| System Shipments           | 0                  | 0    | 0    | 0    | 0    | ERR  |
| Workstation Shipments      | 0                  | 0    | 0    | 0    | 0    | ERR  |
| Workstation Installed Base | 0                  | 0    | 0    | 0    | 0    | ERR  |
| Rest of World              |                    |      |      |      |      |      |
| Total Revenue              | 0                  | 0    | 0    | 0    | 0    | ERR  |
| System Shipments           | 0                  | 0    | 0    | 0    | 0    | ERR  |
| Workstation Shipments      | 0                  | 0    | 0    | 0    | 0    | ERR  |
| Workstation Installed Base | 0                  | 0    | 0    | 0    | 0    | ERR  |
| Standalone                 |                    |      |      |      |      |      |
| Total Revenue              | 0                  | 0    | 0    | 0    | 0    | ERR  |
| System Shipments           | 0                  | 0    | 0    | 0    | 0    | ERR  |
| Workstation Shipments      | 0                  | 0    | 0    | 0    | 0    | ERR  |
| Workstation Installed Base | 0                  | 0    | 0    | 0    | 0    | ERR  |
| Host-Dependent             |                    |      |      |      |      |      |
| Total Revenue              | 0                  | 0    | 0    | 0    | 0    | ERR  |
| System Shipments           | 0                  | 0    | 0    | 0    | 0    | ERR  |
| Workstation Shipments      | 0                  | 0    | 0    | 0    | 0    | ERR  |
| Workstation Installed Base | 0                  | 0    | 0    | 0    | 0    | ERR  |
| Personal Computer          |                    |      |      |      |      |      |
| Total Revenue              | 0                  | 0    | 0    | 0    | 1    | ERR  |
| System Shipments           | 0                  | 0    | 0    | 0    | 0    | ERR  |
| Workstation Shipments      | 0                  | 0    | 0    | 0    | 0    | ERR  |
| Workstation Installed Base | 0                  | 0    | 0    | 0    | 0    | ERR  |

TABLE NUMBER:

C-10

TITLE:

Company History

COMPANY:

Autodesk

APPLICATION:

PCB

UNITS:

Millions of Dollars and Actual Units

| North America   Total Revenue   O   O   O   O   O   O   ERR  |
|--|
| Total Revenue         0         0         0         0         1         ERR           System Shipments         0         0         0         0         0         0         ERR           Workstation Installed Base         0         0         0         0         0         ERR           North America         Total Revenue         0         0         0         0         1         ERR           System Shipments         0         0         0         0         0         ERR           Workstation Shipments         0         0         0         0         0         ERR |
| System Shipments         0         0         0         0         0         ERR           Workstation Shipments         0         0         0         0         0         0         ERR           Workstation Installed Base         0         0         0         0         0         ERR           North America         0         0         0         0         1         ERR           System Shipments         0         0         0         0         0         ERR           Workstation Shipments         0         0         0         0         0         ERR               |
| Workstation Shipments         0         0         0         0         0         ERR           Workstation Installed Base         0         0         0         0         0         ERR           North America         Total Revenue         0         0         0         0         1         ERR           System Shipments         0         0         0         0         0         ERR           Workstation Shipments         0         0         0         0         0         ERR  |
| Workstation Installed Base         0         0         0         0         ERR           North America         0         0         0         0         1         ERR           Total Revenue         0         0         0         0         0         0         ERR           System Shipments         0         0         0         0         0         ERR           Workstation Shipments         0         0         0         0         0         ERR  |
| North America           Total Revenue         0         0         0         0         1         ERR           System Shipments         0         0         0         0         0         ERR           Workstation Shipments         0         0         0         0         ERR   |
| Total Revenue         0         0         0         0         1         ERR           System Shipments         0         0         0         0         0         ERR           Workstation Shipments         0         0         0         0         ERR   |
| System Shipments         0         0         0         0         0 ERR           Workstation Shipments         0         0         0         0         ERR   |
| Workstation Shipments 0 0 0 0 ERR  |
|  |
| Workstation Installed Base 0 0 0 0 ERR   |
|  |
| Europe   |
| Total Revenue 0 0 0 0 ERR  |
| System Shipments 0 0 0 0 ERR   |
| Workstation Shipments 0 0 0 0 ERR  |
| Workstation Installed Base 0 0 0 0 ERR   |
| Far East   |
| Total Revenue 0 0 0 0 ERR  |
| System Shipments 0 0 0 0 ERR   |
| Workstation Shipments 0 0 0 0 ERR  |
| Workstation Installed Base 0 0 0 0 ERR   |
| Rest of World  |
| Total Revenue 0 0 0 0 ERR  |
| System Shipments 0 0 0 0 ERR   |
| Workstation Shipments 0 0 0 0 ERR  |
| Workstation Installed Base 0 0 0 0 ERR   |
| Standalone   |
| Total Revenue 0 0 0 0 ERR  |
| System Shipments 0 0 0 0 ERR   |
| Workstation Shipments 0 0 0 0 ERR  |
| Workstation Installed Base 0 0 0 0 ERR   |
| Host-Dependent   |
| Total Revenue 0 0 0 0 ERR  |
| System Shipments 0 0 0 0 ERR   |
| Workstation Shipments 0 0 0 0 ERR  |
| Workstation Installed Base 0 0 0 0 ERR   |
| Personal Computer  |
| Total Revenue 0 0 0 0 1 ERR  |
| System Shipments 0 0 0 0 ERR   |
| Workstation Shipments 0 0 0 0 ERR  |
| Workstation Installed Base 0 0 0 0 ERR   |

TABLE NUMBER:

C-11

TITLE:

Company History

COMPANY:

Auto-Trol

APPLICATION:

All Applications

UNITS:

Millions of Dollars and Actual Units

|                            | 1981  | 1982  | 1983  | 1984  | 1985  | CAGR  |
|----------------------------|-------|-------|-------|-------|-------|-------|
|                            | ====  | ====  | ##F=  | ====  | ====  | ====  |
| Worldwide                  |       |       |       |       |       |       |
| Total Revenue              | 46    | 49    | 55    | 69    | 65    | 9%    |
| System Shipments           | 99    | 92    | 218   | 396   | 504   | 50%   |
| Workstation Shipments      | 428   | 394   | 295   | 415   | 531   | 6%    |
| Workstation Installed Base | 1.603 | 1,917 | 2,119 | 2,432 | 2,953 | 17%   |
| North America              | ·     | •     | •     | •     | •     |       |
| Total Revenue              | 37    | 38    | 50    | 61    | 54    | 10%   |
| System Shipments           | 83    | 75    | 196   | 354   | 428   | 51%   |
| Workstation Shipments      | 369   | 321   | 267   | 372   | 451   | 5%    |
| Workstation Installed Base | 1,406 | 1,657 | 1,844 | 2,123 | 2,574 | 16%   |
| Europe                     | ·     | •     | •     | ·     | •     |       |
| Total Revenue              | 0     | 0     | 4     | 4     | 8     | ERR   |
| System Shipments           | 0     | 0     | 16    | 21    | 46    | ERR   |
| Workstation Shipments      | 0     | 0     | 22    | 21    | 48    | ERR   |
| Workstation Installed Base | 0     | 0     | 22    | 45    | 92    | ERR   |
| far East                   |       |       |       |       |       |       |
| Total Revenue              | 0     | 0     | 1     | 0     | 0     | ERR   |
| System Shipments           | 3     | 0     | 6     | 0     | 0     | -100% |
| Workstation Shipments      | 3     | 0     | 6     | 1     | 0     | -100% |
| Workstation Installed Base | 3     | 2     | 8     | 8     | 0     | -100% |
| Rest of World              |       |       |       |       |       |       |
| Total Revenue              | 9     | 11    | 0     | 4     | 4     | -18%  |
| System Shipments           | 13    | 17    | 0     | 21    | 30    | 23%   |
| Workstation Shipments      | 56    | 73    | 0     | 21    | 31    | - 13% |
| Workstation Installed Base | 194   | 258   | 245   | 256   | 287   | 10%   |
| Standalone                 |       |       |       |       |       |       |
| Total Revenue              | 0     | 0     | 35    | 66    | 62    | ERR   |
| System Shipments           | 3     | 0     | 188   | 388   | 495   | 258%  |
| Workstation Shipments      | 3     | 0     | 183   | 388   | 495   | 258%  |
| Workstation Installed Base | 3     | 2     | 188   | 567   | 1,058 | 333%  |
| Host-Dependent             |       |       |       |       |       |       |
| Total Revenue              | 46    | 49    | 20    | 3     | 4     | -46%  |
| System Shipments           | 96    | 92    | 30    | 8     | 9     | -44%  |
| Workstation Shipments      | 425   | 394   | 112   | 27    | 36    | -46%  |
| Workstation Installed Base | 1,600 | 1,915 | 1,931 | 1,865 | 1,895 | 4%    |
| Personal Computer          |       |       |       |       |       |       |
| Total Revenue              | 0     | 0     | 0     | 0     | 0     | ERR   |
| System Shipments           | 0     | 0     | 0     | 0     | 0     | ERR   |
| Workstation Shipments      | 0     | 0     | 0     | 0     | 0     | ERR   |
| Workstation Installed Base | 0     | 0     | 0     | 0     | 0     | ERR   |
|                            |       |       |       |       |       |       |

TABLE NUMBER:

C-12

TITLE:

Company History

COMPANY: APPLICATION: Auto-Trol Mechanical

UNITS:

Millions of Dollars and Actual Units

|                            | 1981 | 1982 | 1983 | 1984 | 1985  | CAGR  |
|----------------------------|------|------|------|------|-------|-------|
|                            | TEXE | ==== | ==== | ==== | 2222  | ====  |
| Worldwide                  |      |      |      |      |       |       |
| Total Revenue              | 9    | 15   | 28   | 32   | 33    | 40%   |
| System Shipments           | 21   | 29   | 108  | 187  | 254   | 86%   |
| Workstation Shipments      | 80   | 124  | 149  | 196  | 267   | 35%   |
| Workstation Installed Base | 351  | 457  | 582  | 750  | 1,016 | 30%   |
| North America              |      |      |      |      | -     |       |
| Total Revenue              | 7    | 12   | 26   | 28   | 28    | 43%   |
| System Shipments           | 15   | 24   | 100  | 167  | 220   | 96%   |
| Workstation Shipments      | 64   | 103  | 138  | 176  | 232   | 38%   |
| Workstation Installed Base | 307  | 395  | 513  | 662  | 894   | 31%   |
| Europe                     |      |      |      |      |       |       |
| Total Revenue              | 0    | 0    | 2    | 2    | 3     | ERR   |
| System Shipments           | 0    | 0    | 8    | 10   | 18    | ERR   |
| Workstation Shipments      | 0    | 0    | 11   | 10   | 19    | ERR   |
| Workstation Installed Base | 0    | 0    | 11   | 22   | 41    | ERR   |
| Far East                   |      |      |      |      |       |       |
| Total Revenue              | 0    | 0    | 0    | 0    | 0     | ERR   |
| System Shipments           | 3    | 0    | 0    | 0    | 6     | -100% |
| Workstation Shipments      | 3    | 0    | 0    | 0    | 0     | -100% |
| Workstation Installed Base | 3    | 2    | 1    | 1    | 0     | -100% |
| Rest of World              |      |      |      |      |       |       |
| Total Revenue              | 2    | 3    | 0    | 2    | 2     | 1%    |
| System Shipments           | 3    | 5    | 0    | 10   | 15    | 49%   |
| Workstation Shipments      | 13   | 21   | 0    | 10   | 16    | 5%    |
| Workstation Installed Base | 41   | 60   | 57   | 65   | 80    | 18%   |
| Stande lone                |      |      |      |      |       |       |
| Total Revenue              | 0    | 0    | 18   | 31   | 31    | ERR   |
| System Shipments           | 3    | 0    | 95   | 183  | 249   | 202%  |
| Workstation Shipments      | 3    | 0    | 95   | 183  | 249   | 202%  |
| Workstation Installed Base | 3    | 2    | 95   | 273  | 521   | 263%  |
| Host-Dependent             |      |      |      |      |       |       |
| Total Revenue              | 9    | 15   | 10   | 1    | 2     | -31%  |
| System Shipments           | 18   | 29   | 13   | 4    | 5     | -28%  |
| Workstation Shipments      | 77   | 124  | 54   | 13   | 18    | -30%  |
| Workstation Installed Base | 348  | 455  | 487  | 477  | 494   | 9%    |
| Personal Computer          |      |      |      |      |       |       |
| Total Revenue              | 0    | 0    | 0    | 0    | 0     | ERR   |
| System Shipments           | 0    | 0    | 0    | 0    | 0     | ERR   |
| Workstation Shipments      | 0    | 0    | 0    | 0    | 0     | ERR   |
| Workstation Installed Base | 0    | 0    | 0    | 0    | 0     | ERR   |
|                            |      |      |      |      |       |       |

Source: Dataquest

TABLE NUMBER:

C-13

TITLE:

Company History

COMPANY:

Auto-Trol

APPLICATION:

AEC

UNITS:

Millions of Dollars and Actual Units

|                            | 1981 | 1982  | 1983  | 1984  | 1985  | CAGR  |
|----------------------------|------|-------|-------|-------|-------|-------|
|                            |      | -     | ESSE  |       | EREE  | HHHH  |
| Worldwide                  |      |       |       |       |       |       |
| Total Revenue              | 30   | 30    | 26    | 36    | 33    | 3%    |
| System Shipments           | 61   | 54    | 104   | 209   | 250   | 42%   |
| Workstation Shipments      | 261  | 232   | 142   | 219   | 264   | 0%    |
| Workstation Installed Base | 914  | 1,100 | 1,187 | 1,349 | 1,605 | 15%   |
| North America              |      |       |       |       |       |       |
| Total Revenue              | 25   | 23    | 23    | 33    | 26    | 1%    |
| System Shipments           | 54   | 45    | 90    | 187   | 207   | 40%   |
| Workstation Shipments      | 231  | 193   | 125   | 196   | 219   | - 1%  |
| Workstation Installed Base | 811  | 963   | 1,039 | 1,183 | 1,402 | 15%   |
| Europe                     |      |       |       |       |       |       |
| Total Revenue              | 0    | 0     | 2     | 2     | 5     | ERR   |
| System Shipments           | 0    | 0     | 8     | 11    | 28    | ERR   |
| Workstation Shipments      | 0    | 0     | 11    | 11    | 29    | ERR   |
| Workstation Installed Base | 0    | 0     | 11    | 23    | 52    | ERR   |
| Far East                   |      |       |       |       |       |       |
| Total Revenue              | 0    | 0     | 1     | 0     | 0     | ERR   |
| System Shipments           | 0    | 0     | 6     | 0     | 0     | ERR   |
| Workstation Shipments      | 0    | 0     | 6     | 1     | 0     | ERR   |
| Workstation Installed Base | 0    | 0     | 7     | 7     | 0     | ERR   |
| Rest of World              |      |       |       |       |       |       |
| Total Revenue              | 5    | 7     | 0     | 2     | 2     | -21%  |
| System Shipments           | 7    | 9     | 0     | 11    | 15    | 21%   |
| Workstation Shipments      | 30   | 39    | 0     | 11    | 16    | - 15% |
| Workstation Installed Base | 103  | 137   | 130   | 136   | 151   | 10%   |
| Standalone                 |      |       |       |       |       |       |
| Total Revenue              | 0    | 0     | 16    | 35    | 31    | ERR   |
| System Shipments           | 0    | 0     | 88    | 205   | 246   | ERR   |
| Workstation Shipments      | 0    | 0     | 88    | 205   | 246   | ERR   |
| Workstation Installed Base | 0    | 0     | 88    | 289   | 532   | ERR   |
| Rost-Dependent             |      |       |       |       |       |       |
| Total Revenue              | 30   | 30    | 10    | 2     | 2     | -49%  |
| System Shipments           | 61   | 54    | 16    | 4     | 5     | -47%  |
| Workstation Shipments      | 261  | 232   | 54    | 14    | 18    | -49%  |
| Workstation Installed Base | 914  | 1,100 | 1,099 | 1,060 | 1,073 | 4%    |
| Personal Computer          |      |       |       |       |       |       |
| Total Revenue              | 0    | 0     | 0     | 0     | 0     | ERR   |
| System Shipments           | 0    | 0     | 0     | 0     | 0     | ERR   |
| Workstation Shipments      | 0    | 0     | 0     | 0     | 0     | ERR   |
| Workstation Installed Base | 0    | 0     | 0     | 0     | 0     | ERR   |
|                            |      |       |       |       |       |       |

TABLE NUMBER:

C-14

TITLE:

Company History

COMPANY: APPLICATION: Auto-Trol

Mapping

UNITS:

Millions of Dollars and Actual Units

|                             | 1981 | 1982 | 1983 | 1984 | 1985 | CAGR   |
|-----------------------------|------|------|------|------|------|--------|
|                             |      | ==== | ==== | 2777 |      | 2522   |
| Worldwide                   |      |      |      |      |      |        |
| Total Revenue               | 4    | 4    | 2    | 0    | 0    | -100%  |
| System Shipments            | 9    | 7    | 6    | 0    | 0    | -100%  |
| Workstation Shipments       | 53   | 30   | 4    | O    | 0    | -100%  |
| Workstation Installed Base  | 174  | 196  | 194  | 185  | 185  | 2%     |
| North America               |      |      |      |      |      |        |
| Total Revenue               | 3    | 3    | 2    | 0    | 0    | -100%  |
| System Shipments            | 7    | 5    | 6    | 0    | 0    | - 100% |
| Workstation Shipments       | 44   | 21   | 4    | 0    | 0    | -100%  |
| Workstation Installed Base  | 149  | 163  | 163  | 155  | 155  | 1%     |
| Europe                      |      |      |      |      |      |        |
| Total Revenue               | 0    | 0    | 0    | 0    | 0    | ERR    |
| System Shipments            | 0    | 0    | 0    | 0    | 0    | ERR    |
| Workstation Shipments       | 0    | 0    | 0    | 0    | 0    | ERR    |
| Workstation Installed Base  | 0    | 0    | 0    | 0    | 0    | ERR    |
| Far East                    |      |      |      |      |      |        |
| Total Revenue               | 0    | 0    | 0    | 0    | 0    | ERR    |
| System Shipments            | 0    | 0    | 0    | 0    | 0    | ERR    |
| Workstation Shipments       | 0    | 0    | 0    | 0    | 0    | ERR    |
| Workstation Installed Base  | 0    | 0    | 0    | 0    | 0    | ERR    |
| Rest of World               |      |      |      |      |      |        |
| Total Revenue               | 1    | 1    | 0    | 0    | 0    | -100%  |
| System Shipments            | 2    | 2    | 0    | 0    | 0    | -100%  |
| Workstation Shipments       | 9    | 9    | 0    | 0    | 0    | -100%  |
| Workstation Installed Base  | 25   | 33   | 31   | 30   | 30   | 5%     |
| Standa lone                 |      |      |      |      |      |        |
| Total Revenue               | 0    | 0    | 1    | 0    | 0    | ERR    |
| System Shipments            | 0    | 0    | 5    | 0    | 0    | ERR    |
| Workstation Shipments       | 0    | 0    | 0    | 0    | 0    | ERR    |
| Workstation Installed Base  | 0    | 0    | 5    | 5    | 5    | ERR    |
| Host-D <del>ependen</del> t |      |      |      |      |      |        |
| Total Revenue               | 4    | 4    | 1    | 0    | 0    | - 100% |
| System Shipments            | 9    | 7    | 1    | 0    | 0    | -100%  |
| Workstation Shipments       | 53   | 30   | 4    | 0    | 0    | -100%  |
| Workstation Installed Base  | 174  | 196  | 189  | 180  | 180  | 1%     |
| Personal Computer           |      |      |      |      |      |        |
| Total Revenue               | 0    | 0    | 0    | 0    | 0    | ERR    |
| System Shipments            | 0    | 0    | 0    | 0    | 0    | ERR    |
| Workstation Shipments       | 0    | 0    | 0    | 0    | 0    | ERR    |
| Workstation Installed Base  | 0    | 0    | 0    | 0    | 0    | ERR    |
|                             |      |      |      |      |      |        |

Source: Dataquest

TABLE NUMBER:

C-15

TITLE:

Company History

COMPANY:

Auto-Trol

APPLICATION:

PCB

UNITS:

Millions of Dollars and Actual Units

|                            | 1981 | 1982 | 1983 | 1984 | 1985 | CAGR   |
|----------------------------|------|------|------|------|------|--------|
|                            | ==== | ==== | ==== | ==== |      | ####   |
| <b>Worldwide</b>           |      |      |      |      |      |        |
| Total Revenue              | 4    | 1    | 0    | 0    | 0    | -100%  |
| System Shipments           | 8    | 2    | 0    | 0    | 0    | -100%  |
| Workstation Shipments      | 34   | 8    | 0    | 0    | 0    | -100%  |
| Workstation Installed Base | 164  | 164  | 156  | 148  | 148  | -3%    |
| North America              |      |      |      |      |      |        |
| Total Revenue              | 3    | 1    | 0    | 0    | 0    | -100%  |
| System Shipments           | 7    | 1    | 0    | 0    | 0    | - 100% |
| Workstation Shipments      | 30   | 4    | 0    | 0    | 0    | -100%  |
| Workstation Installed Base | 139  | 136  | 129  | 123  | 123  | -3%    |
| Europe                     |      |      |      |      |      |        |
| Total Revenue              | 0    | 0    | 0    | 0    | 0    | ERR    |
| System Shipments           | 0    | 0    | 0    | 0    | 0    | ERR    |
| Workstation Shipments      | 0    | 0    | 0    | 0    | 0    | ERR    |
| Workstation Installed Base | 0    | 0    | 0    | 0    | 0    | ERR    |
| Far East                   |      |      |      |      |      |        |
| Total Revenue              | 0    | 0    | 0    | 0    | 0    | ERR    |
| System Shipments           | 0    | 0    | 0    | 0    | 0    | ERR    |
| Workstation Shipments      | 0    | 0    | 0    | 0    | 0    | ERR    |
| Workstation Installed Base | 0    | 0    | 0    | 0    | 0    | ERR    |
| Rest of World              |      |      |      |      |      |        |
| Total Revenue              | 1    | 0    | 0    | 0    | 0    | -100%  |
| System Shipments           | 1    | 1    | 0    | 0    | 0    | -100%  |
| Workstation Shipments      | 4    | 4    | 0    | 0    | 0    | -100%  |
| Workstation Installed Base | 25   | 28   | 27   | 25   | 25   | 0%     |
| Standalone                 |      |      |      |      |      |        |
| Total Revenue              | 0    | 0    | 0    | 0    | 0    | ERR    |
| System Shipments           | 0    | 0    | 0    | 0    | 0    | ERR    |
| Workstation Shipments      | 0    | 0    | 0    | 0    | 0    | ERR    |
| Workstation Installed Base | 0    | 0    | 0    | 0    | 0    | ERR    |
| Host-Dependent             |      |      |      |      |      |        |
| Total Revenue              | 4    | 1    | 0    | 0    | 0    | -100%  |
| System Shipments           | 8    | 2    | 0    | 0    | 0    | -100%  |
| Workstation Shipments      | 34   | 8    | 0    | 0    | 0    | -100%  |
| Workstation Installed Base | 164  | 164  | 156  | 148  | 148  | -3%    |
| Personal Computer          |      |      |      |      |      |        |
| Total Revenue              | 0    | 0    | 0    | 0    | 0    | ERR    |
| System Shipments           | 0    | 0    | 0    | 0    | 0    | ERR    |
| Workstation Shipments      | 0    | 0    | 0 -  | 0    | 0    | ERR    |
| Workstation Installed Base | 0    | 0    | 0    | 0    | 0    | ERR    |

Source: Dataquest

TABLE NUMBER:

C-16

TITLE:

Company History

COMPANY:

Cadnetix

APPLICATION:

All Applications

UNITS:

Millions of Dollars and Actual Units

| Worldwide   Total Revenue   O   O   O   O   O   O   O   O   ERR   |
|---|
| Total Revenue         0         0         0         0         25         ERR           System Shipments         0         0         0         0         300         ERR           Workstation Shipments         0         0         0         0         110         410         ERR           North America         Total Revenue         0         0         0         0         22         ERR           System Shipments         0         0         0         0         250         ERR           Workstation Installed Base         0         0         0         110         360         ERR           Europe         Total Revenue         0         0         0         0         2         ERR           System Shipments         0         0         0         0         25         ERR           Workstation Shipments         0         0         0         0         25         ERR           Workstation Installed Base         0         0         0         0         25         ERR           Far East   |
| System Shipments         0         0         0         0         300         ERR           Workstation Shipments         0         0         0         0         300         ERR           Workstation Installed Base         0         0         0         110         410         ERR           North America         Total Revenue         0         0         0         0         22         ERR           System Shipments         0         0         0         0         250         ERR           Workstation Installed Base         0         0         0         110         360         ERR           Europe         Total Revenue         0         0         0         0         2         ERR           System Shipments         0         0         0         0         25         ERR           Workstation Shipments         0         0         0         0         25         ERR           Workstation Installed Base         0         0         0         0         25         ERR           Far East   |
| Workstation Shipments         0         0         0         0         300         ERR           Workstation Installed Base         0         0         0         110         410         ERR           North America         Total Revenue         0         0         0         0         22         ERR           System Shipments         0         0         0         0         250         ERR           Workstation Installed Base         0         0         0         110         360         ERR           Europe         Total Revenue         0         0         0         0         2         ERR           System Shipments         0         0         0         0         25         ERR           Workstation Shipments         0         0         0         0         25         ERR           Workstation Installed Base         0         0         0         0         25         ERR           Far East         Far East   |
| Workstation Installed Base         0         0         0         110         410         ERR           North America         Total Revenue         0         0         0         0         0         22         ERR           System Shipments         0         0         0         0         0         250         ERR           Workstation Shipments         0         0         0         110         360         ERR           Europe         Total Revenue         0         0         0         0         2         ERR           System Shipments         0         0         0         0         25         ERR           Workstation Shipments         0         0         0         0         25         ERR           Far East   |
| North America         Company of the property |
| Total Revenue         0         0         0         0         22         ERR           System Shipments         0         0         0         0         250         ERR           Workstation Shipments         0         0         0         0         250         ERR           Workstation Installed Base         0         0         0         110         360         ERR           Europe         Total Revenue         0         0         0         0         2         ERR           System Shipments         0         0         0         0         25         ERR           Workstation Shipments         0         0         0         0         25         ERR           Far East         East         0         0         0         0         25         ERR   |
| System Shipments         0         0         0         0         250         ERR           Workstation Shipments         0         0         0         0         0         250         ERR           Workstation Installed Base         0         0         0         110         360         ERR           Europe         Total Revenue         0         0         0         0         2         ERR           System Shipments         0         0         0         0         25         ERR           Workstation Shipments         0         0         0         0         25         ERR           Workstation Installed Base         0         0         0         0         25         ERR           Far East  |
| Workstation Shipments         0         0         0         0         250         ERR           Workstation Installed Base         0         0         0         110         360         ERR           Europe         Total Revenue         0         0         0         0         2         ERR           System Shipments         0         0         0         0         25         ERR           Workstation Shipments         0         0         0         0         25         ERR           Workstation Installed Base         0         0         0         0         25         ERR           Far East   |
| Workstation Installed Base         0         0         0         110         360         ERR           Europe         Total Revenue         0         0         0         0         2         ERR           System Shipments         0         0         0         0         25         ERR           Workstation Shipments         0         0         0         0         25         ERR           Workstation Installed Base         0         0         0         0         25         ERR           Far East   |
| Europe  Total Revenue 0 0 0 0 0 2 ERR System Shipments 0 0 0 0 25 ERR Workstation Shipments 0 0 0 0 25 ERR Workstation Installed Base 0 0 0 0 25 ERR Far East   |
| Total Revenue         0         0         0         0         2         ERR           System Shipments         0         0         0         0         25         ERR           Workstation Shipments         0         0         0         0         25         ERR           Workstation Installed Base         0         0         0         0         25         ERR           Far East   |
| System Shipments         0         0         0         0         25         ERR           Workstation Shipments         0         0         0         0         25         ERR           Workstation Installed Base         0         0         0         0         25         ERR           Far East         0         0         0         0         0         25         ERR  |
| Workstation Shipments 0 0 0 0 25 ERR Workstation Installed Base 0 0 0 0 25 ERR Far East   |
| Workstation Installed Base 0 0 0 0 25 ERR Far East  |
| Far East  |
|   |
| Total Bayanya 0 0 0 0 0 5 EDB   |
| Total Revenue 0 0 0 0 2 ERR   |
| System Shipments 0 0 0 0 25 ERR   |
| Workstation Shipments 0 0 0 0 25 ERR  |
| Workstation Installed Base 0 0 0 0 25 ERR   |
| Rest of World   |
| Total Revenue 0 0 0 0 ERR   |
| System Shipments 0 0 0 0 ERR  |
| Workstation Shipments 0 0 0 0 ERR   |
| Workstation Installed Base 0 0 0 0 ERR  |
| Standalone  |
| Total Revenue 0 0 0 0 25 ERR  |
| System Shipments 0 0 0 0 300 ERR  |
| Workstation Shipments 0 0 0 0 300 ERR   |
| Workstation Installed Base 0 0 0 110 410 ERR  |
| Host-Dependent  |
| Total Revenue 0 0 0 0 ERR   |
| System Shipments 0 0 0 0 ERR  |
| Workstation Shipments 0 0 0 0 ERR   |
| Workstation Installed Base 0 0 0 0 ERR  |
| Personal Computer   |
| Total Revenue 0 0 0 0 ERR   |
| System Shipments 0 0 0 0 ERR  |
| Workstation Shipments 0 0 0 0 ERR   |
| Workstation Installed Base 0 0 0 0 ERR  |

TABLE NUMBER:

C-17

TITLE:

Company History

COMPANY:

Cadnetix

APPLICATION:

EDA

UNITS:

Millions of Dollars and Actual Units

|                            | 1981 | 1982 | 1983 | 1984 | 1985 | CAGR |
|----------------------------|------|------|------|------|------|------|
|                            | ==== |      | EEEE | ==== | ==== | ==== |
| Worldwide                  |      |      |      |      |      |      |
| Total Revenue              | 0    | 0    | 0    | 0    | 8    | ERR  |
| System Shipments           | 0    | 0    | 0    | 0    | 101  | ERR  |
| Workstation Shipments      | 0    | 0    | 0    | 0    | 101  | ERR  |
| Workstation Installed Base | 0    | 0    | 0    | 0    | 101  | ERR  |
| North America              |      |      |      |      |      |      |
| Total Revenue              | 0    | 0    | 0    | 0    | 6    | ERR  |
| System Shipments           | 0    | 0    | 0    | 0    | 86   | ERR  |
| Workstation Shipments      | 0    | 0    | 0    | . 0  | 86   | ERR  |
| Workstation Installed Base | 0    | 0    | 0    | 0    | 86   | ERR  |
| Europe                     |      |      |      |      |      |      |
| Total Revenue              | 0    | 0    | 0    | 0    | 1    | ERR  |
| System Shipments           | 0    | 0    | 0    | 0    | 8    | ERR  |
| Workstation Shipments      | 0    | 0    | 0    | 0    | 8    | ERR  |
| Workstation Installed Base | 0    | 0    | 0    | 0    | 8    | ERR  |
| Far East                   |      |      |      |      |      |      |
| Total Revenue              | 0    | Đ    | 0    | 0    | 1    | ERR  |
| System Shipments           | 0    | 0    | 0    | 0    | 8    | ERR  |
| Workstation Shipments      | 0    | 0    | 0    | 0    | 8    | ERR  |
| Workstation Installed Base | 0    | 0    | 0    | 0    | 8    | ERR  |
| Rest of World              |      |      |      |      |      |      |
| Total Revenue              | 0    | 0    | 0    | . 0  | 0    | ERR  |
| System Shipments           | 0    | 0    | 0    | 0    | 0    | ERR  |
| Workstation Shipments      | 0    | . 0  | 0    | 0    | 0    | ERR  |
| Workstation Installed Base | 0    | 0    | 0    | 0    | 0    | ERR  |
| Standalone                 |      |      |      |      |      |      |
| Total Revenue              | 0    | 0    | 0    | 0    | 8    | ERR  |
| System Shipments           | 0    | 0    | Û    | 0    | 101  | ERR  |
| Workstation Shipments      | 0    | 0    | 0    | 0    | 101  | ERR  |
| Workstation Installed Base | 0    | 0    | 0    | 0    | 101  | ERR  |
| Host-Dependent             |      |      |      |      |      |      |
| Total Revenue              | 0    | 0    | 0    | 0    | 0    | ERR  |
| System Shipments           | 0    | 0    | 0    | 0    | 0    | ERR  |
| Workstation Shipments      | 0    | 0    | 0    | 0    | 0    | ERR  |
| Workstation Installed Base | 0    | 0    | 0    | 0    | 0    | ERR  |
| Personal Computer          |      |      |      |      |      |      |
| Total Revenue              | 0    | 0    | 0    | 0    | 0    | ERR  |
| System Shipments           | 0    | 0    | 0    | 0    | 0    | ERR  |
| Workstation Shipments      | 0    | 0    | 0    | 0    | 0    | ERR  |
| Workstation Installed Base | 0    | 0    | 0    | 0    | 0    | ERR  |
|                            |      |      |      |      |      |      |

TABLE NUMBER:

C-18

TITLE:

Company History

COMPANY:

Cadnetix

APPLICATION:

PCB

UNITS:

Millions of Dollars and Actual Units

|                            | 1981 | 1982     | 1983 | 1984           | 1985            | CAGR |
|----------------------------|------|----------|------|----------------|-----------------|------|
|                            | -    | <u> </u> | ***  | <del>-</del> - | ====            | 2252 |
| Worldwide                  |      |          |      |                |                 |      |
| Total Revenue              | 0    | 0        | 0    | 0              | 17              | ERR  |
| System Shipments           | 0    | 0        | 0    | 0              | 199             | ERR  |
| Workstation Shipments      | 0    | 0        | 0    | 0              | 19 <del>9</del> | ERR  |
| Workstation Installed Base | 0    | 0        | 0    | 110            | 309             | ERR  |
| North America              |      |          |      |                |                 |      |
| Total Revenue              | 0    | 0        | 0    | 0              | 15              | ERR  |
| System Shipments           | 0    | 0        | 0    | 0              | 164             | ERR  |
| Workstation Shipments      | 0    | 0        | 0    | 0              | 164             | ERR  |
| Workstation Installed Base | 0    | 0        | 0    | 110            | 274             | ERR  |
| Europe                     |      |          |      |                |                 |      |
| Total Revenue              | 0    | 0        | 0    | 0              | 1               | ERR  |
| System Shipments           | 0    | 0        | 0    | 0              | 18              | ERR  |
| Workstation Shipments      | 0    | 0        | 0    | 0              | 18              | ERR  |
| Workstation Installed Base | 0    | 0        | 0    | 0              | 18              | ERR  |
| far East                   |      |          |      |                |                 |      |
| Total Revenue              | 0    | 0        | 0    | 0              | 1               | ERR  |
| System Shipments           | 0    | 0        | 0    | 0              | 18              | ERR  |
| Workstation Shipments      | 0    | 0        | 0    | 0              | 18              | ERR  |
| Workstation Installed Base | 0    | 0        | 0    | 0              | 18              | ERR  |
| Rest of World              |      |          |      |                |                 |      |
| Total Revenue              | 0    | 0        | 0    | 0              | 0               | ERR  |
| System Shipments           | 0    | 0        | 0    | 0              | 0               | ERR  |
| Workstation Shipments      | 0    | 0        | 0    | Ð              | 0               | ERR  |
| Workstation Installed Base | 0    | 0        | 0    | 0              | 0               | ERR  |
| Standalone                 |      |          |      |                |                 |      |
| Total Revenue              | 0    | 0        | 0    | 0              | 17              | ERR  |
| System Shipments           | 0    | 0        | 0    | 0              | 199             | ERR  |
| Workstation Shipments      | 0    | 0        | 0    | 0              | 199             | ERR  |
| Workstation Installed Base | 0    | 0        | 0    | 110            | 309             | ERR  |
| Host-Dependent             |      |          |      |                |                 |      |
| Total Revenue              | 0    | 0        | 0    | 0              | 0               | ERR  |
| System Shipments           | 0    | 0        | 0    | 0              | 0               | ERR  |
| Workstation Shipments      | 0    | 0        | 0    | 0              | 0.              | ERR  |
| Workstation Installed Base | 0    | 0        | 0    | 0              | 0               | ERR  |
| Personal Computer          |      |          |      |                |                 |      |
| Total Revenue              | 0    | 0        | 0    | 0              | 0               | ERR  |
| System Shipments           | 0    | 0        | 0    | 0              | 0               | ERR  |
| Workstation Shipments      | 0    | 0        | 0    | 0              | 0               | ERR  |
| Workstation Installed Base | 0    | 0        | 0    | 0              | 0               | ERR  |
|                            |      |          |      |                |                 |      |

Source: Dataquest

TABLE NUMBER:

C-19

TITLE:

Company History

COMPANY:

Calay

APPLICATION:

All Applications

UNITS:

Millions of Dollars and Actual Units

|                            | 1981 | 1982 | 1983 | 1984 | 1985 | CAGR |
|----------------------------|------|------|------|------|------|------|
|                            | 2522 | E=== |      |      | **** | 565E |
| Worldwide                  |      |      |      |      |      |      |
| Total Revenue              | 0    | 0    | 0    | 0    | 16   | ERR  |
| System Shipments           | 0    | 0    | 0    | 0    | 103  | ERR  |
| Workstation Shipments      | 0    | 0    | 0    | 0    | 126  | ERR  |
| Workstation Installed Base | 0    | 0    | 0    | 150  | 275  | ERR  |
| North America              |      |      |      |      |      |      |
| Total Revenue              | 0    | 0    | 0    | 0    | 16   | ERR  |
| System Shipments           | 0    | 0    | 0    | 0    | 103  | ERR  |
| Workstation Shipments      | 0    | 0    | 0    | 0    | 126  | ERR  |
| Workstation Installed Base | 0    | 0    | 0    | 150  | 275  | ERR  |
| Europe                     |      |      |      |      |      |      |
| Total Revenue              | 0    | 0    | 0    | 0    | 0    | ERR  |
| System Shipments           | 0    | 0    | 0    | 0    | 0    | ERR  |
| Workstation Shipments      | 0    | 0    | 0    | 0    | 0    | ERR  |
| Workstation Installed Base | 0    | 0    | 0    | 0    | 0    | ERR  |
| Far East                   |      |      |      |      |      |      |
| Total Revenue              | 0    | 0    | 0    | 0    | 0    | ERR  |
| System Shipments           | 0    | 0    | 0    | 0    | 0    | ERR  |
| Workstation Shipments      | Û    | 0    | 0    | 0    | 0    | ERR  |
| Workstation Installed Base | 0    | 0    | 0    | 0    | 0    | ERR  |
| Rest of World              |      |      |      |      |      |      |
| Total Revenue              | 0    | 0    | 0    | 0    | 0    | ERR  |
| System Shipments           | 0    | 0    | 0    | 0    | 0    | ERR  |
| Workstation Shipments      | 0    | 0    | 0    | 0    | 0    | ERR  |
| Workstation Installed Base | 0    | 0    | 0    | 0    | 0    | ERR  |
| Standalone                 |      |      |      |      |      |      |
| Total Revenue              | 0    | 0    | 0    | 0    | 12   | ERR  |
| System Shipments           | 0    | 0    | 0    | 0    | 80   | ERR  |
| Workstation Shipments      | 0    | 0    | 0    | 0    | 80   | ERR  |
| Workstation Installed Base | 0    | 0    | 0    | 30   | 110  | ERR  |
| Host-Dependent             |      |      |      |      |      |      |
| Total Revenue              | 0    | 0    | 0    | 0    | 3    | ERR  |
| System Shipments           | 0    | 0    | 0    | 0    | 23   | ERR  |
| Workstation Shipments      | 0    | 0    | 0    | 0    | 45   | ERR  |
| Workstation Installed Base | 0    | 0    | 0    | 120  | 165  | ERR  |
| Personal Computer          |      |      |      |      |      |      |
| Total Revenue              | 0    | 0    | 0    | 0    | 0    | ERR  |
| System Shipments           | 0    | 0    | 0    | 0    | 0    | ERR  |
| Workstation Shipments      | 0    | 0    | 0    | 0    | 0    | ERR  |
| Workstation Installed Base | 0    | 0    | 0    | 0    | 0    | ERR  |
|                            |      |      |      |      |      |      |

Source: Dataquest

TABLE NUMBER:

C-20

TITLE:

Company History

COMPANY:

Calay

APPLICATION:

PCB

UNITS:

Millions of Dollars and Actual Units

|                            | 1981 | 1982 | 1983 | 1984 | 1985 | CAGR        |
|----------------------------|------|------|------|------|------|-------------|
|                            | ==== | ==== | ==== | 2522 | ==== | ***         |
| Worldwide                  |      |      |      |      |      |             |
| Total Revenue              | 0    | 0    | 0    | 0    | 16   | ERR         |
| System Shipments           | 0    | 0    | 0    | 0    | 103  | ERR         |
| Workstation Shipments      | 0    | 0    | 0    | 0    | 126  | ERR         |
| Workstation Installed Base | 0    | 0    | 0    | 150  | 275  | ERR         |
| North America              |      |      |      |      |      |             |
| Total Revenue              | 0    | 0    | 0    | 0    | 16   | ERR         |
| System Shipments           | 0    | 0    | 0    | 0    | 103  | ERR         |
| Workstation Shipments      | 0    | 0    | 0    | 0    | 126  | ERŔ         |
| Workstation Installed Base | 0    | 0    | 0    | 150  | 275  | ERR         |
| Europe                     |      |      |      |      |      |             |
| Total Revenue              | 0    | 0    | 0    | 0    | 0    | ERR         |
| System Shipments           | 0    | 0    | 0    | 0    | 0    | ERR         |
| Workstation Shipments      | 0    | 0    | 0    | 0    | 0    | ERR         |
| Workstation Installed Base | 0    | 0    | 0    | 0    | 0    | ERR         |
| Far East                   |      |      |      |      |      |             |
| Total Revenue              | 0    | 0    | 0    | 0    | 0    | ERR         |
| System Shipments           | 0    | 0    | 0    | 0    | 0    | ERR         |
| Workstation Shipments      | 0    | 0    | 0    | 0    | 0    | ERR         |
| Workstation Installed Base | 0    | 0    | 0    | 0    | 0    | ERR         |
| Rest of World              |      |      |      |      |      |             |
| Total Revenue              | 0    | 0    | 0    | 0    | 0    | ERR         |
| System Shipments           | 0    | 0    | 0    | 0    | 0    | ER <b>R</b> |
| Workstation Shipments      | 0    | 0    | 0    | 0    | 0    | ERR         |
| Workstation Installed Base | 0    | 0    | 0    | 0    | 0    | ERR         |
| Standatone                 |      |      |      |      |      |             |
| Total Revenue              | 0    | 0    | 0    | 0    | 12   | ERR         |
| System Shipments           | 0    | 0    | 0    | 0    | 80   | ERR         |
| Workstation Shipments      | 0    | 0    | 0    | 0    | 80   | ERR         |
| Workstation Installed Base | 0    | 0    | 0    | 30   | 110  | ERR         |
| Host-Dependent             |      |      |      |      |      |             |
| Total Revenue              | 0    | 0    | 0    | 0    | 3    | ERR         |
| System Shipments           | 0    | 0    | 0    | 0    | 23   | ERR         |
| Workstation Shipments      | 0    | 0    | 0    | 0    | 45   | ERR         |
| Workstation Installed Base | 0    | 0    | 0    | 120  | 165  | ERR         |
| Personal Computer          |      |      |      |      |      |             |
| Total Revenue              | 0    | 0    | 0    | 0    | 0    | ERR         |
| System Shipments           | 0    | 0    | 0    | 0    | 0    | ERR         |
| Workstation Shipments      | 0    | 0    | 0    | 0    | 0    | ERR         |
| Workstation Installed Base | 0    | 0    | 0    | 0    | ٥,   | ERR         |
|                            | -    | -    | =    |      | •    |             |

Source: Dataquest

TABLE NUMBER:

C-21

TITLE:

Company History

COMPANY:

Calcomp

APPLICATION:

All Applications

UNITS:

Millions of Dollars and Actual Units

|                            | 1981 | 1982 | 1983 | 1984 | 1985 | CAGR       |
|----------------------------|------|------|------|------|------|------------|
|                            | ==== |      | -=== | *=== |      | <b>===</b> |
| Worldwide                  |      |      |      |      |      |            |
| Total Revenue              | 0    | 0    | 0    | 0    | 33   | ERR        |
| System Shipments           | 0    | 0    | 0    | 0    | 283  | ERR        |
| Workstation Shipments      | 0    | 0    | 0    | 0    | 283  | ERR        |
| Workstation Installed Base | 0    | 0    | 0    | 0    | 283  | ERR        |
| North America              |      |      |      |      |      |            |
| Total Revenue              | 0    | 0    | 0    | 0    | 20   | ERR        |
| System Shipments           | 0    | 0    | 0    | 0    | 174  | ERR        |
| Workstation Shipments      | 0    | 0    | 0    | 0    | 174  | ERR        |
| Workstation Installed Base | 0    | 0    | 0    | 0    | 174  | ERR        |
| Europe                     |      |      |      |      |      |            |
| Total Revenue              | 0    | 0    | 0    | 0    | 10   | ERR        |
| System Shipments           | 0    | 0    | 0    | 0    | 81   | ERR        |
| Workstation Shipments      | 0    | 0    | 0    | 0    | 81   | ERR        |
| Workstation Installed Base | 0    | 0    | 0    | 0    | 81   | ERR        |
| Far East                   |      |      |      |      |      |            |
| Total Revenue              | 0    | 0    | 0    | 0    | 2    | ERR        |
| System Shipments           | 0    | 0    | 0    | 0    | 14   | ERR        |
| Workstation Shipments      | 0    | 0    | 0    | 0    | 14   | ERR        |
| Workstation Installed Base | 0    | 0    | 0    | 0    | 14   | ERR        |
| Rest of World              |      |      |      |      |      |            |
| Total Revenue              | 0    | 0    | 0    | 0    | 2    | ERR        |
| System Shipments           | 0    | 0    | 0    | 0    | 14   | ERR        |
| Workstation Shipments      | 0    | 0    | 0    | 0    | 14   | ERR        |
| Workstation Installed Base | 0    | 0    | 0    | 0    | 14   | ERR        |
| Standalone                 |      |      |      |      |      |            |
| Total Revenue              | 0    | 0    | 0    | 0    | 31   | ERR        |
| System Shipments           | 0    | 0    | 0    | 0    | 190  | ERR        |
| Workstation Shipments      | 0    | 0    | 0    | 0    | 190  | ERR        |
| Workstation Installed Base | 0    | 0    | 0    | 0    | 190  | ERR        |
| Host-Dependent             |      |      |      |      |      |            |
| Total Revenue              | 0    | 0    | 0    | 0    | 0    | ERR        |
| System Shipments           | 0    | 0    | 0    | 0    | 0    | ERR        |
| Workstation Shipments      | 0    | 0    | 0    | 0    | 0    | ERR        |
| Workstation Installed Base | 0    | 0    | 0    | 0    | 0    | ERR        |
| Personal Computer          |      |      |      |      |      |            |
| Total Revenue              | 0    | 0    | 0    | 0    | 2    | ERR        |
| System Shipments           | 0    | 0    | 0    | 0    | 93   | ERR        |
| Workstation Shipments      | 0    | 0    | 0    | 0    | 93   | ERR        |
| Workstation Installed Base | 0    | 0    | 0    | 0    | 93   | ERR        |
|                            |      |      |      |      |      |            |

TABLE WUMBER:

C-22

TITLE:

Company History

COMPANY:

Calcomp

APPLICATION:

AEC

UNITS:

Millions of Dollars and Actual Units

|                            | 1981 | 1982         | 1983 | 1984 | 1985 | CAGR |
|----------------------------|------|--------------|------|------|------|------|
|                            | 2322 | <b>47</b> K= | ==== |      |      | ==== |
| Worldwide                  |      |              |      |      |      |      |
| Total Revenue              | 0    | 0            | 0    | 0    | 33   | ERR  |
| System Shipments           | 0    | 0            | 0    | 0    | 277  | ERR  |
| Workstation Shipments      | 0    | 0            | 0    | 0    | 277  | ERR  |
| Workstation Installed Base | 0    | 0            | 0    | 0    | 277  | ERR  |
| North America              |      |              |      |      |      |      |
| Total Revenue              | 0    | 0            | 0    | 0    | 20   | ERR  |
| System Shipments           | 0    | 0            | 0    | 0    | 171  | ERR  |
| Workstation Shipments      | 0    | 0            | 0    | 0    | 171  | ERR  |
| Workstation Installed Base | 0    | 0            | 0    | 0    | 171  | ERR  |
| Europe                     |      |              |      |      |      |      |
| Total Revenue              | 0    | 0            | 0    | 0    | 10   | ERR  |
| System Shipments           | 0    | 0            | 0    | O`   | 80   | ERR  |
| Workstation Shipments      | 0    | 0            | 0    | 0    | 80   | ERR  |
| Workstation Installed Base | 0    | 0            | 0    | 0    | 80   | ERR  |
| Far East                   |      |              |      |      |      |      |
| Total Revenue              | 0    | 0            | 0    | 0    | 2    | ERR  |
| System Shipments           | 0    | 0            | 0    | 0    | 13   | ERR  |
| Workstation Shipments      | 0    | 0            | 0    | 0    | 13   | ERR  |
| Workstation Installed Base | 0    | C            | 0    | 0    | 13   | ERR  |
| Rest of World              |      |              |      |      |      |      |
| Total Revenue              | 0    | 0            | 0    | 0    | 2    | ERR  |
| System Shipments           | 0    | 0            | 0    | 0    | 13   | ERR  |
| Workstation Shipments      | 0    | 0            | 0    | 0    | 13   | ERR  |
| Workstation Installed Base | 0    | 0            | 0    | 0    | 13   | ERR  |
| Standalone                 |      |              |      |      |      |      |
| Total Revenue              | 0    | 0            | 0    | 0    | 31   | ERR  |
| System Shipments           | 0    | 0            | 0    | 0    | 187  | ERR  |
| Workstation Shipments      | 0    | 0            | 0    | 0    | 187  | ERR  |
| Workstation Installed Base | 0    | 0            | 0    | 0    | 187  | ERR  |
| Host-Dependent             |      |              |      |      |      |      |
| Total Revenue              | 0    | 0            | 0    | 0    | 0    | ERR  |
| System Shipments           | 0    | 0            | 0    | 0    | 0    | ERR  |
| Workstation Shipments      | 0    | 0            | 0    | 0    | 0    | ERR  |
| Workstation Installed Base | 0    | 0            | 0    | 0    | 0    | ERR  |
| Personal Computer          |      |              |      |      |      |      |
| Total Revenue              | 0    | 0            | 0    | 0    | 2    | ERR  |
| System Shipments           | 0    | 0            | 0    | 0    | 91   | ERR  |
| Workstation Shipments      | 0    | 0            | 0    | 0    | 91   | ERR  |
| Workstation Installed Base | 0    | 0            | 0    | 0    | 91   | ERR  |
|                            |      |              |      |      |      |      |

Source: Dataquest

TABLE NUMBER:

C-23

TITLE:

Company History

COMPANY:

Calcomp

APPLICATION:

Happing

UNITS:

Millions of Dollars and Actual Units

|                            | 1981 | 1982 | 1983 | 1984 | 1985 | CAGR |
|----------------------------|------|------|------|------|------|------|
|                            | -    | 2222 | ==== | ==== | ==== | ==== |
| Worldwide                  |      |      |      |      |      |      |
| Total Revenue              | 0    | 0    | 0    | 0    | 1    | ERR  |
| System Shipments           | 0    | 0    | 0    | 0    | 6    | ERR  |
| Workstation Shipments      | 0    | 0    | 0    | 0    | 6    | ERR  |
| Workstation Installed Base | 0    | 0    | 0    | 0    | 6    | ERR  |
| North America              |      |      |      |      |      |      |
| Total Revenue              | 0    | 0    | 0    | 0    | 0    | ERR  |
| System Shipments           | 0    | 0    | 0    | 0    | 3    | ERR  |
| Workstation Shipments      | 0    | 0    | 0    | 0    | 3    | ERR  |
| Workstation Installed Base | 0    | 0    | 0    | 0    | 3    | ERR  |
| Europe                     |      |      |      |      |      |      |
| Total Revenue              | 0    | 0    | 0    | 0    | 0    | ERR  |
| System Shipments           | C    | 0    | 0    | 0    | 2    | ERR  |
| Workstation Shipments      | 0    | 0    | 0    | 0    | 2    | ERR  |
| Workstation Installed Base | 0    | 0    | 0    | 0    | 2    | ERR  |
| Far East                   |      |      |      |      |      |      |
| Total Revenue              | 0    | 0    | 0    | 0    | 0    | ERR  |
| System Shipments           | 0    | 0    | 0    | 0    | 0    | ERR  |
| Workstation Shipments      | 0    | 0    | 0    | 0    | 0    | ERR  |
| Workstation Installed Base | 0    | 0    | 0    | 0    | 0    | ERR  |
| Rest of World              |      |      |      |      |      |      |
| Total Revenue              | 0    | 0    | 0    | 0    | 0    | ERR  |
| System Shipments           | 0    | 0    | 0    | 0    | 0    | ERR  |
| Workstation Shipments      | 0    | 0    | 0    | 0    | 0    | ERR  |
| Workstation Installed Base | 0    | 0    | 0    | 0    | 0    | ERR  |
| Standalone                 |      |      |      |      |      |      |
| Total Revenue              | 0    | 0    | 0    | 0    | 1    | ERR  |
| System Shipments           | 0    | 0    | 0    | 0    | 4    | ERR  |
| Workstation Shipments      | 0    | 0    | 0    | 0    | 4    | ERR  |
| Workstation Installed Base | 0    | 0    | 0    | 0    | 4    | ERR  |
| Host-Dependent             |      |      |      |      |      |      |
| Total Revenue              | 0    | 0    | 0    | 0    | 0    | ERR  |
| System Shipments           | 0    | 0    | 0    | 0    | 0    | ERR  |
| Workstation Shipments      | 0    | 0    | 0    | 0    | 0    | ERR  |
| Workstation Installed Base | 0    | 0    | 0    | 0    | 0    | ERR  |
| Personal Computer          |      |      |      |      |      |      |
| Total Revenue              | 0    | 0    | 0    | 0    | 0    | ERR  |
| System Shipments           | 0    | 0    | 0    | 0    | 2    | ERR  |
| Workstation Shipments      | 0    | 0    | 0    | 0    | 2    | ERR  |
| Workstation Installed Base | 0    | 0    | 0    | 0    | 2    | ERR  |
|                            |      |      |      |      |      |      |

TABLE NUMBER:

C-24

TITLE:

Company History

COMPANY:

Calma

APPLICATION:

All Applications

UNITS:

Millions of Dollars and Actual Units

|                            | 1981  | 1982  | 1983  | 1984  | 1985  | CAGR |
|----------------------------|-------|-------|-------|-------|-------|------|
|                            | ====  | ====  | 2522  | HHEE  | ====  | ==== |
| Worldwide                  |       |       |       |       |       |      |
| Total Revenue              | 93    | 134   | 210   | 204   | 183   | 19%  |
| System Shipments           | 180   | 246   | 405   | 756   | 1,129 | 58%  |
| Workstation Shipments      | 773   | 1,060 | 1,335 | 1,299 | 1,535 | 19%  |
| Workstation Installed Base | 2,137 | 3,091 | 4,209 | 5,242 | 6,766 | 33%  |
| North America              |       |       |       |       |       |      |
| Total Revenue              | 85    | 124   | 148   | 135   | 131   | 12%  |
| System Shipments           | 166   | 230   | 282   | 508   | 755   | 46%  |
| Workstation Shipments      | 712   | 991   | 934   | 872   | 1,013 | 9%   |
| Workstation Installed Base | 1,861 | 2,759 | 3,510 | 4,168 | 5,170 | 29%  |
| Europe                     |       |       |       |       |       |      |
| Total Revenue              | 0     | 0     | 36    | 24    | 37    | ERR  |
| System Shipments           | 0     | 0     | 71    | 88    | 148   | ERR  |
| Workstation Shipments      | 0     | 0     | 234   | 151   | 244   | ERR  |
| Workstation Installed Base | 0     | 0     | 221   | 355   | 599   | ERR  |
| Far East                   |       |       |       |       |       |      |
| Total Revenue              | 0     | 0     | 19    | 37    | 7     | ERR  |
| System Shipments           | 0     | 0     | 40    | 133   | 188   | ERR  |
| Workstation Shipments      | 0     | 0     | 118   | 229   | 225   | ERR  |
| Workstation Installed Base | 0     | 0     | 119   | 329   | 554   | ERR  |
| Rest of World              |       |       |       |       |       |      |
| Total Revenue              | 8     | 10    | 6     | 8     | 7     | -2%  |
| System Shipments           | 14    | 16    | 12    | 27    | 39    | 29%  |
| Workstation Shipments      | 61    | 69    | 49    | 47    | 53    | -4%  |
| Workstation Installed Base | 276   | 332   | 359   | 390   | 443   | 13%  |
| Standalone                 |       |       |       |       |       |      |
| Total Revenue              | 0     | 0     | 7     | 81    | 104   | ERR  |
| System Shipments           | 0     | 0     | 30    | 524   | 951   | ERR  |
| Workstation Shipments      | 0     | 0     | 30    | 524   | 951   | ERR  |
| Workstation Installed Base | 0     | 0     | 30    | 552   | 1,492 | ERR  |
| Host-Dependent             | -     |       |       |       | •     |      |
| Total Revenue              | 93    | 134   | 203   | 123   | 79    | -4%  |
| System Shipments           | 180   | 246   | 375   | 232   | 151   | -4%  |
| Workstation Shipments      | 773   | 1,060 | 1,305 | 775   | 556   | -8%  |
| Workstation Installed Base | 2,137 | 3,091 | 4,179 | 4,690 | 5,246 | 25%  |
| Personal Computer          | _,,   | •,•,• | .,    | .,    | -,    |      |
| Total Revenue              | 0     | 0     | 0     | 0     | 1     | ERR  |
| System Shipments           | ō     | Ď     | ō     | Ŏ     | 28    | ERR  |
| Workstation Shipments      | Ů     | 0     | Ů     | Ů     | 28    | ERR  |
| Workstation Installed Base | o     | 0     | Ŏ     | Ŏ     | 28    | ERR  |
| Included page              | •     | •     | •     | •     |       |      |

Source: Dataquest

TABLE NUMBER:

C-25

TITLE:

Company History

COMPANY:

Calma Mechanical

APPLICATION: UNITS:

Millions of Dollars and Actual Units

|                            | 1981 | 1982    | 1983  | 1984  | 1985  | CAGR |
|----------------------------|------|---------|-------|-------|-------|------|
|                            | ==== | ****    | HERE  | ====  | ====  | ==== |
| Worldwide                  |      |         |       |       |       |      |
| Total Revenue              | 37   | 66      | 105   | 83    | 70    | 17%  |
| System Shipments           | 79   | 131     | 194   | 381   | 412   | 51%  |
| Workstation Shipments      | 337  | 562     | 798   | 525   | 595   | 15%  |
| Workstation Installed Base | 597  | 1,130   | 1,783 | 2,200 | 2,788 | 47%  |
| North America              |      |         |       |       |       |      |
| Total Revenue              | 30   | 58      | 74    | 55    | 43    | 9%   |
| System Shipments           | 67   | 118     | 133   | 256   | 239   | 37%  |
| Workstation Shipments      | 285  | 506     | 556   | 352   | 329   | 4%   |
| Workstation Installed Base | 387  | 874     | 1,324 | 1,597 | 1,919 | 49%  |
| Europe                     |      |         |       |       |       |      |
| Total Revenue              | 0    | 0       | 18    | 10    | 20    | ERR  |
| System Shipments           | 0    | 0       | 35    | 44    | 78    | ERR  |
| Workstation Shipments      | 0    | 0       | 139   | 61    | 129   | ERR  |
| Workstation Installed Base | 0    | 0       | 122   | 175   | 304   | ERR  |
| Far East                   |      |         |       |       |       |      |
| Total Revenue              | 0    | 0       | 8     | 15    | 5     | ERR  |
| System Shipments           | 0    | 0       | 16    | 67    | 80    | ERR  |
| Workstation Shipments      | 0    | 0       | 63    | 93    | 117   | ERR  |
| Workstation Installed Base | 0    | 0       | 58    | 143   | 260   | ERR  |
| Rest of World              |      |         |       |       |       |      |
| Total Revenue              | 7    | 8       | 5     | 3     | 3     | -21% |
| System Shipments           | 12   | 13      | 10    | 14    | 15    | 6%   |
| Workstation Shipments      | 52   | 56      | 40    | 19    | 20    | -21% |
| Workstation Installed Base | 210  | 256     | 279   | 285   | 305   | 10%  |
| Standalone                 |      |         |       |       |       |      |
| Total Revenue              | 0    | 0       | 4     | 50    | 37    | ERR  |
| System Shipments           | 0    | 0       | 14    | 320   | 325   | ERR  |
| Workstation Shipments      | 0    | 0       | 14    | 320   | 325   | ERR  |
| Workstation Installed Base | 0    | 0       | 14    | 334   | 652   | ERR  |
| Host-Dependent             |      |         |       |       |       |      |
| Total Revenue              | 37   | 66      | 101   | 33    | 32    | -4%  |
| System Shipments           | 79   | 131     | 180   | 61    | 70    | -3%  |
| Workstation Shipments      | 337  | 562     | 784   | 205   | 253   | -7%  |
| Workstation Installed Base | 597  | 1,130   | 1,769 | 1,866 | 2,119 | 37%  |
| Personal Computer          |      | • • • • | •     | .,    | -•    |      |
| Total Revenue              | 0    | 0       | 0     | 0     | 1     | ERR  |
| System Shipments           | 0    | 0       | 0     | 0     | 17    | ERR  |
| Workstation Shipments      | Ö    | 0       | Ö     | 0     | 17    | ERR  |
| Workstation Installed Base | Ď    | 0       | Ō     | ō     | 17    | ERR  |
|                            | •    | •       | •     | -     | ••    |      |

TABLE NUMBER:

C-26

TITLE:

Company History

COMPANY:

Calma

APPLICATION:

AEC

UNITS:

Millions of Dollars and Actual Units

|                            | 1981 | 1982 | 1983 | 1984 | 1985 | CAGR |
|----------------------------|------|------|------|------|------|------|
|                            | ==== | ==== | -    | ==== | ===  | 2=== |
| Worldwide                  |      |      |      |      |      |      |
| Total Revenue              | 7    | 18   | 23   | 31   | 37   | 54%  |
| System Shipments           | 14   | 34   | 44   | 175  | 197  | 94%  |
| Workstation Shipments      | 60   | 146  | 170  | 198  | 277  | 47%  |
| Workstation Installed Base | 110  | 251  | 389  | 570  | 843  | 66%  |
| North America              |      |      |      |      |      |      |
| Total Revenue              | 6    | 16   | 16   | 21   | 29   | 51%  |
| System Shipments           | 12   | 31   | 31   | 118  | 161  | 91%  |
| Workstation Shipments      | 51   | 133  | 120  | 134  | 221  | 44%  |
| Workstation Installed Base | 83   | 212  | 307  | 425  | 643  | 67%  |
| Europe                     |      |      |      |      |      |      |
| Total Revenue              | 0    | 0    | 4    | 4    | 7    | ERR  |
| System Shipments           | 0    | 0    | 8    | 20   | 27   | ERR  |
| Workstation Shipments      | 0    | 0    | 31   | 22   | 43   | ERR  |
| Workstation Installed Base | 0    | 0    | 27   | 49   | 92   | ERR  |
| far East                   |      |      |      |      |      |      |
| Total Revenue              | 0    | 0    | 2    | 6    | 0    | ERR  |
| System Shipments           | 0    | 0    | 3    | 31   | 2    | ERR  |
| Workstation Shipments      | 0    | 0    | 10   | 36   | 2    | ERR  |
| Workstation Installed Base | 0    | 0    | 10   | 45   | 47   | ERR  |
| Rest of World              |      |      |      |      |      |      |
| Total Revenue              | 1    | 2    | 1    | 1    | 1    | 12%  |
| System Shipments           | 2    | 3    | 2    | 6    | 8    | 41%  |
| Workstation Shipments      | 9    | 13   | 9    | 6    | 11   | 5%   |
| Workstation Installed Base | 27   | 39   | 45   | 51   | 62   | 23%  |
| Standa lone                |      |      |      |      |      |      |
| Total Revenue              | 0    | 0    | 1    | 26   | 20   | ERR  |
| System Shipments           | 0    | 0    | 5    | 165  | 157  | ERR  |
| Workstation Shipments      | 0    | 0    | 5    | 165  | 157  | ERR  |
| Workstation Installed Base | 0    | 0    | 5    | 170  | 324  | ERR  |
| Host-Dependent             |      |      |      |      |      |      |
| Total Revenue              | 7    | 18   | 22   | 6    | 17   | 27%  |
| System Shipments           | 14   | 34   | 39   | 10   | 29   | 20%  |
| Workstation Shipments      | 60   | 146  | 165  | 33   | 109  | 16%  |
| Workstation Installed Base | 110  | 251  | 384  | 400  | 509  | 47%  |
| Personal Computer          |      |      |      |      |      |      |
| Total Revenue              | 0    | 0    | 0    | 0    | 0    | ERR  |
| System Shipments           | 0    | 0    | 0    | 0    | 11   | ERR  |
| Workstation Shipments      | 0    | 0    | 0    | 0    | 11   | ERR  |
| Workstation Installed Base | 0    | 0    | 0    | 0    | 11   | ERR  |

TABLE NUMBER:

C-27

TITLE:

Company History

COMPANY:

Calma

APPLICATION:

EDA

UNITS:

Millions of Dollars and Actual Units

| Morldwide   Total Revenue   0  |                            | 1981 | 1982 | 1983 | 1984 | 1985 | CAGR |
|--|----------------------------|------|------|------|------|------|------|
| Total Revenue  |                            | ***  |      |      |      | 2200 | ==== |
| System Shipments   | Worldwide                  |      |      |      |      |      |      |
| Workstation Shipments         0         0         11         32         31         ERR           Workstation Installed Base         0         0         11         41         71         ERR           North America         Total Revenue         0         0         2         3         4         ERR           System Shipments         0         0         9         21         31         ERR           Workstation Installed Base         0         0         9         29         59         ERR           Europe         Total Revenue         0         0         0         0         0         ERR           System Shipments         0         0         0         4         0         ERR           Workstation Installed Base         0         0         0         4         4         ERR           System Shipments         0         0         0         1         0         ERR           Workstation Installed Base         0         0         2         6         0         ERR           Rest of World         Total Revenue         0         0         0         0         0         0         ERR  | Total Revenue              | 0    | 0    | 2    | 4    | 4    | ERR  |
| Morkstation Installed Base   | System Shipments           | 0    | 0    | 11   | 32   | 31   | ERR  |
| North America   Total Revenue  | Workstation Shipments      | 0    | 0    | 11   | 32   | 31   | ERR  |
| Total Revenue  | Workstation Installed Base | 0    | 0    | 11   | 41   | 71   | ERR  |
| System Shipments   | North America              |      |      |      |      |      |      |
| Workstation Shipments         0         0         9         21         31         ERR           Workstation Installed Base         0         0         9         29         59         ERR           Europe         Total Revenue         0         0         0         0         0         0         ERR           System Shipments         0         0         0         4         0         ERR           Workstation Installed Base         0         0         0         4         4         ERR           Far East         Total Revenue         0         0         0         1         0         ERR           System Shipments         0         0         2         6         0         ERR           Workstation Installed Base         0         0         0         0         0         ERR           System Shipments         0         0         0         0         0         0         ERR           Workstation Installed Base         0         0         0         0         1         0         ERR           System Shipments         0         0         0         1         1         ERR  | Total Revenue              | 0    | 0    | 2    | 3    | 4    | ERR  |
| Workstation Installed Base         0         0         9         29         59         ERR           Europe         Total Revenue         0         0         0         0         0         0         ERR           System Shipments         0         0         0         4         0         ERR         Workstation Installed Base         0         0         0         4         4         ERR         ERR         Ear         East         Total Revenue         0         0         0         1         0         ERR         ERR         Ear         Ear <td< td=""><td>System Shipments</td><td>0</td><td>0</td><td>9</td><td>21</td><td>31</td><td>ERR</td></td<>  | System Shipments           | 0    | 0    | 9    | 21   | 31   | ERR  |
| Europe   | Workstation Shipments      | 0    | 0    | 9    | 21   | 31   | ERR  |
| Total Revenue  | Workstation Installed Base | 0    | 0    | 9    | 29   | 59   | ERR  |
| System Shipments         0         0         0         4         0         ERR           Workstation Shipments         0         0         0         4         0         ERR           Workstation Installed Base         0         0         0         4         4         ERR           Far East         Total Revenue         0         0         0         1         0         ERR           System Shipments         0         0         2         6         0         ERR           Workstation Installed Base         0         0         2         7         7         ERR           Rest of World         Total Revenue         0         0         0         0         0         ERR           System Shipments         0         0         0         0         0         0         ERR           Workstation Installed Base         0         0         0         1         1         ERR           System Shipments         0         0         11         32         31         ERR           Workstation Installed Base         0         0         11         32         31         ERR           Host-Dependent  | Europe                     |      |      |      |      |      |      |
| Workstation Shipments         0         0         0         4         0         ERR           Workstation Installed Base         0         0         0         4         4         ERR           Far East         Total Revenue         0         0         0         1         0         ERR           System Shipments         0         0         2         6         0         ERR           Workstation Installed Base         0         0         2         7         7         ERR           Rest of World         Total Revenue         0         0         0         0         0         ERR           System Shipments         0         0         0         0         0         ERR           Workstation Installed Base         0         0         0         1         1         ERR           System Shipments         0         0         11         32         31         ERR           Workstation Installed Base         0         0         11         32         31         ERR           Host-Dependent         0         0         0         0         0         0         ERR           System Shipments  | Total Revenue .            | 0    | 0    | 0    | 0    | 0    | ERR  |
| Workstation Installed Base         0         0         0         4         4         ERR           Far East         Total Revenue         0         0         0         1         0         ERR           System Shipments         0         0         2         6         0         ERR           Workstation Shipments         0         0         2         7         7         ERR           Rest of World         Total Revenue         0         0         0         0         0         ERR           System Shipments         0         0         0         1         0         ERR           Workstation Shipments         0         0         0         1         0         ERR           System Shipments         0         0         0         1         1         ERR           System Shipments         0         0         11         32         31         ERR           Workstation Installed Base         0         0         11         32         31         ERR           Host-Dependent         0         0         0         0         0         ERR           System Shipments         0         0<  | System Shipments           | 0    | 0    | 0    | 4    | 0    | ERR  |
| Far East  Total Revenue  | Workstation Shipments      | 0    | 0    | 0    | 4    | 0    | ERR  |
| Total Revenue  | Workstation Installed Base | 0    | 0    | 0    | 4 -  | 4    | ERR  |
| System Shipments         0         0         2         6         0         ERR           Workstation Shipments         0         0         2         6         0         ERR           Workstation Installed Base         0         0         2         7         7         ERR           Rest of World         Total Revenue         0         0         0         0         0         ERR           System Shipments         0         0         0         1         0         ERR           Workstation Installed Base         0         0         0         1         1         ERR           System Shipments         0         0         11         32         31         ERR           Workstation Shipments         0         0         11         32         31         ERR           Host-Dependent         Total Revenue         0         0         0         0         0         ERR           System Shipments         0         0         0         0         0         ERR           Workstation Installed Base         0         0         0         0         0         ERR           Workstation Installed Base   | Far East                   |      |      |      |      |      |      |
| Workstation Shipments         0         0         2         6         0         ERR           Workstation Installed Base         0         0         2         7         7         ERR           Rest of World         Total Revenue         0         0         0         0         0         0         ERR           System Shipments         0         0         0         1         0         ERR           Workstation Installed Base         0         0         0         1         1         ERR           System Shipments         0         0         11         32         31         ERR           Workstation Shipments         0         0         11         32         31         ERR           Host-Dependent         Total Revenue         0         0         0         0         0         ERR           Workstation Shipments         0         0         0         0         0         ERR           Workstation Installed Base         0         0         0         0         0         ERR           Workstation Installed Base         0         0         0         0         0         ERR           Wor   | Total Revenue              | 0    | 0    | 0    | 1    | 0    | ERR  |
| Workstation Installed Base         0         0         2         7         7         ERR           Rest of World         Total Revenue         0         0         0         0         0         0         ERR           System Shipments         0         0         0         1         0         ERR           Workstation Installed Base         0         0         0         1         1         ERR           System Shipments         0         0         11         32         31         ERR           Workstation Shipments         0         0         11         32         31         ERR           Host-Dependent         Total Revenue         0         0         0         0         0         ERR           System Shipments         0         0         0         0         0         ERR           Workstation Installed Base         0         0         0         0         0         ERR           Workstation Installed Base         0         0         0         0         0         ERR           Personal Computer         0         0         0         0         0         ERR           System Shipm   | System Shipments           | 0    | 0    | 2    | 6    | 0    | ERR  |
| Rest of World         Total Revenue         0         0         0         0         0         ERR           System Shipments         0         0         0         1         0         ERR           Workstation Shipments         0         0         0         1         1         ERR           Workstation Installed Base         0         0         2         4         4         ERR           System Shipments         0         0         11         32         31         ERR           Workstation Shipments         0         0         11         41         71         ERR           Host-Dependent         0         0         0         0         0         ERR           System Shipments         0         0         0         0         0         ERR           Workstation Shipments         0         0         0         0         0         ERR           Workstation Installed Base         0         0         0         0         0         ERR           Personal Computer         0         0         0         0         0         ERR           System Shipments         0         0         0         0 <td>Workstation Shipments</td> <td>0</td> <td>0</td> <td>2</td> <td>6</td> <td>0</td> <td>ERR</td>  | Workstation Shipments      | 0    | 0    | 2    | 6    | 0    | ERR  |
| Total Revenue         0         0         0         0         ERR           System Shipments         0         0         0         1         0         ERR           Workstation Shipments         0         0         0         1         1         ERR           Standalone         Total Revenue         0         0         2         4         4         ERR           System Shipments         0         0         11         32         31         ERR           Workstation Shipments         0         0         11         41         71         ERR           Host-Dependent         Total Revenue         0         0         0         0         0         ERR           System Shipments         0         0         0         0         0         ERR           Workstation Installed Base         0         0         0         0         0         ERR           Workstation Installed Base         0         0         0         0         0         ERR           Personal Computer         0         0         0         0         0         ERR           System Shipments         0         0 <td< td=""><td>Workstation Installed Base</td><td>0</td><td>0</td><td>2</td><td>7</td><td>7</td><td>ERR</td></td<>   | Workstation Installed Base | 0    | 0    | 2    | 7    | 7    | ERR  |
| System Shipments         0         0         0         1         0         ERR           Workstation Shipments         0         0         0         1         0         ERR           Workstation Installed Base         0         0         0         1         1         ERR           System Shipments         0         0         11         32         31         ERR           Workstation Shipments         0         0         11         32         31         ERR           Workstation Installed Base         0         0         11         41         71         ERR           Host-Dependent         0         0         0         0         0         ERR           System Shipments         0         0         0         0         0         ERR           Workstation Shipments         0         0         0         0         0         ERR           Workstation Installed Base         0         0         0         0         ERR           Personal Computer         0         0         0         0         0         ERR           System Shipments         0         0         0         0         0         E   | Rest of World              |      |      |      |      |      |      |
| Workstation Shipments         0         0         0         1         0         ERR           Workstation Installed Base         0         0         0         1         1         ERR           Standalone         Total Revenue         0         0         2         4         4         ERR           System Shipments         0         0         11         32         31         ERR           Workstation Shipments         0         0         11         41         71         ERR           Host-Dependent         Total Revenue         0         0         0         0         0         ERR           System Shipments         0         0         0         0         0         ERR           Workstation Installed Base         0         0         0         0         0         ERR           Personal Computer         Total Revenue         0         0         0         0         0         ERR           System Shipments         0         0         0         0         0         ERR   | Total Revenue              | 0    | 0    | 0    | 0    | 0    | ERR  |
| Workstation Installed Base         0         0         0         1         1         ERR           Standalone         Total Revenue         0         0         2         4         4         ERR           System Shipments         0         0         11         32         31         ERR           Workstation Shipments         0         0         11         41         71         ERR           Host-Dependent         Total Revenue         0         0         0         0         0         ERR           System Shipments         0         0         0         0         0         ERR           Workstation Installed Base         0         0         0         0         0         ERR           Personal Computer         Total Revenue         0         0         0         0         0         ERR           System Shipments         0         0         0         0         0         ERR   | System Shipments           | 0    | 0    | 0    | 1    | 0    | ERR  |
| Standalone   | Workstation Shipments      | 0    | 0    | 0    | 1    | 0    | ERR  |
| Total Revenue         0         0         2         4         4         ERR           System Shipments         0         0         11         32         31         ERR           Workstation Shipments         0         0         11         32         31         ERR           Workstation Installed Base         0         0         11         41         71         ERR           Host-Dependent         Total Revenue         0         0         0         0         0         0         ERR           System Shipments         0         0         0         0         0         0         ERR           Personal Computer         0         0         0         0         0         ERR           System Shipments         0         0         0         0         0         ERR  | Workstation Installed Base | 0    | 0    | 0    | 1    | 1    | ERR  |
| System Shipments         0         0         11         32         31         ERR           Workstation Shipments         0         0         11         32         31         ERR           Workstation Installed Base         0         0         11         41         71         ERR           Host-Dependent         Total Revenue         0         0         0         0         0         ERR           System Shipments         0         0         0         0         0         ERR           Workstation Installed Base         0         0         0         0         0         ERR           Personal Computer         Total Revenue         0         0         0         0         0         ERR           System Shipments         0         0         0         0         0         ERR   | Standalone                 |      |      |      |      |      |      |
| Workstation Shipments         0         0         11         32         31         ERR           Workstation Installed Base         0         0         11         41         71         ERR           Host-Dependent         Total Revenue         0         0         0         0         0         0         ERR           System Shipments         0         0         0         0         0         ERR           Workstation Installed Base         0         0         0         0         0         ERR           Personal Computer         Total Revenue         0         0         0         0         0         ERR           System Shipments         0         0         0         0         0         ERR   | Total Revenue              | 0    | 0    | 2    | 4    | 4    | ERR  |
| Workstation Installed Base         0         0         11         41         71         ERR           Host-Dependent         0         0         0         0         0         0         ERR           Total Revenue         0         0         0         0         0         0         ERR           Workstation Shipments         0         0         0         0         0         ERR           Workstation Installed Base         0         0         0         0         ERR           Personal Computer         0         0         0         0         0         ERR           System Shipments         0         0         0         0         0         ERR   | System Shipments           | 0    | 0    | 11   | 32   | 31   | ERR  |
| Host-Dependent           Total Revenue         0         0         0         0         0         ERR           System Shipments         0         0         0         0         0         ERR           Workstation Shipments         0         0         0         0         0         ERR           Workstation Installed Base         0         0         0         0         ERR           Personal Computer         Total Revenue         0         0         0         0         0         ERR           System Shipments         0         0         0         0         0         ERR  | Workstation Shipments      | 0    | 0    | 11   | 32   | 31   | ERR  |
| Total Revenue         0         0         0         0         0         ERR           System Shipments         0         0         0         0         0         0         ERR           Workstation Installed Base         0         0         0         0         0         ERR           Personal Computer         Total Revenue         0         0         0         0         0         ERR           System Shipments         0         0         0         0         0         ERR   | Workstation Installed Base | 0    | 0    | 11   | 41   | 71   | ERR  |
| System Shipments         0         0         0         0         0         ERR           Workstation Shipments         0         0         0         0         0         0         ERR           Workstation Installed Base         0         0         0         0         0         ERR           Personal Computer         0         0         0         0         0         ERR           System Shipments         0         0         0         0         0         ERR   | Host-Dependent             |      |      |      |      |      |      |
| Workstation Shipments         0         0         0         0         0         ERR           Workstation Installed Base         0         0         0         0         0         ERR           Personal Computer         Total Revenue         0         0         0         0         0         ERR           System Shipments         0         0         0         0         0         ERR  | Total Revenue              | 0    | 0    | 0    | 0    | 0    | ERR  |
| Workstation Installed Base         0         0         0         0         ERR           Personal Computer         0         0         0         0         0         ERR           Total Revenue         0         0         0         0         0         ERR           System Shipments         0         0         0         0         0         ERR  | System Shipments           | 0    | 0    | 0    | 0    | 0    | ERR  |
| Personal Computer         0         0         0         0         ERR           Total Revenue         0         0         0         0         0         ERR           System Shipments         0         0         0         0         ERR   | Workstation Shipments      | 0    | 0    | 0    | 0    | 0    | ERR  |
| Total Revenue         0         0         0         0         ERR           System Shipments         0         0         0         0         ERR   | Workstation Installed Base | 0    | 0    | 0    | 0    | 0    | ERR  |
| System Shipments 0 0 0 0 ERR   | Personal Computer          |      |      |      |      |      |      |
|  | Total Revenue              | 0    | 0    | 0    | 0    | 0    | ERR  |
|  | System Shipments           | 0    | 0    | 0    | 0    | 0    | ERR  |
| morkatetron annuments of the C to the C | Workstation Shipments      | 0    | 0    | 0    | 0    | Ó    | ERR  |
| Workstation Installed Base 0 0 0 0 ERR   | •                          | 0    | 0    | 0    | 0    | 0    | ERR  |

TABLE NUMBER:

C-28

TITLE:

UNITS:

Company History

COMPANY:

Calma IC

APPLICATION:

Millions of Dollars and Actual Units

|                            | 1981  | 1982  | 1983  | 1984  | 1985  | CAGR  |
|----------------------------|-------|-------|-------|-------|-------|-------|
|                            |       | ====  | =#SS  | ====  | 2232  | ====  |
| Worldwide                  |       |       |       |       |       |       |
| Total Revenue              | 42    | 44    | 62    | 65    | 55    | 7%    |
| System Shipments           | 72    | 69    | 122   | 126   | 287   | 41%   |
| Workstation Shipments      | 312   | 301   | 278   | 420   | 405   | 7%    |
| Workstation Installed Base | 1,019 | 1,269 | 1,518 | 1,822 | 2,227 | 22%   |
| North America              | •     | •     | •     | ·     | -     |       |
| Total Revenue              | 42    | 44    | 44    | 43    | 43    | 1%    |
| System Shipments           | 72    | 69    | 85    | 84    | 239   | 35%   |
| Workstation Shipments      | 312   | 301   | 194   | 280   | 329   | 1%    |
| Workstation Installed Base | 1,019 | 1,269 | 1,424 | 1,608 | 1,937 | 17%   |
| Europe                     |       |       |       |       |       |       |
| Total Revenue              | 0     | 0     | 11    | 8     | 9     | ERR   |
| System Shipments           | 0     | 0     | 22    | 15    | 36    | ERR   |
| Workstation Shipments      | 0     | 0     | 50    | 50    | 60    | ERR   |
| Workstation Installed Base | 0     | 0     | 56    | 97    | 157   | ERR   |
| Far East                   |       |       |       |       |       |       |
| Total Revenue              | 0     | 0     | 7     | 12    | 0     | ERR   |
| System Shipments           | 0     | 0     | 15    | 22    | 0     | ERR   |
| Workstation Shipments      | 0     | 0     | 34    | 73    | 0     | ERR   |
| Workstation Installed Base | 0     | 0     | 38    | 102   | 102   | ERR   |
| Rest of World              |       |       |       |       |       |       |
| Total Revenue              | 0     | 0     | 0     | 3     | 2     | ERR   |
| System Shipments           | 0     | 0     | 0     | 5     | 12    | ERR   |
| Workstation Shipments      | 0     | 0     | 0     | 17    | 16    | ERR   |
| Workstation Installed Base | 0     | 0     | 0     | 15    | 31    | ERR   |
| Standalone                 |       |       |       |       |       |       |
| Total Revenue              | 0     | 0     | 0     | 0     | 30    | ERR   |
| System Shipments           | 0     | 0     | 0     | 0     | 244   | ERR   |
| Workstation Shipments      | 0     | 0     | 0     | 0     | 244   | ERR   |
| Workstation Installed Base | 0     | 0     | 0     | 0     | 244   | ERR   |
| Host-Dependent             |       |       |       |       |       |       |
| Total Revenue              | 42    | 44    | 62    | 65    | 25    | -12%  |
| System Shipments           | 72    | 69    | 122   | 126   | 43    | -12%  |
| Workstation Shipments      | 312   | 301   | 278   | 420   | 160   | - 15% |
| Workstation Installed Base | 1,019 | 1,269 | 1,518 | 1,822 | 1,982 | 18%   |
| Personal Computer          |       |       |       |       |       |       |
| Total Revenue              | 0     | 0     | 0     | 0     | 0     | ERR   |
| System Shipments           | 0     | 0     | 0     | 0     | 0     | ERR   |
| Workstation Shipments      | 0     | 0     | 0     | 0     | 0     | ERR   |
| Workstation Installed Base | 0     | 0     | 0     | 0     | 0     | ERR   |

Source: Dataquest

TABLE NUMBER:

C-29

TITLE:

Company History

COMPANY:

Calma

APPLICATION:

PCB

UNITS:

Millions of Dollars and Actual Units

|                            | 1981 | 1982 | 1983 | 1984 | 1985 | CAGR  |
|----------------------------|------|------|------|------|------|-------|
|                            | ==== | ==== |      | ==== | ==== | 2222  |
| Worldwide                  |      |      |      |      |      |       |
| Total Revenue              | 7    | 6    | 18   | 20   | 18   | 27%   |
| System Shipments           | 15   | 12   | 34   | 42   | 203  | 92%   |
| Workstation Shipments      | 64   | 51   | 78   | 124  | 227  | 37%   |
| Workstation Installed Base | 320  | 355  | 426  | 532  | 759  | 24%   |
| North America              |      |      |      |      |      |       |
| Total Revenue              | 7    | 6    | 12   | 14   | 13   | 17%   |
| System Shipments           | 15   | 12   | 24   | 29   | 85   | 54%   |
| Workstation Shipments      | 64   | 51   | 55   | 85   | 103  | 13%   |
| Workstation Installed Base | 320  | 355  | 399  | 465  | 568  | 15%   |
| Europe                     |      |      |      |      |      |       |
| Total Revenue              | 0    | 0    | 3    | 2    | 2    | ERR   |
| System Shipments           | 0    | 0    | 6    | 5    | 8    | ERR   |
| Workstation Shipments      | 0    | 0    | 14   | 14   | 12   | ERR   |
| Workstation Installed Base | 0    | 0    | 16   | 30   | 42   | ERR   |
| Far East                   |      |      |      |      |      |       |
| Total Revenue              | 0    | 0    | 2    | 3    | 3    | ERR   |
| System Shipments           | 0    | 0    | 4    | 7    | 106  | ERR   |
| Workstation Shipments      | 0    | 0    | 9    | 21   | 106  | ERR   |
| Workstation Installed Base | 0    | 0    | 11   | 32   | 138  | ERR   |
| Rest of World              |      |      |      |      |      |       |
| Total Revenue              | 0    | 0    | 0    | 1    | 1    | ERR   |
| System Shipments           | 0    | 0    | 0    | 1    | 5    | ERR   |
| Workstation Shipments      | 0    | 0    | 0    | 4    | 5    | ERR   |
| Workstation Installed Base | 0    | 0    | 0    | 5    | 10   | ERR   |
| Standalone                 |      |      |      |      |      |       |
| Total Revenue              | 0    | 0    | 0    | 1    | 13   | ERR   |
| System Shipments           | 0    | 0    | 0    | 7    | 194  | ERR   |
| Workstation Shipments      | 0    | 0    | 0    | 7    | 194  | ERR   |
| Workstation Installed Base | 0    | 0    | 0    | 7    | 201  | ERR   |
| Kost-Dependent             |      |      |      |      |      |       |
| Total Revenue              | 7    | 6    | 18   | 19   | 5    | -8%   |
| System Shipments           | 15   | 12   | 34   | 35   | 9    | -12%  |
| Workstation Shipments      | 64   | 51   | 78   | 117  | 33   | - 15% |
| Workstation Installed Base | 320  | 355  | 426  | 525  | 558  | 15%   |
| Personal Computer          |      |      |      |      |      |       |
| Total Revenue              | 0    | 0    | 0    | 0    | 0    | ERR   |
| System Shipments           | 0    | 0    | 0    | 0    | 0    | ERR   |
| Workstation Shipments      | 0    | 0    | 0    | 0    | 0    | ERR   |
| Workstation Installed Base | Ď    | 0    | 0    | 0    | 0    | ERR   |

Source: Dataquest June 1986

C.1

TABLE NUMBER:

C-30

TITLE:

Company Mistory

COMPANY:

Cimline

APPLICATION:

All Applications

UNITS:

Millions of Dollars and Actual Units

|                            | 1981 | 1982 | 1983 | 1984 | 1985 | CAGR |
|----------------------------|------|------|------|------|------|------|
|                            | ==== | ==== | ==== | ==== | FEEE | ==== |
| Worldwide                  |      |      |      |      |      |      |
| Total Revenue              | 0    | 0    | 9    | 0    | 32   | ERR  |
| System Shipments           | 0    | 0    | 0    | 0    | 397  | ERR  |
| Workstation Shipments      | 0    | 0    | 0    | 0    | 397  | ERR  |
| Workstation Installed Base | 0    | 0    | 0    | 0    | 397  | ERR  |
| North America              |      |      |      |      |      |      |
| Total Revenue              | 0    | 0    | O    | 0    | 30   | ERR  |
| System Shipments           | 0    | 0    | 0    | 0    | 378  | ERR  |
| Workstation Shipments      | 0    | 0    | 0    | 0    | 378  | ERR  |
| Workstation Installed Base | 0    | 0    | 0    | 0    | 378  | ERR  |
| Europe                     |      |      |      |      |      |      |
| Total Revenue              | 0    | 0    | 0    | 0    | 2    | ERR  |
| System Shipments           | 0    | 0    | 0    | 0    | 20   | ERR  |
| Workstation Shipments      | 0    | 0    | 0    | 0    | 20   | ERR  |
| Workstation Installed Base | 0    | 0    | 0    | 0    | 20   | ERR  |
| Far East                   |      |      |      |      |      |      |
| Total Revenue              | 9    | 0    | 0    | 0    | 0    | ERR  |
| System Shipments           | 0    | 0    | 0    | 0    | 0    | ERR  |
| Workstation Shipments      | 0    | 0    | 0    | 0    | 0    | ERR  |
| Workstation Installed Base | 0    | 0    | 0    | 0    | 0    | ERR  |
| Rest of World              |      |      |      |      |      |      |
| Total Revenue              | 0    | 0    | 0    | G    | 0    | ERR  |
| System Shipments           | 0    | 0    | 0    | 0    | 0    | ERR  |
| Workstation Shipments      | 0    | 0    | 0    | 0    | 0    | ERR  |
| Workstation Installed Base | 0    | 0    | 0    | 0    | 0    | ERR  |
| Standalone                 |      |      |      |      |      |      |
| Total Revenue              | 0    | 0    | 0    | 0    | 32   | ERR  |
| System Shipments           | 0    | 0    | 0    | 0    | 397  | ERR  |
| Workstation Shipments      | 0    | 0    | 0    | 0    | 397  | ERR  |
| Workstation Installed Base | 0    | 0    | 0    | 0    | 397  | ERR  |
| Host-Dependent             |      |      |      |      |      |      |
| Total Revenue              | 0    | 0    | 0    | 0    | 0    | ERR  |
| System Shipments           | 0    | 0    | 0    | 0    | 0    | ERR  |
| Workstation Shipments      | 0    | 0    | 0    | 0    | 0    | ERR  |
| Workstation Installed Base | 0    | 0    | 0    | 0    | 0    | ERR  |
| Personal Computer -        |      |      |      |      |      |      |
| Total Revenue              | 0    | 0    | 0    | 0    | 0    | ERR  |
| System Shipments           | 0    | 0    | 0    | 0    | 0    | ERR  |
| Workstation Shipments      | 0    | 0    | 0    | 0    | 0    | ERR  |
| Workstation Installed Base | 0    | 0    | 0    | 0    | 0    | ERR  |
|                            |      |      |      |      |      |      |

Source: Dataquest

TABLE NUMBER:

C-31

TITLE:

Company History

COMPANY:

Cimline

APPLICATION:

Mechanical

UNITS:

Millions of Dollars and Actual Units

|                            | 1981 | 1982 | 1983 | 1984 | 1985 | CAGR |
|----------------------------|------|------|------|------|------|------|
|                            | **== |      | ==== | -=== | ***  | ***  |
| Worldwide                  |      |      |      |      |      |      |
| Total Revenue              | 0    | 0    | 0    | 0    | 32   | ERR  |
| System Shipments           | 0    | 0    | 0    | 0    | 397  | ERR  |
| Workstation Shipments      | 0    | 0    | 0    | 0    | 397  | ERR  |
| Workstation Installed Base | 0    | 0    | 0    | 0    | 397  | ERR  |
| North America              |      |      |      |      |      |      |
| Total Revenue              | 0    | 0    | C    | 0    | 30   | ERR  |
| System Shipments           | 0    | 0    | 0    | 0    | 378  | ERR  |
| Workstation Shipments      | 0    | 0    | 0    | 0    | 378  | ERR  |
| Workstation Installed Base | 0    | 0    | 0    | 0    | 378  | ERR  |
| Europe                     |      |      |      |      |      |      |
| Total Revenue              | 0    | 0    | 0    | 0    | 2    | ERR  |
| System Shipments           | 0    | 0    | 0    | 0    | 20   | ERR  |
| Workstation Shipments      | 0    | 0    | 0    | 0    | 20   | ERR  |
| Workstation Installed Base | 0    | 0    | 0    | 0    | 20   | ERR  |
| Far East                   |      |      |      |      |      |      |
| Total Revenue              | 0    | 0    | 0    | 0    | 0    | ERR  |
| System Shipments           | 0    | 0    | 0    | 0    | 0    | ERR  |
| Workstation Shipments      | 0    | 0    | 0    | 0    | 0    | ERR  |
| Workstation Installed Base | 0    | 0    | 0    | 0    | 0    | ERR  |
| Rest of World              |      |      |      |      |      |      |
| Total Revenue              | 0    | 0    | 0    | 0    | 0    | ERR  |
| System Shipments           | 0    | 0    | 0    | 0    | 0    | ERR  |
| Workstation Shipments      | 0    | 0    | 0    | 0    | 0    | ERR  |
| Workstation Installed Base | 0    | 0    | 0    | 0    | 0    | ERR  |
| Standalone                 |      |      |      |      |      |      |
| Total Revenue              | 0    | 0    | 0    | 0    | 32   | ERR  |
| System Shipments           | 0    | 0    | 0    | 0    | 397  | ERR  |
| Workstation Shipments      | 0    | 0    | 0    | 0    | 397  | ERR  |
| Workstation Installed Base | 0    | 0    | 0    | 0    | 397  | ERR  |
| Host-Dependent             |      |      |      |      |      |      |
| Total Revenue              | 0    | 0    | 0    | 0    | 0    | ERR  |
| System Shipments           | 0    | 0    | 0    | 0    | 0    | ERR  |
| Workstation Shipments      | 0    | 0    | 0    | 0    | 0    | ERR  |
| Workstation Installed Base | 0    | 0    | 0    | 0    | 0    | ERR  |
| Personal Computer          |      |      |      |      |      |      |
| Total Revenue              | 0    | 0    | 0    | 0    | 0    | ERR  |
| System Shipments           | 0    | 0    | 0    | 0    | 0    | ERR  |
| Workstation Shipments      | 0    | 0    | 0    | 0    | 0    | ERR  |
| Workstation Installed Base | 0    | 0    | 0    | 0    | 0    | ERR  |
|                            |      |      |      |      |      |      |

TABLE NUMBER:

C-32

TITLE: COMPANY: Company History Computervision

APPLICATION:

All Applications

UNITS:

Millions of Dollars and Actual Units

|                            | 1981  | 1982  | 1983             | 1984   | 1985   | CAGR  |
|----------------------------|-------|-------|------------------|--------|--------|-------|
|                            | ****  | 2222  | ====             | ====   | ====   |       |
| Worldwide                  |       |       |                  |        |        |       |
| Total Revenue              | 276   | 332   | 400              | 556    | 441    | 12%   |
| System Shipments           | 562   | 620   | 616              | 936    | 1,866  | 35%   |
| Workstation Shipments      | 2,515 | 2,794 | 2,678            | 2,522  | 4,794  | 18%   |
| Workstation Installed Base | 6,613 | 8,989 | 11,208           | 13,071 | 14,497 | 22%   |
| North America              |       |       |                  |        |        |       |
| Total Revenue              | 147   | 177   | 211              | 326    | 289    | 18%   |
| System Shipments           | 322   | 355   | 326              | 568    | 1,402  | 44%   |
| Workstation Shipments      | 1,394 | 1,547 | 1,417            | 1,478  | 3,534  | 26%   |
| Workstation Installed Base | 4,059 | 5,404 | 6,548            | 7,694  | 11,228 | 29%   |
| Europe                     |       |       |                  |        |        |       |
| Total Revenue              | 0     | 0     | 148              | 181    | 109    | ERR   |
| System Shipments           | 0     | 0     | 228              | 287    | 286    | ERR   |
| Workstation Shipments      | 0     | 0     | 992              | 833    | 779    | ERR   |
| Workstation Installed Base | 0     | 0     | 987              | 1,681  | 2,460  | ERR   |
| Far East                   |       |       |                  |        |        |       |
| Total Revenue              | 0     | 0     | 29               | 36     | 43     | ERR   |
| System Shipments           | 0     | 0     | 44               | 58     | 178    | ERR   |
| Workstation Shipments      | 0     | 0     | 1 <del>9</del> 1 | 152    | 481    | ERR   |
| Workstation Installed Base | 0     | 0     | 188              | 328    | 809    | ERR   |
| Rest of World              |       |       |                  |        |        |       |
| Total Revenue              | 129   | 155   | 11               | 13     | 0      | -100% |
| System Shipments           | 240   | 265   | 18               | 23     | 0      | -100% |
| Workstation Shipments      | 1,121 | 1,247 | 78               | 59     | 0      | -100% |
| Workstation Installed Base | 2,554 | 3,585 | 3,485            | 3,368  | 0      | -100% |
| Standalone                 |       |       |                  |        |        |       |
| Total Revenue              | 0     | 0     | 0                | 2      | 31     | ERR   |
| System Shipments           | 0     | 0     | 0                | 41     | 553    | ERR   |
| Workstation Shipments      | 0     | 0     | 0                | 128    | 553    | ERR   |
| Workstation Installed Base | 0     | 0     | 0                | 39     | 591    | ERR   |
| Host-Dependent             |       |       |                  |        |        |       |
| Total Revenue              | 276   | 332   | 400              | 554    | 396    | 9%    |
| System Shipments           | 562   | 620   | 616              | 895    | 578    | 1%    |
| Workstation Shipments      | 2,515 | 2,794 | 2,678            | 2,394  | 3,506  | 9%    |
| Workstation Installed Base | 6,613 | 8,989 | 11,208           | 13,032 | 13,171 | 19%   |
| Personal Computer          |       |       |                  |        |        |       |
| Total Revenue              | 0     | 0     | 0                | 0      | 15     | ERR   |
| System Shipments           | 0     | 0     | 0                | 0      | 735    | ERR   |
| Workstation Shipments      | 0     | 0     | 0                | 0      | 735    | ERR   |
| Workstation Installed Base | 0     | 0     | 0                | 0      | 735    | ERR   |
|                            |       |       |                  |        |        |       |

TABLE NUMBER:

C-33

TITLE: COMPANY: Company History

Computervision Mechanical

APPLICATION: UNITS:

Millions of Dollars and Actual Units

|                            | 1981  | 1982  | 1983  | 1984  | 1985  | CAGR   |
|----------------------------|-------|-------|-------|-------|-------|--------|
|                            | ####  | ***   | ====  | ====  | ====  | ====   |
| Worldwide                  |       |       |       |       |       |        |
| Total Revenue              | 125   | 150   | 260   | 415   | 304   | 25%    |
| System Shipments           | 245   | 270   | 399   | 700   | 1.269 | 51%    |
| Workstation Shipments      | 1,065 | 1,183 | 1,735 | 1,817 | 3,336 | 33%    |
| Workstation Installed Base | 2.922 | 3.959 | 5,494 | 7,034 | 8,960 | 32%    |
| North America              | •     | •     | •     | •     | •     |        |
| Total Revenue              | 68    | 82    | 138   | 243   | 201   | 31%    |
| System Shipments           | 143   | 158   | 211   | 425   | 920   | 59%    |
| Workstation Shipments      | 621   | 692   | 918   | 1,103 | 2,458 | 41%    |
| Workstation Installed Base | 1,902 | 2,499 | 3,293 | 4,231 | 6,689 | 37%    |
| Europe                     | •     | •     | -     | •     | •     |        |
| Total Revenue              | 0     | 0     | 96    | 135   | 76    | ERR    |
| System Shipments           | 0     | 0     | 148   | 215   | 236   | ERR    |
| Workstation Shipments      | 0     | 0     | 643   | 558   | 572   | ERR    |
| Workstation Installed Base | 0     | 0     | 641   | 1,166 | 1,738 | ERR    |
| Far East                   |       |       |       |       |       |        |
| Total Revenue              | 0     | 0     | 18    | 27    | 27    | ERR    |
| System Shipments           | 0     | 0     | 28    | 43    | 113   | ERR    |
| Workstation Shipments      | 0     | 0     | 122   | 112   | 306   | ERR    |
| Workstation Installed Base | 0     | 0     | 121   | 227   | 533   | ERR    |
| Rest of World              |       |       |       |       |       |        |
| Total Revenue              | 57    | 68    | 8     | 10    | 0     | - 100% |
| System Shipments           | 102   | 112   | 12    | 17    | 0     | -100%  |
| Workstation Shipments      | 444   | 491   | 52    | 44    | 0     | -100%  |
| Workstation Installed Base | 1,020 | 1,460 | 1,439 | 1,410 | 0     | -100%  |
| Standalone                 |       |       |       |       |       |        |
| Total Revenue              | 0     | 0     | 0     | 2     | 14    | ERR    |
| System Shipments           | 0     | 0     | 0     | 33    | 242   | ERR    |
| Workstation Shipments      | 0     | 0     | 0     | 33    | 242   | ERR    |
| Workstation Installed Base | 0     | 0     | 0     | 33    | 274   | ERR    |
| Host-Dependent             |       |       |       |       |       |        |
| Total Revenue              | 125   | 150   | 260   | 413   | 278   | 22%    |
| System Shipments           | 245   | 270   | 399   | 667   | 408   | 14%    |
| Workstation Shipments      | 1,065 | 1,183 | 1,735 | 1,784 | 2,475 | 23%    |
| Workstation Installed Base | 2,922 | 3,959 | 5,494 | 7,001 | 8,067 | 29%    |
| Personal Computer          |       |       |       |       |       |        |
| Total Revenue              | 0     | 0     | 0     | 0     | 12    | ERR    |
| System Shipments           | 0     | 0     | 0     | 0     | 619   | ERR    |
| Workstation Shipments      | 0     | 0     | 0     | 0     | 619   | ERR    |
| Workstation Installed Base | 0     | 0     | 0     | 0     | 619   | ERR    |
|                            |       |       |       |       |       |        |

Source: Dataquest

TABLE NUMBER:

C-34

TITLE: COMPANY: Company History Computervision

APPLICATION:

AEC

UNITS:

Millions of Dollars and Actual Units

|                            | 4004 | 4000  | 4007  | 4001  | 4005  |        |
|----------------------------|------|-------|-------|-------|-------|--------|
|                            | 1981 | 1982  | 1983  | 1984  | 1985  | CAGR   |
| Attack attack at           | ==== |       | ====  | 2222  |       | ****   |
| Worldwide                  |      |       |       |       |       |        |
| Total Revenue              | 41   | 49    | 44    | 47    | 49    | 4%     |
| System Shipments           | 92   | 100   | 68    | 79    | 219   | 24%    |
| Workstation Shipments      | 396  | 434   | 296   | 206   | 555   | 9%     |
| Workstation Installed Base | 958  | 1,344 | 1,573 | 1,696 | 1,730 | 16%    |
| North America              |      |       |       |       |       |        |
| Total Revenue              | 22   | 26    | 23    | 27    | 33    | 11%    |
| System Shipments           | 53   | 57    | 36    | 48    | 163   | 32%    |
| Workstation Shipments      | 228  | 247   | 156   | 125   | 412   | 16%    |
| Workstation Installed Base | 562  | 781   | 898   | 976   | 1,388 | 25%    |
| Europe                     |      |       |       |       |       |        |
| Total Revenue              | 0    | 0     | 16    | 15    | 8     | ERR    |
| System Shipments           | 0    | 0     | 25    | 24    | 24    | ERR    |
| Workstation Shipments      | 0    | 0     | 109   | 63    | 58    | ERR    |
| Workstation Installed Base | 0    | 0     | 109   | 166   | 224   | ERR    |
| Far East                   |      |       |       |       |       |        |
| Total Revenue              | 0    | 0     | 3     | 3     | 8     | ERR    |
| System Shipments           | 0    | 0     | 5     | 5     | 31    | ERR    |
| Workstation Shipments      | 0    | 0     | 22    | 13    | 85    | ERR    |
| Workstation Installed Base | 0    | 0     | 22    | 33    | 118   | ERR    |
| Rest of World              |      |       |       |       |       |        |
| Total Revenue              | 19   | 23    | 1     | 1     | 0     | -100%  |
| System Shipments           | 39   | 43    | 2     | 2     | 0     | - 100% |
| Workstation Shipments      | 168  | 187   | 9     | 5     | 0     | -100%  |
| Workstation Installed Base | 396  | 563   | 544   | 521   | 0     | -100%  |
| Standalone                 |      |       |       |       |       |        |
| Total Revenue              | 0    | 0     | 0     | 0     | 3     | ERR    |
| System Shipments           | 0    | 0     | 0     | 3     | 53    | ERR    |
| Workstation Shipments      | 0    | 0     | 0     | 3     | 53    | ERR    |
| Workstation Installed Base | Ö    | 0     | 0     | 3     | 56    | ERR    |
| Host-Dependent             |      | •     | •     | _     |       |        |
| Total Revenue              | 41   | 49    | 44    | 47    | 44    | 2%     |
| System Shipments           | 92   | 100   | 68    | 76    | 67    | -8%    |
| Workstation Shipments      | 396  | 434   | 296   | 203   | 403   | 0%     |
| Workstation Installed Base | 958  | 1.344 | 1,573 | 1,693 | 1,575 | 13%    |
| Personal Computer          |      | .,544 | 1,515 | .,0,0 | . ,   | 120    |
| Total Revenue              | 0    | 0     | 0     | 0     | 2     | ERR    |
| System Shipments           | 0    | 0     | 0     | 0     | 99    | ERR    |
| Workstation Shipments      | 0    | 0     | 0     | 0     | 99    | ERR    |
| Workstation Installed Base | 0    | 0     | 0     | 0     | 99    |        |
| HUIKSLATION INSTALLED BASE | υ    | V     | v     | Ų     | 99    | ERR    |

TABLE NUMBER:

C-35

TITLE: COMPANY: Company History Computervision

APPLICATION:

Mapping

UNITS:

Millions of Dollars and Actual Units

|                            | 1981 | 1982 | 1983 | 1984        | 1985 | CAGR  |
|----------------------------|------|------|------|-------------|------|-------|
|                            |      | 1222 | ***  | ====        | -=== | ====  |
| Worldwide                  |      |      |      |             |      |       |
| Total Revenue              | 24   | 29   | 8    | 8           | 4    | -34%  |
| System Shipments           | 54   | 59   | 13   | 13          | 17   | -25%  |
| Workstation Shipments      | 312  | 344  | 56   | 36          | 43   | -39%  |
| Workstation Installed Base | 680  | 902  | 910  | 900         | 622  | -2%   |
| North America              |      |      |      |             |      |       |
| Total Revenue              | 14   | 17   | 4    | 5           | 1    | -44%  |
| System Shipments           | 34   | 37   | 7    | 8           | 7    | -34%  |
| Workstation Shipments      | 146  | 160  | 30   | 22          | 17   | -42%  |
| Workstation Installed Base | 408  | 548  | 549  | 5 <b>43</b> | 560  | 8%    |
| Europe                     |      |      |      |             |      |       |
| Total Revenue              | 0    | 0    | 3    | 3           | 2    | ERR   |
| System Shipments           | 0    | 0    | 5    | 4           | 7    | ERR   |
| Workstation Shipments      | 0    | 0    | 22   | 11          | 16   | ERR   |
| Workstation Installed Base | 0    | 0    | 20   | 30          | 46   | ERR   |
| Far East                   |      |      |      |             |      |       |
| Total Revenue              | 0    | 0    | 1    | 1           | 1    | ERR   |
| System Shipments           | 0    | 0    | 1    | 1           | 4    | ERR   |
| Workstation Shipments      | 0    | 0    | 4    | 3           | 11   | ERR   |
| Workstation Installed Base | 0    | 0    | 4    | 6           | 17   | ERR   |
| Rest of World              |      |      |      |             |      |       |
| Total Revenue              | 10   | 12   | 0    | 0           | 0    | -100% |
| System Shipments           | 20   | 22   | 0    | 0           | 0    | -100% |
| Workstation Shipments      | 166  | 184  | 0    | 0           | 0    | -100% |
| Workstation Installed Base | 272  | 354  | 337  | 321         | 0    | -100% |
| Standatone                 |      |      |      |             |      |       |
| Total Revenue              | 0    | 0    | 0    | 0           | 0    | ERR   |
| System Shipments           | 0    | 0    | 0    | 0           | 4    | ERR   |
| Workstation Shipments      | 0    | 0    | 0    | 0           | 4    | ERR   |
| Workstation Installed Base | 0    | 0    | 0    | 0           | 4    | ERR   |
| Kost-Dependent             |      |      |      |             |      |       |
| Total Revenue              | 24   | 29   | 8    | 8           | 4    | -36%  |
| System Shipments           | 54   | 59   | 13   | 13          | 5    | -45%  |
| Workstation Shipments      | 312  | 344  | 56   | 36          | 31   | -44%  |
| Workstation Installed Base | 680  | 902  | 910  | 900         | 610  | -3%   |
| Personal Computer          |      |      |      |             |      |       |
| Total Revenue              | 0    | 0    | 0    | 0           | 0    | ERR   |
| System Shipments           | 0    | 0    | 0    | 0           | 8    | ERR   |
| Workstation Shipments      | 6    | 0    | 0    | 0           | 8    | ERR   |
| Workstation Installed Base | 0    | 0    | 0    | 0           | 8    | ERR   |

TABLE NUMBER:

C-36

TITLE: COMPANY: Company History Computervision

APPLICATION:

EDA

UNITS:

Millions of Dollars and Actual Units

|                            | 1981 | 1982 | 1983 | 1984 | 1985 | CAGR |
|----------------------------|------|------|------|------|------|------|
|                            |      | ==== | ==== | 2022 | ==== | ==== |
| Worldwide                  |      |      |      |      |      |      |
| Total Revenue              | 0    | 0    | 0    | 0    | 13   | ERR  |
| System Shipments           | 0    | 0    | 0    | 0    | 244  | ERR  |
| Workstation Shipments      | 0    | 0    | 0    | 0    | 244  | ERR  |
| Workstation Installed Base | 0    | 0    | 0    | 0    | 244  | ERR  |
| North America              |      |      |      |      |      |      |
| Total Revenue              | 0    | 0    | 0    | 0    | 13   | ERR  |
| System Shipments           | 0    | 0    | 0    | 0    | 244  | ERR  |
| Workstation Shipments      | 0    | 0    | 0    | 0    | 244  | ERR  |
| Workstation Installed Base | 0    | 0    | 0    | 0    | 244  | ERR  |
| Europe                     |      |      |      |      |      |      |
| Total Revenue              | 0    | 0    | 0    | 0    | 0    | ERR  |
| System Shipments           | 0    | 0    | 0    | 0    | 0    | ERR  |
| Workstation Shipments      | 0    | 0    | 0    | 0    | 0    | ERR  |
| Workstation Installed Base | 0    | 0    | 0    | 0    | 0    | ERR  |
| Far East                   |      |      |      |      |      |      |
| Total Revenue              | 0    | 0    | 0    | 0    | 0    | ERR  |
| System Shipments           | 0    | 0    | 0    | 0    | 0    | ERR  |
| Workstation Shipments      | 0    | 0    | 0    | 0    | 0    | ERR  |
| Workstation Installed Base | 0    | 0    | 0    | 0    | 0    | ERR  |
| Rest of World              |      |      |      |      |      |      |
| Total Revenue              | 0    | 0    | 0    | 0    | 0    | ERR  |
| System Shipments           | 0    | 0    | 0    | 0    | 0    | ERR  |
| Workstation Shipments      | 0    | 0    | 0    | 0    | 0    | ERR  |
| Workstation Installed Base | 0    | 0    | 0    | 0    | 0    | ERR  |
| Standalone                 |      |      |      |      |      |      |
| Total Revenue              | 0    | 0    | 0    | 0    | 13   | ERR  |
| System Shipments           | 0    | 0    | 0    | 0    | 244  | ERR  |
| Workstation Shipments      | 0    | 0    | 0    | 0    | 244  | ERR  |
| Workstation Installed Base | 0    | 0    | 0    | 0    | 244  | ERR  |
| Host-Dependent             |      |      |      | _    |      |      |
| Total Revenue              | 0    | 0    | 0    | 0    | 0    | ERR  |
| System Shipments           | 0    | 0    | 0    | 0    | 0    | ERR  |
| Workstation Shipments      | 0    | 0    | 0    | 0    | 0    | ERR  |
| Workstation Installed Base | 0    | 0    | 0    | 0    | 0    | ERR  |
| Personal Computer          |      |      |      |      |      |      |
| Total Revenue              | 0    | 0    | 0    | 0    | 0    | ERR  |
| System Shipments           | 0    | 0    | 0    | 0    | 0    | ERR  |
| Workstation Shipments      | 0    | 0    | 0    | 0    | 0    | ERR  |
| Workstation Installed Base | 0    | 0    | 0    | 0    | 0    | ERR  |

Source: Dataquest

TABLE NUMBER:

C-37

TITLE: COMPANY: Company Kistory Computervision

APPLICATION:

UNITS:

Millions of Dollars and Actual Units

|                            | 1981 | 1982 | 1983 | 1984 | 1985 | CAGR  |
|----------------------------|------|------|------|------|------|-------|
|                            |      |      |      | ==== | **** |       |
| Worldwide                  |      |      |      |      |      |       |
| Total Revenue              | 13   | 16   | 8    | 16   | 18   | 8%    |
| System Shipments           | 28   | 33   | 13   | 27   | 28   | 0%    |
| Workstation Shipments      | 120  | 141  | 56   | 71   | 150  | 6%    |
| Workstation Installed Base | 399  | 520  | 548  | 590  | 489  | 5%    |
| North America              |      |      |      |      |      |       |
| Total Revenue              | 5    | 6    | 4    | 10   | 9    | 17%   |
| System Shipments           | 12   | 14   | 7    | 16   | 16   | 7%    |
| Workstation Shipments      | 51   | 59   | 30   | 43   | 93   | 16%   |
| Workstation Installed Base | 197  | 246  | 262  | 291  | 384  | 18%   |
| Europe                     |      |      |      |      |      |       |
| Total Revenue              | 0    | 0    | 3    | 5    | 7    | ERR   |
| System Shipments           | 0    | 0    | 5    | 8    | 6    | ERR   |
| Workstation Shipments      | 0    | 0    | 22   | 21   | 39   | ERR   |
| Workstation Installed Base | 0    | 0    | 20   | 40   | 79   | ERR   |
| Far East                   |      |      |      |      |      |       |
| Total Revenue              | 0    | 0    | 1    | 1    | 2    | ERR   |
| System Shipments           | 0    | 0    | 1    | 2    | 7    | ERR   |
| Workstation Shipments      | 0    | 0    | 4    | 5    | 19   | ERR   |
| Workstation Installed Base | 0    | 0    | 4    | 8    | 27   | ERR   |
| Rest of World              |      |      |      |      |      |       |
| Total Revenue              | 8    | 10   | 0    | 0    | 0    | -100% |
| System Shipments           | 16   | 19   | 0    | 1    | 0    | -100% |
| Workstation Shipments      | 69   | 82   | 0    | 2    | 0    | -100% |
| Workstation Installed Base | 202  | 274  | 262  | 251  | 0    | -100% |
| Standalone                 |      |      |      |      |      |       |
| Total Revenue              | 0    | 0    | 0    | 0    | 0    | ERR   |
| System Shipments           | 0    | 0    | 0    | 0    | 2    | ERR,  |
| Workstation Shipments      | 0    | 0    | 0    | 0    | 2    | ERR   |
| Workstation Installed Base | 0    | 0    | 0    | 0    | 2    | ERR   |
| Host-Dependent             |      |      |      |      |      |       |
| Total Revenue              | 13   | 16   | 8    | 16   | 17   | 8%    |
| System Shipments           | 28   | 33   | 13   | 27   | 24   | -4%   |
| Workstation Shipments      | 120  | 141  | 56   | 71   | 145  | 5%    |
| Workstation Installed Base | 399  | 520  | 548  | 590  | 484  | 5%    |
| Personal Computer          |      |      |      |      |      |       |
| Total Revenue              | 0    | 0    | 0    | 0    | 0    | ERR   |
| System Shipments           | 0    | 0    | 0    | 0    | 2    | ERR   |
| Workstation Shipments      | 0    | 0    | 0    | 0    | 2    | ERR   |
| Workstation Installed Base | 0    | 0    | 0    | 0    | 2    | ERR   |

Source: Dataquest

TABLE NUMBER:

C-38

TITLE: COMPANY: Company History Computervision

APPLICATION:

PCR

UNITS:

Millions of Dollars and Actual Units

|                            | 1981  | 1982       | 1983  | 1984       | 1985  | CAGR  |
|----------------------------|-------|------------|-------|------------|-------|-------|
|                            | 8575  | 2000       | P000  | ====       | 0200  | ETTE  |
| Worldwide                  |       |            |       |            |       |       |
| Total Revenue              | 73    | 88         | 80    | 70         | 53    | -8%   |
| System Shipments           | 143   | 158        | 123   | 117        | 89    | -11%  |
| Workstation Shipments      | 622   | 692        | 535   | 392        | 466   | -7%   |
| Workstation Installed Base | 1.654 | 2,264      | 2,683 | 2,851      | 2,452 | 10%   |
| North America              |       | - <b>,</b> | -•    | _ <b>.</b> | _•    |       |
| Total Revenue              | 38    | 46         | 42    | 41         | 31    | -5%   |
| System Shipments           | 80    | 89         | 65    | 71         | 52    | -10%  |
| Workstation Shipments      | 348   | 389        | 283   | 185        | 310   | -3%   |
| Workstation Installed Base | 990   | 1,330      | 1,546 | 1,653      | 1,963 | 19%   |
| Europe                     |       | -          | •     | •          | •     |       |
| Total Revenue              | 0     | 0          | 30    | 22         | 16    | ERR   |
| System Shipments           | 0     | 0          | 45    | 36         | 14    | ERR   |
| Workstation Shipments      | 0     | 0          | 196   | 180        | 94    | ERR   |
| Workstation Installed Base | 0     | 0          | 197   | 279        | 373   | ERR   |
| Far East                   |       |            |       |            |       |       |
| Total Revenu <del>s</del>  | 0     | 0          | 6     | 4          | 5     | ERR   |
| System Shipments           | 0     | 0          | 9     | 7          | 23    | ERR   |
| Workstation Shipments      | 0     | 0          | 39    | 19         | 62    | ERR   |
| Workstation Installed Base | 0     | 0          | 37    | 54         | 116   | ERR   |
| Rest of World              |       |            |       |            |       |       |
| Total Revenue              | 35    | 42         | 2     | 2          | 0     | -100% |
| System Shipments           | 63    | 69         | 4     | 3          | 0     | -100% |
| Workstation Shipments      | 274   | 303        | 17    | 8          | 0     | -100% |
| Workstation Installed Base | 664   | 934        | 903   | 865        | 0     | -100% |
| Standalone                 |       |            |       |            |       |       |
| Total Revenue              | 0     | 0          | 0     | 0          | 0     | ERR   |
| System Shipments           | 0     | 0          | 0     | 5          | 7     | ERR   |
| Workstation Shipments      | 0     | 0          | 0     | 92         | 7     | ERR   |
| Workstation Installed Base | 0     | 0          | 0     | 3          | 10    | ERR   |
| Host-Dependent             |       |            |       |            |       |       |
| Total Revenue              | 73    | 88         | 80    | 70         | 52    | -8%   |
| System Shipments           | 143   | 158        | 123   | 112        | 74    | - 15% |
| Workstation Shipments      | 622   | 692        | . 535 | 300        | 451   | -8%   |
| Workstation Installed Base | 1,654 | 2,264      | 2,683 | 2,848      | 2,434 | 10%   |
| Personal Computer          |       |            |       |            |       |       |
| Total Revenue              | 0     | 0          | 0     | 0          | 0     | ERR   |
| System Shipments           | 0     | 0          | 0     | 0          | 8     | ERR   |
| Workstation Shipments      | 0     | 0          | 0     | 0          | 8     | ERR   |
| Workstation Installed Base | 0     | 0          | 0     | 0          | 8     | ERR   |

TABLE NUMBER:

APPLICATION:

C-39

TITLE: COMPANY:

Company History

Control Data

UNITS:

All Applications
Millions of Dollars and Actual Units

| Worldwide  Total Revenue 0 0 34 50 116 ERR System Shipments 0 0 40 134 253 ERR  | - |
|---|---|
| Total Revenue         0         0         34         50         116         ERR           System Shipments         0         0         40         134         253         ERR |   |
| System Shipments 0 0 40 134 253 ERR   |   |
| 7 7 10 100  |   |
| 11-1  |   |
| Workstation Shipments 0 0 489 436 856 ERR   |   |
| Workstation Installed Base 0 0 491 904 1,755 ERR  |   |
| North America   |   |
| Total Revenue 0 0 27 43 86 ERR  |   |
| System Shipments 0 0 33 115 216 ERR   |   |
| Workstation Shipments 0 0 403 375 661 ERR   |   |
| Workstation Installed Base 0 0 404 754 1,415 ERR  |   |
| Europe  |   |
| Total Revenue 0 0 3 4 21 ERR  |   |
| System Shipments 0 0 3 10 13 ERR  |   |
| Workstation Shipments 0 0 37 33 128 ERR   |   |
| Workstation Installed Base 0 0 39 72 195 ERR  |   |
| Far East  |   |
| Total Revenue 0 0 3 2 6 ERR   |   |
| System Shipments 0 0 3 7 16 ERR   |   |
| Workstation Shipments 0 0 37 21 46 ERR  |   |
| Workstation Installed Base 0 0 39 62 108 ERR  |   |
| Rest of World   |   |
| Total Revenue 0 0 1 1 3 ERR   |   |
| System Shipments 0 0 1 2 8 ERR  |   |
| Workstation Shipments 0 0 12 7 20 ERR   |   |
| Workstation Installed Base 0 0 9 16 36 ERR  |   |
| Standalone  |   |
| Total Revenue 0 0 0 5 7 ERR   |   |
| System Shipments 0 0 0 70 86 ERR  |   |
| Workstation Shipments 0 0 0 70 86 ERR   |   |
| Workstation Installed Base 0 0 0 70 151 ERR   |   |
| Host-Dependent  |   |
| Total Revenue 0 0 34 45 107 ERR   |   |
| System Shipments 0 0 40 64 70 ERR   |   |
| Workstation Shipments 0 0 489 366 674 ERR   |   |
| Workstation Installed Base 0 0 491 834 1,508 ERR  |   |
| Personal Computer   |   |
| Total Revenue 0 0 0 0 2 ERR   |   |
| System Shipments 0 0 0 0 96 ERR   |   |
| Workstation Shipments 0 0 0 0 96 ERR  |   |
| Workstation Installed Base 0 0 0 0 96 ERR   |   |

TABLE NUMBER:

C-40

TITLE: COMPANY: Company History Control Data

APPLICATION:

Mechanical

UNITS:

Millions of Dollars and Actual Units

|                            | 1981 | 1982 | 1983 | 1984 | 1985  | CAGR |
|----------------------------|------|------|------|------|-------|------|
|                            | ==== | ==== | ==== |      | ====  | FEEE |
| <b>Worldwide</b>           |      |      |      |      |       |      |
| Total Revenue              | 0    | 0    | 30   | 40   | 93    | ERR  |
| System Shipments           | 0    | 0    | 36   | 57   | 61    | ERR  |
| Workstation Shipments      | 0    | 0    | 440  | 324  | 585   | ERR  |
| Workstation Installed Base | 0    | 0    | 439  | 740  | 1,325 | ERR  |
| North America              |      |      |      |      |       |      |
| Total Revenue              | 0    | 0    | 23   | 33   | 65    | ERR  |
| System Shipments           | 0    | 0    | 29   | 48   | 44    | ERR  |
| Workstation Shipments      | 0    | 0    | 354  | 273  | 418   | ERR  |
| Workstation Installed Base | 0    | 0    | 352  | 607  | 1,025 | ERR  |
| Europe                     |      |      |      |      |       |      |
| Total Revenue              | 0    | 0    | 3    | 4    | 21    | ERR  |
| System Shipments           | 0    | 0    | 3    | 5    | 13    | ERR  |
| Workstation Shipments      | 0    | 0    | 37   | 28   | 128   | ERR  |
| Workstation Installed Base | 0    | 0    | 39   | 64   | 192   | ERR  |
| Far East                   |      |      |      |      |       |      |
| Total Revenue              | 0    | 0    | 3    | 2    | 5     | ERR  |
| System Shipments           | 0    | 0    | 3    | 3    | 3     | ERR  |
| Workstation Shipments      | 0    | 0    | 37   | 17   | 28    | ERR  |
| Workstation Installed Base | 0    | 0    | 39   | 55   | 83    | ERR  |
| Rest of World              |      |      |      |      |       |      |
| Total Revenue              | 0    | 0    | 1    | 1    | 2     | ERR  |
| System Shipments           | 0    | 0    | 1    | 1    | 1     | ERR  |
| Workstation Shipments      | 0    | 0    | 12   | 6    | 11    | ERR  |
| Workstation Installed Base | 0    | 0    | 9    | 14   | 25    | ERR  |
| Standalone                 |      |      |      |      |       |      |
| Total Revenue              | 0    | 0    | 0    | 0    | 0     | ERR  |
| System Shipments           | 0    | 0    | 0    | 0    | 0     | ERR  |
| Workstation Shipments      | 0    | 0    | 0    | 0    | 0     | ERR  |
| Workstation Installed Base | 0    | 0    | 0    | 0    | 0     | ERR  |
| Host-Dependent             |      |      |      |      |       |      |
| Total Revenue              | 0    | 0    | 30   | 40   | 93    | ERR  |
| System Shipments           | 0    | 0    | 36   | 57   | 61    | ERR  |
| Workstation Shipments      | 0    | 0    | 440  | 324  | 585   | ERR  |
| Workstation Installed Base | 0    | 0    | 439  | 740  | 1,325 | ERR  |
| Personal Computer          |      |      |      |      |       |      |
| Total Revenue              | 0    | 0    | 0    | 0    | 0     | ERR  |
| System Shipments           | 0    | 0    | 0    | 0    | 0     | ERR  |
| Workstation Shipments      | 0    | 0    | 0    | 0    | 0     | ERR  |
| Workstation Installed Base | 0    | 0    | 0    | 0    | Q     | ERR  |
|                            |      |      |      |      |       |      |

Source: Dataquest

TABLE NUMBER:

C-41

TITLE: COMPANY: Company History

Control Data

APPLICATION:

AEC

UNITS:

Millions of Dollars and Actual Units

|                            | 1981 | 1982 | 1983 | 1984 | 1985 | CAGR |
|----------------------------|------|------|------|------|------|------|
|                            | ==== | 2222 | ==== | TTTZ | ==== | ==== |
| Worldwide                  |      |      |      |      |      |      |
| Total Revenue              | 0    | 0    | 0    | 0    | 5    | ERR  |
| System Shipments           | 0    | 0    | 0    | 0    | 98   | ERR  |
| Workstation Shipments      | 0    | 0    | 0    | 0    | 111  | ERR  |
| Workstation Installed Base | 0    | 0    | 0    | 0    | 111  | ERR  |
| North America              |      |      |      |      |      |      |
| Total Revenue              | 0    | 0    | 0    | 0    | 4    | ERR  |
| System Shipments           | 0    | 0    | 0    | 0    | 88   | ERR  |
| Workstation Shipments      | 0    | 0    | 0    | 0    | 100  | ERR  |
| Workstation Installed Base | 0    | 0    | 0    | 0    | 100  | ERR  |
| Europe                     |      |      |      |      |      |      |
| Total Revenue              | 0    | 0    | 0    | 0    | 0    | ERR  |
| System Shipments           | 0    | 0    | 0    | 0    | 0    | ERR  |
| Workstation Shipments      | 0    | 0    | 0    | 0    | 0    | ERR  |
| Workstation Installed Base | 0    | 0    | 0    | 0    | 0    | ERR  |
| Far East                   |      |      |      |      |      |      |
| Total Revenue              | 0    | 0    | 0    | 0    | 0    | ERR  |
| System Shipments           | 0    | 0    | 0    | 0    | 7    | ERR  |
| Workstation Shipments      | 0    | 0    | 0    | 0    | 7    | ERR  |
| Workstation Installed Base | 0    | 0    | 0    | 0    | 7    | ERR  |
| Rest of World              |      |      |      |      |      |      |
| Total Revenue              | 0    | 0    | 0    | 0    | 0    | ERR  |
| System Shipments           | 0    | 0    | 0    | 0    | 3    | ERR  |
| Workstation Shipments      | 0    | 0    | 0    | 0    | 4    | ERR  |
| Workstation Installed Base | 0    | 0    | 0    | 0    | 4    | ERR  |
| Standalone                 |      |      |      |      |      |      |
| Total Revenue              | 0    | 0    | 0    | 0    | 0    | ERR  |
| System Shipments           | 0    | 0    | 0    | 0    | 0    | ERR  |
| Workstation Shipments      | 0    | 0    | 0    | 0    | 0    | ERR  |
| Workstation Installed Base | 0    | 0    | 0    | 0    | 0    | ERR  |
| Host-Dependent             |      |      |      |      |      |      |
| Total Revenue              | 0    | 0    | 0    | 0    | 2    | ERR  |
| System Shipments           | 0    | 0    | 0    | 0    | 2    | ERR  |
| Workstation Shipments      | 0    | 0    | 0    | 0    | 15   | ERR  |
| Workstation Installed Base | 0    | 0    | 0    | 0    | 15   | ERR  |
| Personal Computer          |      |      |      |      |      |      |
| Total Revenue              | 0    | 0    | 0    | 0    | 2    | ERR  |
| System Shipments           | 0    | 0    | 0    | 0    | 96   | ERR  |
| Workstation Shipments      | 0    | 0    | 0    | 0    | 96   | ERR  |
| Workstation Installed Base | 0    | 0    | 0    | 0    | 96   | ERR  |
|                            |      |      |      |      |      |      |

Source: Dataquest

TABLE NUMBER:

C-42

TITLE: COMPANY: Company History Control Data

APPLICATION:

EDA

UNITS:

Millions of Dollars and Actual Units

|                            | 1981 | 1982 | 1983 | 1984       | 1985 | CAGR |
|----------------------------|------|------|------|------------|------|------|
|                            | ==   | ==== | ==== | ====       | 2523 | ==== |
| Worldwide                  |      |      |      |            |      |      |
| Total Revenue              | 0    | 0    | 1    | 8          | 14   | ERR  |
| System Shipments           | 0    | 0    | 1    | 59         | 91   | ERR  |
| Workstation Shipments      | 0    | 0    | 12   | 82         | 131  | ERR  |
| Workstation Installed Base | 0    | 0    | 12   | 96         | 222  | ERR  |
| North America              |      |      |      |            |      |      |
| Total Revenue              | 0    | 0    | 1    | 8          | 12   | ERR  |
| System Shipments           | 0    | 0    | 1    | 50         | 82   | ERR  |
| Workstation Shipments      | 0    | 0    | 12   | <i>7</i> 3 | 118  | ERR  |
| Workstation Installed Base | 0    | 0    | 12   | 82         | 200  | ERR  |
| Europe                     |      |      |      |            |      |      |
| Total Revenue              | 0    | 0    | 0    | 0          | 0    | ERR  |
| System Shipments           | 0    | 0    | 0    | 5          | 0    | ERR  |
| Workstation Shipments      | 0    | 0    | 0    | 5          | 0    | ERR  |
| Workstation Installed Base | 0    | 0    | 0    | 7          | 2    | ERR  |
| far East                   |      |      |      |            |      |      |
| Total Revenue              | 0    | 0    | 0    | 0          | 1    | ERR  |
| System Shipments           | 0    | 0    | 0    | 3          | 6    | ERR  |
| Workstation Shipments      | 0    | 0    | 0    | 3          | 9    | ERR  |
| Workstation Installed Base | 0    | 0    | 0    | 5          | 14   | ERR  |
| Rest of World              |      |      |      |            |      |      |
| Total Revenue              | 0    | 0    | 0    | 0          | 1    | ERR  |
| System Shipments           | 0    | 0    | 0    | 1          | 3    | ERR  |
| Workstation Shipments      | 0    | 0    | 0    | 1          | 4    | ERR  |
| Workstation Installed Base | 0    | 0    | 0    | 2          | 6    | ERR  |
| Standalone                 |      |      |      |            |      |      |
| Total Revenue              | 0    | 0    | 0    | 4          | 7    | ERR  |
| System Shipments           | 0    | 0    | 0    | 54         | 86   | ERR  |
| Workstation Shipments      | 0    | 0    | 0    | 54         | 86   | ERR  |
| Workstation Installed Base | 0    | 0    | 0    | 54         | 135  | ERR  |
| Host-Dependent             |      |      |      |            |      |      |
| Total Revenue              | 0    | 0    | 1    | 4          | 7    | ERR  |
| System Shipments           | 0    | 0    | 1    | 5          | 5    | ERR  |
| Workstation Shipments      | 0    | 0    | 12   | 28         | 44   | ERR  |
| Workstation Installed Base | 0    | 0    | 12   | 42         | 86   | ERR  |
| Personal Computer          |      |      |      |            |      |      |
| Total Revenue              | 0    | 0    | 0    | 0          | 0    | ERR  |
| System Shipments           | 0    | 0    | 0    | 0          | 0    | ERR  |
| Workstation Shipments      | 0    | 0    | 0    | 0          | 0    | ERR  |
| Workstation Installed Base | 0    | 0    | 0    | 0          | 0    | ERR  |
|                            |      |      |      |            |      |      |

Source: Dataquest

TABLE NUMBER:

C-43

TITLE: COMPANY: Company History Control Data

APPLICATION:

IC

UNITS:

Millions of Dollars and Actual Units

|                            | 1981 | 1982 | 1983 | 1984 | 1985 | CAGR |
|----------------------------|------|------|------|------|------|------|
|                            | C=== | ==== | ==== | ==== | ==== | *=== |
| Worldwide                  |      |      |      |      |      |      |
| Total Revenue              | 0    | 0    | 3    | 3    | 5    | ERR  |
| System Shipments           | Ð    | Ð    | 3    | 18   | 3    | ERR  |
| Workstation Shipments      | 0    | 0    | 37   | 27   | 30   | ERR  |
| Workstation Installed Base | 0    | 0    | 40   | 65   | 95   | ERR  |
| North America              |      |      |      |      |      |      |
| Total Revenue              | 0    | 0    | 3    | 3    | 4    | ERR  |
| System Shipments           | 0    | 0    | 3    | 17   | 3    | ERR  |
| Workstation Shipments      | 0    | 0    | 37   | 26   | 27   | ERR  |
| Workstation Installed Base | 0    | 0    | 40   | 62   | 89   | ERR  |
| Europe                     |      |      |      |      |      |      |
| Total Revenue              | 0    | 0    | 0    | 0    | 0    | ERR  |
| System Shipments           | 0    | 0    | 0    | 0    | 0    | ERR  |
| Workstation Shipments      | 0    | 0    | 0    | 0    | 0    | ERR  |
| Workstation Installed Base | 0    | 0    | 0    | 1    | 1    | ERR  |
| Far East                   |      |      |      |      |      |      |
| Total Revenue              | 0    | 0    | 0    | 0    | 0    | ERR  |
| System Shipments           | 0    | 0    | 0    | 1    | 0    | ERR  |
| Workstation Shipments      | 0    | 0    | 0    | 1    | 2    | ERR  |
| Workstation Installed Base | 0    | C    | 0    | 2    | 4    | ERR  |
| Rest of World              |      |      |      |      |      |      |
| Total Revenue              | 0    | 0    | 0    | 0    | 0    | ERR  |
| System Shipments           | 0    | 0    | 0    | 0    | 0    | ERR  |
| Workstation Shipments      | 0    | 0    | 0    | 0    | 1    | ERR  |
| Workstation Installed Base | 0    | 0    | 0    | 0    | 1    | ERR  |
| Standalone                 |      |      |      |      |      |      |
| Total Revenue              | 0    | 0    | 0    | 1    | 0    | ERR  |
| System Shipments           | 0    | 0    | 0    | 16   | 0    | ERR  |
| Workstation Shipments      | 0    | 0    | 0    | 16   | 0    | ERR  |
| Workstation Installed Base | 0    | 0    | 0    | 16   | 16   | ERR  |
| Host-Dependent             |      |      |      |      |      |      |
| Total Revenue              | 0    | 0    | 3    | 1    | 5    | ERR  |
| System Shipments           | 0    | 0    | 3    | 2    | 3    | ERR  |
| Workstation Shipments      | 0    | 0    | 37   | 11   | 30   | ERR  |
| Workstation Installed Base | 0    | 0    | 40   | 49   | 79   | ERR  |
| Personal Computer          |      |      |      |      |      |      |
| Total Revenue              | 0    | 0    | 0    | 0    | 0    | ERR  |
| System Shipments           | 0    | 0    | 0    | 0    | 0    | ERR  |
| Workstation Shipments      | 0    | 0    | 0    | 0    | 0    | ERR  |
| Workstation Installed Base | 0    | 0    | 0    | 0    | 0    | ERR  |
|                            |      |      |      |      |      |      |

TABLE NUMBER:

C-44

TITLE:

Company History

COMPANY:

Daisy

APPLICATION:

All Applications

UNITS:

Millions of Dollars and Actual Units

|                            | 1981 | 1982 | 1983 | 1984  | 1985  | CAGR  |
|----------------------------|------|------|------|-------|-------|-------|
|                            |      | ==== | 1000 | ====  | ====  | ====  |
| Worldwide                  |      |      |      |       |       |       |
| Total Revenue              | 0    | 7    | 28   | 82    | 134   | ERR   |
| System Shipments           | 3    | 106  | 407  | 1,440 | 2,001 | 408%  |
| Workstation Shipments      | 3    | 106  | 407  | 1,435 | 2,001 | 408%  |
| Workstation Installed Base | 3    | 134  | 534  | 1,948 | 3,893 | 500%  |
| North America              |      |      |      |       |       |       |
| Total Revenue              | 0    | 4    | 21   | 56    | 93    | ERR   |
| System Shipments           | 3    | 69   | 297  | 1,020 | 1,423 | 367%  |
| Workstation Shipments      | 3    | 69   | 297  | 1,020 | 1,423 | 367%  |
| Workstation Installed Base | 3    | 72   | 365  | 1,367 | 2,790 | 452%  |
| Europe                     |      |      |      |       |       |       |
| Total Revenue              | 0    | 0    | 4    | 13    | 28    | ERR   |
| System Shipments           | 0    | 0    | 66   | 266   | 402   | ERR   |
| Workstation Shipments      | Ð    | 0    | 66   | 266   | 402   | ERR   |
| Workstation Installed Base | 0    | 0    | 66   | 328   | 730   | ERR   |
| Far East                   |      |      |      |       |       |       |
| Total Revenue              | 0    | 0    | 3    | 13    | 13    | ERR   |
| System Shipments           | 0    | 0    | 44   | 154   | 176   | ERR   |
| Workstation Shipments      | 0    | 0    | 44   | 149   | 176   | ERR   |
| Workstation Installed Base | 0    | 0    | 44   | 197   | 373   | ERR   |
| Rest of World              |      |      |      |       |       |       |
| Total Revenue              | 0    | 2    | 0    | 0     | 0     | ERR   |
| System Shipments           | 0    | 37   | 0    | 0     | 0     | ÉRR   |
| Workstation Shipments      | 0    | 37   | 0    | 0     | 0     | ERR   |
| Workstation Installed Base | 0    | 62   | 59   | 56    | 0     | ERR   |
| Standalone                 |      |      |      |       |       |       |
| Total Revenue              | Û    | 0    | 28   | 81    | 114   | ERR   |
| System Shipments           | 0    | 0    | 407  | 1,400 | 1,368 | ERR   |
| Workstation Shipments      | 0    | 0    | 407  | 1,400 | 1,368 | ERR   |
| Workstation Installed Base | 0    | 0    | 407  | 1,787 | 3,155 | ERR   |
| Host-Dependent             |      |      |      |       |       |       |
| Total Revenue              | 0    | 7    | 0    | 0     | 0     | ERR   |
| System Shipments           | 3    | 106  | 0    | 0     | 0     | -100% |
| Workstation Shipments      | 3    | 106  | 0    | 0     | 0     | -100% |
| Workstation Installed Base | 3    | 134  | 127  | 0     | 0     | -100% |
| Personal Computer          |      |      |      |       |       |       |
| Total Revenue              | 0    | 0    | 0    | 1     | 20    | ERR   |
| System Shipments           | 0    | 0    | 0    | 40    | 632   | ERR   |
| Workstation Shipments      | 0    | 0    | 0    | 35    | 632   | ERR   |
| Workstation Installed Base | 0    | 0    | 0    | 40    | 672   | ERR   |
|                            |      |      |      |       |       |       |

TABLE NUMBER:

C-45

TITLE:

Company History

COMPANY: APPLICATION: Daisy EDA

UNITS:

Millions of Dollars and Actual Units

|                            | 1981 | 1982 | 1983 | 1984  | 1985  | CAGR   |
|----------------------------|------|------|------|-------|-------|--------|
|                            |      | ==== | ==== | ====  |       |        |
| Worldwide                  |      |      |      |       |       |        |
| Total Revenue              | 0    | 7    | 28   | 64    | 107   | ERR    |
| System Shipments           | 3    | 106  | 407  | 1,255 | 1,691 | 387%   |
| Workstation Shipments      | 3    | 106  | 407  | 1,250 | 1,691 | 387%   |
| Workstation Installed Base | 3    | 134  | 534  | 1,763 | 3,398 | 480%   |
| North America              |      |      |      |       |       |        |
| Total Revenue              | 0    | 4    | 21   | 45    | 74    | ERR    |
| System Shipments           | 3    | 69   | 297  | 887   | 1,214 | 349%   |
| Workstation Shipments      | 3    | 69   | 297  | 887   | 1,214 | 349%   |
| Workstation Installed Base | 3    | 72   | 365  | 1,234 | 2,448 | 434%   |
| Europe                     |      |      |      |       |       |        |
| Total Revenue              | 0    | 0    | 4    | 10    | 23    | ERR    |
| System Shipments           | 0    | 0    | 66   | 239   | 329   | ERR    |
| Workstation Shipments      | 0    | 0    | 66   | 239   | 329   | ERR    |
| Workstation Installed Base | 0    | 0    | 66   | 301   | 630   | ERR    |
| Far East                   |      |      |      |       |       |        |
| Total Revenue              | 0    | 0    | 3    | 10    | 11    | ERR    |
| System Shipments           | 0    | 0    | 44   | 129   | 148   | ERR    |
| Workstation Shipments      | 0    | 0    | 44   | 124   | 148   | ERR    |
| Workstation Installed Base | 0    | 0    | 44   | 172   | 320   | ERR    |
| Rest of World              |      |      |      |       |       |        |
| Total Revenue              | 0    | 2    | 0    | 0     | 0     | ERR    |
| System Shipments           | 0    | 37   | 0    | 0     | 0     | ERR    |
| Workstation Shipments      | 0    | 37   | 0    | 0     | 0     | ERR    |
| Workstation Installed Base | 0    | 62   | 59   | 56    | 0     | ERR    |
| Standalon <del>e</del>     |      |      |      |       |       |        |
| Total Revenue              | 0    | 0    | 28   | 63    | 88    | ERR    |
| System Shipments           | 0    | 0    | 407  | 1,215 | 1,084 | ERR    |
| Workstation Shipments      | 0    | 0    | 407  | 1,215 | 1,084 | ERR    |
| Workstation Installed Base | 0    | 0    | 407  | 1,602 | 2,686 | ERR    |
| Host-Dependent             |      |      |      |       |       |        |
| Total Revenue              | 0    | 7    | 0    | 0     | 0     | ERR    |
| System Shipments           | 3    | 106  | 0    | 0     | 0     | - 100% |
| Workstation Shipments      | 3    | 106  | 0    | 0     | 0     | -100%  |
| Workstation Installed Base | 3    | 134  | 127  | 121   | 65    | 116%   |
| Personal Computer          |      |      |      |       |       |        |
| Total Revenue              | 0    | 0    | 0    | 1     | 19    | ERR    |
| System Shipments           | 0    | 0    | 0    | 40    | 607   | ERR    |
| Workstation Shipments      | 0    | 0    | 0    | 35    | 607   | ERR    |
| Workstation Installed Base | 0    | 0    | 0    | 40    | 647   | ERR    |

Source: Dataquest

TABLE NUMBER:

C-46

TITLE:

Company History

COMPANY:

Daisy

APPLICATION:

10

UNITS:

Millions of Dollars and Actual Units

|                            | 1981 | 1982 | 1983 | 1984   | 1985 | CAGR |
|----------------------------|------|------|------|--------|------|------|
|                            | ==== | ==== | ==== | z = ## | ==== | ==== |
| Worldwide                  |      |      |      |        |      |      |
| Total Revenue              | 0    | 0    | 0    | 17     | 27   | ERR  |
| System Shipments           | 0    | 0    | 0    | 185    | 310  | ERR  |
| Workstation Shipments      | 0    | 0    | 0    | 185    | 310  | ERR  |
| Workstation Installed Base | 0    | 0    | 0    | 185    | 495  | ERR  |
| North America              |      |      |      |        |      |      |
| Total Revenue              | 0    | 0    | 0    | 11     | 19   | ERR  |
| System Shipments           | 0    | 0    | 0    | 133    | 210  | ERR  |
| Workstation Shipments      | 0    | 0    | 0    | 133    | 210  | ERR  |
| Workstation Installed Base | 0    | 0    | 0    | 133    | 343  | ERR  |
| Europe                     |      |      |      |        |      |      |
| Total Revenue              | 0    | 0    | 0    | 3      | 5    | ERR  |
| System Shipments           | 0    | 0    | 0    | 27     | 73   | ERR  |
| Workstation Shipments      | 0    | 0    | 0    | 27     | 73   | ERR  |
| Workstation Installed Base | 0    | 0    | 0    | 27     | 100  | ERR  |
| Far East                   |      |      |      |        |      |      |
| Total Revenue              | 0    | 0    | 0    | 3      | 3    | ERR  |
| System Shipments           | 0    | 0    | 0    | 25     | 28   | ERR  |
| Workstation Shipments      | 0    | 0    | 0    | 25     | 28   | ERR  |
| Workstation Installed Base | 0    | 0    | 0    | 25     | 53   | ERR  |
| Rest of World              |      |      |      |        |      |      |
| Total Revenue              | 0    | 0    | 0    | 0      | 0    | ERR  |
| System Shipments           | 0    | 0    | 0    | 0      | 0    | ERR  |
| Workstation Shipments      | 0    | 0    | 0    | 0      | 0    | ERR  |
| Workstation Installed Base | 0    | 0    | 0    | 0      | 0    | ERR  |
| Standalone                 |      |      |      |        |      |      |
| Total Revenue              | 0    | 0    | 0    | 17     | 26   | ERR  |
| System Shipments           | 0    | 0    | 0    | 185    | 284  | ERR  |
| Workstation Shipments      | 0    | 0    | 0    | 185    | 284  | ERR  |
| Workstation Installed Base | 0    | 0    | C    | 185    | 469  | ERR  |
| Host-Dependent             |      |      |      |        |      |      |
| Total Revenue              | 0    | 0    | 0    | 0      | 0    | ERR  |
| System Shipments           | 0    | 0    | 0    | 0      | 0    | ERR  |
| Workstation Shipments      | 0    | 0    | 0    | 0      | 0    | ERR  |
| Workstation Installed Base | 0    | 0    | 0    | 0      | 0    | ERR  |
| Personal Computer          |      |      |      |        |      |      |
| Total Revenue              | 0    | 0    | 0    | 0      | 1    | ERR  |
| System Shipments           | 0    | 0    | 0    | 0      | 26   | ERR  |
| Workstation Shipments      | 0    | 0    | 0    | 0      | 26   | ERR  |
| Workstation Installed Base | 0    | 0    | 0    | 0      | 26   | ERR  |
|                            |      |      |      |        |      |      |

Source: Dataquest

TABLE NUMBER:

C-47

TITLE:

Company History'

COMPANY:

Ferranti

APPLICATION:

All Applications

UNITS:

Millions of Dollars and Actual Units

|                            | 1981 | 1982 | 1983 | 1984 | 1985 | CAGR |
|----------------------------|------|------|------|------|------|------|
|                            | ==== | **** |      |      | **** | 2222 |
| Worldwide                  |      |      |      |      |      |      |
| Total Revenue              | 0    | 0    | 0    | 0    | 27   | ERR  |
| System Shipments           | 0    | 0    | 0    | 0    | 41   | ERR  |
| Workstation Shipments      | 0    | 0    | ` 0  | 0    | 141  | ERR  |
| Workstation Installed Base | 0    | 0    | 0    | 0    | 141  | ERR  |
| North America              |      |      |      |      |      |      |
| Total Revenue              | 0    | 0    | 0    | 0    | 1    | ERR  |
| System Shipments           | 0    | 0    | 0    | 0    | 2    | ERR  |
| Workstation Shipments      | 0    | 0    | 0    | 0    | 5    | ERR  |
| Workstation Installed Base | 0    | 0    | 0    | 0    | 5    | ERR  |
| Europe                     |      |      |      |      |      |      |
| Total Revenue              | 0    | 0    | 0    | 0    | 26   | ERR  |
| System Shipments           | 0    | 0    | 0    | 0    | 39   | ERR  |
| Workstation Shipments      | 0    | 0    | 0    | 0    | 136  | ERR  |
| Workstation Installed Base | 0    | 0    | 0    | 0    | 136  | ERR  |
| Far East                   |      |      |      |      |      |      |
| Total Revenue              | 0    | 0    | 0    | 0    | 0    | ERR  |
| System Shipments           | 0    | 0    | 0    | 0    | 0    | ERR  |
| Workstation Shipments      | 0    | 0    | 0    | 0    | 0    | ERR  |
| Workstation Installed Base | 0    | 0    | 0    | 0    | 0    | ERR  |
| Rest of World              |      |      |      |      |      |      |
| Total Revenue              | 0    | 0    | 0    | 0    | 0    | ERR  |
| System Shipments           | 0    | 0    | 0    | 0    | 0    | ERR  |
| Workstation Shipments      | 0    | 0    | 0    | 0    | 0    | ERR  |
| Workstation Installed Base | 0    | 0    | 0    | 0    | 0    | ERR  |
| Standalone                 |      |      |      |      |      |      |
| Total Revenue              | 0    | 0    | 0    | 0    | 4    | ERR  |
| System Shipments           | 0    | 0    | 0    | 0    | 15   | ERR  |
| Workstation Shipments      | 0    | 0    | 0    | 0    | 15   | ERR  |
| Workstation Installed Base | 0    | 0    | 0    | 0    | 15   | ERR  |
| Host-Dependent             |      |      |      |      |      |      |
| Total Revenue              | 0    | 0    | 0    | 0    | 23   | ERR  |
| System Shipments           | 0    | 0    | 0    | 0    | 26   | ERR  |
| Workstation Shipments      | 0    | 0    | 0    | 0    | 126  | ERR  |
| Workstation Installed Base | 0    | 0    | 0    | 0    | 126  | ERR  |
| Personal Computer          |      |      |      |      |      |      |
| Total Revenue              | 0    | 0    | 0    | 0    | 0    | ÉRR  |
| System Shipments           | 0    | 0    | 0    | 0    | 0    | ERR  |
| Workstation Shipments      | 0    | 0    | 0    | 0    | 0    | ERR  |
| Workstation Installed Base | 0    | 0    | 0    | 0    | 0    | ERR  |

TABLE NUMBER:

C-48

TITLE:

Company History

COMPANY: APPLICATION: Ferranti Mechanical

UNITS:

Millions of Dollars and Actual Units

|                            | 1981         | 1982 | 1983 | 1984 | 1985 | CAGR |
|----------------------------|--------------|------|------|------|------|------|
|                            | <b>==</b> == | ===  | ==== |      | ==== | ==== |
| Worldwide                  |              |      |      |      |      |      |
| Total Revenue              | 0            | 0    | 0    | 0    | 26   | ERR  |
| System Shipments           | 0            | 0    | 0    | 0    | 39   | ERR  |
| Workstation Shipments      | 0            | 0    | 0    | 0    | 138  | ERR  |
| Workstation Installed Base | 0            | 0    | 0    | 0    | 138  | ERR  |
| North America              |              |      |      |      |      |      |
| Total Revenue              | 0            | 0    | 0    | 0    | 1    | ERR  |
| System Shipments           | 0            | 0    | 0    | 0    | 1    | ERR  |
| Workstation Shipments      | 0            | 0    | 0    | 0    | 2    | ERR  |
| Workstation Installed Base | 0            | 0    | 0    | 0    | 2    | ERR  |
| Europe                     |              |      |      |      |      |      |
| Total Revenue              | 0            | 0    | 0    | 0    | 26   | ERR  |
| System Shipments           | 0            | 0    | 0    | 0    | 38   | ERR  |
| Workstation Shipments      | 0            | 0    | 0    | 0    | 136  | ERR  |
| Workstation Installed Base | 0            | 0    | 0    | 0    | 136  | ERR  |
| Far East                   |              |      |      |      |      |      |
| Total Revenue              | 0            | 0    | 0    | 0    | 0    | ERR  |
| System Shipments           | Ð            | 0    | 0    | 0    | 0    | ERR  |
| Workstation Shipments      | 0            | 0    | 0    | 0    | 0    | ERR  |
| Workstation Installed Base | 0            | 0    | 0    | 0    | 0    | ERR  |
| Rest of World              |              |      |      |      |      |      |
| Total Revenue              | 0            | 0    | 0    | 0    | 0    | ERR  |
| System Shipments           | 0            | 0    | 0    | 0    | 0    | ERR  |
| Workstation Shipments      | 0            | 0    | 0    | 0    | 0    | ERR  |
| Workstation Installed Base | 0            | 0    | 0    | 0    | 0    | ERR  |
| Standalone                 |              |      |      |      |      |      |
| Total Revenue              | 0            | 0    | 0    | 0    | 4    | ERR  |
| System Shipments           | 0            | 0    | 0    | 0    | 14   | ERR  |
| Workstation Shipments      | 0            | 0    | 0    | 0    | 14   | ERR  |
| Workstation Installed Base | 0            | 0    | 0    | 0    | 14   | ERR  |
| Host-Dependent             |              |      |      |      |      |      |
| Total Revenue              | 0            | 0    | 0    | 0    | 23   | ERR  |
| System Shipments           | 0            | Đ    | 0    | 0    | 26   | ERR  |
| Workstation Shipments      | 0            | 0    | 0    | 0    | 124  | ERR  |
| Workstation Installed Base | 0            | 0    | 0    | 0    | 124  | ERR  |
| Personal Computer          |              |      |      |      |      |      |
| Total Revenue              | 0            | 0    | 0    | 0    | 0    | ERR  |
| System Shipments           | 0            | 0    | Ð    | 0    | 0    | ERR  |
| Workstation Shipments      | 0            | C    | 0    | 0    | 0    | ERR  |
| Workstation Installed Base | 9            | G    | Û    | 0    | 0    | ERR  |
|                            |              |      |      |      |      |      |

TABLE NUMBER:

C-49

TITLE:

Company History

COMPANY:

Ferranti

APPLICATION:

AEC

UNITS:

Millions of Dollars and Actual Units

|                            | 1981 | 1982 | 1983 | 1984 | 1985 | CAGR         |
|----------------------------|------|------|------|------|------|--------------|
|                            |      | EEEE | ==== | ==== | ==== | reu <u>r</u> |
| Worldwid <del>e</del>      |      |      |      |      |      |              |
| Total Revenue              | Ð    | 8    | 0    | Ð    | 1    | ERR          |
| System Shipments           | 0    | C    | 0    | 0    | 1    | ERR          |
| Workstation Shipments      | 0    | 0    | 0    | 0    | 3    | ERR          |
| Workstation Installed Base | 0    | 0    | 0    | 0    | 3    | ERR          |
| North America              |      |      |      |      |      |              |
| Total Revenue              | 0    | 0    | 0    | 0    | 1    | ERR          |
| System Shipments           | 0    | 0    | 0    | 0    | 1    | ERR          |
| Workstation Shipments      | 0    | 0    | 0    | 0    | 3    | ERR          |
| Workstation Installed Base | 0    | 0    | 0    | 0    | 3    | ERR          |
| Europe                     |      |      |      |      |      |              |
| Total Revenu <del>s</del>  | 0    | 0    | . 0  | 0    | 0    | ERR          |
| System Shipments           | 0    | 0    | 0    | 0    | 0    | ERR          |
| Workstation Shipments      | 0    | 0    | 0    | 0    | 0    | ERR          |
| Workstation Installed Base | 0    | 0    | 0    | 0    | 0    | ERR          |
| Far East                   |      |      |      |      |      |              |
| Total Revenue              | 0    | 0    | 0    | 0    | 0    | ERR          |
| System Shipments           | G    | Q    | 0    | 0    | 0    | ERR          |
| Workstation Shipments      | 0    | 0    | 0    | 0    | 0    | ERR          |
| Workstation Installed Base | 0    | 0    | 0    | 0    | 0    | ERR          |
| Rest of World              |      |      |      |      |      |              |
| Total Revenue              | 0    | 0    | 0    | 0    | 0    | ERR          |
| System Shipments           | 0    | 0    | 0    | 0    | 0    | ERR          |
| Workstation Shipments      | 0    | 0    | 0    | 0    | 0    | ERR          |
| Workstation Installed Base | 0    | 0    | 0    | 0    | 0    | ERR          |
| Standalone                 |      |      |      |      |      |              |
| Total Revenue              | 0    | 0    | 0    | 0    | 0    | ERR          |
| System Shipments           | 0    | 0    | 0    | 0    | 1    | ERR          |
| Workstation Shipments      | 0    | G    | 0    | 0    | 1    | ERR          |
| Workstation Installed Base | 0    | 0    | 0    | 0    | 1    | ERR          |
| Host-Dependent             |      |      |      |      |      |              |
| Total Revenue              | 0    | 0    | 0    | 0    | 1    | ERR          |
| System Shipments           | 0    | 0    | 0    | 0    | 0    | ERR          |
| Workstation Shipments      | 0    | 0    | 0    | 0    | 2    | ERR          |
| Workstation Installed Base | 0    | 0    | 0    | 0    | 2    | ERR          |
| Personal Computer          |      |      |      |      |      |              |
| Total Revenue              | 0    | 0    | 0    | 0    | 0    | ERR          |
| System Shipments           | 0    | 0    | 0    | 0    | 0    | ERR          |
| Workstation Shipments      | 0    | 0    | 0    | 0    | 0    | ERR          |
| Workstation Installed Base | 0    | 0    | 0    | 0    | 0    | ERR          |
|                            |      |      |      |      |      |              |

Source: Dataquest

TABLE NUMBER:

C-50

TITLE:

Company History

COMPANY:

Ferranti

APPLICATION:

PCB

UNITS:

Millions of Dollars and Actual Units

|                            | 1981 | 1982 | 1983 | 1984 | 1985 | CAGR |
|----------------------------|------|------|------|------|------|------|
|                            |      |      | ==== | **** | ==== |      |
| Worldwide                  |      |      |      |      |      |      |
| Total Revenue              | 0    | 0    | 0    | 0    | 0    | ERR  |
| System Shipments           | 0    | 0    | 0    | 0    | 0    | ERR  |
| Workstation Shipments      | 0    | 0    | 0    | 0    | 0    | ERR  |
| Workstation Installed Base | 0    | 0    | 0    | 0    | 0    | ERR  |
| North America              |      |      |      |      |      |      |
| Total Revenue              | 0    | 0    | 0    | 0    | 0    | ERR  |
| System Shipments           | 0    | 0    | 0    | 0    | 0    | ERR  |
| Workstation Shipments      | 0    | 0    | 0    | 0    | C    | ERR  |
| Workstation Installed Base | 0    | 0    | 0    | 0    | 0    | ERR  |
| Europe                     |      |      |      |      |      |      |
| Total Revenue              | 0    | 0    | 0    | 0    | 0    | ERR  |
| System Shipments           | 0    | 0    | 0    | 0    | 0    | ERR  |
| Workstation Shipments      | Đ    | 0    | 0    | 0    | 0    | ERR  |
| Workstation Installed Base | 0    | 0    | 0    | 0    | 0    | ERR  |
| Far Eest                   |      |      |      |      |      |      |
| Total Revenue              | 0    | 0    | 0    | 9    | 0    | ERR  |
| System Shipments           | 0    | 0    | 0    | 0    | 0    | ERR  |
| Workstation Shipments      | 0    | 0    | 0    | 0    | 0    | ERR  |
| Workstation Installed Base | 0    | 0    | 0    | 0    | 0    | ERR  |
| Rest of World              |      |      |      |      |      |      |
| Total Revenue              | 0    | 0    | 0    | 0    | 6    | ERR  |
| System Shipments           | 0    | 0    | G    | Q    | 0    | ERR  |
| Workstation Shipments      | 0    | 0    | 0    | 0    | 0    | ERR  |
| Workstation Installed Base | 0    | 0    | 0    | 0    | 0    | ERR  |
| Standalone                 |      |      |      |      |      |      |
| Total Revenue              | 0    | 0    | 0    | 0    | 0    | ERR  |
| System Shipments           | 0    | 0    | 9    | 0    | 0    | ERR  |
| Workstation Shipments      | 0    | 0    | 0    | 0    | 0    | ERR  |
| Workstation Installed Base | 0    | 0    | 0    | 0    | 0    | ERR  |
| Host-Dependent             |      |      |      |      |      |      |
| Total Revenue              | 0    | 6    | 0    | 0    | 0    | ERR  |
| System Shipments           | 0    | 0    | C    | 0    | 0    | ERR  |
| Workstation Shipments      | 0    | 0    | 0    | 0    | 0    | ERR  |
| Workstation Installed Base | C    | 0    | 0    | 0    | 0    | ERR  |
| Personal Computer          |      |      |      |      |      |      |
| Total Revenue              | 0    | 0    | G    | 0    | 0    | ERR  |
| System Shipments           | 0    | 0    | 0    | 0    | 0    | ERR  |
| Workstation Shipments      | 0    | 0    | 0    | 0    | 0    | ERR  |
| Workstation Installed Base | 0    | 0    | θ    | 0    | 0    | ERR  |
|                            |      |      |      |      |      |      |

TABLE NUMBER:

C-51

TITLE:

Company History

COMPANY:

Futurenet

APPLICATION:

All Applications

UNITS:

Millions of Dollars and Actual Units

|                            | 1981 | 1982 | 1983 | 1984 | 1985 | CAGR |
|----------------------------|------|------|------|------|------|------|
|                            |      | 2222 | ==== | ==== | ==== | ==== |
| Worldwide                  |      |      |      |      |      |      |
| Total Revenue              | 0    | 0    | 0    | 0    | 20   | ERR  |
| System Shipments           | 0    | 0    | 0    | 0    | 33   | ERR  |
| Workstation Shipments      | 0    | 0    | 0    | 0    | 33   | ERR  |
| Workstation Installed Base | 0    | 0    | 0    | 0    | 33   | ERR  |
| North America              |      |      |      |      |      |      |
| Total Revenue              | 0    | 0    | 0    | 0    | 12   | ERR  |
| System Shipments           | 0    | 0    | 0    | 0    | 25   | ERR  |
| Workstation Shipments      | 0    | 0    | 0    | 0    | 25   | ERR  |
| Workstation Installed Base | 0    | 0    | 0    | 0    | 25   | ERR  |
| Europe                     |      |      |      |      |      |      |
| Total Revenue              | 0    | 0    | 0    | 0    | 6    | ERR  |
| System Shipments           | 0    | 0    | 0    | 0    | 5    | ERR  |
| Workstation Shipments      | 0    | 0    | 0    | 0    | 5    | ERR  |
| Workstation Installed Base | 0    | 0    | 0    | 0    | 5    | ERR  |
| Far East                   |      |      |      |      |      |      |
| Total Revenue              | 0    | 0    | 0    | 0    | 2    | ERR  |
| System Shipments           | 0    | 0    | 0    | 0    | 4    | ERR  |
| Workstation Shipments      | 0    | 0    | 0    | 0    | 4    | ERR  |
| Workstation Installed Base | 0    | 0    | 0    | 0    | 4    | ERR  |
| Rest of World              |      |      |      |      |      |      |
| Total Revenue              | 0    | 0    | 0    | 0    | 0    | ERR  |
| System Shipments           | 0    | 0    | 0    | 0    | 0    | ERR  |
| Workstation Shipments      | 0    | 0    | 0    | 0    | 0    | ERR  |
| Workstation Installed Base | 0    | 0    | 0    | 0    | 0    | ERR  |
| Standalone                 |      |      |      |      |      |      |
| Total Revenue              | 0    | 0    | 0    | 0.   | 0    | ERR  |
| System Shipments           | 0    | 0    | 0    | 0    | 0    | ERR  |
| Workstation Shipments      | 0    | 0    | 0    | 0    | 0    | ERR  |
| Workstation Installed Base | 0    | 0    | 0    | 0    | 0    | ERR  |
| Host-Dependent             |      |      |      |      |      |      |
| Total Revenue              | 0    | 0    | 0    | 0    | 0    | ERR  |
| System Shipments           | 0    | 0    | 0    | 0    | 0    | ERR  |
| Workstation Shipments      | 0    | 0    | 0    | 0    | 0    | ERR  |
| Workstation Installed Base | 0    | 0    | 0    | 0    | 0    | ERR  |
| Personal Computer          |      |      |      |      |      |      |
| Total Revenue              | 0    | 0    | 0    | 0    | 20   | ERR  |
| System Shipments           | 0    | 0    | 0    | 0    | 33   | ERR  |
| Workstation Shipments      | 0    | 0    | 0    | 0    | 33   | ERR  |
| Workstation Installed Base | 0    | 0    | 0    | 0    | 33   | ERR  |
|                            |      |      |      |      |      |      |

Source: Dataquest

TABLE NUMBER:

C-52

TITLE:

Company History

COMPANY:

Futurenet

APPLICATION:

EDA

UNITS:

Millions of Dollars and Actual Units

|                            | 1981 | 1982 | 1983 | 1984 | 1985 | CAGR |
|----------------------------|------|------|------|------|------|------|
|                            | #### | ==== | ==== | ===■ | 2225 | EE5# |
| Worldwide                  |      |      |      |      |      |      |
| Total Revenue              | 0    | 0    | 0    | 0    | 20   | ERR  |
| System Shipments           | 0    | 0    | 0    | 0    | 33   | ERR  |
| Workstation Shipments      | 0    | 0    | 0    | 0    | 33   | ERR  |
| Workstation Installed Base | 0    | 0    | 0    | 0    | 33   | ERR  |
| North America              |      |      |      |      |      |      |
| Total Revenue              | 0    | 0    | 0    | 0    | 12   | ERR  |
| System Shipments           | 0    | 0    | 0    | 0    | 25   | ERR  |
| Workstation Shipments      | 0    | 0    | 0    | 0    | 25   | ERR  |
| Workstation Installed Base | 0    | 0    | 0    | 0    | 25   | ERR  |
| Europe                     |      |      |      |      |      |      |
| Total Revenue              | 0    | 0    | 0    | 0    | 6    | ERR  |
| System Shipments           | 0    | 0    | 0    | 0    | 5    | ERR  |
| Workstation Shipments      | 0    | 0    | 0    | 0    | 5    | ERR  |
| Workstation Installed Base | 0    | 0    | 0    | 0    | 5    | ERR  |
| Far East                   |      |      |      |      |      |      |
| Total Revenue              | 0    | 0    | 0    | 0    | 2    | ERR  |
| System Shipments           | 0    | 0    | 0    | 0    | 4    | ERR  |
| Workstation Shipments      | 0    | D    | 0    | 0    | 4    | ERR  |
| Workstation Installed Base | 0    | 0    | 0    | 0    | 4    | ERR  |
| Rest of World              |      |      |      |      |      |      |
| Total Revenue              | 0    | 0    | 0    | 0    | 0    | ERR  |
| System Shipments           | C    | 0    | 0    | 0    | 0    | ERR  |
| Workstation Shipments      | 0    | 0    | 0    | 0    | 0    | ERR  |
| Workstation Installed Base | 0    | 0    | 0    | 0    | 0    | ERR  |
| Standalone                 |      |      |      |      |      |      |
| Total Revenue              | 0    | 0    | 0    | 0    | 0    | ERR  |
| System Shipments           | G.   | 0    | 0    | 0    | 0    | ERR  |
| Workstation Shipments      | 0    | 0    | 0    | 0    | 0    | ERR  |
| Workstation Installed Base | 0    | 0    | 0    | 0    | 0    | ERR  |
| Host-Dependent             |      |      |      |      |      |      |
| Total Revenue              | 0    | 0    | 0    | 0    | 0    | ERR  |
| System Shipments           | 0    | 0    | 0    | 0    | 0    | ERR  |
| Workstation Shipments      | 0    | 0    | 0    | 0    | 0    | ERR  |
| Workstation Installed Base | 0    | 0    | 0    | 0    | 0    | ERR  |
| Personal Computer          |      |      |      |      |      |      |
| Total Revenue              | 0    | 0    | 0    | 0    | 20   | ERR  |
| System Shipments           | 0    | 0    | 0    | 0    | 33   | ERR  |
| Workstation Shipments      | 0    | 0    | 0    | 0    | 33   | ERR  |
| Workstation Installed Base | 0    | 0    | 0    | 0    | 33   | ERR  |
|                            |      |      |      |      |      |      |

TABLE NUMBER:

C-53

TITLE: COMPANY: Company History

Gerber Scientific APPLICATION: All Applications

UNITS:

Millions of Dollars and Actual Units

|                            | 1981 | 1982 | 1983 | 1984 | 1985 | CAGR   |
|----------------------------|------|------|------|------|------|--------|
|                            |      |      |      | ==== | ==== | ====   |
| Worldwide                  |      |      |      |      |      |        |
| Total Revenue              | 10   | 11   | 12   | 8    | 6    | - 12%  |
| System Shipments           | 125  | 138  | 134  | 89   | 64   | -16%   |
| Workstation Shipments      | 125  | 138  | 134  | 89   | 64   | -16%   |
| Workstation Installed Base | 152  | 290  | 333  | 405  | 279  | 16%    |
| North America              |      |      |      |      |      |        |
| Total Revenue              | 8    | 9    | 10   | 7    | 5    | - 13%  |
| System Shipments           | 98   | 111  | 115  | 77   | 53   | -14%   |
| Workstation Shipments      | 98   | 111  | 115  | 77   | 53   | -14%   |
| Workstation Installed Base | 98   | 209  | 314  | 375  | 239  | 25%    |
| Europe                     |      |      |      |      |      |        |
| Total Revenue              | 0    | 0    | 2    | 1    | 1    | ERR    |
| System Shipments           | 0    | 0    | 19   | 11   | 11   | ERR    |
| Workstation Shipments      | 0    | 0    | 19   | 11   | 11   | ERR    |
| Workstation Installed Base | 0    | 0    | 19   | 29   | 40   | ERR    |
| Far East                   |      |      |      |      |      |        |
| Total Revenue              | 0    | C    | 0    | 0    | 0    | ERR    |
| System Shipments           | 0    | 0    | 0    | 0    | 0    | ERR    |
| Workstation Shipments      | 0    | 0    | 0    | 0    | 0    | ERR    |
| Workstation Installed Base | 0    | 0    | 0    | 0    | 0    | ERR    |
| Rest of World              |      |      |      |      |      |        |
| Total Revenue              | 2    | 2    | 0    | 0    | 0    | -100%  |
| System Shipments           | 27   | 27   | 0    | 1    | 0    | - 100% |
| Workstation Shipments      | 27   | 27   | 0    | 1    | 0    | -100%  |
| Workstation Installed Base | 54   | 81   | 0    | 1    | 0    | - 100% |
| Standalone                 |      |      |      |      |      |        |
| Total Revenue              | 0    | 0    | 12   | 8    | 6    | ERR    |
| System Shipments           | 0    | 0    | 134  | 89   | 64   | ERR    |
| Workstation Shipments      | 0    | 0    | 134  | 89   | 64   | ERR    |
| Workstation Installed Base | 0    | 0    | 134  | 216  | 279  | ERR    |
| Host-Dependent             |      |      |      |      |      |        |
| Total Revenue              | 10   | 11   | 0    | 0    | 0    | -100%  |
| System Shipments           | 125  | 138  | 0    | 0    | 0    | -100%  |
| Workstation Shipments      | 125  | 138  | 0    | 0    | 0    | - 100% |
| Workstation Installed Base | 152  | 290  | 199  | 189  | 0    | - 100% |
| Personal Computer          |      |      |      |      |      |        |
| Total Revenue              | 0    | 0    | 0    | 0    | 0    | ERR    |
| System Shipments           | 0    | 0    | 0    | 0    | 0    | ERR    |
| Workstation Shipments      | 0    | 0    | 0    | 0    | 0    | ERR    |
| Workstation Installed Base | 0    | 0    | 0    | 0    | 0    | ERR    |
|                            |      |      |      |      |      |        |

TABLE NUMBER:

C-54

TITLE: COMPANY: Company History Gerber Scientific

APPLICATION:

PCB

UNITS:

Millions of Dollars and Actual Units

|                            | 1981 | 1982 | 1983 | 1984         | 1985 | CAGR   |
|----------------------------|------|------|------|--------------|------|--------|
|                            | ***  | ==== | ==== | 2222         | ==== | ====   |
| Worldwide                  |      |      |      |              |      |        |
| Total Revenue              | 10   | 11   | 12   | 8            | 6    | -12%   |
| System Shipments           | 125  | 138  | 134  | 89           | 64   | -16%   |
| Workstation Shipments      | 125  | 138  | 134  | 89           | 64   | -16%   |
| Workstation Installed Base | 152  | 290  | 333  | 405          | 279  | 16%    |
| North America              |      |      |      |              |      |        |
| Total Revenue              | 8    | 9    | 10   | 7            | 5    | - 13%  |
| System Shipments           | 98   | 111  | 115  | 77           | 53   | - 14%  |
| Workstation Shipments      | 98   | 111  | 115  | 77           | 53   | -14%   |
| Workstation Installed Base | 98   | 209  | 314  | 3 <b>7</b> 5 | 239  | 25%    |
| Europe                     |      |      |      |              |      |        |
| Total Revenue              | 0    | 0    | 2    | 1            | 1    | ERR    |
| System Shipments           | 0    | 0    | 19   | 11           | 11   | ERR    |
| Workstation Shipments      | 0    | 0    | 19   | 11           | 11   | ERR    |
| Workstation Installed Base | 0    | 0    | 19   | 29           | 40   | ERR    |
| Far East                   |      |      |      |              |      |        |
| Total Revenue              | 0    | 0    | 0    | 0            | 0    | ERR    |
| System Shipments           | 0    | 0    | 0    | . 0          | 0    | ERR    |
| Workstation Shipments      | 0    | 0    | 0    | 0            | 0    | ERR    |
| Workstation Installed Base | 0    | 0    | 0    | 0            | 0    | ERR    |
| Rest of World              |      |      |      |              |      |        |
| Total Revenue              | 2    | 2    | 0    | 0            | 0    | -100%  |
| System Shipments           | 27   | 27   | 0    | 1            | 0    | -100%  |
| Workstation Shipments      | 27   | 27   | 0    | 1            | 0    | -100%  |
| Workstation Installed Base | 54   | 81   | 0    | 1            | 0    | -100%  |
| Standalone .               |      |      |      |              |      |        |
| Total Revenue              | 0    | 0    | 12   | 8            | 6    | ERR    |
| System Shipments           | 0    | 0    | 134  | 89           | 64   | ERR    |
| Workstation Shipments      | 0    | 0    | 134  | 89           | 64   | ERR    |
| Workstation Installed Base | 0    | Û    | 134  | 216          | 279  | ERR    |
| Host-Dependent             |      |      |      |              |      |        |
| Total Revenue              | 10   | 11   | 0    | 0            | 0    | -100%  |
| System Shipments           | 125  | 138  | 0    | 0            | 0    | -100%  |
| Workstation Shipments      | 125  | 138  | 0    | 0            | 0    | - 100% |
| Workstation Installed Base | 152  | 290  | 199  | 189          | 0    | -100%  |
| Personal Computer          |      |      |      |              |      |        |
| Total Revenue              | 0    | 0    | 0    | 0            | 0    | ERR    |
| System Shipments           | 0    | 0    | 0    | 0            | 0    | ERR    |
| Workstation Shipments      | 0    | 0    | 0    | 0            | 0    | ERR    |
| Workstation Installed Base | 0    | 0    | 0    | 0            | 0    | ERR    |
|                            |      |      |      |              |      |        |

TABLE NUMBER:

C-55

TITLE: COMPANY: Company History

COMPANY: APPLICATION: Gerber Systems
All Applications

UNITS:

Millions of Dollars and Actual Units

|                            | 1981 | 1982 | 1983 | 1984    | 1985       | CAGR   |
|----------------------------|------|------|------|---------|------------|--------|
|                            | ==== | ==== | ==== | 2000    | ****       | EE02   |
| Worldwide                  |      |      |      |         |            |        |
| Total Revenue              | 16   | 18   | 25   | 21      | 22         | 9%     |
| System Shipments           | 37   | 42   | 111  | 200     | 194        | 51%    |
| Workstation Shipments      | 157  | 140  | 198  | 210     | 194        | 5%     |
| Workstation Installed Base | 601  | 711  | 874  | 1,042   | 426        | -8%    |
| North America              |      |      |      | • • • • |            |        |
| Total Revenue              | 16   | 18   | 21   | 14      | 15         | -1%    |
| System Shipments           | 37   | 42   | 89   | 140     | 136        | 38%    |
| Workstation Shipments      | 157  | 140  | 158  | 149     | 136        | -4%    |
| Workstation Installed Base | 601  | 711  | 834  | 942     | 302        | -16%   |
| Europe                     |      |      |      |         |            |        |
| Total Revenue              | 0    | 0    | 2    | 4       | 4          | ERR    |
| System Shipments           | 0    | 0    | 11   | 35      | 34         | ERR    |
| Workstation Shipments      | 0    | 0    | 20   | 36      | 34         | ERR    |
| Workstation Installed Base | 0    | 0    | 20   | 55      | <b>7</b> 2 | ERR    |
| Far East                   |      |      |      |         |            |        |
| Total Revenue              | 0    | 0    | 0    | 2       | 2          | ERR    |
| System Shipments           | 0    | 0    | 0    | 19      | 19         | ERR    |
| Workstation Shipments      | 0    | 0    | 0    | 19      | 19         | ERR    |
| Workstation Installed Base | 0    | 0    | 0    | 19      | 38         | ERR    |
| Rest of World              |      |      |      |         |            |        |
| Total Revenue              | 0    | 0    | 2    | 1       | 1          | ERR    |
| System Shipments           | 0    | 0    | 11   | 6       | 6          | ERR    |
| Workstation Shipments      | 0    | 0    | 20   | 6       | 6          | ERR    |
| Workstation Installed Base | 0    | 0    | 20   | 26      | 15         | ERR    |
| Standalone                 |      |      |      |         |            |        |
| Total Revenue              | 0    | 0    | 3    | 21      | 22         | ERR    |
| System Shipments           | 0    | 0    | 33   | 200     | 194        | ERR    |
| Workstation Shipments      | 0    | 0    | 33   | 200     | 194        | ERR    |
| Workstation Installed Base | 0    | 0    | 33   | 232     | 426        | ERR    |
| Host-Dependent             |      |      |      |         |            |        |
| Total Revenue              | 16   | 18   | 22   | 0       | 0          | -100%  |
| System Shipments           | 37   | 42   | 78   | 0       | 0          | -100%  |
| Workstation Shipments      | 157  | 140  | 165  | 10      | 0          | - 100% |
| Workstation Installed Base | 601  | 711  | 841  | 810     | 0          | - 100% |
| Personal Computer          |      |      |      |         |            |        |
| Total Revenue              | 0    | 0    | 0    | 0       | 0          | ERR    |
| System Shipments           | 0    | 0    | 0    | 0       | 0          | ERR    |
| Workstation Shipments      | 0    | 0    | 0    | 0       | 0          | ERR    |
| Workstation Installed Base | 0    | 0    | 0    | 0       | 0          | ERR    |
|                            |      |      |      |         |            |        |

Source: Dataquest

TABLE NUMBER:

C-56

TITLE: COMPANY: APPLICATION: Company History Gerber Systems

Mechanical

UNITS:

Millions of Dollars and Actual Units

|                            | 1981 | 1982 | 1983 | 1984  | 1985 | CAGR  |
|----------------------------|------|------|------|-------|------|-------|
|                            | 2222 | ==== | ==== | 2222  | ==== | ====  |
| Worldwide                  |      |      |      |       |      |       |
| Total Revenue              | 16   | 18   | 25   | 21    | 22   | 9%    |
| System Shipments           | 37   | 42   | 111  | 200   | 194  | 51%   |
| Workstation Shipments      | 157  | 140  | 198  | 210   | 194  | 5%    |
| Workstation Installed Base | 601  | 711  | 874  | 1,042 | 426  | -8%   |
| North America              |      |      |      |       |      |       |
| Total Revenue              | 16   | 18   | 21   | 14    | 15   | -1%   |
| System Shipments           | 37   | 42   | 89   | 140   | 136  | 38%   |
| Workstation Shipments      | 157  | 140  | 158  | 149   | 136  | -4%   |
| Workstation Installed Base | 601  | 711  | 834  | 942   | 302  | -16%  |
| Europe                     |      |      |      |       |      |       |
| Total Revenue              | 0    | 0    | 2    | 4     | 4    | ERR   |
| System Shipments           | 0    | 0    | 11   | 35    | 34   | ERR   |
| Workstation Shipments      | 0    | 0    | 20   | 36    | 34   | ERR   |
| Workstation Installed Base | 0    | 0    | 20   | 55    | 72   | ERR   |
| Far East                   |      |      |      |       |      |       |
| Total Revenue              | 8    | 0    | 0    | 2     | 2    | ERR   |
| System Shipments           | 0    | 0    | 0    | 19    | 19   | ERR   |
| Workstation Shipments      | 0    | 0    | 0    | 19    | 19   | ERR   |
| Workstation Installed Base | 0    | 0    | 0    | 19    | 38   | ERR   |
| Rest of World              |      |      |      |       |      |       |
| Total Revenue              | 0    | 0    | 2    | 1     | 1    | ERR   |
| System Shipments           | 0    | 0    | 11   | 6     | 6    | ERR   |
| Workstation Shipments      | 0    | 0    | 20   | 6     | 6    | ERR   |
| Workstation Installed Base | C    | 0    | 20   | 26    | 15   | ERR   |
| Standatone                 |      |      |      |       |      |       |
| Total Revenue              | 0    | 0    | 3    | 21    | 22   | ERR   |
| System Shipments           | . 0  | 0    | 33   | 200   | 194  | ERR   |
| Workstation Shipments      | 0    | 0    | 33   | 200   | 194  | ERR   |
| Workstation Installed Base | 0    | 0    | 33   | 232   | 426  | ERR   |
| Host-Dependent             |      |      |      |       |      |       |
| Total Revenue              | 16   | 18   | 22   | 0     | 0    | -100% |
| System Shipments           | 37   | 42   | 78   | 0     | 0    | -100% |
| Workstation Shipments      | 157  | 140  | 165  | 10    | 0    | -100% |
| Workstation Installed Base | 601  | 711  | 841  | 810   | 0    | -100% |
| Personal Computer          |      |      |      |       |      |       |
| Total Revenue              | 0    | 0    | 0    | 0     | C    | ERR   |
| System Shipments           | 0    | 0    | 0    | 0     | 6    | ERR   |
| Workstation Shipments      | 0    | 0    | 0    | 0     | 0    | ERR   |
| Workstation Installed Base | 0    | 0    | 0    | 0     | 0    | ERR   |

TABLE NUMBER:

C-57

TITLE:

Company History

COMPANY:

Graftek

APPLICATION:

All Applications

UNITS:

Millions of Dollars and Actual Units

|                            | 1981 | 1982 | 1983 | 1984 | 1985 | CAGR |  |
|----------------------------|------|------|------|------|------|------|--|
|                            | 2222 | -    | ==== | ==== | ==== | 2002 |  |
| Worldwide                  |      |      |      |      |      |      |  |
| Total Revenue              | 0    | 0    | 0    | 0    | 24   | ERR  |  |
| System Shipments           | 0    | 0    | 0    | 0    | 84   | ERR  |  |
| Workstation Shipments      | 0    | 0    | 0    | 0    | 222  | ERR  |  |
| Workstation Installed Base | 0    | 0    | 0    | 0    | 222  | ERR  |  |
| North America              |      |      |      |      |      |      |  |
| Total Revenue              | 0    | 0    | 0    | 0    | 16   | ERR  |  |
| System Shipments           | 0    | 0    | 0    | 0    | 55   | ERR  |  |
| Workstation Shipments      | 0    | 0    | 0    | 0    | 144  | ERR  |  |
| Workstation Installed Base | 0    | 0    | 0    | 0    | 144  | ERR  |  |
| Europe                     |      |      |      |      |      |      |  |
| Total Revenue              | 0    | 0    | 0    | 0    | , 6  | ERR  |  |
| System Shipments           | 0    | 0    | 0    | 0    | 23   | ERR  |  |
| Workstation Shipments      | 0    | 0    | 0    | 0    | 60   | ERR  |  |
| Workstation Installed Base | 0    | 0    | 0    | 0    | 60   | ERR  |  |
| Far East                   |      |      |      |      |      |      |  |
| Total Revenue              | 0    | 0    | 0    | 0    | 1    | ERR  |  |
| System Shipments           | 0    | 0    | 0    | 0    | 4    | ERR  |  |
| Workstation Shipments      | 0    | 0    | 0    | 0    | 11   | ERR  |  |
| Workstation Installed Base | 0    | 0    | 0    | 0    | 11   | ERR  |  |
| Rest of World              |      |      |      |      |      |      |  |
| Total Revenue              | 0    | 0    | 0    | 0    | 1    | ERR  |  |
| System Shipments           | 0    | 0    | 0    | 0    | 3    | ERR  |  |
| Workstation Shipments      | 0    | 0    | 0    | 0    | 7    | ERR  |  |
| Workstation Installed Base | 0    | 0    | 0    | 0    | 7    | ERR  |  |
| Standalone                 |      |      |      |      |      |      |  |
| Total Revenue              | 0    | 0    | 0    | 0    | 2    | ERR  |  |
| System Shipments           | 0    | 0    | 9    | 0    | 22   | ERR  |  |
| Workstation Shipments      | 0    | 0    | 0    | 0    | 22   | ERR  |  |
| Workstation Installed Base | 0    | 0    | 0    | 0    | 22   | ERR  |  |
| Host-Dependent             |      |      |      |      |      |      |  |
| Total Revenue              | 0    | 0    | 0    | 0    | 22   | ERR  |  |
| System Shipments           | 0    | 0    | 0    | 0    | 63   | ERR  |  |
| Workstation Shipments      | 0    | 0    | 0    | 0    | 200  | ERR  |  |
| Workstation Installed Base | 0    | 0    | 0    | 0    | 200  | ERR  |  |
| Personal Computer          |      |      |      |      |      |      |  |
| Total Revenue              | 0    | 0    | 0    | 0    | 0    | ERR  |  |
| System Shipments           | 0    | 0    | 0    | 0    | 0    | ERR  |  |
| Workstation Shipments      | 0    | 0    | 0    | C    | 0    | ERR  |  |
| Workstation Installed Base | 0    | 0    | 0    | 0    | 0    | ERR  |  |
|                            |      |      |      |      |      |      |  |

Source: Dataquest

TABLE NUMBER:

C-58

TITLE:

Company History

COMPANY:

Graftek

APPLICATION:

Mechanical

UNITS:

Millions of Dollars and Actual Units

|                            | 1981 | 1982 | 1983 | 1984 | 1985 | CAGR |
|----------------------------|------|------|------|------|------|------|
|                            | ==== | ==== | ==== | ==== | 2220 | E=== |
| Worldwide                  |      |      |      |      |      |      |
| Total Revenue              | 0    | 0    | 0    | 0    | 24   | ERR  |
| System Shipments           | 0    | 0    | 0    | 0    | 84   | ERR  |
| Workstation Shipments      | 0    | 0    | 0    | 0    | 222  | ERR  |
| Workstation Installed Base | 0    | 0    | 0    | 0    | 222  | ERR  |
| North America              |      |      |      |      |      |      |
| Total Revenue              | 0    | 8    | 0    | 0    | 16   | ERR  |
| System Shipments           | 0    | 0    | 0    | 0    | 55   | ERR  |
| Workstation Shipments      | 0    | 0    | 0    | 0    | 144  | ERR  |
| Workstation Installed Base | 0    | 0    | 0    | 0    | 144  | ERR  |
| Europe                     |      |      |      |      |      |      |
| Total Revenue              | 0    | 0    | 0    | 0    | 6    | ERR  |
| System Shipments           | 0    | 0    | 0    | 0    | 23   | ERR  |
| Workstation Shipments      | 0    | 0    | 0    | 0    | 60   | ERR  |
| Workstation Installed Base | 0    | 0    | 0    | 0    | 60   | ERR  |
| far East                   |      |      |      |      |      |      |
| Total Revenue              | 0    | 0    | 0,   | 0    | 1    | ERR  |
| System Shipments           | 0    | 0    | 0    | 0    | 4    | ERR  |
| Workstation Shipments      | 0    | 0    | 0    | 0    | 11   | ERR  |
| Workstation Installed Base | 0    | 0    | 0    | 0    | 11   | ERR  |
| Rest of World              |      |      |      |      |      |      |
| Total Revenue              | 0    | 0    | 0    | 0    | 1    | ERR  |
| System Shipments           | 0    | 0    | 0    | 0    | 3    | ERR  |
| Workstation Shipments      | 0    | 0    | 0    | 0    | 7    | ERR  |
| Workstation Installed Base | 0    | 0    | 0    | 0    | 7    | ERR  |
| Standalone                 |      |      |      |      |      |      |
| Total Revenue              | 0    | 0    | 0    | 0    | 2    | ERR  |
| System Shipments           | 0    | 0    | 0    | 0    | 22   | ERR  |
| Workstation Shipments      | 0    | 0    | 0    | 0    | 22   | ERR  |
| Workstation Installed Base | 0    | 0    | 0    | 0    | 22   | ERR  |
| Host-Dependent             |      |      |      |      |      |      |
| Total Revenue              | 0    | Q    | 0    | 0    | 22   | ERR  |
| System Shipments           | 0    | 0    | 0    | 0    | 63   | ERR  |
| Workstation Shipments      | 0    | 0    | 0    | 0    | 200  | ERR  |
| Workstation Installed Base | 0    | 0    | 0    | 0    | 200  | ERR  |
| Personal Computer          |      |      |      |      |      |      |
| Total Revenue              | 0    | 0    | 0    | 0    | 0    | ERR  |
| System Shipments           | 0    | 0    | 0    | 0    | 0    | ERR  |
| Workstation Shipments      | 0    | 0    | 0    | 0    | 0    | ERR  |
| Workstation Installed Base | 0    | 0    | 0    | 0    | 0    | ERR  |
|                            |      |      |      |      |      |      |

Source: Dataquest

TABLE NUMBER:

C-59

TITLE: COMPANY: Company History Holguin-CAD

APPLICATION:

All Applications

UNITS:

Millions of Dollars and Actual Units

|                            | 1981 | 1982 | 1983 | 1984 | 1985 | CAGR |
|----------------------------|------|------|------|------|------|------|
|                            | ==== | -    | ==== |      | 3222 | ==== |
| Worldwide                  |      |      |      |      |      |      |
| Total Revenue              | 0    | 0    | 0    | 0    | 50   | ERR  |
| System Shipments           | 0    | 0    | 0    | 0    | 521  | ERR  |
| Workstation Shipments      | 0    | 0    | 0    | 0    | 521  | ERR  |
| Workstation Installed Base | 0    | 0    | 0    | 0    | 0    | ERR  |
| North America              |      |      |      |      |      |      |
| Total Revenue              | 0    | 0    | 0    | 0    | 44   | ERR  |
| System Shipments           | 0    | 0    | 0    | 0    | 437  | ERR  |
| Workstation Shipments      | 0    | 0    | 0    | 0    | 437  | ERR  |
| Workstation Installed Base | 0    | 0    | 0    | 0    | 0    | ERR  |
| Europe                     |      |      |      |      |      |      |
| Total Revenue              | 0    | 0    | 0    | 0    | 3    | ERR  |
| System Shipments           | Đ    | 0    | 0    | 0    | 62   | ERR  |
| Workstation Shipments      | 0    | 0    | 0    | 0    | 62   | ERR  |
| Workstation Installed Base | 0    | 0    | 0    | 0    | 0    | ERR  |
| Far East                   |      |      |      |      |      |      |
| Total Revenue              | 0    | 0    | 0    | 0    | 2    | ERR  |
| System Shipments           | 0    | 0    | 0    | 0    | 17   | ERR  |
| Workstation Shipments      | 0    | 0    | 0    | 0    | 17   | ERR  |
| Workstation Installed Base | 0    | 0    | 0    | 0    | 0    | ERR  |
| Rest of World              |      |      |      |      |      |      |
| Total Revenue              | 0    | 0    | 0    | 0    | 1    | ERR  |
| System Shipments           | 0    | 0    | 0    | 0    | 4    | ERR  |
| Workstation Shipments      | 0    | 0    | 0    | 0    | 4    | ERR  |
| Workstation Installed Base | 0    | 0    | 0    | 0    | 0    | ERR  |
| Standalone                 |      |      |      |      |      |      |
| Total Revenue              | 0    | 0    | 0    | 0    | 50   | ERR  |
| System Shipments           | 0    | 0    | 0    | 0    | 521  | ERR  |
| Workstation Shipments      | 0    | 0    | 0    | 0    | 521  | ERR  |
| Workstation Installed Base | 0    | 0    | 0    | 0    | 0    | ERR  |
| Host-Dependent             |      |      |      |      |      |      |
| Total Revenue              | 0    | 0    | 0    | 0    | 0    | ERR  |
| System Shipments           | 0    | 0    | 0    | 0    | 0    | ERR  |
| Workstation Shipments      | 0    | 0    | 0    | 0    | 0    | ERR  |
| Workstation Installed Base | 0    | 0    | 0    | 0    | 0    | ERR  |
| Personal Computer          |      |      |      |      |      |      |
| Total Revenue              | 0    | 0    | 0    | 0    | 0    | ERR  |
| System Shipments           | 0    | 0    | 0    | 0    | 0    | ERR  |
| Workstation Shipments      | 0    | 0    | 0    | 0    | 0    | ERR  |
| Workstation Installed Base | 0    | 0    | 0    | 0    | 0    | ERR  |
|                            |      |      |      |      |      |      |

TABLE NUMBER:

C-60

TITLE: COMPANY: Company History

Holguin-CAD

APPLICATION: UNITS: Mechanical
Millions of Dollars and Actual Units

|                            | 1981 | 1982 | 1983 | 1984 | 1985 | CAGR |
|----------------------------|------|------|------|------|------|------|
|                            |      | ==== |      |      | 3232 | ==== |
| Worldwide                  |      |      |      |      |      |      |
| Total Revenue              | 0    | 0    | 0    | 0    | 13   | ERR  |
| System Shipments           | 0    | 0    | 0    | 0    | 143  | ERR  |
| Workstation Shipments      | 0    | 0    | 0    | 0    | 143  | ERR  |
| Workstation Installed Base | 0    | 0    | 0    | 0    | 0    | ERR  |
| North America              |      |      |      |      |      |      |
| Total Revenue              | 0    | 0    | 0    | 0    | 10   | ERR  |
| System Shipments           | 0    | 0    | 0    | 0    | 95   | ERR  |
| Workstation Shipments      | 0    | 0    | 0    | 0    | 95   | ERR  |
| Workstation Installed Base | 0    | 0    | 0    | 0    | 0    | ERR  |
| Europe                     |      |      |      |      |      |      |
| Total Revenue              | 0    | 0    | 0    | 0    | 2    | ERR  |
| System Shipments           | 0    | 0    | 0    | 0    | 43   | ERR  |
| Workstation Shipments      | 0    | 0    | 0    | 0    | 43   | ERR  |
| Workstation Installed Base | 0    | 0    | 0    | 0    | 0    | ERR  |
| Far East                   |      |      |      |      |      |      |
| Total Revenue              | 0    | 0    | 0    | 0    | 0    | ERR  |
| System Shipments           | 0    | 0    | 0    | 0    | 3    | ERR  |
| Workstation Shipments      | 0    | 0    | 0    | 0    | 3    | ERR  |
| Workstation Installed Base | 0    | 0    | 0    | 0    | 0    | ERR  |
| Rest of World              |      |      |      |      |      |      |
| Total Revenue              | 0    | 0    | 0    | 0    | 0    | ERR  |
| System Shipments           | 0    | 0    | 0    | 0    | 1    | ERR  |
| Workstation Shipments      | 0    | 0    | 0    | 0    | 1    | ERR  |
| Workstation Instailed Base | 0    | 0    | 0    | 0    | 0    | ERR  |
| Standalone                 |      |      |      |      |      |      |
| Total Revenue              | 0    | 0    | 0    | 0    | 13   | ERR  |
| System Shipments           | 0    | 0    | 0    | 0    | 143  | ERR  |
| Workstation Shipments      | 0    | 0    | 0    | 0    | 143  | ERR  |
| Workstation Installed Base | 0    | 0    | 0    | 0    | 0    | ERR  |
| Host-Dependent             |      |      |      |      |      |      |
| Total Revenue              | 0    | 0    | 0    | 0    | 0    | ERR  |
| System Shipments           | 0    | 0    | 0    | 0    | 0    | ERR  |
| Workstation Shipments      | 0    | 0    | 0    | 0    | 0    | ERR  |
| Workstation Installed Base | 0    | 0    | 0    | 0    | 0    | ERR  |
| Personal Computer          |      |      |      |      |      |      |
| Total Revenue              | 0    | 0    | 0    | 0    | 0    | ERR  |
| System Shipments           | _    |      | O.   | 0    | 0    | ERR  |
|                            | 0    | 0    | U    | U    | v    | EKK  |
| Workstation Shipments      | 0    | 0    | 0    | 0    | 0    | ERR  |

TABLE NUMBER:

C-61

TITLE: COMPANY: Company History Holguin-CAD

APPLICATION:

AEC

UNITS:

Millions of Dollars and Actual Units

|                            | 1981 | 1982 | 1983 | 1984 | 1985 | CAGR  |
|----------------------------|------|------|------|------|------|-------|
|                            | 4222 | ***  |      | IXER | 2352 | マルエエ  |
| Worldwide                  |      |      |      |      |      |       |
| Total Revenue              | 0    | Û    | 0    | 9    | 38   | ERR   |
| System Shipments           | 0    | 0    | 0    | 0    | 377  | ERR   |
| Workstation Shipments      | 0    | 0    | 0    | 0    | 377  | ERR   |
| Workstation Installed Base | 0    | 0    | 0    | 0    | 0    | ERR   |
| North America              |      |      |      |      |      |       |
| Total Revenue              | 0    | 0    | 0    | 0    | 35   | ERR   |
| System Shipments           | 0    | 0    | 0    | C    | 342  | ERR   |
| Workstation Shipments      | 0    | 0    | 0    | 0    | 342  | ERR   |
| Workstation Installed Base | 0    | 0    | 0    | Û    | Û    | ERR   |
| Europe                     |      |      |      |      |      |       |
| Total Revenue              | 0    | 0    | 0    | 0    | 1    | ERR   |
| System Shipments           | 0    | 0    | 0    | 0    | 19   | ERR   |
| Workstation Shipments      | 0    | 0    | 0    | 0    | 19   | ERR   |
| Workstation Installed Base | 0    | 0    | 0    | 0    | 0    | ERR   |
| Far East                   |      |      |      |      |      |       |
| Total Revenue              | 0    | 0    | 0    | O    | 2    | ERR   |
| System Shipments           | 0    | 0    | 0    | 0    | 13   | ERR   |
| Workstation Shipments      | 0    | 0    | C    | 0    | 13   | ERR   |
| Workstation Installed Base | 0    | 0    | 0    | 0    | 0    | ERR   |
| Rest of World              |      |      |      |      |      |       |
| Total Revenue              | 0    | 0    | 0    | 0    | 0    | ERR   |
| System Shipments           | 0    | 0    | 0    | 0    | 3    | ERR   |
| Workstation Shipments      | 0    | 0    | 0    | 0    | 3    | ERR   |
| Workstation Installed Base | Ð    | 0    | 0    | 0    | 0    | ERR   |
| Standalone                 |      |      |      |      |      |       |
| Total Revenue              | 0    | 0    | 0    | 0    | 38   | ERR   |
| System Shipments           | 0    | 0    | 0    | 0    | 377  | ERR   |
| Workstation Shipments      | 0    | 0    | 0    | 0    | 377  | ERR   |
| Workstation Installed Base | 0    | 0    | 0    | 0    | 0    | ERR   |
| Host-Dependent             |      |      |      |      |      |       |
| Total Revenue              | 0    | 0    | 0    | 0    | 0    | ERR   |
| System Shipments           | 0    | . 0  | 0    | 0    | 0    | ERR   |
| Workstation Shipments      | 0    | 0    | 0    | 0    | 0    | ERR   |
| Workstation Installed Base | 0    | 0    | 0    | 0    | 0    | ERR   |
| Personal Computer          |      |      |      |      |      |       |
| Total Revenue              | 0    | 0    | 0    | 0    | 0    | ERR   |
| System Shipments           | 0    | 0    | ů.   | Ö    | Ó    | ERR   |
| Workstation Shipments      | 0    | 0    | Ô    | 0    | 0    | ERR   |
| Workstation Installed Base | 0    | C    | Ó    | 0    | Ō    | ERR   |
|                            |      |      |      | -    | -    | _,,,, |

TABLE NUMBER:

C-62

TITLE: COMPANY: Company History Hewlett-Packard

APPLICATION: All Applications

UNITS:

Millions of Dollars and Actual Units

|                            | 1981 | 1982 | 1983 | 1984 | 1985        | CAGR |
|----------------------------|------|------|------|------|-------------|------|
|                            | 2322 | 2222 | ==== |      | <b>1335</b> | ==== |
| Worldwide                  |      |      |      |      |             |      |
| Total Revenue              | 0    | 0    | 0    | 0    | 90          | ERR  |
| System Shipments           | 0    | 0    | 0    | 0    | 1,447       | ERR  |
| Workstation Shipments      | 0    | 0    | 0    | 0    | 1,447       | ERR  |
| Workstation Installed Base | 0    | 0    | 0    | 0    | 1,447       | ERR  |
| North America              |      |      |      |      |             |      |
| Total Revenue              | 0    | 0    | 0    | 0    | 71          | ERR  |
| System Shipments           | 0    | 0    | 0    | 0    | 1,130       | ERR  |
| Workstation Shipments      | 0    | 0    | 0    | 0    | 1,130       | ERR  |
| Workstation Installed Base | 0    | 0    | 0    | 0    | 1,130       | ERR  |
| Europe                     |      |      |      |      |             |      |
| Total Revenue              | 0    | 0    | 0    | 0    | 9           | ERR  |
| System Shipments           | 0    | 0    | 0    | 0    | 180         | ERR  |
| Workstation Shipments      | 0    | 0    | 0    | 0    | 180         | ERR  |
| Workstation Installed Base | 0    | 0    | 0    | 0    | 180         | ERR  |
| Far East                   |      |      |      |      |             |      |
| Total Revenue              | 0    | 0    | 0    | 0    | 8           | ERR  |
| System Shipments           | 0    | 0    | 0    | 0    | 108         | ERR  |
| Workstation Shipments      | 0    | 0    | 0    | 0    | 108         | ERR  |
| Workstation Installed Base | 0    | 0    | 0    | 0    | 108         | ERR  |
| Rest of World              |      |      |      |      |             |      |
| Total Revenue              | 0    | 0    | 0    | 0    | 2           | ERR  |
| System Shipments           | 0    | 0    | 0    | 0    | 29          | ERR  |
| Workstation Shipments      | 0    | 0    | 0    | 0    | 29          | ERA  |
| Workstation Installed Base | 0    | 0    | 0    | 0    | 29          | ERR  |
| Standalone                 |      |      |      |      |             |      |
| Total Revenue              | 0    | 0    | 0    | 0    | 90          | ERR  |
| System Shipments           | 0    | 0    | 0    | 0    | 1,447       | ERR  |
| Workstation Shipments      | 0    | 0    | 0    | 0    | 1,447       | ERR  |
| Workstation Installed Base | 0    | 0    | 0    | 0    | 1,447       | ERR  |
| Host-Dependent             |      |      |      |      |             |      |
| Total Revenue              | 0    | 0    | 0    | 0    | 0           | ERR  |
| System Shipments           | 0    | 0    | 0    | 0    | 0           | ERR  |
| Workstation Shipments      | 0    | 0    | 0    | 0    | 0           | ERR  |
| Workstation Installed Base | 0    | 0    | 0    | 0    | 0           | ERR  |
| Personal Computer          |      |      |      |      |             |      |
| Total Revenue .            | 0    | 0    | 0    | 0    | 0           | ERR  |
| System Shipments           | 0    | 0    | 0    | 0    | 0           | ERR  |
| Workstation Shipments      | 0    | 0    | 0    | 0    | 0           | ERR  |
| Workstation Installed Base | 0    | 0    | 0    | 0    | Ð           | ERR  |
|                            |      |      |      |      |             |      |

Source: Dataquest

TABLE NUMBER:

C-63

TITLE: COMPANY: Company History Hewlett-Packard

APPLICATION:

Mechanical

UNITS:

Millions of Dollars and Actual Units

|                            | 1981 | 1982 | 1983 | 1984 | 1985 | CAGR |
|----------------------------|------|------|------|------|------|------|
| -                          | ***  | ==== | ==== | ==== | ==== | E225 |
| Worldwide                  |      |      |      |      |      |      |
| Total Revenue              | 0    | 0    | 0    | 0    | 50   | ERR  |
| System Shipments           | 0    | 0    | 0    | 0    | 787  | ERR  |
| Workstation Shipments      | 0    | 0    | 0    | 0    | 787  | ERR  |
| Workstation Installed Base | 0    | 0    | 0    | 0    | 787  | ERR  |
| North America              |      |      |      |      |      |      |
| Total Revenue              | 0    | 0    | 0    | 0    | 38   | ERR  |
| System Shipments           | 0    | 0    | 0    | 0    | 573  | ERR  |
| Workstation Shipments      | 0    | 0    | 0    | 0    | 573  | ERR  |
| Workstation Installed Base | 0    | 0    | 0    | 0    | 573  | ERR  |
| Europe                     |      |      |      |      |      |      |
| Total Revenue              | 0    | 0    | 0    | 0    | 7    | ERR  |
| System Shipments           | 0    | 0    | 0    | 0    | 138  | ERR  |
| Workstation Shipments      | 0    | 0    | 0    | 0    | 138  | ERR  |
| Workstation Installed Base | 0    | 0    | 0    | 0    | 138  | ERR  |
| Far East                   |      |      |      |      |      |      |
| Total Revenue              | 0    | 0    | 0    | 0    | 5    | ERR  |
| System Shipments           | 0    | 0    | 0    | 0    | 62   | ERR  |
| Workstation Shipments      | 0    | 0    | 0    | 0    | 62   | ERR  |
| Workstation Installed Base | 0    | 0    | 0    | 0    | 62   | ERR  |
| Rest of World              |      |      |      |      |      |      |
| Total Revenue              | 0    | 0    | 0    | 0    | 1    | ERR  |
| System Shipments           | 0    | 0    | 0    | 0    | 14   | ERR  |
| Workstation Shipments      | 0    | 0    | 0    | 0    | 14   | ERR  |
| Workstation Installed Base | 0    | 0    | 0    | 0    | 14   | ERR  |
| Standalone                 |      |      |      |      |      |      |
| Total Revenue              | 0    | 0    | 0    | 0    | 50   | ERR  |
| System Shipments           | 0    | 0    | 0    | 0    | 787  | ERR  |
| Workstation Shipments      | 0    | 0    | 0    | 0    | 787  | ERR  |
| Workstation Installed Base | 0    | 0    | 0    | 0    | 787  | ERR  |
| Host-Dependent             |      |      |      |      |      |      |
| Total Revenue              | 0    | 0    | 0    | 0    | 0    | ERR  |
| System Shipments           | 0    | 0    | 0    | 0    | 0    | ERR  |
| Workstation Shipments      | 0    | 0    | 0    | 0    | 0    | ERR  |
| Workstation Installed Base | 0    | 0    | 0    | 0    | 0    | ERR  |
| Personal Computer          |      |      |      |      |      |      |
| Total Revenue              | 0    | 0    | 0    | 0    | 0    | ERR  |
| System Shipments           | 0    | 0    | 0    | 0    | 0    | ERR  |
| Workstation Shipments      | 0    | 0    | 0    | 0    | 0    | ERR  |
| Workstation Installed Base | 0    | 0    | 0    | 0    | 0    | ERR  |
|                            | -    | =    | =    | -    |      |      |

TABLE NUMBER:

C-64

TITLE: COMPANY: Company History Hewlett-Packard

APPLICATION:

UNITS:

Millions of Dollars and Actual Units

|                            | 1981 | 1982 | 1983 | 1984 | 1985 | CAGR |
|----------------------------|------|------|------|------|------|------|
|                            |      | 2222 | ==== | ==== | ==== |      |
| Worldwide                  |      |      |      |      |      |      |
| Total Revenue              | 0    | 0    | 0    | Ð    | 10   | ERR  |
| System Shipments           | 0    | 0    | 0    | 0    | 161  | ERR  |
| Workstation Shipments      | Θ    | C    | 0    | 0    | 161  | ERR  |
| Workstation Installed Base | 0    | 0    | 0    | 0    | 161  | ERR  |
| North America              |      |      |      |      |      |      |
| Total Revenue              | 0    | 0    | 0    | O    | 7    | ERR  |
| System Shipments           | 0    | Ð    | 0    | 0    | 103  | ERR  |
| Workstation Shipments      | 0    | 0    | 0    | 0    | 103  | ERR  |
| Workstation Installed Base | 0    | 0    | 0    | 0    | 103  | ERR  |
| Europe                     |      |      |      |      |      |      |
| Total Revenue              | 0    | O    | 0    | 0    | 2    | ERR  |
| System Shipments           | 0    | 0    | 0    | 0    | 42   | ERR  |
| Workstation Shipments      | 0    | 0    | 0    | 0    | 42   | ERR  |
| Workstation Installed Base | 0    | 0    | 0    | 0    | 42   | ERR  |
| Far East                   |      |      |      |      |      |      |
| Total Revenue              | 0    | 0    | 0    | 0    | 1    | ERR  |
| System Shipments           | 0    | 0    | 0    | 0    | 12   | ERR  |
| Workstation Shipments      | 0    | 0    | 0    | 0    | 12   | ERR  |
| Workstation Installed Base | 0    | 0    | 0    | 0    | 12   | ERR  |
| Rest of World              |      |      |      |      |      |      |
| Total Revenue              | 0    | 0    | 0    | 0    | 0    | ERR  |
| System Shipments           | 0    | 0    | 0    | 0    | 3    | ERR  |
| Workstation Shipments      | 0    | 0    | 0    | 0    | 3    | ERR  |
| Workstation Installed Base | 0    | 0    | 0    | 0    | 3    | ERR  |
| Standalone                 |      |      |      |      |      |      |
| Total Revenue              | 0    | 0    | 0    | 0    | 10   | ERR  |
| System Shipments           | 0    | 0    | 0    | 0    | 161  | ERR  |
| Workstation Shipments      | 0    | 0    | 0    | 0    | 161  | ERR  |
| Workstation Installed Base | 0    | 0    | 0    | Đ    | 161  | ERR  |
| Host-Dependent             |      |      |      |      |      |      |
| Total Revenue              | 0    | 0    | 0    | 0    | 0    | ERR  |
| System Shipments           | 0    | 0    | 0    | 0    | 0    | ERR  |
| Workstation Shipments      | 0    | 0    | 0    | 0    | 0    | ERR  |
| Workstation Installed Base | 0    | 0    | 0    | 0    | 0    | ERR  |
| Personal Computer          |      |      |      |      |      |      |
| Total Revenue              | ,O   | 0    | 0    | 0    | 0    | ERR  |
| System Shipments           | 0,   | 0    | 0    | 0    | 0    | ERR  |
| Workstation Shipments      | 0    | 0    | 0    | 0    | 0    | ERR  |
| Workstation Installed Base | 0    | 0    | 0    | 0    | 0    | ERR  |

TABLE NUMBER:

C-65

TITLE: COMPANY: Company History

**Hewlett-Packard** 

APPLICATION:

PCB

UNITS:

Millions of Dollars and Actual Units

|                            | 1981 | 1982 | 1983 | 1984 | 1985 | CAGR |
|----------------------------|------|------|------|------|------|------|
|                            |      |      | ==== |      | ==== |      |
| Worldwide                  |      |      |      |      |      |      |
| Total Revenue              | 0    | 0    | 0    | 0    | 30   | ERR  |
| System Shipments           | 0    | 0    | 0    | 0    | 500  | ERR  |
| Workstation Shipments      | 0    | 0    | 0    | 0    | 500  | ERR  |
| Workstation Installed Base | 0    | 0    | 0    | 0    | 500  | ERR  |
| North America              |      |      |      |      |      |      |
| Total Revenue              | 0    | 0    | 0    | 0    | 27   | ERR  |
| System Shipments           | 0    | 0    | 0    | 0    | 454  | ERR  |
| Workstation Shipments      | 0    | 0    | 0    | 0    | 454  | ERR  |
| Workstation Installed Base | 0    | 0    | 0    | 0    | 454  | ERR  |
| Europe                     |      |      |      |      |      |      |
| Total Revenue              | 0    | 0    | 0    | 0    | 0    | ERR  |
| System Shipments           | 0    | 0    | 0    | 0    | 0    | ERR  |
| Workstation Shipments      | 0    | 0    | 0    | 0    | 0    | ERR  |
| Workstation Installed Base | 0    | 0    | 0    | 0    | 0    | ERR  |
| far East                   |      |      |      |      |      |      |
| Total Revenue              | 0    | 0    | 0    | 0    | 2    | ERR  |
| System Shipments           | 0    | 0    | 0    | 0    | 33   | ERR  |
| Workstation Shipments      | 0    | 0    | 0    | 0    | 33   | ERR  |
| Workstation Installed Base | 0    | 0    | Đ    | 0 -  | 33   | ERR  |
| Rest of World              |      |      |      |      |      |      |
| Total Revenue              | 0    | 0    | 0    | 0    | 1    | ERR  |
| System Shipments           | 0    | 0    | 0    | 0    | 12   | ERR  |
| Workstation Shipments      | 0    | 0    | 0    | 0    | 12   | ERR  |
| Workstation Installed Base | Ð    | 0    | 0    | 0    | 12   | ERR  |
| Standalone                 |      |      |      |      |      |      |
| Total Revenue              | 0    | 0    | 0    | 0    | 30   | ERR  |
| System Shipments           | 0    | 0    | 0    | 0    | 500  | ERR  |
| Workstation Shipments      | 0    | 0    | 0    | 0    | 500  | ERR  |
| Workstation Installed Base | 0    | 0    | 0    | 0    | 500  | ERR  |
| Host-Dependent             |      |      |      |      |      |      |
| Total Revenue              | 0    | 0    | 0    | 0    | 0    | ERR  |
| System Shipments           | 0    | 0    | 0    | 0    | 0    | ERR  |
| Workstation Shipments      | 0    | 0    | 0    | 0    | 0    | ERR  |
| Workstation Installed Base | 0    | 0    | 0    | 0    | 0    | ERR  |
| Personal Computer          |      |      |      |      |      |      |
| Total Revenue              | 0    | 0    | 0    | Ó    | 0    | ERR  |
| System Shipments           | 0    | 0    | 0    | 0    | 0    | ERR  |
| Workstation Shipments      | 0    | 0    | 0    | 0    | 0    | ERR  |
| Workstation Installed Base | 0    | 0    | 0    | 0    | 0    | ERR  |
|                            |      |      |      |      |      |      |

TABLE NUMBER:

C-66

TITLE:

Company History

COMPANY:

1BM

APPLICATION:

All Applications

UNITS:

Millions of Dollars and Actual Units

|                            | 1981  | 1982  | 1983  | 1984   | 1985   | CAGR |
|----------------------------|-------|-------|-------|--------|--------|------|
|                            | -     | 2222  | ====  | ====   | 2222   | 222X |
| <b>Worldwide</b>           |       |       |       |        |        |      |
| Total Revenue              | 170   | 311   | 474   | 700    | 870    | 50%  |
| System Shipments           | 116   | 216   | 365   | 575    | 1,285  | 82%  |
| Workstation Shipments      | 753   | 1,384 | 3,863 | 6,345  | 8,800  | 85%  |
| Workstation Installed Base | 1,066 | 2,397 | 6,135 | 12,159 | 20,480 | 109% |
| North America              |       |       |       |        |        |      |
| Total Revenue              | 92    | 156   | 241   | 435    | 473    | 51%  |
| System Shipments           | 66    | 122   | 186   | 370    | 432    | 60%  |
| Workstation Shipments      | 439   | 781   | 1,633 | 4,079  | 4,555  | 79%  |
| Workstation Installed Base | 625   | 1,375 | 2,939 | 6,858  | 11,207 | 106% |
| Europe                     |       |       |       |        |        |      |
| Total Revenue              | 0     | 0     | 81    | 91     | 198    | ERR  |
| System Shipments           | 0     | 0     | 62    | 71     | 181    | ERR  |
| Workstation Shipments      | 0     | 6     | 773   | 781    | 1,904  | ERR  |
| Workstation Installed Base | 0     | 0     | 772   | 1,508  | 3,081  | ERR  |
| Far East                   |       |       |       |        |        |      |
| Total Revenue              | 0     | 0     | 128   | 146    | 182    | ERR  |
| System Shipments           | 0     | 0     | 99    | 113    | 656    | ERR  |
| Workstation Shipments      | 0     | 0     | 1,231 | 1,251  | 2,174  | ERR  |
| Workstation Installed Base | 0     | 0     | 1,226 | 2,415  | 4,646  | ERR  |
| Rest of World              |       |       |       |        |        |      |
| Total Revenue              | 78    | 155   | 24    | 27     | 17     | -31% |
| System Shipments           | 50    | 94    | 18    | 21     | 16     | -25% |
| Workstation Shipments      | 314   | 603   | 226   | 234    | 168    | -15% |
| Workstation Installed Base | 441   | 1,022 | 1,198 | 1,378  | 1,546  | 37%  |
| Standalone                 |       |       |       |        |        |      |
| Total Revenue              | 0     | 0     | 0     | 0      | 0      | ERR  |
| System Shipments           | 0     | 0     | 0     | 0      | 0      | ERR  |
| Workstation Shipments      | 0     | 0     | 0     | 0      | 0      | ERR  |
| Workstation Installed Base | 0     | 0     | 0     | 0      | 0      | ERR  |
| Host-Dependent             |       |       |       |        |        |      |
| Total Revenue              | 170   | 311   | 474   | 700    | 862    | 50%  |
| System Shipments           | 116   | 216   | 365   | 575    | 787    | 61%  |
| Workstation Shipments      | 753   | 1,384 | 3,863 | 6,345  | 8,303  | 82%  |
| Workstation Installed Base | 1,066 | 2,397 | 6,135 | 12,159 | 19,983 | 108% |
| Personal Computer          | -     | -     | =     | -      | -      |      |
| Total Revenue              | 0     | 0     | 0     | 0      | 8      | ERR  |
| System Shipments           | 0     | 0     | 0     | 0      | 497    | ERR  |
| Workstation Shipments      | 0     | 0     | 0     | 0      | 497    | ERR  |
| Workstation Installed Base | 0     | 0     | 0     | 0      | 497    | ERR  |
|                            |       |       |       |        |        |      |

TABLE NUMBER:

C-67

TITLE:

Company History

COMPANY:

IBM

APPLICATION:

Mechanical

UNITS:

Millions of Dollars and Actual Units

|                            | 1981  | 1982  | 1983  | 1 <b>98</b> 4 | 1985   | CAGR  |
|----------------------------|-------|-------|-------|---------------|--------|-------|
|                            | ====  | ====  |       | ====          | ====   | ====  |
| Worldwide                  |       |       |       |               |        |       |
| Total Revenue              | 170   | 302   | 452   | 661           | 783    | 47%   |
| System Shipments           | 116   | 209   | 347   | 530           | 977    | 70%   |
| Workstation Shipments      | 753   | 1,346 | 3,644 | 5,898         | 7,763  | 79%   |
| Workstation Installed Base | 1,066 | 2,359 | 5,890 | 11,483        | 18,766 | 105%  |
| North America              |       |       |       |               |        |       |
| Total Revenue              | 92    | 148   | 231   | 410           | 412    | 45%   |
| System Shipments           | 66    | 116   | 177   | 340           | 376    | 55%   |
| Workstation Shipments      | 439   | 748   | 1,523 | 3,785         | 3,966  | 73%   |
| Workstation Installed Base | 625   | 1,342 | 2,801 | 6,442         | 10,215 | 101%  |
| Europe                     |       |       |       |               |        |       |
| Total Revenue              | 0     | 0     | 77    | 86            | 194    | ERR   |
| System Shipments           | 0     | 0     | 59    | 65            | 177    | ERR   |
| Workstation Shipments      | 0     | 0     | 736   | 723           | 1,866  | ERR   |
| Workstation Installed Base | 0     | 0     | 736   | 1,420         | 2,963  | ERR   |
| Far East                   |       |       |       |               |        |       |
| Total Revenue 🥆            | 0     | 0     | 122   | 139           | 162    | ERR   |
| System Shipments           | 0     | 0     | 94    | 105           | 410    | ERR   |
| Workstation Shipments      | 0     | 0     | 1,171 | 1,168         | 1,779  | ERR   |
| Workstation Installed Base | 0     | 0     | 1,170 | 2,275         | 4,090  | ERR   |
| Rest of World              |       |       |       |               |        |       |
| Total Revenue              | 78    | 154   | 23    | 26            | 16     | -33%  |
| System Shipments           | 50    | 93    | 17    | 20            | 14     | -27%  |
| Workstation Shipments      | 314   | 598   | 214   | 222           | 151    | - 17% |
| Workstation Installed Base | 441   | 1,017 | 1,183 | 1,346         | 1,497  | 36%   |
| Standalone                 |       |       |       |               |        |       |
| Total Revenue              | 0     | 0     | 0     | 0             | 0      | ERR   |
| System Shipments           | 0     | 0     | 0     | 0             | 0      | ERR   |
| Workstation Shipments      | 0     | 0     | 0     | 0             | 0      | ERR   |
| Workstation Installed Base | 0     | 0     | 0     | 0             | 0      | ERR   |
| Host-Dependent             |       |       |       |               |        |       |
| Total Revenue              | 170   | 302   | 452   | 661           | 778    | 46%   |
| System Shipments           | 116   | 209   | 347   | 530           | 711    | 57%   |
| Workstation Shipments      | 753   | 1,346 | 3,644 | 5,898         | 7,497  | 78%   |
| Workstation Installed Base | 1,066 | 2,359 | 5,890 | 11,483        | 18,500 | 104%  |
| Personal Computer          | •     | •     | ·     | •             | •      |       |
| Total Revenue              | 0     | 0     | 0     | 0             | 5      | ERR   |
| System Shipments           | 0     | 0     | 0     | 0             | 266    | ERR   |
| Workstation Shipments      | 0     | 0     | 0     | 0             | 266    | ERR   |
| Workstation Installed Base | 0     | 0     | 0     | 0             | 266    | ERR   |
|                            | -     | -     | -     | •             |        | -     |

TABLE NUMBER:

C-68

TITLE:

Company History

COMPANY:

IBM

APPLICATION:

AEC

UNITS:

Millions of Dollars and Actual Units

|                            | 1981 | 1982 | 1983 | 1984 | 1985 | CAGR |
|----------------------------|------|------|------|------|------|------|
|                            | ***  |      | ==== | ==== | ==   | 2222 |
| Worldwide                  |      |      |      |      |      |      |
| Total Revenue              | 0    | 0    | 0    | 7    | 35   | ERR  |
| System Shipments           | 0    | 0    | 0    | 7    | 260  | ERR  |
| Workstation Shipments      | 0    | 0    | 0    | 73   | 534  | ERR  |
| Workstation Installed Base | 0    | 0    | 0    | 73   | 626  | ERR  |
| North America              |      |      |      |      |      |      |
| Total Revenue              | 0    | 0    | 0    | 5    | 22   | ERR  |
| System Shipments           | 0    | 0    | 0    | 5    | 20   | ERR  |
| Workstation Shipments      | 0    | 0    | 0    | 50   | 213  | ERR  |
| Workstation Installed Base | 0    | 0    | 0    | 47   | 259  | ERR  |
| Europe                     |      |      |      |      |      |      |
| Total Revenue              | 0    | 0    | 0    | 1    | 2    | ERR  |
| System Shipments           | 0    | 0    | 0    | 1    | 2    | ERR  |
| Workstation Shipments      | 0    | 0    | 0    | 10   | 19   | ERR  |
| Workstation Installed Base | 0    | 0    | 0    | 9    | 25   | ERR  |
| Far East                   |      |      |      |      |      |      |
| Total Revenue              | O    | 0    | 0    | 1    | 10   | ERR  |
| System Shipments           | 0    | 0    | 0    | 1    | 237  | ERR  |
| Workstation Shipments      | 0    | 0    | 0    | 12   | 296  | ERR  |
| Workstation Installed Base | 0    | 0    | 0    | 14   | 333  | ERR  |
| Rest of World              |      |      |      |      |      |      |
| Total Revenue              | 0    | 0    | - 0  | 0    | 1    | ERR  |
| System Shipments           | 0    | 0    | 0    | 0    | 1    | ERR  |
| Workstation Shipments      | 0    | 0    | 0    | 1    | 7    | ERR  |
| Workstation Installed Base | 0    | 0    | 0    | 3    | 10   | ERR  |
| Standalone                 |      |      |      |      |      |      |
| Total Revenue              | 0    | 0    | 0    | 0    | 0    | ERR  |
| System Shipments           | 0    | 0    | 0    | 0    | 0    | ERR  |
| Workstation Shipments      | 0    | 0    | 0    | 0    | 0    | ERR  |
| Workstation Installed Base | 0    | 0    | 0    | 0    | 0    | ERR  |
| Host-Dependent             |      |      |      |      |      |      |
| Total Revenue              | 0    | 0    | 0    | 7    | 31   | ERR  |
| System Shipments           | Ð    | 0    | 0    | 7    | 29   | ERR  |
| Workstation Shipments      | 0    | 0    | 0    | 73   | 303  | ERR  |
| Workstation Installed Base | 0    | 0    | 0    | 73   | 395  | ERR  |
| Personal Computer          |      |      |      |      |      |      |
| Total Revenue              | 0    | 0    | 0    | 0    | 3    | ERR  |
| System Shipments           | 0    | 0    | 0    | 0    | 231  | ERR  |
| Workstation Shipments      | 0    | 0    | 0    | 0    | 231  | ERR  |
| Workstation Installed Base | 0    | 0    | 0    | 0    | 231  | ERR  |
|                            |      |      |      |      |      |      |

Source: Dataquest

TABLE NUMBER:

C-69

TITLE:

Company History

COMPANY:

IBM

APPLICATION:

Mapping

UNITS:

Millions of Dollars and Actual Units '

|                            | 1981 | 1982 | 1983 | 1984 | 1985 | CAGR |
|----------------------------|------|------|------|------|------|------|
|                            |      | **** | **** | ==== | HERE | 2222 |
| Worldwide                  |      |      |      |      |      |      |
| Total Revenue              | 0    | 3    | 5    | 7    | 26   | ERR  |
| System Shipments           | 0    | 2    | 4    | 6    | 24   | ERR  |
| Workstation Shipments      | 0    | 11   | 48   | 66   | 252  | ERR  |
| Workstation Installed Base | 0    | 11   | 56   | 116  | 366  | ERR  |
| North America              |      |      |      |      |      |      |
| Total Revenue              | 0    | 3    | 2    | 5    | 20   | ERR  |
| System Shipments           | 0    | 2    | 2    | 4    | 19   | ERR  |
| Workstation Shipments      | 0    | 11   | 24   | 43   | 197  | ERR  |
| Workstation Installed Base | 0    | 11   | 34   | 72   | 267  | ERR  |
| Europe                     |      |      |      |      |      |      |
| Total Revenue              | 0    | 0    | 1    | 1    | 0    | ERR  |
| System Shipments           | 0    | 0    | 1    | 1    | 0    | ERR  |
| Workstation Shipments      | 0    | 0    | 11   | 10   | 0    | ERR  |
| Workstation Installed Base | 0    | 0    | 8    | 15   | 15   | ERR  |
| Far East                   |      |      |      |      |      |      |
| Total Revenue              | 0    | 0    | 1    | 1    | 5    | ERR  |
| System Shipments           | 0    | 0    | 1    | 1    | 5    | ERR  |
| Workstation Shipments      | 0    | 0    | 12   | 12   | 49   | ERR  |
| Workstation Installed Base | 0    | 0    | 12   | 24   | 74   | ERR  |
| Rest of World              |      |      |      |      |      |      |
| Total Revenue              | 0    | 0    | . 0  | 0    | 1    | ERR  |
| System Shipments           | 0    | 0    | 0    | 0    | 0    | ERR  |
| Workstation Shipments      | 0    | 0    | 1    | 1    | 5    | ERR  |
| Workstation Installed Base | 0    | 0    | 2    | 5    | 10   | ERR  |
| Standalone                 |      |      |      | •    |      |      |
| Total Revenue              | 0    | 0    | 0    | 0    | 0    | ERR  |
| System Shipments           | 0    | 0    | 0    | 0    | 0    | ERR  |
| Workstation Shipments      | 0    | 0    | 0    | 0    | 0    | ERR  |
| Workstation Installed Base | 0    | 0    | 0    | 0    | 0    | ERR  |
| Host-Dependent             |      |      |      |      |      |      |
| Total Revenue              | 0    | 3    | 5    | 7    | 26   | ERR  |
| System Shipments           | 0    | 2    | 4    | 6    | 24   | ERR  |
| Workstation Shipments      | 0    | 11   | 48   | 66   | 252  | ERR  |
| Workstation Installed Base | 0    | 11   | 56   | 116  | 366  | ERR  |
| Personal Computer          |      |      |      |      |      |      |
| Total Revenue              | 0    | 0    | 0    | 0    | 0    | ERR  |
| System Shipments           | 0    | 0    | 0    | 0    | 0    | ERR  |
| Workstation Shipments      | 0    | 0    | 0    | 0    | 0    | ERR  |
| Workstation Installed Base | 0    | 0    | 0    | 0    | 0    | ERR  |
|                            |      |      |      |      |      |      |

Source: Dataquest

TABLE NUMBER:

C-70

TITLE:

Company History

COMPANY:

IBM

APPLICATION:

PCB

UNITS:

Millions of Dollars and Actual Units

|                            | 1981 | 1982 | 1983 | 1984  | 1985 | CAGR |
|----------------------------|------|------|------|-------|------|------|
|                            | E2#7 |      |      | ===== | 2=== | ==== |
| Worldwide                  |      |      |      |       |      |      |
| Total Revenue              | 0    | 6    | 17   | 25    | 26   | ERR  |
| System Shipments           | 0    | 5    | 14   | 32    | 24   | ERR  |
| Workstation Shipments      | 0    | 27   | 171  | 308   | 252  | ERR  |
| Workstation Installed Base | 0    | 27   | 189  | 487   | 723  | ERR  |
| North America              |      |      |      |       |      |      |
| Total Revenue              | 0    | 5    | 9    | 16    | 19   | ERR  |
| System Shipments           | 0    | 4    | 7    | 21    | 17   | ERR  |
| Workstation Shipments      | 0    | 22   | 86   | 201   | 178  | ERR  |
| Workstation Installed Base | 0    | 22   | 104  | 297   | 466  | ERR  |
| Europe                     |      |      |      |       |      |      |
| Total Revenue              | 0    | 0    | 3    | 3     | 2    | ERR  |
| System Shipments           | 0    | 0    | 2    | 4     | 2    | ERR  |
| Workstation Shipments      | 0    | 0    | 26   | 38    | 19   | ERR  |
| Workstation Installed Base | 0    | 0    | 28   | 64    | 78   | ERR  |
| Far East                   |      |      |      |       |      |      |
| Total Revenue              | 0    | 0    | 5    | 5     | 5    | ERR  |
| System Shipments           | 0    | 0    | 4    | 6     | 5    | ERR  |
| Workstation Shipments      | 0    | 0    | 48   | 59    | 49   | ERR  |
| Workstation Installed Base | 0    | . 0  | 44   | 102   | 150  | ERR  |
| Rest of World              |      |      |      |       |      |      |
| Total Revenue              | 0    | 1    | ·· 1 | 1     | 1    | ERR  |
| System Shipments           | 0    | 1    | 1    | 1     | 0    | ERR  |
| Workstation Shipments      | 0    | 5    | 11   | 10    | 5    | ERR  |
| Workstation Installed Base | 0    | 5    | 13   | 24    | 29   | ERR  |
| Standatone                 |      |      |      |       |      |      |
| Total Revenue              | 0    | 0    | 0    | 0     | 0    | ERR  |
| System Shipments           | 0    | 0    | 0    | 0     | 0    | ERR  |
| Workstation Shipments      | 0    | 0    | 0    | 0     | 0    | ERR  |
| Workstation Installed Base | 0    | 0    | 0    | 0     | 0    | ERR  |
| Host-Dependent             |      |      |      |       |      |      |
| Total Revenue              | . 0  | 6    | 17   | 25    | 26   | ERR  |
| System Shipments           | O    | 5    | 14   | 32    | 24   | ERR  |
| Workstation Shipments      | 0    | 27   | 171  | 308   | 252  | ERR  |
| Workstation Installed Base | 0    | 27   | 189  | 487   | 723  | ERR  |
| Personal Computer          |      |      |      |       |      |      |
| Total Revenue              | 0    | 0    | 0    | 0     | . 0  | ERR  |
| System Shipments           | 0    | 0    | 0    | 0     | 0    | ERR  |
| Workstation Shipments      | 0    | 0    | 0    | 0     | 0    | ERR  |
| Workstation Installed Base | 0    | 0    | 0    | 0     | 0    | ERR  |
|                            |      |      |      |       |      |      |

TABLE NUMBER:

C-71

TITLE: COMPANY: APPLICATION: Company History Intergraph

All Applications

UNITS:

Millions of Dollars and Actual Units

|                            | 1981  | 1982  | 1983           | 1984  | 1985   | CAGR |
|----------------------------|-------|-------|----------------|-------|--------|------|
|                            | 2222  | ====  |                | EE==  | ====   | ***  |
| <b>Worldwide</b>           |       |       |                |       |        |      |
| Total Revenue              | 73    | 127   | 250            | 404   | 526    | 64%  |
| System Shipments           | 165   | 383   | 343            | 568   | 635    | 40%  |
| Workstation Shipments      | 729   | 1,721 | 1,845          | 3,198 | 5,144  | 63%  |
| Workstation Installed Base | 1,928 | 3,553 | 5,269          | 8,208 | 13,105 | 61%  |
| North America              |       |       |                |       |        |      |
| Total Revenue              | 47    | 83    | 180            | 316   | 398    | 71%  |
| System Shipments           | 105   | 250   | 255            | 453   | 462    | 45%  |
| Workstation Shipments      | 464   | 1,124 | 1,420          | 2,550 | 3,756  | 69%  |
| Workstation Installed Base | 1,224 | 2,287 | 3,631          | 6,000 | 9,576  | 67%  |
| Europe                     |       |       |                |       |        |      |
| Total Revenue              | 15    | 26    | 38             | 77    | 91     | 58%  |
| System Shipments           | 42    | 93    | 36             | 100   | 131    | 33%  |
| Workstation Shipments      | 186   | 418   | 199            | 563   | 1,047  | 54%  |
| Workstation Installed Base | 567   | 957   | 1,115          | 1,623 | 2,621  | 47%  |
| Far East                   |       |       |                |       |        |      |
| Total Revenue              | 0     | 0     | 25             | 7     | 1      | ERR  |
| System Shipments           | 0     | 0     | 39             | 11    | 3      | ERR  |
| Workstation Shipments      | 0     | 0     | 170            | 62    | 23     | ERR  |
| Workstation Installed Base | 0     | 0     | 175            | 225   | 241    | ERR  |
| Rest of World              |       |       |                |       |        |      |
| Total Revenue              | 11    | 18    | <sup>1</sup> 7 | 4     | 36     | 34%  |
| System Shipments           | 18    | 40    | 13             | 4     | 39     | 21%  |
| Workstation Shipments      | 79    | 179   | 56             | 23    | 317    | 42%  |
| Workstation Installed Base | 137   | 309   | 348            | 360   | 667    | 49%  |
| Standalone                 |       |       |                |       |        |      |
| Total Revenue              | 0     | 0     | 0              | 0     | 0      | ERR  |
| System Shipments           | 0     | 0     | 0              | 0     | 0      | ERR  |
| Workstation Shipments      | 0     | 0     | 0              | 0     | 0      | ERR  |
| Workstation Installed Base | 0     | 0     | 0              | 0     | 0      | ERR  |
| Host-Dependent             |       |       |                |       |        |      |
| Total Revenue              | 73    | 127   | 250            | 404   | 526    | 64%  |
| System Shipments           | 165   | 383   | 343            | 568   | 635    | 40%  |
| Workstation Shipments      | 729   | 1,721 | 1,845          | 3,198 | 5,144  | 63%  |
| Workstation Installed Base | 1,928 | 3,553 | 5,269          | 8,208 | 13,105 | 61%  |
| Personal Computer          |       |       |                |       |        |      |
| Total Revenue              | 0     | 0     | 0              | 0     | 0      | ERR  |
| System Shipments           | 0     | 0     | 0              | 0     | 0      | ERR  |
| Workstation Shipments      | 0     | 0     | 0              | 0     | 0      | ERR  |
| Workstation Installed Base | 0     | 0     | 0              | 0     | 0      | ERR  |

TABLE NUMBER:

C-72

TITLE: COMPANY: APPLICATION: Company History

Intergraph Mechanical

UNITS:

Millions of Dollars and Actual Units

|                            | 1981 | 1982 | 1983 | 1984  | 1985  | CAGR |
|----------------------------|------|------|------|-------|-------|------|
|                            |      | -    | 2222 | ====  | ====  | ==== |
| Worldwide                  |      |      |      |       |       |      |
| Total Revenue              | 0    | 0    | 53   | 105   | 165   | ERR  |
| System Shipments           | 0    | 19   | 82   | 148   | 201   | ERR  |
| Workstation Shipments      | 0    | 85   | 355  | 833   | 1,627 | ERR  |
| Workstation Installed Base | 0    | 85   | 460  | 1,269 | 2,858 | ERR  |
| North America              |      |      |      |       |       |      |
| Total Revenue              | 0    | 0    | 38   | 82    | 119   | ERR  |
| System Shipments           | 0    | 16   | 58   | 118   | 138   | ERR  |
| Workstation Shipments      | 0    | 72   | 251  | 664   | 1,124 | ERR  |
| Workstation Installed Base | Û    | 72   | 337  | 983   | 2,078 | ERR  |
| Europe                     |      |      |      |       |       |      |
| Total Revenue              | 0    | 0    | 8    | 20    | 33    | ERR  |
| System Shipments           | 0    | 0    | 13   | 26    | 48    | ERR  |
| Workstation Shipments      | 0    | 0    | 56   | 146   | 381   | ERR  |
| Workstation Installed Base | 0    | 0    | 61   | 204   | 579   | ERR  |
| Far East                   |      |      |      |       |       |      |
| Total Revenue              | 0    | 0    | 5    | 2     | 1     | ERR  |
| System Shipments           | 0    | 0    | 8    | 3     | 3     | ERR  |
| Workstation Shipments      | 0    | 0    | 35   | 17    | 23    | ERR  |
| Workstation Installed Base | 0    | 0    | 38   | 51    | 72    | ERR  |
| Rest of World              |      |      |      |       |       |      |
| Total Revenue              | 0    | 0    | '2   | 1     | 11    | ERR  |
| System Shipments           | 0    | 3    | 3    | 1     | 12    | ERR  |
| Workstation Shipments      | 0    | 13   | 13   | 6     | 99    | ERR  |
| Workstation Installed Base | 0    | 13   | 24   | 31    | 129   | ERR  |
| Standalone                 |      |      |      |       |       |      |
| Total Revenue              | 0    | 0    | 0    | 0     | 0     | ERR  |
| System Shipments           | 0    | 0    | 0    | 0     | 0     | ERR  |
| Workstation Shipments      | 0    | 0    | 0    | 0     | 0     | ERR  |
| Workstation Installed Base | 0    | 0    | 0    | 0     | 0     | ERR  |
| Host-Dependent             |      |      |      |       |       |      |
| Total Revenue              | 0    | 0    | 53   | 105   | 165   | ERR  |
| System Shipments           | 0    | 19   | 82   | 148   | 201   | ERR  |
| Workstation Shipments      | 0    | 85   | 355  | 833   | 1,627 | ERR  |
| Workstation Installed Base | 0    | 85   | 460  | 1,269 | 2,858 | ERR  |
| Personal Computer          |      |      |      |       |       |      |
| Total Revenue              | 0    | 0    | 0    | 0     | 0     | ERR  |
| System Shipments           | 0    | 0    | 0    | 0     | 0     | ERR  |
| Workstation Shipments      | 0    | 0    | 0    | 0     | 0     | ERR  |
| Workstation Installed Base | 0    | 0    | 0    | 0     | 0     | ERR  |
|                            |      |      |      |       |       |      |

TABLE NUMBER:

C-73

TITLE:

Company History

COMPANY:

Intergraph

APPLICATION:

AEC

UNITS:

Millions of Dollars and Actual Units

|                            | 1981 | 1982            | 1983  | 1984  | 1985  | CAGR |
|----------------------------|------|-----------------|-------|-------|-------|------|
|                            |      |                 | 2222  |       |       | ==== |
| Worldwide                  |      |                 |       |       |       |      |
| Total Revenue              | 41   | 72              | 110   | 170   | 204   | 49%  |
| System Shipments           | 75   | 169             | 162   | 238   | 247   | 35%  |
| Workstation Shipments      | 331  | 759             | 713   | 1,341 | 2,000 | 57%  |
| Workstation Installed Base | 740  | 1,462           | 2,141 | 3,379 | 5,278 | 63%  |
| North America              |      |                 |       |       |       |      |
| Total Revenue              | 32   | 58              | 78    | 133   | 151   | 47%  |
| System Shipments           | 63   | 141             | 120   | 190   | 175   | 29%  |
| Workstation Shipments      | 278  | 634             | 519   | 1,070 | 1,422 | 50%  |
| Workstation Installed Base | 657  | 1,258           | 1,752 | 2,735 | 4,075 | 58%  |
| Europe                     |      |                 |       |       |       |      |
| Total Revenue              | 0    | 0               | 18    | 32    | 39    | ERR  |
| System Shipments           | 0    | 0               | 20    | 42    | 57    | ERR  |
| Workstation Shipments      | 0    | 0               | 98    | 237   | 455   | ERR  |
| Workstation Installed Base | 0    | 0               | 99    | 331   | 776   | ERR  |
| Far East                   |      |                 |       |       |       |      |
| Total Revenue              | 0    | 0               | 11    | 3     | 0     | ERR  |
| System Shipments           | 0    | 0               | 17    | 4     | 0     | ERR  |
| Workstation Shipments      | 0    | 0               | 74    | 23    | 0     | ERR  |
| Workstation Installed Base | 0    | 0               | 73    | 94    | 91    | ERR  |
| Rest of World              |      |                 |       |       |       |      |
| Total Revenue              | 9    | 14              | · 3   | 2     | 14    | 13%  |
| System Shipments           | 12   | 28              | 5     | 2     | 15    | 6%   |
| Workstation Shipments      | 53   | 125             | 22    | 11    | 123   | 23%  |
| Workstation Installed Base | 83   | 204             | 217   | 219   | 336   | 42%  |
| Standalone                 |      |                 |       |       |       |      |
| Total Revenue              | 0    | 0               | 0     | 0     | 0     | ERR  |
| System Shipments           | 0    | 0               | 0     | 0     | 0     | ERR  |
| Workstetion Shipments      | 0    | 0               | 0     | 0     | 0     | ERR  |
| Workstation Installed Base | 0    | 0               | 0     | 0     | 0     | ERR  |
| Host-Dependent             |      |                 |       |       |       |      |
| Total Revenue              | 41   | 72              | 110   | 170   | 204   | 49%  |
| System Shipments           | 75   | 169             | 162   | 238   | 247   | 35%  |
| Workstation Shipments      | 331  | 75 <del>9</del> | 713   | 1,341 | 2,000 | 57%  |
| Workstation Installed Base | 740  | 1,462           | 2,141 | 3,379 | 5,278 | 63%  |
| Personal Computer          |      |                 |       |       |       |      |
| Total Revenue              | 0    | 0               | C     | 0     | 0     | ERR  |
| System Shipments           | 0    | 0               | 0     | 0     | 0     | ERR  |
| Workstation Shipments      | 0    | 0               | 0     | 0     | 0     | ERR  |
| Workstation Installed Base | 0    | 0               | 0     | 0     | 0     | ERR  |
|                            |      |                 |       |       |       |      |

TABLE NUMBER:

C-74

TITLE:

Company History

COMPANY:

Intergraph Mapping

APPLICATION: UNITS:

Millions of Dollars and Actual Units

|                            | 1981  | 1982  | 1983  | 1984  | 1985  | CAGR |
|----------------------------|-------|-------|-------|-------|-------|------|
|                            | ====  | ====  | ====  | ====  | ESSE  | 2222 |
| Worldwide                  |       |       |       |       |       |      |
| Total Revenue              | 32    | 55    | 76    | 109   | 135   | 43%  |
| System Shipments           | 90    | 195   | 81    | 153   | 161   | 16%  |
| Workstation Shipments      | 398   | 877   | 699   | 862   | 1,302 | 34%  |
| Workstation Installed Base | 1,188 | 2,006 | 2,585 | 3,320 | 4,522 | 40%  |
| North America              |       |       |       |       |       |      |
| Fotal Revenue              | 15    | 26    | 54    | 85    | 108   | 65%  |
| System Shipments           | 42    | 93    | 62    | 122   | 125   | 31%  |
| Workstation Shipments      | 186   | 418   | 585   | 687   | 1,020 | 53%  |
| Workstation Installed Base | 567   | 957   | 1,472 | 2,087 | 3,044 | 52%  |
| Europe                     |       |       |       |       |       |      |
| Total Revenue              | 15    | 26    | 12    | 21    | 17    | 4%   |
| System Shipments           | 42    | 93    | 3     | 27    | 25    | -12% |
| Workstation Shipments      | 186   | 418   | 45    | 152   | 201   | 2%   |
| Workstation Installed Base | 567   | 957   | 955   | 1,060 | 1,229 | 21%  |
| Far East                   |       |       |       |       |       |      |
| Total Revenue              | 0     | 0     | 8     | 2     | 0     | ERR  |
| System Shipments           | 0     | 0     | 12    | 3     | 0     | ERR  |
| Workstation Shipments      | 0     | 0     | 52    | 17    | 0     | ERR  |
| Workstation Installed Base | 0     | 0     | 54    | 67    | 65    | ERR  |
| Rest of World              |       |       |       |       |       |      |
| Total Revenue              | 3     | 4     | ٠2    | 1     | 9     | 36%  |
| System Shipments           | 6     | 9     | 4     | 1     | 10    | 14%  |
| Workstation Shipments      | 26    | 41    | 17    | 6     | 81    | 33%  |
| Workstation Installed Base | 54    | 92    | 104   | 106   | 184   | 36%  |
| Standalone                 |       |       |       |       |       |      |
| Total Revenue              | 0     | 0     | 0     | 0     | 0     | ERR  |
| System Shipments           | 0     | 0     | 0     | 0     | 0     | ERR  |
| Workstation Shipments      | 0     | 9     | 0     | 0     | 0     | ERR  |
| Workstation Installed Base | 0     | 0     | 0     | 0     | 0     | ERR  |
| Host-Dependent             |       |       |       |       |       |      |
| Total Revenue              | 32    | 55    | 76    | 109   | 135   | 43%  |
| System Shipments           | 98    | 195   | 81    | 153   | 161   | 16%  |
| Workstation Shipments      | 398   | 877   | 699   | 862   | 1,302 | 34%  |
| Workstation Installed Base | 1,188 | 2,006 | 2,585 | 3,320 | 4,522 | 40%  |
| Personal Computer          | -     | •     | •     | •     | •     |      |
| Total Revenue              | 0     | 0     | 0     | 0     | 0     | ERR  |
| System Shipments           | ð     | 0     | 0     | 0     | 0     | ERR  |
| Workstation Shipments      | 0     | 0     | 0     | 0     | 0     | ERR  |
| Workstation Installed Base | 0     | 0     | 0     | 0     | 0     | ERR  |
|                            | -     | -     |       | _     | -     |      |

TABLE NUMBER:

C-75

TITLE:

Company History

COMPANY:

Intergraph

APPLICATION:

PCB

UNITS:

Millions of Dollars and Actual Units

|                            | 1981 | 1982 | 1983 | 1984 | 1985 | CAGR |
|----------------------------|------|------|------|------|------|------|
|                            | ==== |      | ==== |      | ==== | ==== |
| Worldwide                  |      |      |      |      |      |      |
| Total Revenue              | 0    | 0    | 12   | 20   | 23   | ERR  |
| System Shipments           | 0    | 0    | 18   | 29   | 26   | ERR  |
| Workstation Shipments      | 0    | 0    | 78   | 162  | 214  | ERR  |
| Workstation Installed Base | 0    | 0    | 83   | 240  | 447  | ERR  |
| North America              |      |      |      |      |      |      |
| Total Revenue              | 0    | 0    | 11   | 16   | 20   | ERR  |
| System Shipments           | 0    | 0    | 15   | 23   | 23   | ERR  |
| Workstation Shipments      | 0    | 0    | 65   | 129  | 190  | ERR  |
| Workstation Installed Base | 0    | 0    | 70   | 195  | 379  | ERR  |
| Europe                     |      |      |      |      |      |      |
| Total Revenue              | 0    | 0    | 0    | 4    | 1    | ERR  |
| System Shipments           | 0    | 0    | 0    | 5    | 1    | ERR  |
| Workstation Shipments      | 0    | 0    | 0    | 28   | 11   | ERR  |
| Workstation Installed Base | 0    | 0    | 0    | 28   | 38   | ERR  |
| Far East                   |      |      |      |      |      |      |
| Total Revenue              | 0    | 0    | 1    | 0    | 0    | ERR  |
| System Shipments           | 0    | 0    | 2    | 1    | 0    | ERR  |
| Workstation Shipments      | 0    | 0    | 9    | 5    | 0    | ERR  |
| Workstation Installed Base | 0    | 0    | 10   | 13   | 13   | ERR  |
| Rest of World              |      |      |      |      |      |      |
| Total Revenue              | 0    | 0    | .0   | 0    | 2    | ERR  |
| System Shipments           | 0    | 0    | 1    | 0    | 2    | ERR  |
| Workstation Shipments      | 0    | 0    | 4    | 0    | 14   | ERR  |
| Workstation Installed Base | 0    | 0    | 3    | 4    | 18   | ERR  |
| Standalone                 |      |      |      |      |      |      |
| Total Revenue              | 0    | 0    | 0    | 0    | 0    | ERR  |
| System Shipments           | 0    | 0    | 0    | 0    | 0    | ERR  |
| Workstation Shipments      | 0    | 0    | 0    | 0    | 0    | ERR  |
| Workstation Installed Base | 0    | 0    | 0    | 0    | 0    | ERR  |
| Host-Dependent             |      |      |      |      |      |      |
| Total Revenue              | 0    | 0    | 12   | 20   | 23   | ERR  |
| System Shipments           | 0    | 0    | 18   | 29   | 26   | ERR  |
| Workstation Shipments      | 0    | 0    | 78   | 162  | 214  | ERR  |
| Workstation Installed Base | 0    | 0    | 83   | 240  | 447  | ERR  |
| Personal Computer          |      |      |      |      |      |      |
| Total Revenue              | 0    | 0    | 0    | 0    | 0    | ERR  |
| System Shipments           | 0    | 0    | 0    | 0    | 0    | ERR  |
| Workstation Shipments      | 0    | 0    | 0    | 0    | 0    | ERR  |
| Workstation Installed Base | 0    | 0    | 0    | 0    | Ð    | ERR  |
|                            |      |      |      |      |      |      |

TABLE NUMBER:

APPLICATION:

C-76

TITLE: COMPANY: Company History

Matra Datavision All Applications

UNITS:

Millions of Dollars and Actual Units

|                            | 1981 | 1982 | 1983 | 1984 | 1985 | CAGR |
|----------------------------|------|------|------|------|------|------|
|                            | 222  | 2555 | ***  | ==== | ***  |      |
| <b>Vorlawide</b>           |      |      |      |      |      |      |
| Total Revenue              | C    | 0    | 0    | 0    | 36   | ERR  |
| System Shipments           | 0    | 0    | 0    | 0    | 113  | ERR  |
| Workstation Shipments      | 0    | 0    | 0    | 0    | 431  | ERR  |
| Workstation Installed Base | 0    | 0    | 0    | 0    | 431  | ERR  |
| North America              |      |      |      |      |      |      |
| Total Revenue              | 0    | 0    | 0    | 0    | 7    | ERR  |
| System Shipments           | 0    | 0    | 0    | 0    | 21   | ERR  |
| Workstation Shipments      | 0    | 0    | 0    | 0    | 81   | ERR  |
| Workstation Installed Base | 0    | 0    | 0    | 0    | 81   | ERR  |
| Europe                     |      |      |      |      |      |      |
| Total Revenue              | 0    | 0    | 0    | 0    | 28   | ERR  |
| System Shipments           | 0    | 0    | 0    | 0    | 88   | ERR  |
| Workstation Shipments      | 0    | 0    | 0    | 0    | 335  | ERR  |
| Workstation Installed Base | 0    | 0    | 0    | 0    | 335  | ERR  |
| Far East                   |      |      |      |      |      |      |
| Total Revenue              | 0    | 0    | 0    | 0    | 1    | ERR  |
| System Shipments           | 0    | 0    | 0    | 0    | 4    | ERR  |
| Workstation Shipments      | 0    | 0    | 0    | 0    | 15   | ERR  |
| Workstation Installed Base | Q    | 0    | 0    | 0    | 15   | ERR  |
| Rest of World              |      |      |      |      |      |      |
| Total Revenue              | 0    | 0    | . 0  | 0    | 0    | ERR  |
| System Shipments           | 0    | 0    | 0    | 0    | 0    | ERR  |
| Workstation Shipments      | 0    | 0    | 0    | 0    | 0    | ERR  |
| Workstation Installed Base | 0    | 0    | 0    | 0    | 0    | ERR  |
| Standatone                 |      |      |      |      |      |      |
| Total Revenue              | 0    | 0    | 0    | 0    | 0    | ERR  |
| System Shipments           | 0    | 0    | 0    | 0    | 0    | ERR  |
| Workstation Shipments      | 0    | 0    | 0    | 0    | 0    | ERR  |
| Workstation Installed Base | G    | 0    | 0    | 0    | 0    | ERR  |
| Host-Dependent             |      |      |      |      |      |      |
| Total Revenue              | 0    | 0    | 0    | 0    | 36   | ERR  |
| System Shipments           | 0    | 0    | 0    | 0    | 113  | ERR  |
| Workstation Shipments      | 0    | 0    | 0    | 0    | 431  | ERR  |
| Workstation Installed Base | 0    | 0    | 0    | 0    | 431  | ERR  |
| Personal Computer          |      |      |      |      |      |      |
| Total Revenue              | 0    | 0    | 0    | G    | 0    | ERR  |
| System Shipments           | 0    | 0    | 0    | 0    | 0    | ERR  |
| Workstation Shipments      | 0    | 0    | 0    | 0    | 0    | ERR  |
| Workstation Installed Base | 0    | 0    | 0    | 0    | 0    | ERR  |
|                            |      |      |      |      |      |      |

TABLE NUMBER:

C-77

TITLE: COMPANY: Company History Matra Datavision

APPLICATION:

Mechanical

UNITS:

Millions of Dollars and Actual Units

|                            | 1981 | 1982 | 1983 | 1984 | 1985 | CAGR |
|----------------------------|------|------|------|------|------|------|
|                            | ==== | ==== | ==== | ==== |      | ~=== |
| Worldwide                  |      |      |      |      |      |      |
| Total Revenue              | 0    | 0    | 0    | 0    | 35   | ERR  |
| System Shipments           | 0    | 0    | 0    | 0    | 111  | ERR  |
| Workstation Shipments      | 0    | 0    | 0    | 0    | 423  | ERR  |
| Workstation Installed Base | 0    | 0    | 0    | 0    | 423  | ERR  |
| North America              |      |      |      |      |      |      |
| Total Revenue              | 0    | 0    | 0    | 0    | 6    | ERR  |
| System Shipments           | 0    | 0    | 0    | 0    | 19   | ERR  |
| Workstation Shipments      | 0    | 0    | 0    | 0    | 73   | ERR  |
| Workstation Installed Base | 0    | 0    | 0    | 0    | 73   | ERR  |
| Europe                     |      |      |      |      |      |      |
| Total Revenue              | 0    | 0    | 0    | 0    | 28   | ERR  |
| System Shipments           | 0    | 0    | 0    | 0    | 88   | ERR  |
| Workstation Shipments      | 0    | 0    | 0    | 0    | 335  | ERR  |
| Workstation Installed Base | 0    | Θ    | 0    | 0    | 335  | ERR  |
| Far East                   |      |      |      |      |      |      |
| Total Revenue              | 0    | 0    | 0    | 0    | 1    | ERR  |
| System Shipments           | 0    | 0    | 0    | 0    | 4    | ERR  |
| Workstation Shipments      | 0    | 0    | 0    | 0    | 15   | €RR  |
| Workstation Installed Base | 0    | 0    | 0    | 0    | 15   | ERR  |
| Rest of World              |      |      |      |      |      |      |
| Total Revenue              | 0    | 0    | 0    | 0    | 0    | ERR  |
| System Shipments           | 0    | 0    | 0    | 0    | 0    | ERR  |
| Workstation Shipments      | 0    | 0    | 0    | 0    | 0    | ERR  |
| Workstation Installed Base | 0    | 0    | 0    | 0    | 0    | ERR  |
| Standal one                |      |      |      |      |      |      |
| Total Revenue              | 0    | 0    | 0    | 0    | 0    | ERR  |
| System Shipments           | 0    | 0    | 0    | 0    | 0    | ERR  |
| Workstation Shipments      | 0    | 0    | 0    | 0    | 0    | ERR  |
| Workstation Installed Base | 0    | 0    | 0    | 0    | 0    | ERR  |
| Host-Dependent             |      |      |      |      |      |      |
| Total Revenue              | 0    | 0    | 0    | 0    | 35   | ERR  |
| System Shipments           | 0    | 0    | 0    | 0    | 111  | ERR  |
| Workstation Shipments      | 0    | 0    | 0    | 0    | 423  | ERR  |
| Workstation Installed Base | 0    | 0    | 0    | 0    | 423  | ERR  |
| Personal Computer          |      |      |      |      |      |      |
| Total Revenue              | 0    | 0    | 0    | 0    | 0    | ERR  |
| System Shipments           | 0    | 0    | 0    | 0    | 0    | ERR  |
| Workstation Shipments      | 0    | 0    | 0    | 0    | 0    | ERR  |
| Workstation Installed Base | 0    | 0    | 0    | 0    | 0    | ERR  |

Source: Dataquest

TABLE NUMBER:

C-78

TITLE: COMPANY: Company History Matra Datavision

APPLICATION:

AEC

UNITS:

Millions of Dollars and Actual Units

|                            | 1981 | 1982 | 1983 | 1984 | 1985 | CAGR |
|----------------------------|------|------|------|------|------|------|
|                            | ==== | ==== | ==== | ==== | 3232 | ==30 |
| Worldwide                  |      |      |      |      |      |      |
| Total Revenue              | 0    | 0    | 0    | 0    | 1    | ERR  |
| System Shipments           | 0    | 0    | 0    | 0    | 2    | ERR  |
| Workstation Shipments      | 0    | 0    | 0    | 0    | 8    | ERR  |
| Workstation Installed Base | 0    | 0    | 0    | 0    | 8    | ERR  |
| North America              |      |      |      |      |      |      |
| Total Revenue              | 0    | 0    | 0    | 0    | 1    | ERR  |
| System Shipments           | 0    | 0    | 0    | 0    | 2    | ERR  |
| Workstation Shipments      | 0    | 0    | 0    | 0    | 7    | ERR  |
| Workstation Installed Base | 0    | 0    | 0    | 0    | 7    | ERR  |
| Europe                     |      |      |      |      |      |      |
| Total Revenue              | 0    | 0    | 0    | 0    | 0    | ERR  |
| System Shipments           | 0    | 0    | 0    | 0    | 0    | ERR  |
| Workstation Shipments      | 0    | 0    | 0    | 0    | 1    | ERR  |
| Workstation Installed Base | 0    | 0    | 0    | 0    | 1    | ERR  |
| Far East                   |      |      |      |      |      |      |
| Total Revenue              | 0    | 0    | 0    | 0    | 0    | ERR  |
| System Shipments           | 0    | 0    | 0    | 0    | 0    | ERR  |
| Workstation Shipments      | 0    | 0    | 0    | 0    | 0    | ERR  |
| Workstation Installed Base | 0    | 0    | 0    | 0    | 0    | ERR  |
| Rest of World              |      |      |      |      |      |      |
| Total Revenue              | 0    | 0    | . 0  | 0    | 0    | ERR  |
| System Shipments           | 0    | 0    | 0    | 0    | 0    | ERR  |
| Workstation Shipments      | 0    | 0    | 0    | 0    | 0    | ERR  |
| Workstation Installed Base | 0    | 0    | 0    | 0    | 0    | ERR  |
| Standelone                 |      |      |      |      |      |      |
| Total Revenue              | . 0  | 0    | 0    | 0    | 0    | ERR  |
| System Shipments           | 0    | 0    | 0    | 0    | 0    | ERR  |
| Workstation Shipments      | 0    | Ð    | 0    | 0    | 0    | ERR  |
| Workstation Installed Base | 0    | 0    | 0    | 0    | 0    | ERR  |
| Host-Dependent             |      |      |      |      |      |      |
| Total Revenue              | 0    | 0    | 0    | 0    | 1    | ERR  |
| System Shipments           | θ    | 0    | 0    | 0    | 2    | ERR  |
| Workstation Shipments      | 0    | 0    | 0    | 0    | 8    | ERR  |
| Workstation Installed Base | 0    | 0    | 0    | 0    | 8    | ERR  |
| Personal Computer          |      |      |      |      |      |      |
| Total Revenue              | 0    | 0    | 0    | 0    | 0    | ERR  |
| System Shipments           | 0    | Ŏ    | 0    | Ö    | ō    | ERR  |
| Workstation Shipments      | Ŏ    | Ŏ    | Û    | Ō    | 0    | ERR  |
| Workstation Installed Base | Ŏ    | Õ    | Ô    | 0    | 0    | ERR  |
|                            | •    | •    | •    | •    | •    |      |

TABLE NUMBER:

C-79

TITLE:

Company History

COMPANY:

McAuto

APPLICATION:

All Applications

UNITS:

Millions of Dollars and Actual Units

|                            | 1981 | 1982 | 1983  | 1984  | 1985  | CAGR |
|----------------------------|------|------|-------|-------|-------|------|
|                            | ==== | ==== | ====  | ====  |       | ==== |
| Worldwide                  |      |      |       |       |       |      |
| Total Revenue              | 23   | 37   | 70    | 129   | 166   | 64%  |
| System Shipments           | 61   | 54   | 123   | 233   | 367   | 57%  |
| Workstation Shipments      | 183  | 256  | 562   | 1,212 | 2,470 | 92%  |
| Workstation Installed Base | 285  | 527  | 1,063 | 2,111 | 4,447 | 99%  |
| North America              |      |      | •     | •     | •     |      |
| Total Revenue              | 23   | 37   | 49    | 112   | 131   | 55%  |
| System Shipments           | 61   | 54   | 86    | 202   | 299   | 49%  |
| Workstation Shipments      | 183  | 256  | 392   | 915   | 2.094 | 84%  |
| Workstation Installed Base | 285  | 527  | 894   | 1,805 | 3,777 | 91%  |
| Europe                     |      |      |       | •     | •     |      |
| Total Revenue              | 0    | 0    | 21    | 14    | 24    | ERR  |
| System Shipments           | 0    | 0    | 37    | 24    | 44    | ERR  |
| Workstation Shipments      | 0    | 0    | 170   | 111   | 208   | ERR  |
| Workstation Installed Base | 0    | 0    | 169   | 276   | 484   | ERR  |
| far East                   |      |      |       |       |       |      |
| Total Revenue              | 0    | 0    | 0     | 2     | 11    | ERR  |
| System Shipments           | 0    | 0    | 0     | 5     | 24    | ERR  |
| Workstation Shipments      | 0    | 0    | 0     | 178   | 168   | ERR  |
| Workstation Installed Base | 0    | 0    | 0     | 19    | 186   | ERR  |
| Rest of World              |      |      |       |       |       |      |
| Total Revenue              | 0    | 0    | . 0   | 1     | 0     | ERR  |
| System Shipments           | 0    | 0    | 0     | 2     | 0     | ERR  |
| Workstation Shipments      | 0    | 0    | 0     | 8     | 0     | ERR  |
| Workstation Installed Base | 0    | 0    | 0     | 11    | 0     | ERR  |
| Standalone '               |      |      |       |       |       |      |
| Total Revenue              | 0    | 0    | 0     | 9     | 0     | ERR  |
| System Shipments           | 0    | 0    | 0     | 81    | 22    | ERR  |
| Workstation Shipments      | 0    | 0    | 0     | 238   | 22    | ERR  |
| Workstation Installed Base | 0    | 0    | 0     | 79    | 29    | ERR  |
| Host-Dependent             |      |      |       |       |       |      |
| Total Revenue              | 23   | 37   | 70    | 120   | 166   | 64%  |
| System Shipments           | 61   | 54   | 123   | 152   | 346   | 54%  |
| Workstation Shipments      | 183  | 256  | 562   | 974   | 2,449 | 91%  |
| Workstation Installed Base | 285  | 527  | 1,063 | 2,032 | 4,418 | 98%  |
| Personal Computer          |      |      |       |       |       |      |
| Total Revenue              | 0    | 0    | 0     | 0     | 0     | ERR  |
| System Shipments           | 0    | 0    | 0     | 0     | 0     | ERR  |
| Workstation Shipments      | 0    | 0    | 0     | 0     | 0     | ERR  |
| Workstation Installed Base | 0    | 0    | 0     | 0     | 0     | ERR  |
|                            |      |      |       |       |       |      |

Source: Dataquest

TABLE NUMBER:

C-80

TITLE:

Company History

COMPANY:

McAuto

APPLICATION:

Mechanical

UNITS:

Millions of Dollars and Actual Units

|                            | 1981 | 1982 | 1983  | 1984  | 1985  | CAGR |
|----------------------------|------|------|-------|-------|-------|------|
|                            | ==== | 4455 | ====  | 2222  | ====  | ==== |
| Worldwide                  |      |      |       |       |       |      |
| Total Revenue              | 23   | 37   | 65    | 107   | 136   | 56%  |
| System Shipments           | 61   | 54   | 114   | 120   | 304   | 49%  |
| Workstation Shipments      | 183  | 256  | 521   | 791   | 2.022 | 82%  |
| Workstation Installed Base | 285  | 527  | 1,024 | 1,813 | 3,780 | 91%  |
| North America              |      |      | •     | •     | •     |      |
| Total Revenue              | 23   | 37   | 46    | 92    | 107   | 47%  |
| System Shipments           | 61   | 54   | 80    | 104   | 243   | 41%  |
| Workstation Shipments      | 183  | 256  | 365   | 685   | 1,704 | 75%  |
| Workstation Installed Base | 285  | 527  | 867   | 1,551 | 3,208 | 83%  |
| Europe                     |      |      |       |       | _     |      |
| Total Revenue              | G    | 0    | 19    | 12    | 20    | ERR  |
| System Shipments           | 0    | 0    | 34    | 13    | 41    | ERR  |
| Workstation Shipments      | 0    | 0    | 156   | 85    | 180   | ERR  |
| Workstation Installed Base | 0    | 0    | 157   | 238   | 418   | ERR  |
| far East                   |      |      |       |       |       |      |
| Total Revenue              | G    | 0    | 0     | 2     | 9     | ERR  |
| System Shipments           | 0    | 0    | 0     | 2     | 20    | ERR  |
| Workstation Shipments      | 0    | 0    | 0     | 14    | 138   | ERR  |
| Workstation Installed Base | 0    | 0    | 0     | 16    | 153   | ERR  |
| Rest of World              |      |      |       |       |       |      |
| Total Revenue              | 0    | 0    | 0     | 1     | 0     | ERR  |
| System Shipments           | 0    | 0    | 0     | 1     | 0     | ERR  |
| Workstation Shipments      | 0    | 0    | 0     | 7     | 0     | ERR  |
| Workstation Installed Base | 0    | 0    | 0     | 8     | 0     | ERR  |
| Standalone                 |      |      |       |       |       |      |
| Total Revenue              | 0    | 0    | 0     | 0     | 0     | ERR  |
| System Shipments           | 0    | 0    | 0     | 0     | 22    | ERR  |
| Workstation Shipments      | 0    | 0    | 0     | 0     | 22    | ERR  |
| Workstation Installed Base | 0    | 0    | 0     | 0     | 22    | ERR  |
| Host-Dependent             |      |      |       |       |       |      |
| Totał Revenue              | 23   | 37   | 65    | 107   | 136   | 56%  |
| System Shipments           | 61   | 54   | 114   | 120   | 282   | 47%  |
| Workstation Shipments      | 183  | 256  | 521   | 791   | 2,000 | 82%  |
| Workstation Installed Base | 285  | 527  | 1,024 | 1,813 | 3,758 | 91%  |
| Personal Computer          |      |      |       |       |       |      |
| Total Revenue              | 0    | 0    | 0     | 0     | 0     | ERR  |
| System Shipments           | 0    | 0    | 0     | 0     | 0     | ERR  |
| Workstation Shipments      | 0    | 0    | 0     | 0     | 0     | ERR  |
| Workstation Installed Base | 0    | 0    | 0     | 0     | 0     | ERR  |
|                            |      |      |       |       |       |      |

Source: Dataquest

TABLE NUMBER:

C-81

TITLE:

Company History

COMPANY:

McAuto

APPLICATION:

AEC

UNITS:

Millions of Dollars and Actual Units

|                            | 1981 | 1982 | 1983 | 1984 | 1985 | CAGR |
|----------------------------|------|------|------|------|------|------|
|                            | ==== | ==== | ***  |      | ESSE |      |
| <b>Worldwide</b>           |      |      |      |      |      |      |
| Total Revenue              | 0    | 0    | 5    | 20   | 30   | ERR  |
| System Shipments           | 0    | 0    | 9    | 110  | 63   | ERR  |
| Workstation Shipments      | 0    | 0    | 41   | 406  | 449  | ERR  |
| Workstation Installed Base | 0    | 0    | 39   | 284  | 655  | ERR  |
| North America              |      |      |      |      |      |      |
| Total Revenue              | 0    | 0    | 4    | 18   | 25   | ERR  |
| System Shipments           | 0    | 0    | 6    | 95   | 56   | ERR  |
| Workstation Shipments      | 0    | 0    | 27   | 216  | 390  | ERR  |
| Workstation Installed Base | 0    | 0    | 27   | 241  | 557  | ERR  |
| Europ <del>e</del>         |      |      |      |      |      |      |
| Total Revenue              | 0    | 0    | 1    | 2    | 4    | ERR  |
| System Shipments           | 0    | 0    | 3    | 11   | 3    | ERR  |
| Workstation Shipments      | 0    | 0    | 14   | 25   | 28   | ERR  |
| Workstation Installed Base | 0    | 0    | 12   | 37   | 65   | ERR  |
| Far East                   |      |      |      |      |      |      |
| Total Revenue              | 0    | 0    | 0    | 0    | 2    | ERR  |
| System Shipments           | 0    | 0    | 0    | 3    | 4    | ERR  |
| Workstation Shipments      | 0    | 0    | 0    | 164  | 30   | ERR  |
| Workstation Installed Base | 0    | 0    | 0    | 3    | 33   | ERR  |
| Rest of World              |      |      |      |      |      |      |
| Total Revenue              | 0    | 0    | 0    | 0    | 0    | ERR  |
| System Shipments           | 0    | 0    | 0    | 1    | 0    | ERR  |
| Workstation Shipments      | 0    | 0    | 0    | 1    | 0    | ERR  |
| Workstation Installed Base | 0    | 0    | 0    | 3    | 0    | ERR  |
| Standalone                 |      |      |      |      |      |      |
| Total Revenue              | 0    | O    | 0    | 9    | 0    | ERR  |
| System Shipments           | 0    | 0    | 0    | 80   | 0    | ERR  |
| Workstation Shipments      | 0    | 0    | 0    | 237  | 0    | ERR  |
| Workstation Installed Base | 0    | 0    | 0    | 78   | 8    | ERR  |
| Host-Dependent             |      |      |      |      |      |      |
| Total Revenue              | 0    | 0    | 5    | 11   | 30   | ERR  |
| System Shipments           | 0    | 0    | 9    | 30   | 63   | ERR  |
| Workstation Shipments      | 0    | 0    | 41   | 169  | 449  | ERR  |
| Workstation Installed Base | 0    | 0    | 39   | 206  | 647  | ERR  |
| Personal Computer          |      |      |      |      |      |      |
| Total Revenue              | 0    | 0    | 0    | 0    | 0    | ERR  |
| System Shipments           | 0    | 0    | 0    | 0    | 0    | ERR  |
| Workstation Shipments      | 0    | 0    | 0    | 0    | 0    | ERR  |
| Workstation Installed Base | 0    | 0    | 0    | 0    | 0    | ERR  |
|                            |      |      |      |      |      |      |

TABLE NUMBER:

C-82

TITLE:

Company History

COMPANY: APPLICATION: McAuto PCB

UNITS:

Millions of Dollars and Actual Units

|                            | 1981 | 1982 | 1983 | 1984 | 1985 | CAGR |
|----------------------------|------|------|------|------|------|------|
|                            | 2222 | ==== |      | 2002 | zrz  | E2E2 |
| Wortdwide                  |      |      |      |      |      |      |
| Total Revenue              | 0    | 0    | 0    | 2    | 0    | ERR  |
| System Shipments           | 0    | 0    | 0    | 3    | 0    | ERR  |
| Workstation Shipments      | 0    | 0    | 0    | 15   | 0    | ERR  |
| Workstation Installed Base | 0    | 0    | 0    | 14   | 13   | ERR  |
| North America              |      |      |      |      |      |      |
| Total Revenue              | 0    | 0    | 0    | 2    | 0    | ERR  |
| System Shipments           | 0    | 0    | 0    | 3    | 0    | ERR  |
| Workstation Shipments      | 0    | 0    | 0    | 14   | 0    | ERR  |
| Workstation Installed Base | 0    | 0    | 0    | 13   | 12   | ERR  |
| Europe                     |      |      |      |      |      |      |
| Total Revenue              | 0    | 0    | 0    | 0    | 0    | ERR  |
| System Shipments           | 0    | 0    | 0    | 0    | 0    | ERR  |
| Workstation Shipments      | 0    | 0.   | 0    | 1    | 0    | ERR  |
| Workstation Installed Base | 0    | 0    | 0    | 1    | 1    | ERR  |
| Far East                   |      |      |      |      |      |      |
| Total Revenue              | 0    | 0    | 0    | 0    | 0    | ERR  |
| System Shipments           | 0    | 0    | 0    | 0    | 0    | ERR  |
| Workstation Shipments      | 0    | 0    | 0    | 0    | 0    | ERR  |
| Workstation Installed Base | 0    | 0    | 0    | 0    | 0    | ERR  |
| Rest of World              |      |      |      |      |      |      |
| Total Revenue              | 0    | 0    | 0    | 0    | 0    | ERR  |
| System Shipments           | 0    | 0    | 0    | 0    | 0    | ERR  |
| Workstation Shipments      | 0    | 0    | 0    | 0    | 0    | ERR  |
| Workstation Installed Base | 0    | 0    | 0    | 0    | 0    | ERR  |
| Standalone                 |      |      |      |      |      |      |
| Total Revenue              | 0    | 0    | 0    | 0    | 0    | ERR  |
| System Shipments           | 0    | 0    | 0    | 1    | 0    | ERR  |
| Workstation Shipments      | 0    | 0    | 0    | 1    | 0    | ERR  |
| Workstation Installed Base | 0    | 0    | 0    | 1    | 0    | ERR  |
| Host-Dependent             |      |      |      |      |      |      |
| Total Revenue              | 0    | Đ    | 0    | 2    | 0    | ERR  |
| System Shipments           | 0    | ð    | 0    | 2    | 0    | ERR  |
| Workstation Shipments      | 0    | 0    | 0    | 14   | 0    | ERR  |
| Workstation Installed Base | 0    | 0    | 0    | 13   | 13   | ERR  |
| Personal Computer          |      |      |      |      |      |      |
| Total Revenue              | 0    | 0    | 0    | 0    | 0    | ERR  |
| System Shipments           | 0    | 0    | 0    | 0    | 0    | ERR  |
| Workstation Shipments      | 0    | 0    | 0    | 0    | 0    | ERR  |
| Workstation Installed Base | 0    | 0    | 0    | 0    | 0    | ERR  |
|                            |      |      |      |      |      |      |

TABLE NUMBER:

C-83

TITLE:

Company History MacNeal Schwendler

COMPANY: APPLICATION:

All Applications

UNITS:

Millions of Dollars and Actual Units

| Vorldwide   Total Revenue   0  |                            | 1981 | 1982 | 1983 | 1984 | 1985 | CAGR |
|--|----------------------------|------|------|------|------|------|------|
| Total Revenue  |                            | -    | ***  | HEES | 6223 | 8325 | ==== |
| System Shipments   | Worldwide                  |      |      |      |      |      |      |
| Workstation Shipments         0         0         0         0         0           Workstation Installed Base         0         0         0         0         0           Norkstation Installed Base         0         0         0         0         0           System Shipments         0         0         0         0         0           Workstation Installed Base         0         0         0         0         0           Workstation Shipments         0         0         0         0         0         0           Workstation Installed Base         0         0         0         0         0         0         0           Far East         Total Revenue         0  | Total Revenue              | 0    | 0    | 0    | 0    | 21   |      |
| Morkstation Installed Base   | System Shipments           | 0    | 0    | 0    | 0    | 0    |      |
| North America   Total Revenue  | Workstation Shipments      | 0    | 0    | 0    | 0    | 0    |      |
| Total Revenue 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0  | Workstation Installed Base | 0    | 0    | 0    | 0    | 0    |      |
| System Shipments         0         0         0         0         0           Workstation Shipments         0         0         0         0         0           Europe         Total Revenue         0         0         0         0         0         0           Total Revenue         0         0         0         0         0         0         0           Workstation Shipments         0         0         0         0         0         0         0           Workstation Installed Base         0<  | North America              |      |      |      |      |      |      |
| Workstation Shipments         0         0         0         0         0           Burope         Total Revenue         0         0         0         0         0         0           Total Revenue         0 <t< td=""><td>Total Revenue</td><td>0</td><td>0</td><td>0</td><td>8</td><td>17</td><td></td></t<> | Total Revenue              | 0    | 0    | 0    | 8    | 17   |      |
| Workstation Installed Base   | System Shipments           | 0    | 0    | 0    | 0    | 0    |      |
| Europe Total Revenue   | Workstation Shipments      | 0    | 0    | 0    | 0    | 0    |      |
| Total Revenue  | Workstation Installed Base | 0    | 0    | 0    | 0    | 0    |      |
| System Shipments         0         0         0         0         0           Workstation Shipments         0         0         0         0         0           Far East         Total Revenue         0         0         0         0         0           System Shipments         0         0         0         0         0         0           Workstation Shipments         0         0         0         0         0         0           Workstation Shipments         0         0         0         0         0         0         0           System Shipments         0  | Europe                     |      |      |      |      |      |      |
| Workstation Shipments         0  | Total Revenue              | 0    | 0    | 0    | 0    | 3    |      |
| Workstation Installed Base   | System Shipments           | 0    | 0    | 0    | 0    | 0    |      |
| Far East  Total Revenue  | Workstation Shipments      | Ō    | 0    | 0    | 0    | 0    |      |
| Total Revenue  | Workstation Installed Base | 0    | 0    | 0    | 0    | 0    |      |
| System Shipments         0         0         0         0         0           Workstation Installed Base         0         0         0         0         0           Rest of World         Total Revenue         0         0         0         0         0         0           System Shipments         0         0         0         0         0         0         0           Workstation Shipments         0   | Far East                   |      |      |      |      |      |      |
| Workstation Shipments         0         0         0         0         0           Workstation Installed Base         0         0         0         0         0           Rest of World         Total Revenue         0         0         0         0         0           Total Revenue         0         0         0         0         0         0           Workstation Installed Base         0         0         0         0         0           System Shipments         0         0         0         0         0           Workstation Shipments         0         0         0         0         0           Workstation Installed Base         0         0         0         0         0         0           Horkstation Shipments         0         0         0         0         0         0         0           Personal Computer         Total Revenue         0  | Total Revenue              | 0    | 0    | 0    | 0    | 1    |      |
| Workstation Installed Base         0         0         0         0         0           Rest of World         Total Revenue         0         0         0         0         0           Total Revenue         0         0         0         0         0         0           Workstation Shipments         0         0         0         0         0         0           System Shipments         0         0         0         0         0         0         0           Workstation Shipments         0         0         0         0         0         0         0           Host-Dependent         Total Revenue         0         0         0         0         0         0         0           Workstation Shipments         0   | System Shipments           | 0    | 0    | 0    | 0    | 0    |      |
| Rest of World         0         <  | Workstation Shipments      | 0    | 0    | 0    | 0    | 0    |      |
| Total Revenue         0         0         0         0         0           System Shipments         0         0         0         0         0           Workstation Shipments         0         0         0         0         0           Workstation Entailed Base         0         0         0         0         0           Workstation Installed Base         0         0         0         0         0           Host-Dependent         0         0         0         0         0         0           Horkstation Shipments         0         0         0         0         0         0           Workstation Installed Base         0         0         0         0         0         0           Personal Computer         0         0         0         0         0         0         0           System Shipments         0         0         0         0         0         0         0           Workstation Installed Base         0         0         0         0         0         0           Workstation Installed Base         0         0         0         0         0         0           Workstation Installed   | Workstation Installed Base | 0    | 0    | 0    | 0    | 0    |      |
| System Shipments         0         0         0         0         0           Workstation Shipments         0         0         0         0         0           Workstation Installed Base         0         0         0         0         5           System Shipments         0         0         0         0         0         0           Workstation Shipments         0         0         0         0         0         0           Workstation Installed Base         0         0         0         0         0         0           Workstation Shipments         0         0         0         0         0         0           Personal Computer         0         0         0         0         0         0           System Shipments         0         0         0         0         0         0           Workstation Shipments         0         0         0         0         0         0           Workstation Shipments         0         0         0         0         0         0   | Rest of World              |      |      |      |      |      |      |
| Workstation Shipments         0         0         0         0         0           Workstation Installed Base         0         0         0         0         0           Standalone         0         0         0         0         5           Total Revenue         0         0         0         0         0           System Shipments         0         0         0         0         0           Workstation Installed Base         0         0         0         0         0           Workstation Shipments         0         0         0         0         0           Workstation Installed Base         0         0         0         0         0           Personal Computer         0         0         0         0         0         0           Total Revenue         0         0         0         0         0         0           System Shipments         0         0         0         0         0           Workstation Shipments         0         0         0         0         0  | Total Revenue              | 0    | 0    | 0    | 0    | 0    |      |
| Workstation Installed Base         0         0         0         0         0           Standalone         Total Revenue         0         0         0         0         5           System Shipments         0         0         0         0         0         0           Workstation Shipments         0         0         0         0         0         0           Workstation Installed Base         0         0         0         0         0         0           Workstation Installed Base         0         0         0         0         0         0           Personal Computer         Total Revenue         0         0         0         0         0         0           System Shipments         0         0         0         0         0         0         0           Workstation Shipments         0         0         0         0         0         0           Workstation Shipments         0         0         0         0         0         0  | System Shipments           | 0    | 0    | 0    | 0    | 0    |      |
| Standalone         Total Revenue         0         0         0         0         5           System Shipments         0         0         0         0         0         0           Workstation Shipments         0         0         0         0         0           Workstation Installed Base         0         0         0         0         15           System Shipments         0         0         0         0         0           Workstation Shipments         0         0         0         0         0           Personal Computer         Total Revenue         0         0         0         0         0           System Shipments         0         0         0         0         0         0           Workstation Shipments         0         0         0         0         0         0  | Workstation Shipments      | 0    | 0    | 0    | 0    | 0    |      |
| Total Revenue         0         0         0         0         5           System Shipments         0         0         0         0         0         0           Workstation Shipments         0         0         0         0         0         0           Host-Dependent         Total Revenue         0         0         0         0         0         15           System Shipments         0         0         0         0         0         0         0           Workstation Installed Base         0         0         0         0         0         0           Personal Computer         Total Revenue         0         0         0         0         0         0           System Shipments         0         0         0         0         0         0         0           Workstation Shipments         0         0         0         0         0         0         0  | Workstation Installed Base | 0    | 0    | 0    | 0    | 0    |      |
| System Shipments         0         0         0         0         0           Workstation Shipments         0         0         0         0         0           Workstation Installed Base         0         0         0         0         0           Host-Dependent         0         0         0         0         0         0           Total Revenue         0         0         0         0         0         0         0           Workstation Installed Base         0         0         0         0         0         0         0           Personal Computer         Total Revenue         0         0         0         0         0         0           System Shipments         0         0         0         0         0         0           Workstation Shipments         0         0         0         0         0         0   | Standalone                 |      |      |      |      |      |      |
| Workstation Shipments         0         0         0         0         0           Workstation Installed Base         0         0         0         0         0           Host-Dependent         Total Revenue         0         0         0         0         15           System Shipments         0         0         0         0         0         0           Workstation Shipments         0         0         0         0         0           Personal Computer         Total Revenue         0         0         0         0         0           System Shipments         0         0         0         0         0         0           Workstation Shipments         0         0         0         0         0         0   | Total Revenue              | 0    | 0    | 0    | 0    | 5    |      |
| Workstation Installed Base         0         0         0         0         0           Host-Dependent         Total Revenue         0         0         0         0         15           System Shipments         0         0         0         0         0         0           Workstation Shipments         0         0         0         0         0         0           Personal Computer         Total Revenue         0         0         0         0         1           System Shipments         0         0         0         0         0         0           Workstation Shipments         0         0         0         0         0         0   | System Shipments           | 0    | 0    | 0    | 0    | 0    |      |
| Host-Dependent         0         0         0         0         15           System Shipments         0         0         0         0         0           Workstation Shipments         0         0         0         0         0           Workstation Installed Base         0         0         0         0         0           Personal Computer         0         0         0         0         1           Total Revenue         0         0         0         0         0           System Shipments         0         0         0         0         0           Workstation Shipments         0         0         0         0         0   | Workstation Shipments      | 0    | 0    | 0    | 0    | 0    |      |
| Total Revenue         0         0         0         0         15           System Shipments         0         0         0         0         0         0           Workstation Shipments         0         0         0         0         0         0           Personal Computer         Total Revenue         0         0         0         0         1           System Shipments         0         0         0         0         0         0           Workstation Shipments         0         0         0         0         0         0   | Workstation Installed Base | 0    | 0    | 0    | 0    | 0    |      |
| System Shipments         0         0         0         0         0           Workstation Shipments         0         0         0         0         0         0           Workstation Installed Base         0         0         0         0         0         0           Personal Computer         Total Revenue         0         0         0         0         1           System Shipments         0         0         0         0         0         0           Workstation Shipments         0         0         0         0         0         0   | Host-Dependent             |      |      |      |      |      |      |
| Workstation Shipments         0         0         0         0         0           Workstation Installed Base         0         0         0         0         0           Personal Computer         Total Revenue         0         0         0         0         1           System Shipments         0         0         0         0         0         0           Workstation Shipments         0         0         0         0         0         0  | Total Revenue              | 0    | 0    | 0    | 0    | 15   |      |
| Workstation Installed Base         0         0         0         0         0           Personal Computer         Total Revenue         0         0         0         0         1           System Shipments         0         0         0         0         0         0           Workstation Shipments         0         0         0         0         0         0  | System Shipments           | 0    | 0    | 0    | 0    | 0    |      |
| Personal Computer           Total Revenue         0         0         0         0         1           System Shipments         0         0         0         0         0         0           Workstation Shipments         0         0         0         0         0         0   | Workstation Shipments      | 0    | 0    | 0    | 0    | 0    |      |
| Total Revenue         0         0         0         0         1           System Shipments         0         0         0         0         0           Workstation Shipments         0         0         0         0         0   | Workstation Installed Base | 0    | 0    | 0    | 0    | 0    |      |
| System Shipments 0 0 0 0 0 0 Workstation Shipments 0 0 0 0 0   | Personal Computer          |      |      |      |      |      |      |
| Workstation Shipments 0 0 0 0 0  | Total Revenue              | 0    | 0    | 0    | 0    | 1    |      |
|  | •                          | 0    | 0    | 0    | 0    | 0    |      |
| Workstation Installed Base 0 0 0 0   | Workstation Shipments      | 0    | 0    | 0    | 0    | 0    |      |
|  | Workstation Installed Base | 0    | 0    | 0    | 0    | 0    |      |

Source: Dataquest

TABLE NUMBER:

C-84

TITLE:

Company History MacNeal Schwendler

COMPANY: APPLICATION:

Mechanical

UNITS:

Millions of Dollars and Actual Units

|                            | 1981 | 1982 | 1983 | 1984 | 1985 | CAGR |
|----------------------------|------|------|------|------|------|------|
|                            | 2203 |      |      |      | ==== |      |
| Worldwide                  |      |      |      |      |      |      |
| Total Revenue              | 0    | 0    | 0    | 0    | 20   | ERR  |
| System Shipments           | 0    | 0    | 0    | 0    | C    | ERR  |
| Workstation Shipments      | 0    | 0    | 0    | 0    | 0    | ERR  |
| Workstation Installed Base | 0    | 0    | 0    | 0    | 0    | ERR  |
| North America              |      |      |      |      |      |      |
| Total Revenue              | 0    | 0    | 0    | 0    | 16   | ERR  |
| System Shipments           | 0    | 0    | 0    | 0    | 0    | ERR  |
| Workstation Shipments      | 0    | 0    | 0    | 0    | 0    | ERR  |
| Workstation Installed Base | 0    | 0    | 0    | 0    | 0    | ERR  |
| Europe                     |      |      |      |      |      |      |
| Total Revenue              | 0    | 0    | 0    | 0    | 3    | ERR  |
| System Shipments           | 0    | 0    | 0    | 0    | 0    | ERR  |
| Workstation Shipments      | 0    | 0    | 0    | 0    | 0    | ERR  |
| Workstation Installed Base | 0    | 0    | 0    | 0    | 0    | ERR  |
| far East                   |      |      |      |      |      |      |
| Total Revenue              | 0    | 0    | 0    | 0    | 1    | ERR  |
| System Shipments           | 0    | 0    | 0    | 0    | 0    | ERR  |
| Workstation Shipments      | 0    | 0    | 0    | 0    | 0    | ERR  |
| Workstation Installed Base | 0    | 0    | 0    | 0    | 0    | ERR  |
| Rest of World              |      |      |      |      |      |      |
| Total Revenue              | 0    | 0    | 0    | 0    | 0    | ERR  |
| System Shipments           | 0    | 0    | 0    | 0    | 0    | ERR  |
| Workstation Shipments      | 0    | 9    | 0    | 0    | 0    | ERR  |
| Workstation Installed Base | 0    | 0    | 0    | 0    | Û    | ERR  |
| Standalone                 |      |      |      |      |      |      |
| Total Revenue              | 0    | 0    | 0    | 0    | 5    | ERR  |
| System Shipments           | 0    | 0    | 0    | 0    | 0    | ERR  |
| Workstation Shipments      | 0    | 0    | 0    | 0    | 0    | ERR  |
| Workstation Installed Base | G    | 0    | 0    | 0    | 0    | ERR  |
| Host-Dependent             |      |      |      |      |      |      |
| Total Revenue              | 0    | 0    | 0    | 0    | 14   | ERR  |
| System Shipments           | Ð    | 0    | 0    | 0    | 0    | ERR  |
| Workstation Shipments      | 0    | C    | 0    | G    | 0    | ERR  |
| Workstation Installed Base | 0    | 0    | 0    | C    | 0    | ERR  |
| Personal Computer          |      |      |      |      |      |      |
| Total Revenue              | 0    | 0    | C    | 0    | 1    | ERR  |
| System Shipments           | ó    | 0    | a    | 0    | 0    | ERR  |
| Workstation Shipments      | Ô    | Ŏ    | ů.   | ō    | ė    | ERR  |
| Workstation Installed Base | 6    | Ŏ    | Ů    | n    | Ô    | ERR  |
| WALKSTON INDIBITED DESC    | , 0  | v    | v    | v    | u    | EKK  |

Source: Dataquest

TABLE NUMBER:

C-85

TITLE: COMPANY: Company History MacNeal Schwendler

APPLICATION:

AFC

UNITS:

Millions of Dollars and Actual Units

|                            | 1981 | 1982 | 1983 | 1984 | 1985 | CAGR |
|----------------------------|------|------|------|------|------|------|
|                            | ==== |      | ==== |      | 2228 | 2262 |
| Worldwide                  |      |      |      |      |      |      |
| Total Revenue              | 0    | 0    | 0    | 0    | 1    | ERR  |
| System Shipments           | 0    | 0    | 0    | 0    | 0    | ERR  |
| Workstation Shipments      | 0    | 0    | 0    | 0    | 0    | ERR  |
| Workstation Installed Base | 0    | 0    | 0    | 0    | 0    | ERR  |
| North America              |      |      |      |      |      |      |
| Total Revenue              | 0    | 0    | 0    | 0    | 1    | ERR  |
| System Shipments           | 0    | 0    | 0    | 0    | 0    | ERR  |
| Workstation Shipments      | 0    | 0    | 0    | 0    | 0    | ERR  |
| Workstation Installed Base | 0    | 0    | 0    | 0    | 0    | ERR  |
| Europe                     |      |      |      |      |      |      |
| Total Revenue              | 0    | 0    | 0    | 0    | 0    | ERR  |
| System Shipments           | 0    | 0    | 0    | 0    | 0    | ERR  |
| Workstation Shipments      | 0    | 0    | 0    | 0    | 0    | ERR  |
| Workstation Installed Base | 0    | 0    | 0    | 0    | 0    | ERR  |
| Far East                   |      |      |      |      |      |      |
| Total Revenue              | 0    | 0    | 0    | 0    | 0    | ERR  |
| System Shipments           | 0    | 0    | 0    | 0    | 0    | ERR  |
| Workstation Shipments      | 0    | 0    | 0    | 0    | 0    | ERR  |
| Workstation Installed Base | 0    | 0    | 0    | 0    | 0    | ERR  |
| Rest of World              |      |      |      |      |      |      |
| Total Revenue              | 0    | 0    | 0    | 0    | 0    | ERR  |
| System Shipments           | 0    | 0    | 0    | 0    | 0    | ERR  |
| Workstation Shipments      | 0    | 0    | 0    | 0    | 0    | ERR  |
| Workstation Installed Base | 0    | 0    | 0    | 0    | 0    | ERR  |
| Standalone                 |      |      |      |      |      |      |
| Total Revenue              | 0    | 0    | 0    | 0    | 0    | ERR  |
| System Shipments           | 0    | 0    | 0    | 0    | 0    | ERR  |
| Workstation Shipments      | 0    | 0    | 0    | 0    | 0    | ERR  |
| Workstation Installed Base | 0    | 0    | 0    | 0    | 0    | ERR  |
| Host-Dependent             |      |      |      |      |      |      |
| Total Revenue              | 0    | 0    | 0    | 0    | 1    | ERR  |
| System Shipments           | 0    | 0    | 0    | 0    | 0    | ERR  |
| Workstation Shipments      | 0    | 0    | 0    | 0    | 0    | ERR  |
| Workstation Installed Base | 0    | 0    | 0    | 0    | 0    | ERR  |
| Personal Computer          |      |      |      |      |      |      |
| Total Revenue              | 0    | 0    | 0    | 0    | 0    | ERR  |
| System Shipments           | 0    | 0    | 0    | 0    | 0    | ERR  |
| Workstation Shipments      | 0    | 0    | 0    | 0    | 0    | ERR  |
| Workstation Installed Base | 0    | 0    | 0    | 0    | 0    | ERR  |
|                            | -    | -    | -    | •    | -    |      |

TABLE NUMBER:

C-86

TITLE:

Company History

COMPANY:

Mentor

APPLICATION:

All Applications

UNITS:

Millions of Dollars and Actual Units

|  | 1004 | 4000     | 4007 | 100/  | 1985  | CACD |
|--|------|----------|------|-------|-------|------|
|  | 1981 | 1982     | 1983 | 1984  | 1707  | CAGR |
| Worldwide                              | 1322 | ====     | ==== |       |       |      |
| Total Revenue                          | 0    | 2        | 26   | 88    | 137   | ERR  |
|  | 0    | 35       | 462  | 1,347 | 1,382 | ERR  |
| System Shipments Workstation Shipments | 0    | 35       | 462  | 1,347 | 1,382 | ERR  |
| Workstation Installed Base             | 0    | 35       | 495  | 1,819 | 3,112 | ERR  |
| North America                          | U    | 3)       | 477  | 1,017 | 3,112 | ERR  |
| Total Revenue                          | 0    | 2        | 22   | 69    | 86    | ERR  |
| System Shipments                       | 0    | 35       | 393  | 1,053 | 879   | ERR  |
| Workstation Shipments                  | 0    | 35<br>35 | 393  | 1,053 | 879   | ERR  |
| Workstation Installed Base             | 0    | 35       | 426  | 1,459 | 2,263 | ERR  |
| Europe                                 | Ū    | 33       | 420  | 1,427 | 2,203 | EKK  |
| Total Revenue                          | 0    | 0        | 4    | 9     | 30    | ERR  |
| System Shipments                       | 0    | 0        | 69   | 123   | 271   | ERR  |
| Workstation Shipments                  | 0    | 0        | 69   | 123   | 271   | ERR  |
| Workstation Installed Base             | 0    | 0        | 69   | 189   | 460   | ERR  |
| Far East                               | U    | U        | 07   | 107   | 400   | ERR  |
| Total Revenue                          | 0    | 0        | 0    | 9     | 21    | ERR  |
| System Shipments                       | 0    | 0        | ů    | 157   | 233   | ERR  |
| Workstation Shipments                  | 0    | 0        | 0    | 157   | 233   | ERR  |
| Workstation Installed Base             | 0    | 0        | 0    | 157   | 390   | ERR  |
| Rest of World                          | ٧    | v        | U    | 131   | 370   | EKK  |
| Total Revenue                          | 0    | 0        | 0    | 1     | 0     | ERR  |
| System Shipments                       | 0    | Û        | 6    | 14    | 0     | FRR  |
| Workstation Shipments                  | 0    | 0        | 0    | 14    | 0     | ERR  |
| Workstation Installed Base             | 0    | ů        | 0    | 14    | 0     | ERR  |
| Standalone                             | U    | v        | U    | 14    | U     | EKK  |
| Total Revenue                          | o    | 0        | 26   | 88    | 137   | ERR  |
| System Shipments                       | 0    | ٥        | 462  | 1.347 | 1,382 | ERR  |
| Workstation Shipments                  | 0    | 0        | 462  | 1,347 | 1,382 | ERR  |
| Workstation Installed Base             | 0    | ů        | 462  | 1,787 | •     | ERR  |
| Host-Dependent                         | v    | v        | 404  | 1,101 | 3,112 | EKK  |
| Total Revenue                          | 0    | 2        | 0    | 0     | 0     | ERR  |
| System Shipments                       | 0    | 35       | 0    | 0     | 0     | ERR  |
| Workstation Shipments                  | 0    | 35       | Ô    | 0     | 0     | ERR  |
| Workstation Installed Base             | 0    | 35       | 33   | 32    | o     | ERR  |
| Personal Computer                      | Ů    | 30       | 33   | 32    | v     | EKK  |
| Total Revenue                          | 0    | 0        | 0    | 0     | 0     | ERR  |
| System Shipments                       | 0    | 0        | 0    | 0     | 0     | ERR  |
| Workstation Shipments                  | 0    | 0        | 0    | 0     | 0     | ERR  |
| Workstation installed Base             | 0    | 0        | 0    | 0     | 0     | ERR  |
| HALVOTOCIONI INSTALTED DESC            | Ü    | v        | U    | U     | v     | ERK  |

Source: Dataquest

TABLE NUMBER:

C-87

TITLE:

Company History

COMPANY:

Mentor

APPLICATION:

EDA

UNITS:

Millions of Dollars and Actual Units

|                            | 1981 | 1982       | 1983 | 1984  | 1985  | CAGR |
|----------------------------|------|------------|------|-------|-------|------|
|                            | ==== | -          | 2252 | ====  | ====  |      |
| Worldwide                  |      |            |      |       |       |      |
| Total Revenue              | 0    | 2          | 26   | 86    | 127   | ERR  |
| System Shipments           | 0    | 35         | 462  | 1,329 | 1,276 | ERR  |
| Workstation Shipments      | 0    | 35         | 462  | 1,329 | 1,276 | ERR  |
| Workstation Installed Base | 0    | 35         | 495  | 1,801 | 2,988 | ERR  |
| North America              |      |            |      |       |       |      |
| Total Revenue              | 0    | 2          | 22   | 67    | 83    | ERR  |
| System Shipments           | 0    | 35         | 393  | 1,039 | 860   | ERR  |
| Workstation Shipments      | 0    | <b>3</b> 5 | 393  | 1,039 | 860   | ERR  |
| Workstation Installed Base | 0    | 35         | 426  | 1,445 | 2,231 | ERR  |
| Europe                     |      |            |      |       |       |      |
| Total Revenue              | 0    | 0          | 4    | 9     | 25    | ERR  |
| System Shipments           | 0    | 0          | 69   | 121   | 222   | ERR  |
| Workstation Shipments      | 0    | 0          | 69   | 121   | 222   | ERR  |
| Workstation Installed Base | 0    | 0          | 69   | 187   | 409   | ERR  |
| far East                   |      |            |      |       |       |      |
| Total Revenue              | 0    | 0          | 0    | 9     | 19    | ERR  |
| System Shipments           | 0    | 0          | 0    | 155   | 194   | ERR  |
| Workstation Shipments      | 0    | 0          | 0    | 155   | 194   | ERR  |
| Workstation Installed Base | 0    | 0          | 0    | 155   | 349   | ERR  |
| Rest of World              |      |            |      |       |       |      |
| Total Revenue              | 0    | 0          | 0    | 1     | 0     | ERR  |
| System Shipments           | 0    | 0          | 0    | 14    | 0     | ERR  |
| Workstation Shipments      | 0    | 0          | 0    | 14    | 0     | ERR  |
| Workstation Installed Base | 0    | 0          | 0    | 14    | 0     | ERR  |
| Standalone                 |      |            |      |       |       |      |
| Total Revenue              | 0    | 0          | 26   | 86    | 127   | ERR  |
| System Shipments           | 0    | 0          | 462  | 1,329 | 1,276 | ERR  |
| Workstation Shipments      | 0    | 0          | 462  | 1,329 | 1,276 | ERR  |
| Workstation Installed Base | 0    | 0          | 462  | 1,769 | 2,988 | ERR  |
| Host-Dependent             |      |            |      |       |       |      |
| Total Revenue              | 0    | 2          | 0    | 0     | 0     | ERR  |
| System Shipments           | 0    | 35         | 0    | 0     | 0     | ERR  |
| Workstation Shipments      | 0    | 35         | 0    | 0     | 0     | ERR  |
| Workstation Installed Base | 0    | 35         | 33   | 32    | 0     | ERR  |
| Personal Computer          |      |            |      |       |       |      |
| Total Revenue              | 0    | 0          | 0    | 0     | 0     | ERR  |
| System Shipments           | 0    | 0          | 0    | 0     | 0     | ERR  |
| Workstation Shipments      | 0    | 0          | 0    | 0     | 0     | ERR  |
| Workstation Installed Base | 0    | 0          | 0    | 0     | 0     | ERR  |
|                            |      |            |      |       |       |      |

TABLE NUMBER:

C-88

TITLE:

Company History

COMPANY:

Mentor

APPLICATION:

IC

UNITS:

Millions of Dollars and Actual Units

|                            | 1981 | 1982 | 1983 | 1984 | 1985 | CAGR |
|----------------------------|------|------|------|------|------|------|
|                            | ==== | ==== | EEE2 | ==== | 2322 | ==== |
| Worldwide                  |      |      |      |      |      |      |
| Total Revenue              | 0    | 0    | 0    | 2    | 10   | ERR  |
| System Shipments           | 0    | 0    | 0    | 18   | 106  | ERR  |
| Workstation Shipments      | 0    | 0    | 0    | 18   | 106  | ERR  |
| Workstation Installed Base | 0    | 0    | 0    | 18   | 124  | ERR  |
| North America              |      |      |      |      |      |      |
| Total Revenue              | 0    | 0    | 0    | 2    | 3    | ERR  |
| System Shipments           | 0    | 0    | 0    | 14   | 19   | ERR  |
| Workstation Shipments      | 0    | 0    | 0    | 14   | 19   | ERR  |
| Workstation Installed Base | 0    | 0    | 0    | 14   | 32   | ERR  |
| Europe                     |      |      |      |      |      |      |
| Total Revenue              | Ò    | 0    | 0    | 0    | 5    | ERR  |
| System Shipments           | 0    | 0    | 0    | 2    | 49   | ERR  |
| Workstation Shipments      | 0    | 0    | 0    | 2    | 49   | ERR  |
| Workstation Installed Base | 0    | 0    | 0    | 2    | 51   | ERR  |
| far East                   |      |      |      |      |      |      |
| Total Revenue              | 0    | 0    | 0    | 0    | 2    | ERR  |
| System Shipments           | 0    | 0    | 0    | 2    | 39   | ERR  |
| Workstation Shipments      | 0    | 0    | 0    | 2    | 39   | ERR  |
| Workstation Installed Base | 0    | 0    | 0    | 2    | 41   | ERR  |
| Rest of World              |      |      |      |      |      |      |
| Total Revenue              | 0    | 0    | 0    | 0    | 0    | ERR  |
| System Shipments           | 0    | 0    | 0    | 0    | 0    | ERR  |
| Workstation Shipments      | 0    | 0    | 0    | 0    | 0    | ERR  |
| Workstation Installed Base | 0    | 0    | 0    | 0    | 0    | ERR  |
| Standalone                 |      |      |      |      |      |      |
| Total Revenue              | 0    | 0    | 0    | 2    | 10   | ERR  |
| System Shipments           | 0    | 0    | 0    | 18   | 106  | ERR  |
| Workstation Shipments      | 0    | 0    | 0    | 18   | 106  | ERR  |
| Workstation Installed Base | 0    | 0    | 0    | 18   | 124  | ERR  |
| Host-Dependent             |      |      |      |      |      |      |
| Total Revenue              | 0    | 0    | 0    | 0    | 0    | ERR  |
| System Shipments           | 0    | 0    | 0    | 0    | 0    | ERR  |
| Workstation Shipments      | 0    | 0    | 0    | 0    | 0    | ERR  |
| Workstation Installed Base | 0    | 0    | 0    | 0    | 0    | ERR  |
| Personal Computer          |      |      |      |      |      |      |
| Total Revenue              | 0    | 0    | 0    | 0    | 0    | ERR  |
| System Shipments           | 0    | 0    | 0    | 0    | 0    | ERR  |
| Workstation Shipments      | 0    | 0    | 0    | 0    | 0    | ERR  |
| Workstation Installed Base | Đ    | 0    | 0    | 0    | 0    | ERR  |
|                            |      |      |      |      |      |      |

TABLE NUMBER:

C-89

TITLE:

Company History

COMPANY:

Prime

APPLICATION:

All Applications

UNITS:

Millions of Dollars and Actual Units

|                               | 1981 | 1982 | 1983  | 1984  | 1985  | CAGR |                |
|-------------------------------|------|------|-------|-------|-------|------|----------------|
|                               | ==== | ==== | ====  | ====  | ====  | ZE== |                |
| Worldwide                     |      |      |       |       |       |      |                |
| Total Revenue                 | 18   | 51   | 79    | 105   | 140   | 67%  |                |
| System Shipments              | 37   | 89   | 189   | 252   | 346   | 75%  |                |
| Workstation Shipments         | 88   | 320  | 714   | 974   | 1,227 | 93%  |                |
| Workstation Installed Base    | 104  | 416  | 1,105 | 2,014 | 3,149 | 135% |                |
| North America                 |      |      |       |       |       |      | 73.6           |
| Total Revenue ·               | 14   | 38   | 47    | 64    | 103   | 65%  | . 77           |
| System Shipments              | 32   | 73   | 109   | 159   | 266   | 70%  |                |
| Workstation Shipments         | 81   | 261  | 421   | 614   | 937   | 84%  |                |
| Workstation Installed Base    | 97   | 350  | 756   | 1,332 | 2,209 | 118% | ı.             |
| Europe                        |      |      |       |       |       |      | 10.            |
| Total Revenue                 | 0    | 0    | 23    | 30    | 28    | ERR  | $   \sqrt{o} $ |
| System Shipments              | 0    | 0    | 56    | 69    | 56    | ERR  |                |
| Workstation Shipments         | 0    | 0    | 203   | 267   | 207   | ERR  |                |
| Workstation Installed Base    | 0    | 0    | 202   | 453   | 637   | ERR  |                |
| Far East                      |      |      |       |       |       |      | _              |
| Total Revenue                 | 0    | 0    | 7     | 9     | 7     | ERR  | 5              |
| System Shipments              | 0    | 0    | 18    | 19    | 17    | ERR  |                |
| Workstation Shipments         | 0    | 0    | 66    | 74    | 59    | ERR  |                |
| Workstation Installed Base    | 0    | 0    | 63    | 131   | 185   | ERR  |                |
| Rest of World                 |      |      |       |       |       |      |                |
| Total Revenue                 | 4    | 13   | 2     | 1     | 3     | -8%  | 2              |
| System Shipments              | 5    | 16   | 6     | 5     | 7     | 8%   |                |
| Workstation Shipments         | 7    | 59   | 24    | 19    | 24    | 36%  |                |
| Workstation Installed Base    | 7    | 66   | 84    | 98    | 118   | 103% |                |
| Standalone                    |      |      |       |       |       |      |                |
| Total Revenue                 | 0    | 0    | 4     | 0     | 0     | ERR  |                |
| System Shipments              | 0    | 0    | 41    | 0     | 0     | ERR  |                |
| Workstation Shipments         | 0    | 0    | 41    | 0     | 0     | ERR  |                |
| Workstation Installed Base    | 0    | 0    | 41    | 33    | 0     | ERR  |                |
| Host-Dependent                |      |      |       |       |       |      |                |
| Total Revenue                 | 18   | 51   | 75    | 105   | 140   | 67%  |                |
| System Shipments              | 37   | 89   | 148   | 252   | 346   | 75%  |                |
| Workstation Shipments         | 88   | 320  | 673   | 974   | 1,227 | 93%  |                |
| Workstation Installed Base    | 104  | 416  | 1,064 | 1,981 | 3,149 | 135% |                |
| Personal Computer             |      |      |       |       | -     |      |                |
| Total Revenue                 | 0    | 0    | 0     | 0     | 0     | ERR  |                |
| System Shipments              | Ō    | Ö    | 0     | 0     | 0     | ERR  |                |
| Workstation Shipments         | Ö    | 0    | 0     | 0     | 0     | ERR  |                |
| Workstation Installed Base    | 0    | ō    | Ŏ     | Ō     | 0     | ERR  |                |
| aring sarior stression before | •    | •    | •     | •     | -     |      |                |

Source: Dataquest

TABLE NUMBER:

C-90

TITLE:

Company History

COMPANY: APPLICATION: Prime Mechanical

UNITS:

Millions of Dollars and Actual Units

|                            | 1981 | 1982 | 1983 | 1984  | 1985  | CAGR |
|----------------------------|------|------|------|-------|-------|------|
|                            |      |      |      |       |       | **** |
| Worldwide                  |      |      |      |       |       |      |
| Total Revenue              | 13   | 38   | 45   | 63    | 112   | 71%  |
| System Shipments           | 29   | 70   | 108  | 150   | 275   | 76%  |
| Workstation Shipments      | 75   | 238  | 415  | 581   | 978   | 90%  |
| Workstation Installed Base | 91   | 322  | 717  | 1,260 | 2,182 | 121% |
| North America              |      |      |      |       |       |      |
| Total Revenue              | 10   | 30   | 27   | 39    | 78    | 67%  |
| System Shipments           | 26   | 60   | 64   | 95    | 203   | 67%  |
| Workstation Shipments      | 68   | 205  | 246  | 367   | 716   | 80%  |
| Workstation Installed Base | 84   | 282  | 514  | 856   | 1,534 | 107% |
| Europe                     |      |      |      |       | •     |      |
| Total Revenue              | 0    | 0    | 13   | 18    | 25    | ERR  |
| System Shipments           | 0    | 0    | 30   | 41    | 50    | ERR  |
| Workstation Shipments      | 0    | 0    | 116  | 159   | 187   | ERR  |
| Workstation Installed Base | 0    | 0    | 115  | 268   | 441   | ERR  |
| Far East                   |      |      |      |       |       |      |
| Total Revenue              | 0    | 0    | 4    | 5     | 7     | ERR  |
| System Shipments           | 0    | 0    | 10   | 11    | 16    | ERR  |
| Workstation Shipments      | 0    | 0    | 38   | 43    | 57    | ERR  |
| Workstation Installed Base | 0    | O    | 37   | 77    | 132   | ERR  |
| Rest of World              |      |      |      |       |       |      |
| Total Revenue              | 3    | 8    | 1    | 1     | 2     | -7%  |
| System Shipments           | 3    | 10   | 4    | 3     | 5     | 16%  |
| Workstation Shipments      | 7    | 33   | 15   | 12    | 19    | 29%  |
| Workstation Installed Base | 7    | 40   | 51   | 59    | 75    | 81%  |
| Standalone                 |      |      |      |       |       |      |
| Total Revenue              | 0    | 0    | 2    | 0     | 0     | ERR  |
| System Shipments           | 0    | 0    | 22   | 0     | 0     | ERR  |
| Workstation Shipments      | 0    | 0    | 22   | 0     | 0     | ERR  |
| Workstation Installed Base | 0    | 0    | 22   | 19    | 0     | ERR  |
| Host-Dependent             |      |      |      |       |       |      |
| Total Revenue              | 13   | 38   | 43   | 63    | 112   | 71%  |
| System Shipments           | 29   | 70   | 86   | 150   | 275   | 76%  |
| Workstation Shipments      | 75   | 238  | 393  | 581   | 978   | 90%  |
| Workstation Installed Base | 91   | 322  | 695  | 1,241 | 2,182 | 121% |
| Personal Computer          |      |      |      |       |       |      |
| Total Revenue              | 0    | 0    | 0    | 0     | 0     | ERR  |
| System Shipments           | 0    | 0    | 0    | 0     | 0     | ERR  |
| Workstation Shipments      | 0    | 0    | 0    | 0     | 0     | ERR  |
| Workstation Installed Base | 0    | 0    | 0    | 0     | 0     | ERR  |
|                            |      |      |      |       |       |      |

Source: Dataquest

TABLE NUMBER: C-91

TITLE: Company History

COMPANY: Prime APPLICATION: AEC

UNITS: Millions of Dollars and Actual Units

|                            | 1981 | 1982 | 1983 | 1984 | 1985 | CAGR |
|----------------------------|------|------|------|------|------|------|
|                            |      |      |      | ==== | 222  | 2222 |
| Worldwide                  |      |      |      |      |      |      |
| Total Revenue              | 0    | 0    | 23   | 31   | 28   | ERR  |
| System Shipments           | 0    | 0    | 52   | 76   | 70   | ERR  |
| Workstation Shipments      | 0    | 0    | 202  | 293  | 249  | ERR  |
| Workstation Installed Base | 0    | 0    | 202  | 484  | 710  | ERR  |
| North America              |      |      |      |      |      |      |
| Total Revenue              | 0    | 0    | 14   | 19   | 24   | ERR  |
| System Shipments           | 0    | 0    | 31   | 48   | 63   | ERR  |
| Workstation Shipments      | 0    | 0    | 121  | 185  | 222  | ERR  |
| Workstation Installed Base | 0    | 0    | 122  | 301  | 508  | ERR  |
| Europe                     |      |      |      |      |      |      |
| Total Revenue              | 0    | 0    | 6    | 9    | 3    | ERR  |
| System Shipments           | 0    | 0    | 15   | 21   | 6    | ERR  |
| Workstation Shipments      | 0    | 0    | 58   | 81   | 21   | ERR  |
| Workstation Installed Base | 0    | 0    | 57   | 134  | 148  | ERR  |
| Far East                   |      |      |      |      |      |      |
| Total Revenue              | 0    | 0    | 2    | 3    | 0    | ERR  |
| System Shipments           | 0    | 0    | 5    | 6    | 0    | ERR  |
| Workstation Shipments      | 0    | 0    | 18   | 23   | 2    | ERR  |
| Workstation Installed Base | 0    | 0    | 17   | 38   | 39   | ERR  |
| Rest of World              |      |      |      |      |      |      |
| Total Revenue              | 0    | 0    | 1    | 0    | 1    | ERR  |
| System Shipments           | 0    | 0    | 1    | 1    | 1    | ERR  |
| Workstation Shipments      | 0    | 0    | 5    | 4    | 5    | ERR  |
| Workstation Installed Base | 0    | 0    | 6    | 11   | 15   | ERR  |
| Standalone                 |      |      |      |      |      |      |
| Total Revenue              | 0    | 0    | 1    | 0    | 0    | ERR  |
| System Shipments           | 0    | 0    | 9    | 0    | 0    | ERR  |
| Workstation Shipments      | 0    | 0    | 9    | 0    | 0    | ERR  |
| Workstation Installed Base | 0    | 0    | 9    | 9    | 0    | ERR  |
| Host-Dependent             |      |      |      |      |      |      |
| Total Revenue              | 0    | 0    | 21   | 31   | 28   | ERR  |
| System Shipments           | 0    | 0    | 43   | 76   | 70   | ERR  |
| Workstation Shipments      | 0    | 0    | 193  | 293  | 249  | ERR  |
| Workstation Installed Base | 0    | 0    | 193  | 475  | 710  | ERR  |
| Personal Computer          |      |      |      |      |      |      |
| Total Revenue              | 0    | 0    | 0    | 0    | 0    | ERR  |
| System Shipments           | 0    | 0    | 0    | 0    | 0    | ERR  |
| Workstation Shipments      | 0    | 0    | 0    | 0    | 0    | ERR  |
| Workstation Installed Base | 0    | 0    | 0    | 0    | 0    | ERR  |
|                            |      |      |      |      |      |      |

TABLE NUMBER:

C-92

TITLE:

Company History

COMPANY:
APPLICATION:

Prime IC

UNITS:

Millions of Dollars and Actual Units

|                            | 1981 | 1982 | 1983 | 1984 | 1985 | CAGR |
|----------------------------|------|------|------|------|------|------|
|                            | ==== | ==== | **** | ==== | ==== | ==== |
| Worldwide                  |      |      |      |      |      |      |
| Total Revenue              | 0    | 0    | 1    | 0    | 0    | ERR  |
| System Shipments           | 0    | 0    | 5    | 0    | 0    | ERR  |
| Workstation Shipments      | 0    | 0    | 5    | 0    | 0    | ERR  |
| Workstation Installed Base | 0    | 0    | 5    | 0    | 0    | ERR  |
| North America              |      |      |      |      |      |      |
| Total Revenue              | 0    | 0    | 0    | 0    | 0    | ERR  |
| System Shipments           | 0    | 0    | 0    | g    | 0    | ERR  |
| Workstation Shipments      | 0    | 0    | 0    | 0    | C    | ERR  |
| Workstation Installed Base | 0    | 0    | 0    | 0    | 0    | ERR  |
| Europe                     |      |      |      |      |      |      |
| Total Revenue              | 0    | 0    | 1    | 0    | 0    | ERR  |
| System Shipments           | 0    | 0    | 5    | 0    | 0    | ERR  |
| Workstation Shipments      | 0    | 0    | 5    | 0    | 0    | ERR  |
| Workstation Installed Base | 0    | 0    | 5    | 0    | 0    | ERR  |
| Fer East                   |      |      |      |      |      |      |
| Total Revenue              | 0    | 0    | 0    | 0    | 0    | ERR  |
| System Shipments           | 0    | 0    | 0    | 0    | 0    | ERR  |
| Workstation Shipments      | 0    | 0    | 0    | 0    | 0    | ERR  |
| Workstation Installed Base | 0    | 0    | 0    | 0    | 0    | ERR  |
| Rest of World              |      |      |      |      |      |      |
| Total Revenue              | 0    | 0    | 0    | 0    | 0    | ERR  |
| System Shipments           | 0    | 0    | 0    | 0    | 0    | ERR  |
| Workstation Shipments      | 0    | 0    | 0    | 0    | 0    | ERR  |
| Workstation Installed Base | 0    | 0    | 0    | 0    | 0    | ERR  |
| Standal one                |      |      |      |      |      |      |
| Total Revenue              | 0    | 0    | 1    | 0    | 0    | ERR  |
| System Shipments           | 0    | 0    | 5    | 0    | Q    | ERR  |
| Workstation Shipments      | 0    | 0    | 5    | 0    | 0    | ERR  |
| Workstation Installed Base | 0    | 0    | 5    | 0    | 0    | ERR  |
| Host-Dependent             |      |      |      |      |      |      |
| Total Revenue              | 0    | 0    | 0    | 0    | 0    | ERR  |
| System Shipments           | 0    | 0    | 0    | 0    | 0    | ERR  |
| Workstation Shipments      | Û    | 0    | 0    | 0    | 0    | ERR  |
| Workstation Installed Base | 0    | 0    | 0    | 0    | 0    | ERR  |
| Personal Computer          |      |      |      |      |      |      |
| Total Revenue              | 0    | 0    | 0    | 0    | 0    | ERR  |
| System Shipments           | 0    | 0    | 0    | 0    | 0    | ERR  |
| Workstation Shipments      | 0    | 0    | 0    | 0    | 0    | ERR  |
| Workstation Installed Base | 0    | 0    | 0    | 0    | 0    | ERR  |

Source: Dataquest

TABLE NUMBER:

C-93

TITLE:

UNITS:

Company History

COMPANY:

Prime PCB

APPLICATION:

Millions of Dollars and Actual Units

|                            | 1981 | 1982 | 1983 | 1984 | 1985 | CAGR   |
|----------------------------|------|------|------|------|------|--------|
|                            |      | ==== | ==== | ==== | ==== | ====   |
| Worldwide                  |      |      |      |      |      |        |
| Total Revenue              | 5    | 13   | 10   | 11   | 0    | -100%  |
| System Shipments           | 8    | 19   | 24   | 26   | 0    | -100%  |
| Workstation Shipments      | 13   | 82   | 92   | 100  | 0    | -100%  |
| Workstation Installed Base | 13   | 94   | 181  | 270  | 257  | 111%   |
| North America              |      |      |      |      |      |        |
| Total Revenue              | 4    | 8    | 6    | 6    | 0    | -100%  |
| System Shipments           | 6    | 13   | 14   | 16   | 0    | - 100% |
| Workstation Shipments      | 13   | 56   | 54   | 62   | 0    | - 100% |
| Workstation Installed Base | 13   | 68   | 120  | 175  | 167  | 89%    |
| Europe                     |      |      |      |      |      |        |
| Total Revenue              | 0    | 0    | 3    | 3    | 0    | ERR    |
| System Shipments           | 0    | 0    | 6    | 7    | 0    | ERR    |
| Workstation Shipments      | 0    | 0    | 24   | 27   | 0    | ERR    |
| Workstation Installed Base | 0    | 0    | 25   | 51   | 49   | ERR    |
| Far East                   |      |      |      |      |      |        |
| Total Revenue              | 0    | 0    | 1    | 1    | 0    | ERR    |
| System Shipments           | 0    | 0    | 3    | 2    | 0    | ERR    |
| Workstation Shipments      | 0    | 0    | 10   | 8    | 0    | ERR    |
| Workstation Installed Base | 0    | 0    | 9    | 16   | 15   | ERR    |
| Rest of World              |      |      |      |      |      |        |
| Total Revenue              | 1    | 5    | 0    | 0    | 0    | -100%  |
| System Shipments           | 2    | 6    | 1    | 1    | 0    | -100%  |
| Workstation Shipments      | 0    | 26   | 4    | 3    | 0    | ERR    |
| Workstation Installed Base | 0    | 26   | 27   | 28   | 27   | ERR    |
| Standalone                 |      |      |      |      |      |        |
| Total Revenue              | 0    | 0    | 0    | 0    | 0    | ERR    |
| System Shipments           | 0    | 0    | 5    | 0    | 0    | ERR    |
| Workstation Shipments      | 0    | 0    | 5    | 0    | 0    | ERR    |
| Workstation Installed Base | 0    | 0    | 5    | 5    | 0    | ERR    |
| Host-Dependent             |      |      |      |      |      |        |
| Total Revenue              | 5    | 13   | 10   | 11   | 0    | -100%  |
| System Shipments           | 8    | 19   | 19   | 26   | 0    | -100%  |
| Workstation Shipments      | 13   | 82   | 87   | 100  | 0    | -100%  |
| Workstation Installed Base | 13   | 94   | 176  | 265  | 257  | 111%   |
| Personal Computer          |      |      |      |      |      |        |
| Total Rev <del>e</del> nue | 0    | 0    | 0    | 0    | 0    | ERR    |
| System Shipments           | 0    | 0    | 0    | 0    | 0    | ERR    |
| Workstation Shipments      | 0    | 0    | 0    | 0    | 0    | ERR    |
| Workstation Installed Base | 0    | 0    | 0    | 0    | 0    | ERR    |
|                            |      |      |      |      |      |        |

Source: Dataquest

TABLE MUMBER:

€-94

TITLE: COMPANY: Company History

Racal - Redac

APPLICATION:

All Applications

UNITS:

Millions of Dollars and Actual Units

|                            | 1981 | 1982  | 1983  | 1984  | 1985  | CAGR |
|----------------------------|------|-------|-------|-------|-------|------|
|                            | ==== | ====  | ====  | ====  | ====  | ==== |
| Worldwide                  |      |       |       |       |       |      |
| Total Revenue              | 26   | 33    | 45    | 32    | 51    | 18%  |
| System Shipments           | 202  | 263   | 427   | 652   | 229   | 3%   |
| Workstation Shipments      | 208  | 271   | 648   | 674   | 228   | 2%   |
| Workstation Installed Base | 734  | 1,035 | 1,579 | 2,154 | 1,411 | 18%  |
| North America              |      | •     | •     | •     | •     |      |
| Total Revenue              | 6    | 8     | 10    | 11    | 14    | 23%  |
| System Shipments           | 49   | 64    | 103   | 215   | 93    | 17%  |
| Workstation Shipments      | 50   | 66    | 156   | 216   | 93    | 17%  |
| Workstation Installed Base | 177  | 250   | 382   | 578   | 377   | 21%  |
| Europe                     |      |       |       |       |       |      |
| Total Revenue              | 0    | 0     | 34    | 21    | 33    | ERR  |
| System Shipments           | 0    | 0     | 316   | 430   | 91    | ERR  |
| Workstation Shipments      | 0    | 0     | 480   | 451   | 93    | ERR  |
| Workstation Installed Base | 0    | 0     | 440   | 850   | 975   | ERR  |
| Far East                   |      |       |       |       |       |      |
| Total Revenue              | 0    | 0     | 1     | 0     | 3     | ERR  |
| System Shipments           | 0    | 0     | 8     | 7     | 41    | ERR  |
| Workstation Shipments      | 0    | 0     | 12    | 7     | 39    | ERR  |
| Workstation Installed Base | 0    | 0     | 11    | 17    | 56    | ERR  |
| Rest of World              |      |       |       |       |       |      |
| Total Revenue              | 20   | 25    | 0     | 0     | 0     | -60% |
| System Shipments           | 153  | 199   | 0     | 0     | 3     | -63% |
| Workstation Shipments      | 158  | 205   | 0     | 0     | 3     | -63% |
| Workstation Installed Base | 557  | 785   | 746   | 709   | 3     | -73X |
| Standalone                 |      |       |       |       |       |      |
| Total Revenue              | 0    | 0     | 27    | 29    | 32    | ERR  |
| System Shipments           | 0    | 0     | 322   | 575   | 190   | ERR  |
| Workstation Shipments      | 0    | 0     | 322   | 575   | 190   | ERR  |
| Workstation Installed Base | 0    | 0     | 322   | 880   | 1,062 | ERR  |
| Host-Dependent             |      |       |       |       |       |      |
| Total Revenue              | 26   | 33    | 18    | 3     | 3     | -42% |
| System Shipments           | 202  | 263   | 105   | 69    | 6     | -58% |
| Workstation Shipments      | 208  | 271   | 326   | 71    | 6     | -58% |
| Workstation Installed Base | 734  | 1,035 | 1,257 | 1,266 | 251   | -24% |
| Personal Computer          |      |       |       |       |       |      |
| Total Revenue              | 0    | 0     | 0     | 0     | 16    | ERR  |
| System Shipments           | 0    | 0     | 0     | 8     | 32    | ERR  |
| Workstation Shipments      | C    | 0     | 0     | 28    | 32    | ERR  |
| Workstation Installed Base | 0    | 0     | 0     | 8     | 97    | ERR  |
|                            |      |       |       |       |       |      |

Source: Dataquest

TABLE NUMBER:

C-95

TITLE:

Company History

COMPANY:

Racal-Redac

APPLICATION:

EDA

UNITS:

Millions of Dollars and Actual Units

|                            | 1981 | 1982 | 1983 | 1984 | 1985 | CAGR |
|----------------------------|------|------|------|------|------|------|
|                            | ==== | REFE | KE2= | 2255 | ==== | ==== |
| Worldwide                  |      |      |      |      |      |      |
| Total Revenue              | 0    | 0    | 0    | 0    | 1    | ERR  |
| System Shipments           | 0    | 0    | 0    | 14   | 7    | ERR  |
| Workstation Shipments      | 0    | 0    | 0    | 14   | 7    | ERR  |
| Workstation Installed Base | 0    | 0    | 0    | 14   | 23   | ERR  |
| North America              |      |      |      |      |      |      |
| Total Revenue              | C    | 0    | 0    | 0    | 0    | ERR  |
| System Shipments           | 0    | 0    | 0    | 5    | 1    | ERR  |
| Workstation Shipments      | 0    | 0    | 0    | 5    | 1    | ERR  |
| Workstation Installed Base | 0    | 0    | 0    | 5    | 6    | ERR  |
| Europe                     |      |      |      |      |      |      |
| Total Revenue              | 0    | 0    | 0    | 0    | 1    | ERR  |
| System \$hipments          | 0    | 0    | 0    | 9    | 3    | ERR  |
| Workstation Shipments      | 0    | 0    | 0    | 9    | 3    | ERR  |
| Workstation Installed Base | 0    | 0    | 0    | 9    | 13   | ERR  |
| Far East                   |      |      |      |      |      |      |
| Total Revenue              | 0    | 0    | 0    | 0    | 0    | ERR  |
| System Shipments           | 0    | 0    | 0    | 0    | 3    | ERR  |
| Workstation Shipments      | 0    | 0    | 0    | 0    | 3    | ERR  |
| Workstation Installed Base | 0    | 0    | 0    | 0    | 3    | ERR  |
| Rest of World              |      |      |      |      |      |      |
| Total Revenue              | 0    | 0    | 0    | 0    | 0    | ERR  |
| System Shipments           | 0    | 0    | 0    | 0    | 0    | ERR  |
| Workstation Shipments      | 0    | 0    | 0    | 0    | 0    | ERR  |
| Workstation Installed Base | 0    | 0    | 0    | 0    | 0    | ERR  |
| Standalone                 |      |      |      |      |      |      |
| Total Revenue              | 0    | 0    | 0    | 0    | 1    | ERR  |
| System Shipments           | Ò    | 0    | 0    | 12   | 7    | ERR  |
| Workstation Shipments      | 0    | 0    | 0    | 12   | 7    | ERR  |
| Workstation Installed Base | 0    | 0    | 0    | 12   | 19   | ERR  |
| Host-Dependent             |      |      |      |      |      |      |
| Total Revenue              | 0    | 0    | 0    | 0    | 0    | ERR  |
| System Shipments           | 0    | 0    | 0    | 2    | 0    | ERR  |
| Workstation Shipments      | 0    | 0    | 0    | 2    | 0    | ERR  |
| Workstation Installed Base | 0    | 0    | 0    | 2    | 1    | ERR  |
| Personal Computer          |      |      | -    |      | -    |      |
| Total Revenue              | 0    | 0    | 0    | 0    | 0    | ERR  |
| System Shipments           | Ö    | 0    | Ŏ    | Ō    | ō    | ERR  |
| Workstation Shipments      | Ö    | Ō    | ō    | 0    | 0    | ERR  |
| Workstation Installed Base | Ö    | Ō    | 0    | ō    | 3    | ERR  |
|                            | -    | -    | -    | •    | •    |      |

TABLE NUMBER:

C-96

TITLE:

Company History Racal-Redac

COMPANY: APPLICATION:

10

UNITS:

Millions of Dollars and Actual Units

|                            | 1981 | 1982 | 1983 | 1984 | 1985 | CAGR |
|----------------------------|------|------|------|------|------|------|
|                            | ==== | ==== |      | ==== | XX22 | ==== |
| Worldwide                  |      |      |      |      |      |      |
| Total Revenue              | Q    | 0    | 0    | 0    | 1    | ERR  |
| System Shipments           | 0    | θ    | 0    | 0    | 2    | ERR  |
| Workstation Shipments      | 0    | 0    | 0    | 0    | 2    | ERR  |
| Workstation Installed Base | 0    | 0    | 0    | 0    | 2    | ERR  |
| North America              |      |      |      |      |      |      |
| Total Revenue              | 0    | 0    | 0    | 0    | 0    | ERR  |
| System Shipments           | 0    | 0    | 0    | 0    | 0    | ERR  |
| Workstation Shipments      | 0    | 0    | 0    | 0    | 0    | ERR  |
| Workstation Installed Base | 0    | a    | 0    | 0    | 0    | ERR  |
| Europe                     |      |      |      |      |      |      |
| Total Revenue              | 0    | 0    | Ç    | 0    | 0    | ERR  |
| System Shipments           | 0    | 0    | 0    | 0    | 1    | ERR  |
| Workstation Shipments      | 0    | 0    | C    | 0    | 1    | ERR  |
| Workstation Installed Base | 0    | 0    | 0    | 0    | 1    | ERR  |
| Far East                   |      |      |      |      |      |      |
| Total Revenue              | 0    | 0    | 0    | 9    | 0    | ERR  |
| System Shipments           | 0    | 0    | 0    | 0    | 0    | ERR  |
| Workstation Shipments      | 0    | 0    | 0    | 0    | 0    | ERR  |
| Workstation Installed Base | 0    | 0    | 0    | 0    | 0    | ERR  |
| Rest of World              |      |      |      |      |      |      |
| Total Revenue              | 0    | 0    | 0    | 0    | 0    | ERR  |
| System Shipments           | Q    | 0    | 0    | 0    | 0    | ERR  |
| Workstation Shipments      | 0    | 0    | 0    | 0    | 0    | ERR  |
| Workstation Installed Base | 0    | 0    | 0    | 0    | 0    | ERR  |
| Standatone                 |      |      |      |      |      |      |
| Total Revenue              | 0    | 0    | 0    | 0    | 8    | ERR  |
| System Shipments           | 0    | 8    | 0    | 0    | 2    | ERR  |
| Workstation Shipments      | 0    | 0    | 0    | 0    | 2    | ERR  |
| Workstation Installed Base | 0    | 0    | 0    | 0    | 2    | ERR  |
| Host-Dependent             |      |      |      |      |      |      |
| Total Revenue              | 0    | Q    | Q.   | 0    | 0    | ERR  |
| System Shipments           | 0    | 0    | 0    | 0    | 0    | ERR  |
| Workstation Shipments      | 0    | 0    | 0    | 0    | 0    | ERR  |
| Workstation Installed Base | 0    | 0    | 0    | 0    | 0    | ERR  |
| Personal Computer          |      |      |      |      |      |      |
| Total Revenue              | 0    | C    | Q    | 0    | 0    | ERR  |
| System Shipments           | 0    | 0    | 0    | 0    | 0    | ERR  |
| Workstation Shipments      | 0    | 0    | 0    | 0    | 0    | ERR  |
| Workstation Installed Base | 0    | 0    | O    | 0    | 0    | ERR  |

Source: Dataquest

TABLE NUMBER:

C-97

TITLE:

Company History

COMPANY: APPLICATION: Racal-Redac PCB

UNITS:

Millions of Dollars and Actual Units

|                            | 1 <b>981</b> | 1982  | 1983  | 1984  | 1985  | CAGR |
|----------------------------|--------------|-------|-------|-------|-------|------|
|                            | #E3E         | ====  | -===  |       | ****  |      |
| Worldwide                  |              |       |       |       |       |      |
| Total Revenue              | 26           | 33    | 45    | 32    | 49    | 17%  |
| System Shipments           | 202          | 263   | 427   | 638   | 219   | 2%   |
| Workstation Shipments      | 208          | 271   | 648   | 660   | 219   | 1%   |
| Workstation Installed Base | 734          | 1,035 | 1,579 | 2,140 | 1,386 | 17%  |
| North America              |              |       |       |       |       |      |
| Total Revenue              | 6            | 8     | 10    | 11    | 14    | 23%  |
| System Shipments           | 49           | 64    | 103   | 210   | 91    | 17%  |
| Workstation Shipments      | 50           | 66    | 156   | 211   | 91    | 16%  |
| Workstation Installed Base | 177          | 250   | 382   | 573   | 370   | 20%  |
| Europe                     |              |       |       |       |       |      |
| Total Revenue              | 0            | 0     | 34    | 21    | 31    | ERR  |
| System Shipments           | 0            | 0     | 316   | 421   | 87    | ERR  |
| Workstation Shipments      | 0            | 0     | 480   | 442   | 89    | ERR  |
| Workstation Installed Base | 0            | 0     | 440   | 841   | 960   | ERR  |
| Far East                   |              |       |       |       |       |      |
| Total Revenue              | 0            | 0     | 1     | 0     | 3     | ERR  |
| System Shipments           | 0            | 0     | 8     | 7     | 38    | ERR  |
| Workstation Shipments      | 0            | 0     | 12    | 7     | 36    | ERR  |
| Workstation Installed Base | 0            | 0     | 11    | 17    | 53    | ERR  |
| Rest of World              |              |       |       |       |       |      |
| Total Revenue              | 20           | 25    | 0     | 0     | 0     | -60% |
| System Shipments           | 153          | 199   | 0     | 0     | 3     | -63% |
| Workstation Shipments      | 158          | 205   | 0     | 0     | 3     | -63% |
| Workstation Installed Base | 557          | 785   | 746   | 709   | 3     | -73% |
| Standalone                 |              |       |       |       |       |      |
| Total Revenue              | 0            | 0     | 27    | 29    | 30    | ERR  |
| System Shipments           | 0            | 0     | 322   | 563   | 181   | ERR  |
| Workstation Shipments      | 0            | 0     | 322   | 563   | 181   | ERR  |
| Workstation Installed Base | 0            | 0     | 322   | 868   | 1,041 | ERR  |
| Host-Dependent             |              |       |       |       |       |      |
| Total Revenue              | 26           | 33    | 18    | 3     | 3     | -43% |
| System Shipments           | 202          | 263   | 105   | 67    | 6     | -58% |
| Workstation Shipments      | 208          | 271   | 326   | 69    | 6     | -59% |
| Workstation Installed Base | 734          | 1,035 | 1,257 | 1,264 | 250   | -24% |
| Personal Computer          |              |       |       |       |       |      |
| Total Revenue              | 0            | 0     | 0     | 0     | 16    | ERR  |
| System Shipments           | 0            | 0     | 0     | 8     | 32    | ERR  |
| Workstation Shipments      | 0            | 0     | 0     | 28    | 32    | ERR  |
| Workstation Installed Base | 0            | 0     | 0     | 8     | 95    | ERR  |
|                            |              |       |       |       |       |      |

TABLE NUMBER:

€-98

TITLE:

Company History

COMPANY:

Scientific Calculations

APPLICATION:

All Applications

UNITS:

Millions of Dollars and Actual Units

|                            | 1981 | 1982 | 1983 | 1984 | 1985 | CAGR |
|----------------------------|------|------|------|------|------|------|
|                            | ==== | ==== | ***  | ==== |      | 122E |
| <b>Worldwide</b>           |      |      |      |      |      |      |
| Total Revenue              | 0    | 0    | 0    | 41   | 48   | ERR  |
| System Shipments           | 0    | 0    | 0    | 70   | 181  | ERR  |
| Workstation Shipments      | 0    | 0    | 0    | 253  | 436  | ERR  |
| Workstation Installed Base | 0    | 0    | 0    | 257  | 691  | ERR  |
| North America              |      |      |      |      |      |      |
| Total Revenue              | 0    | 0    | 0    | 32   | 17   | ERR  |
| System Shipments           | 0    | 0    | 0    | 55   | 94   | ERR  |
| Workstation Shipments      | 0    | 0    | 0    | 197  | 262  | ERR  |
| Workstation Installed Base | 0    | 0    | 0    | 197  | 459  | ERR  |
| Europe                     |      |      |      |      |      |      |
| Total Revenue              | 0    | 0    | 0    | 5    | 12   | ERR  |
| System Shipments           | 0    | 0    | 0    | 9    | 34   | ERR  |
| Workstation Shipments      | 0    | 0    | 0    | 32   | 83   | ERR  |
| Workstation Installed Base | 0    | Û    | 0    | 33   | 115  | ERR  |
| Far East                   |      |      |      |      |      |      |
| Total Revenue              | 0    | 0    | 0    | 4    | 18   | ERR  |
| System Shipments           | 0    | 0    | 0    | 6    | 53   | ERR  |
| Workstation Shipments      | 0    | 0    | 0    | 23   | 92   | ERR  |
| Workstation Installed Base | 0    | 0    | 0    | 25   | 116  | ERR  |
| Rest of World              |      |      |      |      |      |      |
| Total Revenue              | 0    | 0    | 0    | 0    | 0    | ERR  |
| System Shipments           | 0    | 0    | 0    | 0    | 0    | ERR  |
| Workstation Shipments      | 0    | 0    | 0    | 1    | 0    | ERR  |
| Workstation Installed Base | 0    | 0    | 0    | 2    | 0    | ERR  |
| Standalone                 |      |      |      |      |      |      |
| Total Revenue              | 0    | O    | 0    | 10   | 26   | ERR  |
| System Shipments           | 0    | 0    | 0    | 45   | 94   | ERR  |
| Workstation Shipments      | 0    | 0    | 0    | 45   | 94   | ERR  |
| Workstation Installed Base | 0    | 0    | 0    | 45   | 139  | ERR  |
| Host-Dependent             |      |      |      |      |      |      |
| Total Revenue              | 0    | 0    | 0    | 31   | 22   | ERR  |
| System Shipments           | 0    | 0    | 0    | 25   | 87   | ERR  |
| Workstation Shipments      | 0    | 0    | 0    | 208  | 343  | ERR  |
| Workstation Installed Base | 0    | 0    | 0    | 212  | 553  | ERR  |
| Personal Computer          |      |      |      |      |      |      |
| Total Revenue              | 0    | 0    | Q    | 0    | 0    | ERR  |
| System Shipments           | 0    | 0    | 0    | 0    | 0    | ERR  |
| Workstation Shipments      | 0    | 0    | Đ    | 0    | 0    | ERR  |
| Workstation Installed Base | 0    | 0    | 0    | 0    | 0    | ERR  |
|                            |      |      |      |      |      |      |

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TABLE NUMBER:

C-99

TITLE:

Company History

COMPANY:

Scientific Calculations

APPLICATION:

IC

UNITS:

Millions of Dollars and Actual Units

|                            | 1981 | 1982 | 1983             | 1984        | 1985 | CAGR |
|----------------------------|------|------|------------------|-------------|------|------|
|                            | 2002 | 2222 | #22 <del>5</del> | <del></del> | 2222 | ==== |
| Worldwide                  |      |      |                  |             |      |      |
| Total Revenue              | 0    | 0    | 0                | 2           | 3    | ERR  |
| System Shipments           | 0    | 0    | 0                | 1           | 19   | ERR  |
| Workstation Shipments      | 0    | 0    | 0                | 12          | 73   | ERR  |
| Workstation Installed Base | 0    | 0    | 0                | 14          | 87   | ERR  |
| North America              |      |      |                  |             |      |      |
| Total Revenue              | 0    | 0    | 0                | 2           | 3    | ERR  |
| System Shipments           | 0    | 0    | 0                | 1           | 19   | ERR  |
| Workstation Shipments      | 0    | 0    | 0                | 10          | 73   | ERR  |
| Workstation Installed Base | 0    | 0    | 0                | 10          | 83   | ERR  |
| Europe                     |      |      |                  |             |      |      |
| Total Revenue              | 0    | 0    | 0                | 0           | 0    | ERR  |
| System Shipments           | 0    | 0    | 0                | 0           | 0    | ERR  |
| Workstation Shipments      | 0    | 0    | 0                | 1           | 0    | ERR  |
| Workstation Installed Base | 0    | 0    | 0                | 2           | 2    | ERR  |
| far East                   |      |      |                  |             |      |      |
| Total Revenue              | 0    | 0    | 0                | 0           | 0    | ERR  |
| System Shipments           | 0    | 0    | 0                | 0           | 0    | ERR  |
| Workstation Shipments      | 0    | 0    | 0                | 1           | 0    | ERR  |
| Workstation Installed Base | 0    | 0    | 0                | 2           | 2    | ERR  |
| Rest of World              |      |      |                  |             |      |      |
| Total Revenue              | 0    | 0    | 0                | 0           | 0    | ERR  |
| System Shipments           | 0    | 0    | 0                | 0           | 0    | ERR  |
| Workstation Shipments      | 0    | 0    | 0                | 0           | 0    | ERR  |
| Workstation Installed Base | 0    | 0    | 0                | 0           | 0    | ERR  |
| Standalone                 |      |      |                  |             |      |      |
| Total Revenue              | 0    | 0    | 0                | 0           | 0    | ERR  |
| System Shipments           | 0    | 0    | 0                | 0           | 0    | ERR  |
| Workstation Shipments      | 0    | 0    | 0                | 0           | 0    | ERR  |
| Workstation Installed Base | 0    | 0    | 0                | 0           | 0    | ERR  |
| Host-Dependent             |      |      |                  |             |      |      |
| Total Revenue              | 0    | 0    | 0                | 2           | 3    | ERR  |
| System Shipments           | 0    | 0    | 0                | 1           | 19   | ERR  |
| Workstation Shipments      | 0    | 0    | 0                | 12          | 73   | ERR  |
| Workstation Installed Base | 0    | 0    | 0                | 14          | 87   | ERR  |
| Personal Computer          |      |      |                  |             |      |      |
| Total Revenue              | 0    | 0    | 0                | 0           | 0    | ERR  |
| System Shipments           | 0    | 0    | 0                | 0           | 0    | ERR  |
| Workstation Shipments      | 0    | 0    | 0                | 0           | 0    | ERR  |
| Workstation Installed Base | 0    | 0    | 0                | 0           | 0    | ERR  |
|                            |      |      |                  |             |      |      |

Source: Dataquest

TABLE NUMBER:

C-100

TITLE:

Company History

COMPANY:

Scientific Calculations

APPLICATION:

PCB

UNITS:

Millions of Dollars and Actual Units

|                            | 1981 | 1982 | 1983 | 1984 | 1985 | CAGR |
|----------------------------|------|------|------|------|------|------|
|                            |      |      | ==== |      | 2222 | ==== |
| Worldwide                  |      |      |      |      |      |      |
| Total Revenue              | 0    | 0    | 0    | 39   | 45   | ERR  |
| System Shipments           | 0    | 0    | 0    | 69   | 161  | ERR  |
| Workstation Shipments      | 0    | 0    | 0    | 241  | 364  | ERR  |
| Workstation Installed Base | 0    | 0    | 0    | 243  | 604  | ERR  |
| North America              |      |      |      |      |      |      |
| Total Revenue              | 0    | 0    | 0    | 30   | 14   | ERR  |
| System Shipments           | 0    | 0    | 0    | 54   | 74   | ERR  |
| Workstation Shipments      | 0    | 0    | 0    | 187  | 190  | ERR  |
| Workstation Installed Base | 0    | 0    | 0    | 187  | 377  | ERR  |
| Europe                     |      |      |      |      |      |      |
| Total Revenue              | 0    | 0    | Ð    | 5    | 12   | ERR  |
| System Shipments           | 0    | 0    | 0    | 9    | 34   | ERR  |
| Workstation Shipments      | 0    | 0    | 0    | 31   | 83   | ERR  |
| Workstation Installed Base | 0    | 0    | 0    | 31   | 113  | ERR  |
| Far East                   |      |      |      |      |      |      |
| Total Revenue              | 0    | 0    | 0    | 4    | 18   | ERR  |
| System Shipments           | 0    | 0    | 0    | 6    | 53   | ERR  |
| Workstation Shipments      | 0    | 0    | 0    | 22   | 92   | ERR  |
| Workstation Installed Base | 0    | 0    | 0    | 23   | 114  | ERR  |
| Rest of World              |      |      |      |      |      |      |
| Total Revenue              | 0    | 0    | 0    | 0    | 0    | ERR  |
| System Shipments           | 0    | 0    | 0    | 0    | 0    | ERR  |
| Workstation Shipments      | 0    | 0    | 0    | 1    | 0    | ERR  |
| Workstation Installed Base | 0    | 0    | 0    | 2    | 0    | ERR  |
| Standel one                |      |      |      |      |      |      |
| Total Revenue              | 0    | 0    | 0    | 10   | 26   | ERR  |
| System Shipments           | 0    | 0    | 0    | 45   | 94   | ERR  |
| Workstation Shipments      | 0    | 0    | 0    | 45   | 94   | ERR  |
| Workstation Installed Base | 0    | 0    | 0    | 45   | 139  | ERR  |
| Host-Dependent             |      |      |      |      |      |      |
| Total Revenue              | 0    | 0    | 0    | 29   | 19   | ERR  |
| System Shipments           | Đ    | 0    | 0    | 24   | 68   | ERR  |
| Workstation Shipments      | 0    | 0    | 0    | 196  | 270  | ERR  |
| Workstation Installed Base | 0    | 0    | 0    | 198  | 466  | ERR  |
| Personal Computer          |      |      |      |      |      |      |
| Total Revenue              | 0    | 0    | 0    | 0    | 0    | ERR  |
| System Shipments           | 0    | 0    | 0    | 0    | 0    | ERR  |
| Workstation Shipments      | G    | 0    | 0    | 0    | 0    | ERR  |
| Workstation Installed Base | C    | 0    | 0    | 0    | 0    | ERR  |

TABLE NUMBER:

C-101

TITLE:

Company History

COMPANY:

SDRC

APPLICATION:

All Applications

UNITS:

Millions of Dollars and Actual Units

| Worldwide         0         0         0         0         15         ERR           System Shipments         0         0         0         0         0         ERR           Workstation Shipments         0         0         0         0         ERR                         |
|---|
| Total Revenue         0         0         0         0         15         ERR           System Shipments         0         0         0         0         0         0         ERR           Workstation Shipments         0         0         0         0         0         ERR |
| System Shipments         0         0         0         0         0         ERR           Workstation Shipments         0         0         0         0         0         ERR  |
| Workstation Shipments 0 0 0 0 ERR   |
|   |
|   |
| Workstation Installed Base 0 0 0 0 ERR  |
| North America   |
| Total Revenue 0 0 0 0 11 ERR  |
| System Shipments 0 0 0 0 ERR  |
| Workstation Shipments 0 0 0 0 ERR   |
| Workstation Installed Base 0 0 0 0 ERR  |
| Europe  |
| Total Revenue 0 0 0 0 3 ERR   |
| System Shipments 0 0 0 0 ERR  |
| Workstation Shipments 0 0 0 0 ERR   |
| Workstation Installed Base 0 0 0 0 ERR  |
| Fer East  |
| Total Revenue 0 0 0 0 2 ERR   |
| System Shipments 0 0 0 0 ERR  |
| Workstation Shipments 0 0 0 0 ERR   |
| Workstation Installed Base 0 0 0 0 0 ERR  |
| Rest of World   |
| Total Revenue 0 0 0 0 ERR   |
| System Shipments 0 0 0 0 ERR  |
| Workstation Shipments 0 0 0 0 ERR   |
| Workstation Installed Base 0 0 0 0 ERR  |
| Standalone  |
| Total Revenue 0 0 0 0 6 ERR   |
| System Shipments 0 0 0 0 ERR  |
| Workstation Shipments 0 0 0 0 ERR   |
| Workstation Installed Base 0 0 0 0 ERR  |
| Host-Dependent  |
| Total Revenue 0 0 0 0 9 ERR   |
| System Shipments 0 0 0 0 ERR  |
| Workstation Shipments 0 0 0 0 ERR   |
| Workstation Installed Base 0 0 0 0 ERR  |
| Personal Computer   |
| Total Revenue 0 0 0 0 ERR   |
| System Shipments 0 0 0 0 ERR  |
| Workstation Shipments 0 0 0 0 ERR   |
| Workstation Installed Base 0 0 0 0 ERR  |

Source: Dataquest

TABLE NUMBER:

C-102

TITLE:

Company History

COMPANY:

SDRC

APPLICATION:

Mechanical

UNITS:

Millions of Dollars and Actual Units

|                            | 1981 | 1982 | 1983 | 1984 | 1985 | CAGR |
|----------------------------|------|------|------|------|------|------|
|                            | ==== |      | ==== | ==== | 2823 |      |
| Worldwide                  |      |      |      |      |      |      |
| Total Revenue              | 0    | 0    | 0    | 0    | 13   | ERR  |
| System Shipments           | 0    | 0    | 0    | 0    | 0    | ERR  |
| Workstation Shipments      | 0    | 0    | 0    | 0    | 0    | ERR  |
| Workstation Installed Base | 0    | 0    | 0    | 0    | 0    | ERR  |
| Morth America              |      |      |      |      |      |      |
| Total Revenue              | 0    | 0    | 0    | 0    | 9    | ERR  |
| System Shipments           | 0    | 0    | 0    | 0    | 0    | ERR  |
| Workstation Shipments      | 0    | 0    | 0    | 0    | 0    | ERR  |
| Workstation Installed Base | 0    | 0    | 0    | 0    | 0    | ERR  |
| Europe                     |      |      |      |      |      |      |
| Total Revenue              | 0    | 0    | 0    | 0    | 3    | ERR  |
| System Shipments           | 0    | 0    | 0    | 0    | 0    | ERR  |
| Workstation Shipments      | 0    | 0    | 0    | 0    | 0    | ERR  |
| Workstation Installed Base | 0    | 0    | 0    | 0    | 0    | ERR  |
| Far East                   |      |      |      |      |      |      |
| Total Revenue              | 0    | 0    | 0    | 0    | 1    | ERR  |
| System Shipments           | 0    | 0    | 0    | 0    | 0    | ERR  |
| Workstation Shipments      | 0    | 0    | 0    | 0    | 0    | ERR  |
| Workstation Installed Base | 0    | 0    | 0    | 0    | 0    | ERR  |
| Rest of World              |      |      |      |      |      |      |
| Total Revenue              | 0    | 0    | 0    | 0    | 0    | ERR  |
| System Shipments           | 0    | 0    | 0    | 0    | 0    | ERR  |
| Workstation Shipments      | 0    | 0    | 0    | 0    | 0    | ERR  |
| Workstation Installed Base | 0    | 0    | 0    | 0    | 0    | ERR  |
| Standal one                |      |      |      |      |      |      |
| Total Revenue              | 0    | 0    | 0    | 0    | 5    | ERR  |
| System Shipments           | 0    | 0    | Đ    | 0    | 0    | ERR  |
| Workstation Shipments      | 0    | 0    | 0    | 0    | 0    | ERR  |
| Workstation Installed Base | 0    | 0    | 0    | 0    | 0    | ERR  |
| Host-Dependent             |      |      |      |      |      |      |
| Total Revenue              | 0    | 0    | 0    | 0    | 8    | ERR  |
| System Shipments           | 0    | 0    | 0    | 0    | 0    | ERR  |
| Workstation Shipments      | 0    | 0    | 0    | 0    | 0    | ERR  |
| Workstation Installed Base | 0    | 0    | 0    | 0    | 0    | ERR  |
| Personal Computer          |      |      |      |      |      |      |
| Total Revenue              | 0    | 0    | 0    | 0    | 0    | ERR  |
| System Shipments           | 0    | 0    | 0    | 0    | 0    | ERR  |
| Workstation Shipments      | 0    | 0    | 0    | 0    | 0    | ERR  |
| Workstation Installed Base | 0    | 0    | 0    | 0    | 0    | ERR  |
|                            |      |      |      |      |      |      |

Source: Dataquest

TABLE NUMBER:

C-103

TITLE:

Company History

COMPANY: APPLICATION: SDRC AEC

UNITS:

Millions of Dollars and Actual Units

|                            | 1981 | 1982 | 1983 | 1984 | 1985 | CAGR |
|----------------------------|------|------|------|------|------|------|
|                            | 2002 | ==== | #==# | 2022 | ==== | 2222 |
| Worldwide                  |      |      |      |      |      |      |
| Total Revenue              | 0    | 0    | 0    | 0    | 2    | ERR  |
| System Shipments           | 0    | 0    | 0    | 0    | 0    | ERR  |
| Workstation Shipments      | 0    | 0    | 0    | 0    | 0    | ERR  |
| Workstation Installed Base | 0    | 0    | 0    | 0    | 0    | ERR  |
| North America              |      |      |      |      |      |      |
| Total Revenue              | 0    | 0    | 0    | 0    | 1    | ERR  |
| System Shipments           | 0    | 0    | 0    | 0    | 0    | ERR  |
| Workstation Shipments      | 0    | 0    | 0    | 0    | 0    | ERR  |
| Workstation Installed Base | 0    | 0    | 0    | 0    | 0    | ERR  |
| Europe                     |      |      |      |      |      |      |
| Total Revenue              | 0    | 0    | 0    | 0    | 0    | ERR  |
| System Shipments           | 0    | 0    | 0    | 0    | Û    | ERR  |
| Workstation Shipments      | 0    | 0    | 0    | 0    | 0    | ERR  |
| Workstation Installed Base | 0    | 0    | 0    | 0    | 0    | ERR  |
| Far East                   |      |      |      |      |      |      |
| Total Revenue              | 0    | 0    | 0    | 0    | 0    | ERR  |
| System Shipments           | 0    | 0    | 0    | 0    | 0    | ERR  |
| Workstation Shipments      | 0    | 0    | 0    | 0    | 0    | ERR  |
| Workstation Installed Base | 0    | 0    | 0    | 0    | 0    | ERR  |
| Rest of World              |      |      |      |      |      |      |
| Total Revenue              | 0    | 0    | 0    | 0    | 0    | ERR  |
| System Shipments           | 0    | 0    | 0    | 0    | 0    | ERR  |
| Workstation Shipments      | 0    | 0    | 0    | 0    | Ð    | ERR  |
| Workstation Installed Base | 0    | 0    | 0    | 0    | 0    | ERR  |
| Standalone                 |      |      |      |      |      |      |
| Total Revenue              | 0    | 0    | 0    | 0    | 1    | ERR  |
| System Shipments           | 0    | 0    | 0    | 0    | 0    | ERR  |
| Workstation Shipments      | 0    | 0    | 0    | 0    | 0    | ERR  |
| Workstation Installed Base | 0    | 0    | 0    | 0    | 0    | ERR  |
| Host-Dependent             |      |      |      |      |      |      |
| Total Revenue              | 0    | 0    | 0    | 0    | 1    | ERR  |
| System Shipments           | 0    | 0    | 0    | 0    | 0    | ERR  |
| Workstation Shipments      | 0    | 0    | 0    | 0    | 0    | ERR  |
| Workstation Installed Base | 0    | 0    | 0    | 0    | 0    | ERR  |
| Personal Computer          |      |      |      |      |      |      |
| Total Revenue              | 0    | 0    | 0    | 0    | 0    | ERR  |
| System Shipments           | 0    | 0    | 0    | 0    | 0    | ERR  |
| Workstetion Shipments      | 0    | 0    | 0    | 0    | 0    | ERR  |
| Workstation Installed Base | 0    | 0    | 0    | 0    | 0    | ERR  |
|                            |      |      |      |      |      |      |

TABLE NUMBER:

C-104

TITLE:

Company History

COMPANY:

SDRC

APPLICATION:

Mapping

UNITS:

Millions of Dollars and Actual Units

|                            | 1981 | 1982 | 1983 | 1984 | 1985 | CAGR |
|----------------------------|------|------|------|------|------|------|
|                            | 2222 |      | ==== | 2222 | ==== | ==== |
| Worldwide                  |      |      |      |      |      |      |
| Total Revenue              | 0    | 0    | 0    | 0    | 1    | ERR  |
| System Shipments           | 0    | 6    | 0    | 0    | 0    | ERR  |
| Workstation Shipments      | 0    | 0    | 0    | 0    | 0    | ERR  |
| Workstation Installed Base | 0    | 0    | 0    | 0    | 0    | ERR  |
| North America              |      |      |      |      |      |      |
| Total Revenue              | 0    | 0    | 0    | 0    | 1    | ERR  |
| System Shipments           | 0    | 0    | 0    | 0    | 0    | ERR  |
| Workstation Shipments      | 0    | 0    | 0    | 0    | 0    | ERR  |
| Workstation Installed Base | 0    | 0    | 0    | 0    | 0    | ERR  |
| Europe                     |      |      |      |      |      |      |
| Total Revenue              | 0    | 0    | 0    | 0    | 0    | ERR  |
| System Shipments           | 0    | 0    | 0    | 0    | 0    | ERR  |
| Workstation Shipments      | 0    | 0    | 0    | 0    | 0    | ERR  |
| Workstation Installed Base | 0    | 0    | 0    | 0    | 0    | ERR  |
| far East                   |      |      |      |      |      |      |
| Total Revenue              | 0    | 0    | 0    | 0    | 0    | ERR  |
| System Shipments           | 0    | 0    | 0    | 0    | 0    | ERR  |
| Workstation Shipments      | 0    | 0    | 0    | 0    | 0    | ERR  |
| Workstation Installed Base | 0    | 0    | 0    | 0    | 0    | ERR  |
| Rest of World              |      |      |      |      |      |      |
| Total Revenue              | 0    | 0    | 0    | 0    | 0    | ERR  |
| System Shipments           | 0    | 0    | 0    | 0    | 0    | ERR  |
| Workstation Shipments      | 0    | 0    | 0    | 0    | 0    | ERR  |
| Workstation Installed Base | 0    | 0    | 0    | 0    | 0    | ERR  |
| Standalone                 |      |      |      |      |      |      |
| Total Revenue              | 0    | 0    | 0    | 0    | 0    | ERR  |
| System Shipments           | 0    | 0    | 0    | 0    | 0    | ERR  |
| Workstation Shipments      | 0    | 0    | 0    | 0    | 0    | ERR  |
| Workstation Installed Base | 0    | O-   | 0    | 0    | 0    | ERR  |
| Host-Dependent             |      |      |      |      |      |      |
| Total Revenue              | 0    | 0    | 0    | 0    | 0    | ERR  |
| System Shipments           | 0    | 0    | 0    | 0    | 0    | ERR  |
| Workstation Shipments      | 0    | 0    | 0    | 0    | 0    | ERR  |
| Workstation Installed Base | 0    | 0    | 0    | 0    | 0    | ERR  |
| Personal Computer          |      |      |      |      |      |      |
| Total Revenue              | 0    | 0    | 0    | 0    | 0    | ERR  |
| System Shipments           | 0    | 0    | 0    | 0    | 0    | ERR  |
| Workstation Shipments      | 0    | 0    | 0    | 0    | 0    | ERR  |
| Workstation Installed Base | 0    | 0    | 0    | 0    | 0    | ERR  |

TABLE NUMBER:

C-105

TITLE: COMPANY: APPLICATION: Company History Silvar-Lisco

PPLICATION: All Applications

UNITS:

Millions of Dollars and Actual Units

|                            | 1981 | 1982 | 1983 | 1984 | 1985 | CAGR |
|----------------------------|------|------|------|------|------|------|
|                            | ==== | ==== | 2444 | ==3# | ==== | ==== |
| Worldwide                  |      |      |      |      |      |      |
| Total Revenue              | 0    | 0    | 0    | 0    | 18   | ERR  |
| System Shipments           | Q    | 0    | 0    | 0    | 0    | ERR  |
| Workstation Shipments      | 0    | 0    | 0    | 0    | 0    | ERR  |
| Workstation Installed Base | 0    | 0    | 0    | 0    | 0    | ERR  |
| North America              |      |      |      |      |      |      |
| Total Revenue              | 0    | 0    | 0    | 0    | 8    | ERR  |
| System Shipments           | 0    | 0    | 0    | 0    | 0    | ERR  |
| Workstation Shipments      | 0    | 0    | 0    | 0    | 0    | ERR  |
| Workstation Installed Base | 0    | 0    | 0    | 0    | 0    | ERR  |
| Europe                     |      |      |      |      |      |      |
| Total Revenue              | 0    | 0    | 0    | 0    | 6    | ERR  |
| System Shipments           | 0    | 0    | 0    | 0    | 0    | ERR  |
| Workstation Shipments      | 0    | 0    | 0    | 0    | 0    | ERR  |
| Workstation Installed Base | 0    | 0    | 0    | 0    | 0    | ERR  |
| Far East                   |      |      |      |      |      |      |
| Total Revenue              | 0    | 0    | 0    | 0    | 4    | ERR  |
| System Shipments           | 0    | 0    | 0    | 0    | 0    | ERR  |
| Workstation Shipments      | 0    | 0    | 0    | 0    | 0    | ERR  |
| Workstation Installed Base | 0    | 0    | 0    | 0    | 0    | ERR  |
| Rest of World              |      |      |      |      |      |      |
| Total Revenue              | 0    | 0    | 0    | 0    | 0    | ERR  |
| System Shipments           | 0    | 0    | 0    | 0    | 0    | ERR  |
| Workstation Shipments      | 0    | 0    | 0    | 0    | 0    | ERR  |
| Workstation Installed Base | 0    | 0    | 0    | 0    | 0    | ERR  |
| Standalone                 |      |      |      |      |      |      |
| Total Revenu <del>e</del>  | 0    | 0    | 0    | 0    | 4    | ERR  |
| System Shipments           | 0    | 0    | 0    | 0    | 0    | ERR  |
| Workstation Shipments      | 0    | 0    | 0    | 0    | 0    | ERR  |
| Workstation Installed Base | 0    | 0    | 0    | 0    | 0    | ERR  |
| Kost-Dependent             |      |      |      |      |      |      |
| Total Revenue              | 0    | 0    | 0    | 0    | 15   | ERR  |
| System Shipments           | 0    | 0    | 0    | 0    | 0    | ERR  |
| Workstation Shipments      | 0    | Û    | 0    | 0    | 0    | ERR  |
| Workstation Installed Base | 0    | 0    | 0    | 0    | 0    | ERR  |
| Personal Computer          |      |      |      |      |      |      |
| Total Revenue              | 0    | 0    | 0    | 0    | 0    | ERR  |
| System Shipments           | 0    | 0    | 0    | 0    | 0    | ERR  |
| Workstation Shipments      | 0    | 0    | 0    | 0    | 0    | ERR  |
| Workstation Installed Base | 0    | 0    | 0    | 0    | 0    | ERR  |
|                            |      |      |      |      |      |      |

Source: Dataquest

TABLE NUMBER:

C-106

TITLE: COMPANY: Company History Silvar-Lisco

APPLICATION:

EDA

UNITS:

Millions of Dollars and Actual Units

|                            | 1981 | 1982       | 1983 | 1984 | 1985 | CAGR |
|----------------------------|------|------------|------|------|------|------|
|                            | ==== | <b>===</b> | ==== | ==== | ==== | 3522 |
| Worldwide                  |      |            |      |      |      |      |
| Total Revenue              | 0    | 0          | 0    | 0    | 11   | ERR  |
| System Shipments           | 0    | O.         | 0    | 0    | 0    | ERR  |
| Workstation Shipments      | 0    | 0          | 0    | 0    | 0    | ERR  |
| Workstation Installed Base | 0    | 0          | 0    | 0    | 0    | ERR  |
| North America              |      |            |      |      |      |      |
| Total Revenue              | 0    | 0          | 0    | Đ    | 8    | ERR  |
| System Shipments           | 0    | Q.         | 0    | 0    | 0    | ERR  |
| Workstation Shipments      | 0    | 0          | 0    | 0    | 0    | ERR  |
| Workstation Installed Base | 0    | 0          | 0    | 0    | 0    | ERR  |
| Europe                     |      |            |      |      |      |      |
| Total Revenue              | 0    | 0          | 0    | 0    | 3    | ERR  |
| System Shipments           | 0    | 0          | 0    | 0    | 0    | ERR  |
| Workstation Shipments      | 0    | 0          | 0    | 0    | 0    | ERR  |
| Workstation Installed Base | 0    | 0          | Q    | 0    | 0    | ERR  |
| Far East                   |      |            |      |      |      |      |
| Total Revenue              | 0    | 0          | 0    | 0    | 0    | ERR  |
| System Shipments           | 0    | 0          | 0    | 0    | 0    | ERR  |
| Workstation Shipments      | 0    | 0          | 0    | 0    | 0    | ERR  |
| Workstation Installed Base | 0    | 0          | 0    | 0    | 0    | ERR  |
| Rest of World              |      |            |      |      |      |      |
| Total Revenue              | C    | 0          | 0    | 0    | 0    | ERR  |
| System Shipments           | Q.   | 0          | 0    | 0    | 0    | ERR  |
| Workstation Shipments      | 0    | 0          | 0    | 0    | 0    | ERR  |
| Workstation Installed Base | 0    | 0          | 0    | 0    | 0    | ERR  |
| Standalone                 |      |            |      |      |      |      |
| Total Revenue              | 0    | 0:         | 0    | 0    | 3    | ERR  |
| System Shipments           | Ç    | 0          | 0:   | 0    | 0    | ERR  |
| Workstation Shipments      | 0    | 0          | 0    | 0    | 0    | ERR  |
| Workstation Installed Base | Û    | 0          | 0    | 0    | Q.   | ERR  |
| Host-Dependent             |      |            |      |      |      |      |
| Total Revenue              | 0    | Q          | 0    | 0    | 8    | ERR  |
| System Shipments           | 0    | 0          | 0    | 0    | Q.   | ERR  |
| Workstation Shipments      | 0    | 0          | 0    | 0    | 0    | ERR  |
| Workstation Installed Base | 0    | 0          | 0    | 0    | 0    | ERR  |
| Personal Computer          |      |            |      |      |      |      |
| Total Revenue              | 0    | 0          | 0    | 0    | 0    | ERR  |
| System Shipments           | 0    | Q.         | G    | 0    | 0    | ERR  |
| Workstation Shipments      | 0    | 0          | Đ    | 0    | 0    | ERR  |
| Workstation Installed Base | 0    | 0          | 0    | 0    | O    | ERR  |
|                            |      |            |      |      |      |      |

Source: Dataquest

TABLE NUMBER:

C-107

TITLE:

Company History

COMPANY:

Silvar-Lisco

APPLICATION:

IC

UNITS:

Millions of Dollars and Actual Units

|                            | 1981 | 1982 | 1983 | 1984 | 1985 | CAGR |
|----------------------------|------|------|------|------|------|------|
|                            | ==== | ==== | ==== | ***= | ==== | ==== |
| Worldwide                  |      |      |      |      |      |      |
| Total Revenue              | 0    | 0    | 0    | 0    | 7    | ERR  |
| System Shipments           | 0    | 0    | 0    | 0    | 0    | ERR  |
| Workstation Shipments      | 0    | 0    | 0    | 0    | 0    | ERR  |
| Workstation Installed Base | 0    | 0    | 0    | 0    | 0    | ERR  |
| North America              |      |      |      |      |      |      |
| Total Revenue              | 0    | 0    | 0    | 0    | 1    | ERR  |
| System Shipments           | 0    | 0    | 0    | 0    | 0    | ERR  |
| Workstation Shipments      | 0    | 0    | 0    | 0    | 0    | ERR  |
| Workstation Installed Base | 0    | 0    | 0    | 0    | 0    | ERR  |
| Europe                     |      |      |      |      |      |      |
| Total Revenue              | 0    | 0    | 0    | 0    | 3    | ERR  |
| System Shipments           | 0    | 0    | 0    | 0    | 0    | ERR  |
| Workstation Shipments      | 0    | 0    | 0    | 0    | 0    | ERR  |
| Workstation Installed Base | 0    | 0    | 0    | 0    | 0    | ERR  |
| Far East                   |      |      |      |      |      |      |
| Total Revenue              | 0    | 0    | 0    | 0    | 3    | ERR  |
| System Shipments           | 0    | 0    | 0    | 0    | 0    | ERR  |
| Workstation Shipments      | 0    | 0    | 0    | 0    | 0    | ERR  |
| Workstation Installed Base | 0    | 0    | 0    | 0    | 0    | ERR  |
| Rest of World              |      |      |      |      |      |      |
| Total Revenue              | 0    | Ó    | 0    | 0    | 0    | ERR  |
| System Shipments           | 0    | 0    | 0    | 0    | 0    | ERR  |
| Workstation Shipments      | 0    | 0    | 0    | 0    | 0    | ERR  |
| Workstation Installed Base | 0    | 0    | 0    | 0    | 0    | ERR  |
| Standalone                 |      |      |      |      |      |      |
| Total Revenue              | 0    | 0    | 0    | 0    | 1    | ERR  |
| System Shipments           | 0    | 0    | 0    | 0    | 0    | ERR  |
| Workstation Shipments      | 0    | 0    | 0    | 0    | 0    | ERR  |
| Workstation Installed Base | 0    | 0    | 0    | 0    | 0    | ERR  |
| Host-Dependent             |      |      |      |      |      |      |
| Total Revenue              | 0    | 0    | 0    | 0    | 6    | ERR  |
| System Shipments           | 0    | 0    | 0    | 0    | 0    | ERR  |
| Workstation Shipments      | 0    | 0    | 0    | 0    | 0    | ERR  |
| Workstation Installed Base | 0    | 0    | 0    | 0    | 0    | ERR  |
| Personal Computer          |      |      |      |      |      |      |
| Total Revenue              | 0    | 0    | 0    | 0    | 0    | ERR  |
| System Shipments           | 0    | 0    | 0    | 0    | 0    | ERR  |
| Workstation Shipments      | 0    | 0    | 0    | 0    | 0    | ERR  |
| Workstation Installed Base | 0    | 0    | 0    | 0    | 0    | ERR  |

TABLE NUMBER:

C-108

TITLE:

Company History

COMPANY:

Synercom

APPLICATION:

All Applications

UNITS:

Millions of Dollars and Actual Units

|                             | 1981 | 1982 | 1983 | 1984 | 1985     | CAGR |
|-----------------------------|------|------|------|------|----------|------|
|                             | F=== | ==== | ==== | 222  | BERR     | 2252 |
| Worldwide                   |      |      |      |      |          |      |
| Total Revenue               | 0    | 0    | 0    | 0    | 17       | ERR  |
| System Shipments            | 0    | 0    | 0    | 0    | 0        | ERR  |
| Workstation Shipments       | 0    | 0    | 0    | 0    | 0        | ERR  |
| Workstation Installed Base  | 0    | 0    | 0    | 0    | 0        | ERR  |
| North America               |      |      |      |      |          |      |
| Total Revenue               | 0    | 0    | 0    | 0    | 12       | ERR  |
| System Shipments            | 0    | 0    | 0    | 0    | 0        | ERR  |
| Workstation Shipments       | 0    | 0    | 0    | 0    | 0        | ERR  |
| Workstation Installed Base  | 0    | 0    | 0    | 0    | 0        | ERR  |
| Europe                      |      |      |      |      |          |      |
| Total Revenue               | 0    | 0    | 0    | 0    | 6        | ERR  |
| System Shipments            | 0    | 0    | 0    | 0    | 0        | ERR  |
| Workstation Shipments       | 0    | 0    | 0    | 0    | 0        | ERR  |
| Workstation Installed Base  | 0    | 0    | 0    | 0    | 0        | ERR  |
| far East                    |      |      |      |      |          |      |
| Total Revenue               | 0    | 0    | 0    | 0    | C        | ERR  |
| System Shipments            | 0    | 0    | 0    | 0    | 0        | ERR  |
| Workstation Shipments       | 0    | 0    | 0    | 0    | 0        | ERR  |
| Workstation Installed Base  | 0    | 0    | 0    | 0    | 0        | ERR  |
| Rest of World               |      |      |      |      |          |      |
| Total Revenue               | 0    | 0    | C    | 0    | 0        | ERR  |
| System Shipments            | 0    | 0    | 0    | 0    | 0        | ERR  |
| Workstation Shipments       | 0    | 0    | 0    | 0    | 0        | ERR  |
| Workstation Installed Base  | 0    | 0    | 0    | 0    | 0        | ERR  |
| \$tandalone                 |      |      |      |      |          |      |
| Total Revenue               | 0    | 0    | 0    | 0    | 0        | ERR  |
| System Shipments            | 0    | 0    | 0    | 0    | 0        | ERR  |
| Workstation Shipments       | 0    | 0    | 0    | 0    | 0        | ERR  |
| Workstation Installed Base  | 0    | 0    | 0    | 0    | 0        | ERR  |
| Nost-D <del>epande</del> nt |      |      |      |      |          |      |
| Total Revenue               | 0    | 0    | 0    | 0    | 17       | ERR  |
| System Shipments            | 0    | 0    | 9    | 8    | 0        | ERR  |
| Workstation Shipments       | 0    | 0    | 0    | 0    | <b>Q</b> | ERR  |
| Workstation Installed Base  | 0    | 0    | 0    | 0    | 0        | ERR  |
| Personal Computer           |      |      |      |      |          |      |
| Total Revenue               | 0    | 0    | 0    | 0    | 0        | ERR  |
| System Shipments            | 0    | 0.   | 0    | 0    | 0        | ERR  |
| Workstation Shipments       | 0    | 0    | 0    | 0    | 0        | ERR  |
| Workstation Installed Base  | 0    | Q    | 0    | 0    | 0.       | ERR  |
|                             |      |      |      |      |          |      |

TABLE NUMBER:

C-109

TITLE:

Company History

COMPANY: APPLICATION: Synercom Mapping

UNITS:

Millions of Dollars and Actual Units

|                            | 1981 | 1982 | 1983 | 1984 | 1985 | CAGR |
|----------------------------|------|------|------|------|------|------|
|                            | 3222 | BESE | #### | ==== |      | ==== |
| Worldwide                  |      |      |      |      |      |      |
| Total Revenue              | 0    | 0    | 0    | 0    | 17   | ERR  |
| System Shipments           | 0    | 0    | 0    | 0    | 0    | ERR  |
| Workstation Shipments      | 0    | 0    | 0    | 0    | 0    | ERR  |
| Workstation Installed Base | 0    | 0    | 0    | 0    | ¢    | ERR  |
| North America              |      |      |      |      |      |      |
| Total Revenue              | 0    | 0    | 0    | 0    | 12   | ERR  |
| System Shipments           | 0    | 0    | 0    | 0    | 0    | ERR  |
| Workstation Shipments      | 0    | 0    | 0    | 0    | 0    | ERR  |
| Workstation Installed Base | 0    | 0    | 0    | 0    | 0    | ERR  |
| Europe                     |      |      |      |      |      |      |
| Total Revenue              | 0    | 0    | 0    | 0    | 6    | ERR  |
| System Shipments           | 0    | 0    | 0    | 0    | 0    | ERR  |
| Workstation Shipments      | 0    | 0    | 0    | D    | 0    | ERR  |
| Workstation Installed Base | 0    | 0    | 0    | 0    | 0    | ERR  |
| Far East                   |      |      |      |      |      |      |
| Total Revenue              | 0    | 0    | 0    | 0    | 0    | ERR  |
| System Shipments           | 0    | 0    | 0    | 0    | 0    | ERR  |
| Workstation Shipments      | 0    | 0    | 0    | 0    | 0    | ERR  |
| Workstation Installed Base | 0    | 0    | 0    | 0    | 0    | ERR  |
| Rest of World              |      |      |      |      |      |      |
| Total Revenue              | 0    | 0    | 0    | 0    | 0    | ERR  |
| System Shipments           | 0    | 0    | 0    | 0    | 0    | ERR  |
| Workstation Shipments      | 0    | 0    | 0    | 0    | 0    | ERR  |
| Workstation Installed Base | 0    | 0    | 0    | 0    | 0    | ERR  |
| Standalone                 |      |      |      |      |      |      |
| Total Revenue              | 0    | 0    | 0    | 0    | 0    | ERR  |
| System Shipments           | 0    | 0    | 0    | 0    | 0    | ERR  |
| Workstation Shipments      | 0    | 0    | 0    | 0    | 0    | ERR  |
| Workstation Installed Base | 0    | 0    | 0    | 0    | 0    | ERR  |
| Host-Dependent             |      |      |      |      |      |      |
| Total Revenue              | 0    | 0    | 0    | 0    | 17   | ERR  |
| System Shipments           | 0    | 0    | 0    | 0    | 0    | ERR  |
| Workstation Shipments      | 0    | 0    | 0    | 0    | 0    | ERR  |
| Workstation Installed Base | 0    | 0    | 0    | 0    | 0    | ERR  |
| Personal Computer          |      |      |      |      |      |      |
| Total Revenue              | 0    | 0    | 0    | 0    | 0    | ERR  |
| System Shipments           | 0    | 0    | 0    | 0    | 0    | ERR  |
| Workstation Shipments      | 0    | 0    | 0    | 0    | 0    | ERR  |
| Workstation Installed Base | 0    | 0    | 0    | 0    | 0    | ERR  |
|                            |      |      |      |      |      |      |

TABLE NUMBER:

C-110

TITLE:

Company History

COMPANY:

Tektronix

APPLICATION:

All Applications

UNITS:

Millions of Dollars and Actual Units

|                            | 1981 | 1982 | 1983 | 1984 | 1985 | CAGR |
|----------------------------|------|------|------|------|------|------|
|                            | EREE | 2222 | ==== | ==== |      | ==== |
| Worldwide                  |      |      |      |      |      |      |
| Total Revenue              | 0    | 0    | 0    | 0    | 20   | ERR  |
| System Shipments           | 0    | G    | 0    | 0    | 229  | ERR  |
| Workstation Shipments      | 0    | 0    | 0    | 0    | 283  | ERR  |
| Workstation Installed Base | 0    | 0    | 0    | 0    | 283  | ERR  |
| North America              |      |      |      |      |      |      |
| Total Revenue              | 0    | 0    | 0    | 0    | 17   | ERR  |
| System Shipments           | 0    | 0    | 0    | 0    | 205  | ERR  |
| Workstation Shipments      | 0    | 0    | 0    | 0    | 252  | ERR  |
| Workstation Installed Base | 0    | 0    | 0    | 0    | 252  | ERR  |
| Europe                     |      |      |      |      |      |      |
| Total Revenue              | 0    | 0    | 0    | 0    | 3    | ERR  |
| System Shipments           | 0    | 0    | 0    | 0    | 24   | ERR  |
| Workstation Shipments      | 0    | 0    | 0    | 0    | 30   | ERR  |
| Workstation Installed Base | 0    | 0    | 0    | 0    | 30   | ERR  |
| Far East                   |      |      |      |      |      |      |
| Total Revenue              | 0    | 0    | 0    | 0    | 0    | ERR  |
| System Shipments           | 0    | 0    | 0    | 0    | 0    | ERR  |
| Workstation Shipments      | 0.   | 0    | 0    | 0    | 0    | ERR  |
| Workstation Installed Base | 0    | 0    | 0    | 0    | 0    | ERR  |
| Rest of World              |      |      |      |      |      |      |
| Total Revenue              | 0    | 0    | 0    | 0    | 0    | ERR  |
| System Shipments           | 0    | 0    | 0    | 0    | 0    | ERR  |
| Workstation Shipments      | 0    | 0    | 0    | 0    | 0    | ERR  |
| Workstation Installed Base | 0    | 0    | 0    | 0    | 0    | ERR  |
| Standalone                 |      |      |      |      |      |      |
| Total Revenue              | 0    | 0    | 0    | 0    | 8    | ERR  |
| System Shipments           | 0    | 0    | 0    | 0    | 100  | ERR  |
| Workstation Shipments      | 0    | 0    | 0    | 0    | 100  | ERR  |
| Workstation Installed Base | 0    | 0    | 0    | 0    | 100  | ERR  |
| Nost-Dependent             |      |      |      |      |      |      |
| Total Revenue              | 0    | 0    | 0    | 0    | 8    | ERR  |
| System Shipments           | 0    | 0    | 0    | 0    | 18   | ERR  |
| Workstation Shipments      | 0    | 0    | 0    | 0    | 72   | ERR  |
| Workstation Installed Base | 0    | 0    | 0    | 0    | 72   | ERR  |
| Personal Computer          |      | -    |      |      |      |      |
| Total Revenue              | 0    | 0    | 0    | 0    | 4    | ERR  |
| System Shipments           | 0    | 0    | 0    | 0    | 111  | ERR  |
| Workstation Shipments      | 0    | 0    | 0    | 0    | 111  | ERR  |
| Workstation Installed Base | 0    | 0    | C    | 0    | 111  | ERR  |
|                            |      |      |      |      |      |      |

TABLE NUMBER:

C-111

TITLE:

Company History

COMPANY:

Tektronix

APPLICATION:

ED.

UNITS:

Millions of Dollars and Actual Units

|                            | 1981 | 1982 | 1983 | 1984 | 1985 | CAGR |
|----------------------------|------|------|------|------|------|------|
|                            | **== | ==== | ==== |      | ==== | ==== |
| Worldwide .                |      |      |      |      |      |      |
| Total Revenue              | 0    | 0    | 0    | 0    | 11   | ERR  |
| System Shipments           | 0    | 0    | 0    | 0    | 208  | ERR  |
| Workstation Shipments      | 0    | 0    | 0    | 0    | 208  | ERR  |
| Workstation Installed Base | 0    | 0    | 0    | 0    | 208  | ERR  |
| North America              |      |      |      |      |      |      |
| Total Revenue              | 0    | 0    | 0    | 0    | 10   | ERR  |
| System Shipments           | 0    | 0    | 0    | 0    | 189  | ERR  |
| Workstation Shipments      | 0    | 0    | 0    | 0    | 189  | ERR  |
| Workstation Installed Base | 0    | 0    | 0    | 0    | 189  | ERR  |
| Europe                     |      |      |      |      |      |      |
| Total Revenue              | 0    | 0    | 0    | 0    | 1    | ERR  |
| System Shipments           | 0    | 0    | 0    | 0    | 19   | ERR  |
| Workstation Shipments      | 0    | 0    | 0    | 0    | 19   | ERR  |
| Workstation Installed Base | 0    | 0    | 0    | 0    | 19   | ERR  |
| Far East                   |      |      |      |      |      |      |
| Total Revenue              | 0    | 0    | 0    | 0    | 0    | ERR  |
| System Shipments           | 0    | 0    | 0    | 0    | 0    | ERR  |
| Workstation Shipments      | 0    | 0    | 0    | 0    | 0    | ERR  |
| Workstation Installed Base | 0    | 0    | 0    | 0    | 0    | ERR  |
| Rest of World              |      |      |      |      |      |      |
| Total Revenue              | 0    | 0    | 0    | 0    | 0    | ERR  |
| System Shipments           | 0    | 0    | 0    | 0    | 0    | ERR  |
| Workstation Shipments      | 0    | 0    | 0    | 0    | 0    | ERR  |
| Workstation Installed Base | 0    | 0    | 0    | 0    | 0    | ERR  |
| Standalone                 |      |      |      |      |      |      |
| Total Revenue              | 0    | 0    | 0    | 0    | 7    | ERR  |
| System Shipments           | 0    | 0    | 0    | 0    | 97   | ERR  |
| Workstation Shipments      | 0    | 0    | 0    | 0    | 97   | ERR  |
| Workstation Installed Base | 0    | 0    | 0    | 0    | 97   | ERR  |
| Host-Dependent             |      |      |      |      |      |      |
| Total Revenue              | 0    | 0    | 0    | 0    | 0    | ERR  |
| System Shipments           | 0    | 0    | 0    | 0    | 0    | ERR  |
| Workstation Shipments      | 0    | 0    | 0    | 0    | 0    | ERR  |
| Workstation Installed Base | 0    | 0    | 0    | 0    | 0    | ERR  |
| Personal Computer          |      |      |      |      |      |      |
| Total Revenue              | 0    | 0    | 0    | 0    | 4    | ERR  |
| System Shipments           | 0    | 0    | 0    | 0    | 111  | ERR  |
| Workstation Shipments      | 0    | 0    | 0    | 0    | 111  | ERR  |
| Workstation Installed Base | 0    | 0    | 0    | 0    | 111  | ERR  |
|                            |      |      |      |      |      |      |

Source: Dataquest

TABLE NUMBER:

C-112

TITLE:

Company History

COMPANY:

Tektronix

APPLICATION:

10

UNITS:

Millions of Dollars and Actual Units

|                            | 1981 | 1982 | 1983 | 1984 | 1985 | CAGR |
|----------------------------|------|------|------|------|------|------|
|                            |      | ==== |      | 5222 | THES |      |
| Worldwide                  |      |      |      |      |      |      |
| Total Revenue              | 0    | 0    | 0    | 0    | 3    | ERR  |
| System Shipments           | 0    | 0    | 0    | 0    | 7    | ERR  |
| Workstation Shipments      | 0    | 0    | 0    | 0    | 28   | ERR  |
| Workstation Installed Base | 0    | 0    | 0    | 0    | 28   | ERR  |
| North America              |      |      |      |      |      |      |
| Total Revenue              | 0    | 0    | 0    | 0    | 3    | ERR  |
| System Shipments           | 0    | 0    | 0    | 0    | 6    | ERR  |
| Workstation Shipments      | 0    | 0    | Û    | 0    | 25   | ERR  |
| Workstation Installed Base | 0    | 0    | 0    | 0    | 25   | ERR  |
| Europe                     |      |      |      |      |      |      |
| Total Revenue              | 0    | 0    | 0    | 0    | 0    | ERR  |
| System Shipments           | 0    | Û    | 0    | 0    | 1    | ERR  |
| Workstation Shipments      | 0    | 0    | 0    | 0    | 3    | ERR  |
| Workstation Installed Base | 0    | 0    | 0    | 0    | 3    | ERR  |
| Far East                   |      |      |      |      |      |      |
| Total Revenue              | 0    | 0    | 0    | 0    | 0    | ERR  |
| System Shipments           | 0    | 0    | 0    | 0    | 9    | ERR  |
| Workstation Shipments      | 0    | 0    | 0    | Q    | 0    | ERR  |
| Workstation Installed Base | 0    | 0    | 0    | 0    | 0    | ERR  |
| Rest of World              |      |      |      |      |      |      |
| Total Revenue              | 0    | 0    | 0    | 0    | 0    | ERR  |
| System Shipments           | 0    | 0    | 0    | 0    | 0    | ERR  |
| Workstation Shipments      | 0    | 0    | 0    | 0    | 0    | ERR  |
| Workstation Installed Base | 0    | 0    | 0    | 0    | 0    | ERR  |
| Standalone                 |      |      |      |      |      |      |
| Total Revenue              | 0    | 0    | 0    | 9    | 0    | ERR  |
| System Shipments           | 0    | 0    | 0    | 0    | 0    | ERR  |
| Workstation Shipments      | 0    | 0    | 0    | 0    | 0    | ERR  |
| Workstation Installed Base | Ð    | 0    | 0    | 0    | 0    | ERR  |
| Nost-Dependent             |      |      |      |      |      |      |
| Total Revenue              | 0    | Ũ    | 0    | 0    | 3    | ERR  |
| System Shipments           | 0    | 0    | 0    | 0    | 7    | ERR  |
| Workstation Shipments      | 0    | 0    | 0    | 0    | 28   | ERR  |
| Workstation Installed Base | 0    | Ò    | 0    | 0    | 28   | ERR  |
| Personal Computer          |      |      |      |      |      |      |
| Total Revenue              | 0    | 0    | 0    | 0    | 0    | ERR  |
| System Shipments           | 0    | 0    | 0    | 0    | 0    | ERR  |
| Workstation Shipments      | 0    | 0    | 0    | 0    | 0    | ERR  |
| Workstation Installed Base | 0    | 0    | 0    | ð    | 0    | ERR  |

TABLE NUMBER:

C-113

TITLE:

Company History

COMPANY:

Tektronix

APPLICATION:

PCB

UNITS:

Millions of Dollars and Actual Units

|                            | 1981 | 1982 | 1983         | 1984 | 1985 | CAGR |
|----------------------------|------|------|--------------|------|------|------|
|                            | ==== |      | #== <b>=</b> |      |      | 2552 |
| Worldwide                  |      |      |              |      |      |      |
| Total Revenue              | 0    | 0    | 0            | 0    | 5    | ERR  |
| System Shipments           | 0    | 0    | 0            | 0    | 14   | ERR  |
| Workstation Shipments      | 0    | 0    | 0            | 0    | 46   | ERR  |
| Workstation Installed Base | 0    | 0    | 0            | 0    | 46   | ERR  |
| North America              |      |      |              |      |      |      |
| Total Revenue              | 0    | 0    | 0            | 0    | 4    | ERR  |
| System Shipments           | 0    | 0    | 0            | 0    | 10   | ERR  |
| Workstation Shipments      | 0    | 0    | 0            | 0    | 38   | ERR  |
| Workstation Installed Base | 0    | 0    | 0            | 0    | 38   | ERR  |
| Europe                     |      |      |              |      |      |      |
| Total Revenue              | 0    | 0    | 0            | 0    | 1    | ERR  |
| System Shipments           | 0    | 0    | 0            | 0    | 4    | ERR  |
| Workstation Shipments      | 0    | 0    | 0            | 0    | 8    | ERR  |
| Workstation Installed Base | 0    | 0    | 0            | 0    | 8    | ERR  |
| far East                   |      |      |              |      |      |      |
| Total Revenue              | 0    | 0    | 0            | 0    | 0    | ERR  |
| System Shipments           | 0    | 0    | 0            | 0    | 0    | ERR  |
| Workstation Shipments      | 0    | 0    | 0            | 0    | 0    | ERR  |
| Workstation Installed Base | 0    | 0    | 0            | 0    | 0    | ERR  |
| Rest of World              |      |      |              |      |      |      |
| Total Revenue              | 0    | 0    | 0            | 0    | 0    | ERR  |
| System Shipments           | 0    | 0    | 0            | 0    | 0    | ERR  |
| Workstation Shipments      | 0    | 0    | 0            | 0    | 0    | ERR  |
| Workstation Installed Base | 0    | 0    | 0            | 0    | 0    | ERR  |
| Standalone                 | 395  |      |              |      |      |      |
| Total Revenue              | 0    | 0    | 0            | 0    | 0    | ERR  |
| System Shipments           | 0    | 0    | 0            | 0    | 3    | ERR  |
| Workstation Shipments      | 0    | 0    | 0            | 0    | 3    | ERR  |
| Workstation Installed Base | 0    | 0    | 0            | 0    | 3    | ERR  |
| Host-Dependent             |      |      |              |      |      |      |
| Total Revenue              | 0    | 0    | 0            | 0    | 5    | ERR  |
| System Shipments           | 0    | 0    | 0            | 0    | 11   | ERR  |
| Workstation Shipments      | 0    | 0    | 0            | 0    | 43   | ERR  |
| Workstation Installed Base | 0    | 0    | 0            | 0    | 43   | ERR  |
| Personal Computer          |      |      |              |      |      |      |
| Total Revenue              | 0    | 0    | 0            | 0    | 0    | ERR  |
| System Shipments           | 0    | 0    | 0            | 0    | 0    | ERR  |
| Workstation Shipments      | 0    | 0    | 0            | 0    | 0    | ERR  |
| Workstation Installed Base | 0    | 0    | 0            | 0    | 0    | ERR  |
|                            |      |      |              |      |      |      |

TABLE NUMBER:

C-114

TITLE:

Company History

COMPANY:

Telesis

APPLICATION:

All Applications

UNITS:

Millions of Dollars and Actual Units

|                            | 1981 | 1982 | 1983 | 1984         | 1985 | CAGR |
|----------------------------|------|------|------|--------------|------|------|
|                            | ==== | ***  |      | <b>62</b> == | ==== | ==== |
| Worldwide                  |      |      |      |              |      |      |
| Total Revenue              | Ö    | 0    | 0    | 20           | 15   | ERR  |
| System Shipments           | 0    | 0    | 0    | 230          | 179  | ERR  |
| Workstation Shipments      | 0    | 0    | 0    | 230          | 179  | ERR  |
| Workstation Installed Base | 0    | 0    | 0    | 230          | 409  | ERR  |
| North America              |      |      |      |              |      |      |
| Total Revenue              | 0    | 0    | 0    | 17           | 14   | ERR  |
| System Shipments           | 0    | 0    | 0    | 205          | 163  | ERR  |
| Workstation Shipments      | 0    | 0    | 0    | 205          | 163  | ERR  |
| Workstation Installed Base | 0    | 0    | 0    | 205          | 368  | ERR  |
| Europe                     |      |      |      |              |      |      |
| Total Revenue              | 0    | 0    | 0    | 0            | 1    | ERR  |
| System Shipments           | 0    | 0    | 0    | 4            | 6    | ERR  |
| Workstation Shipments      | 0    | 0    | 0    | 4            | 6    | ERR  |
| Workstation Installed Base | 0    | 0    | 0    | 4            | 10   | ERR  |
| far East                   |      |      |      |              |      |      |
| Total Revenue              | 0    | 0    | 0    | 1            | 1    | ERR  |
| System Shipments           | 0    | 0    | 0    | 9            | 8    | ERR  |
| Workstation Shipments      | 0    | 0    | 0    | 9            | 8    | ERR  |
| Workstation Installed Base | 0    | 0    | 0    | 9            | 17   | ERR  |
| Rest of World              |      |      |      |              |      |      |
| Total Revenue              | 0    | 0    | 0    | 1            | 0    | ERR  |
| System Shipments           | 0    | 0    | 0    | 12           | 2    | ERR  |
| Workstation Shipments      | 0    | 0    | 0    | 12           | 2    | ERR  |
| Workstation Installed Base | 0    | 0    | 0    | 12           | 14   | ERR  |
| Standalone                 |      |      |      |              |      |      |
| Total Revenue              | 0    | 0    | Đ    | 20           | 13   | ERR  |
| System Shipments           | 0    | 0    | 0    | 230          | 104  | ERR  |
| Workstation Shipments      | 0    | 0    | 0    | 230          | 104  | ERR  |
| Workstation Installed Base | 0    | 0    | 0    | 230          | 334  | ERR  |
| Host-Dependent             |      |      |      |              |      |      |
| Total Revenue              | 0    | 0    | 0    | 0            | 0    | ERR  |
| System Shipments           | 0    | Ð    | 0    | 0            | 0    | ERR  |
| Workstation Shipments      | 0    | ٥    | 0    | 0            | 0    | ERR  |
| Workstation Installed Base | 0    | 0    | 0    | 0            | 0    | ERR  |
| Personal Computer          |      |      |      |              |      |      |
| Total Revenue              | 0    | Đ    | Ð    | 0            | 2    | ERR  |
| System Shipments           | 0    | 0    | 0    | 0            | 76   | ERR  |
| Workstation Shipments      | 0    | 0    | 0    | 0            | 76   | ERR  |
| Workstation Installed Base | 0    | 0    | 0    | 0            | 76   | ERR  |

TABLE NUMBER:

C-115

TITLE:

Company History

COMPANY:

Telesis

APPLICATION:

Mechanical

UNITS:

Millions of Dollars and Actual Units

|                            | 1981 | 1982 | 1983 | 1984 | 1985 | CAGR  |
|----------------------------|------|------|------|------|------|-------|
|                            | ==== | ==== |      | **** | ==== |       |
| Worldwide                  |      |      |      |      |      |       |
| Total Revenue              | 0    | 0    | 0    | 2    | 0    | ERR   |
| System Shipments           | 0    | 0    | 0    | 23   | 0    | ERR   |
| Workstation Shipments      | 0    | 0    | 0    | 23   | 0    | ERR   |
| Workstation Installed Base | 0    | 0    | 0    | 23   | 23   | ERR   |
| North America              |      |      |      |      |      |       |
| Total Revenue              | 0    | 0    | 0    | 2    | 0    | ERR   |
| System Shipments           | 0    | 0    | 0    | 21   | 0    | ERR   |
| Workstation Shipments      | 0    | 0    | 0    | 21   | 0    | ERR   |
| Workstation Installed Base | 0    | 0    | 0    | 21   | 21   | ERR   |
| Europe                     |      |      |      |      |      |       |
| Total Revenue              | 0    | 0    | 0    | 0    | 0    | ERR   |
| System Shipments           | 0    | 0    | 0    | 0    | 0    | ERR   |
| Workstation Shipments      | 0    | 0    | 0    | 0    | 0    | ERR   |
| Workstation Installed Base | 0    | 0    | 0    | 0    | 0    | ERR   |
| Far East                   |      |      |      |      |      |       |
| Total Revenue              | Û    | 0    | 0    | 0    | 0    | ERR   |
| System Shipments           | 0    | 0    | 0    | 1    | 0    | ERR   |
| Workstation Shipments      | 0    | 0    | 0    | 1    | 0    | ERR   |
| Workstation Installed Base | 0    | 0    | 0    | 1    | 1    | ERR   |
| Rest of World              |      |      |      |      |      |       |
| Total Revenue              | 0    | 0    | 0    | 0    | 0    | ERR   |
| System Shipments           | 0    | 0    | 0    | 1    | 0    | ERR   |
| Workstation Shipments      | 0    | 0    | 0    | 1    | 0    | ERR   |
| Workstation Installed Base | 0    | 0    | 0    | 1    | 1    | ERR   |
| Standalone                 |      |      |      |      |      |       |
| Total Revenue              | 0    | 0    | 0    | 2    | 0    | ERR   |
| System Shipments           | 0    | 0    | 0    | 23   | 0    | ERR   |
| Workstation Shipments      | 0    | 0    | 0    | 23   | 0    | ERR   |
| Workstation Installed Base | 0    | 0    | 0    | 23   | 23   | ERR   |
| Host-Dependent             |      |      |      |      |      |       |
| Total Revenue              | 0    | 0    | 0    | 0    | 0    | ERR   |
| System Shipments           | 0    | 0    | 0    | 0    | 0    | ERR   |
| Workstation Shipments      | 0    | 0    | 0    | 0    | 0    | ERR   |
| Workstation Installed Base | 0    | 0    | 0    | 0    | 0    | ERR   |
| Personal Computer          | -    | -    | -    | -    | -    |       |
| Total Revenue              | 0    | 0    | 0    | 0    | 0    | ERR   |
| System Shipments           | Ō    | Ō    | 0    | 0    | 0    | ERR   |
| Workstation Shipments      | 0    | 0    | Ŏ    | Ŏ    | 0    | ERR   |
| Workstation Installed Base | ō    | 0    | 0    | 0    | Ō    | ERR   |
|                            | -    | •    | -    | -    | •    | _,,,, |

Source: Dataquest

TABLE NUMBER:

C-116

TITLE:

Company History

COMPANY:

Telesis

APPLICATION:

EDA

UNITS:

Millions of Dollars and Actual Units

|                            | 1981 | 1982 | 1983 | 1984 | 1985 | CAGR |
|----------------------------|------|------|------|------|------|------|
|                            | 2222 |      | 2222 | ==== | ==== | ZZ== |
| <b>Worldwide</b>           |      |      |      |      |      |      |
| Total Revenue              | 0    | 0    | 0    | 0    | 2    | ERR  |
| System Shipments           | 0    | 0    | 0    | 0    | 29   | ERR  |
| Workstation Shipments      | 0    | Q    | 0    | 0    | 29   | ERR  |
| Workstation Installed Base | 0    | 0    | 0    | 0    | 29   | ERR  |
| North America              |      |      |      |      |      |      |
| Total Revenue              | 0    | 0    | O    | 0    | 2    | ERR  |
| System Shipments           | 0    | O.   | 0    | 0    | 27   | ERR  |
| Workstation Shipments      | 0    | 0    | 0    | 0    | 27   | ERR  |
| Workstation Installed Base | 0    | 0    | 0    | 0    | 27   | ERR  |
| Europe                     |      |      |      |      |      |      |
| Total Revenue              | 0    | 0    | 0    | 0    | 0    | ERR  |
| System Shipments           | 0    | 0    | 0    | 0    | 0    | ERR  |
| Workstation Shipments      | 0    | 0    | 0    | 0    | 0    | ERR  |
| Workstation Installed Base | 0    | C    | 0    | 0    | 0    | ERR  |
| Far East                   |      |      |      |      |      |      |
| Total Revenue              | 0    | 0    | 0    | 0    | 0    | ERR  |
| System Shipments           | 0    | 0    | 0    | 0    | 1    | ERR  |
| Workstation Shipments      | 0    | 0    | 0    | 0    | 1    | ERR  |
| Workstation Installed Base | 0    | 0    | 0    | 0    | 1    | ERR  |
| Rest of World              |      |      |      |      |      |      |
| Total Revenue              | 0    | 0    | 0    | 0    | 0    | ERR  |
| System Shipments           | 0    | 0    | 0    | 0    | 0    | ERR  |
| Workstation Shipments      | 0    | 0    | 0    | 0    | 0    | ERR  |
| Workstation Installed Base | 0    | 0    | 0    | 0    | 0    | ERR  |
| Standalone                 |      |      |      |      |      |      |
| Total Revenue              | 0    | 0    | 0    | 0    | 2    | ERR  |
| System Shipments           | 0    | 0    | 0    | 0    | 16   | ERR  |
| Workstation Shipments      | 0    | 0    | 0    | 0    | 16   | ERR  |
| Workstation Installed Base | 0    | 0    | 0    | 0    | 16   | ERR  |
| Host-Dependent             |      |      |      |      |      |      |
| Total Revenue              | 0    | 0    | 0    | 0    | 0    | ERR  |
| System Shipments           | 0    | 0    | 0    | 0    | 0    | ERR  |
| Workstation Shipments      | 0    | 0    | 0    | 0    | 0    | ERR  |
| Workstation Installed Base | 0    | 0    | 0    | 0    | 0    | ERR  |
| Personal Computer          |      |      |      |      |      |      |
| Total Revenue              | 0    | 0    | 0    | 0    | 0    | ERR  |
| System Shipments           | 0    | 0    | 0    | 0    | 13   | ERR  |
| Workstation Shipments      | 0    | 0    | 0    | 0    | 13   | ERR  |
| Workstation Installed Base | 0    | 0    | 0    | 0    | 13   | ERR  |
|                            |      |      |      |      |      |      |

Source: Dataquest

TABLE NUMBER:

C-117

TITLE:

Company History

COMPANY:

Telesis

APPLICATION:

PCB

UNITS:

Millions of Dollars and Actual Units

|                            | 1981 | 1982 | 1983 | 1984        | 1985 | CAGR |
|----------------------------|------|------|------|-------------|------|------|
|                            | FEET | ==== | ==== | ze <b>e</b> | ==== | ==== |
| Worldwide                  |      |      |      |             |      |      |
| Total Revenue              | 0    | 0    | 0    | 18          | 13   | ERR  |
| System Shipments           | 0    | 0    | 0    | 207         | 150  | ERR  |
| Workstation Shipments      | 0    | 0    | 0    | 207         | 150  | ERR  |
| Workstation Installed Base | 0    | 0    | 0    | 207         | 357  | ERR  |
| North America              |      |      |      |             |      |      |
| Total Revenue              | 0    | 0    | 0    | 15          | 11   | ERR  |
| System Shipments           | 0    | 0    | 0    | 184         | 136  | ERR  |
| Workstation Shipments      | 0    | 0    | 0    | 184         | 136  | ERR  |
| Workstation Installed Base | 0    | 0    | 0    | 184         | 320  | ERR  |
| Europe                     |      |      |      |             |      |      |
| Total Revenue              | 0    | 0    | 0    | 0           | 1    | ERR  |
| System Shipments           | 0    | 0    | 0    | 4           | 6    | ERR  |
| Workstation Shipments      | 0    | 0    | 0    | 4           | 6    | ERR  |
| Workstation Installed Base | 0    | 0    | 0    | 4           | 10   | ERR  |
| Far East                   |      |      |      |             |      |      |
| Total Revenue              | 0    | 0    | 0    | 1           | 1    | ERR  |
| System Shipments           | 0    | 0    | 0    | 8           | 7    | ERR  |
| Workstation Shipments      | 0    | 0    | 0    | 8           | 7    | ERR  |
| Workstation Installed Base | 0    | 0    | 0    | 8           | 15   | ERR  |
| Rest of World              |      |      |      |             |      |      |
| Total Revenue              | 0    | 0    | 0    | 1           | 0    | ERR  |
| System Shipments           | 0    | 0    | 0    | 11          | 1    | ERR  |
| Workstation Shipments      | 0    | 0    | 0    | 11          | 1    | ERR  |
| Workstation Installed Base | 0    | 0    | 0    | 11          | 12   | ERR  |
| Standalone                 |      |      |      |             |      |      |
| Total Revenue              | 0    | 0    | 0    | 18          | 11   | ERR  |
| System Shipments           | 0    | 0    | 0    | 207         | 87   | ERR  |
| Workstation Shipments      | 0    | 0    | 0    | 207         | 87   | ERR  |
| Workstation Installed Base | 0    | 0    | 0    | 207         | 294  | ERR  |
| Host-Dependent             |      |      |      |             |      |      |
| Total Revenue              | 0    | 0    | 0    | 0           | 0    | ERR  |
| System Shipments           | 0    | 0    | 0    | 0           | 0    | ERR  |
| Workstation Shipments      | 0    | 0    | 0    | 0           | 0    | ERR  |
| Workstation Installed Base | 0    | 0    | 0    | 0           | 0    | ERR  |
| Personal Computer          |      |      |      |             |      |      |
| Total Revenue              | 0    | 0    | 0    | 0           | 2    | ERR  |
| System Shipments           | 0    | 0    | 0    | 0           | 63   | ERR  |
| Workstation Shipments      | 0    | 0    | 8    | 0           | 63   | ERR  |
| Workstation Installed Base | 0    | 0    | 0    | 0           | 63   | ERR  |
|                            |      |      |      |             |      |      |

TABLE NUMBER:

C-118

TITLE:

Company History

COMPANY:

Valid

APPLICATION:

All Applications

UNITS:

Millions of Dollars and Actual Units

|                            | 1981 | 1982 | 1983 | 1984  | 1985  | CAGR |
|----------------------------|------|------|------|-------|-------|------|
|                            | HERE | 2222 | ==== | #422  |       | ==== |
| <b>Worldwide</b>           |      |      |      |       |       |      |
| Total Revenue              | Q    | 3    | 16   | 48    | 57    | ERR  |
| System Shipments           | 0    | 53   | 325  | 1,020 | 990   | ERR  |
| Workstation Shipments      | 0    | 53   | 325  | 1,020 | 990   | ERR  |
| Workstation Installed Base | 0    | 53   | 355  | 1,376 | 2,288 | ERR  |
| North America              |      |      |      |       |       |      |
| Total Revenue              | 0    | 3    | 13   | 36    | 26    | ERR  |
| System Shipments           | 0    | 53   | 260  | 774   | 696   | ERR  |
| Workstation Shipments      | 0    | 53   | 260  | 774   | 696   | ERR  |
| Workstation Installed Base | 0    | 53   | 310  | 1,069 | 1,686 | ERR  |
| Europe                     |      |      |      |       |       |      |
| Total Revenue              | 0    | 0    | 2    | 10    | 20    | ERR  |
| System Shipments           | 0    | 0    | 49   | 197   | 248   | ERR  |
| Workstation Shipments      | 0    | ٥    | 49   | 197   | 248   | ERR  |
| Workstation Installed Base | 0    | 0    | 29   | 243   | 491   | ERR  |
| Far East                   |      |      |      |       |       |      |
| Total Revenue              | 0    | ٥    | 1    | 2     | 10    | ERR  |
| System Shipments           | 0    | 0    | 16   | 49    | 47    | ERR  |
| Workstation Shipments      | 0    | 0    | 16   | 49    | 47    | ERR  |
| Workstation Installed Base | 0    | 0    | 16   | 64    | 111   | ERR  |
| Rest of World              |      |      |      |       |       |      |
| Total Revenue              | 0    | 0    | 0    | 0     | 0     | ERR  |
| System Shipments           | 0    | 0    | 0    | 0     | 0     | ERR  |
| Workstation Shipments      | 0    | 0    | 0    | 0     | 0     | ERR  |
| Workstation Installed Base | 0    | 0    | 0    | 0     | 0     | ERR  |
| Standalone                 |      |      |      |       |       |      |
| Total Revenue              | 0    | 0    | 16   | 48    | 55    | ERR  |
| System Shipments           | 0    | 0    | 325  | 1,020 | 923   | ERR  |
| Workstation Shipments      | 0    | 0    | 325  | 1,020 | 923   | ERR  |
| Workstation Installed Base | 0    | 0    | 305  | 1,328 | 2,221 | ERR  |
| Host-Dependent             |      |      |      |       |       |      |
| Total Revenue              | 0    | 3    | 0    | 0     | 0     | ERR  |
| System Shipments           | 0    | 53   | 0    | 0     | 0     | ERR  |
| Workstation Shipments      | 0    | 53   | 0    | 0     | 0     | ERR  |
| Workstation Installed Base | 0    | 53   | 50   | 48    | 0     | ERR  |
| Personal Computer          |      |      |      |       |       |      |
| Total Revenue              | 0    | 0    | 0    | 0     | 2     | ERR  |
| System Shipments           | 0    | 0    | 0    | 0     | 67    | ERR  |
| Workstation Shipments      | 0    | 0    | 0    | 0     | 67    | ERR  |
| Workstation Installed Base | 0    | 0    | 0    | 0     | 67    | ERR  |
|                            |      |      |      |       |       |      |

Source: Dataquest

TABLE NUMBER:

C-119

TITLE:

Company History

COMPANY:

Valid

APPLICATION:

EDA

UNITS:

Millions of Dollars and Actual Units

|                            | 1981 | 1982 | 1983 | 1984  | 1985  | CAGR |
|----------------------------|------|------|------|-------|-------|------|
|                            | 2222 | **== | ==== | ====  | ====  | ==== |
| Worldwide                  |      |      |      |       |       |      |
| Total Revenue              | 0    | `3   | 16   | 43    | 49    | ERR  |
| System Shipments           | 0    | 53   | 325  | 933   | 888   | ERR  |
| Workstation Shipments      | 0    | 53   | 325  | 933   | 888   | ERR  |
| Workstation Installed Base | 0    | 53   | 355  | 1,289 | 2,100 | ERR  |
| North America              |      |      |      |       |       |      |
| Total Revenue              | 0    | 3    | 13   | 32    | 22    | ERR  |
| System Shipments           | 0    | 53   | 260  | 708   | 623   | ERR  |
| Workstation Shipments      | 0    | 53   | 260  | 708   | 623   | ERR  |
| Workstation Installed Base | 0    | 53   | 310  | 1,003 | 1,550 | ERR  |
| Europe                     |      |      |      |       |       |      |
| Total Revenue              | 0    | 0    | 2    | 9     | 18    | ERR  |
| System Shipments           | 0    | Ö    | 49   | 180   | 223   | ERR  |
| Workstation Shipments      | 0    | 0    | 49   | 180   | 223   | ERR  |
| Workstation Installed Base | 0    | 0    | 29   | 226   | 449   | ERR  |
| Far East                   |      |      |      |       |       |      |
| Total Revenue              | 0    | 0    | 1    | 2     | 9     | ERR  |
| System Shipments           | 0    | 0    | 16   | 45    | 42    | ERR  |
| Workstation Shipments      | 0    | 0    | 16   | 45    | 42    | ERR  |
| Workstation Installed Base | 0    | 0    | 16   | 60    | 102   | ERR  |
| Rest of World              |      |      |      |       |       |      |
| Total Revenue              | 0    | 0    | 0    | 0     | 0     | ERR  |
| System Shipments           | 0    | 0    | 0    | 0     | 0     | ERR  |
| Workstation Shipments      | 0    | 0    | 0    | 0     | 0     | ERR  |
| Workstation Installed Base | 0    | 0    | 0    | 0     | 0     | ERR  |
| Standalone                 |      |      |      |       |       |      |
| Total Revenue              | 0    | 0    | 16   | 43    | 47    | ERR  |
| System Shipments           | 0    | 0    | 325  | 933   | 832   | ERR  |
| Workstation Shipments      | 0    | 0    | 325  | 933   | 832   | ERR  |
| Workstation Installed Base | 0    | 0    | 305  | 1,241 | 2,045 | ERR  |
| Host-Dependent             |      |      |      |       |       |      |
| Total Revenue              | 0    | 3    | 0    | 0     | 0     | ERR  |
| System Shipments           | 0    | 53   | 0    | 0     | 0     | ERR  |
| Workstation Shipments      | Û    | 53   | 0    | 0     | 0     | ERR  |
| Workstation Installed Base | 0    | 53   | 50   | 48    | 0     | ERR  |
| Personal Computer          |      |      |      |       |       |      |
| Total Revenue              | 0    | 0    | 0    | 0     | 2     | ERR  |
| System Shipments           | 0    | 0    | 0    | 0     | 56    | ERR  |
| Workstation Shipments      | 0    | 0    | 0    | 0     | 56    | ERR  |
| Workstation Installed Base | 0    | 0    | 0    | 0     | 56    | ERR  |
|                            |      |      |      |       |       |      |

Source: Dataquest

TABLE NUMBER:

C-120

TITLE:

Company History

COMPANY:

Valid

APPLICATION:

10

UNITS:

Millions of Dollars and Actual Units

|                            | 1981 | 1982 | 1983 | 1984 | 1985 | CAGR         |
|----------------------------|------|------|------|------|------|--------------|
|                            | -=== | ==== | ==== | **** | *=** | ### <b>#</b> |
| Worldwide                  |      |      |      |      |      |              |
| Total Revenue              | 0    | 0    | 0    | 5    | 8    | ERR          |
| System Shipments           | 0    | 0    | 0    | 87   | 102  | ERR          |
| Workstation Shipments      | 0    | 0    | 0    | 87   | 102  | ERR          |
| Workstation Installed Base | 0    | 0    | 0    | 87   | 187  | ERR          |
| North America              |      |      |      |      |      |              |
| Total Revenue              | 0    | 0    | 0    | 4    | 5    | ERR          |
| System Shipments           | 0    | 0    | 0    | 66   | 72   | ERR          |
| Workstation Shipments      | 0    | 0    | 0    | 66   | 72   | ERR          |
| Workstation Installed Base | 0    | 0    | 0    | 66   | 136  | ERR          |
| Europe                     |      |      |      | •    |      |              |
| Total Revenue              | 0    | 0    | 0    | 1    | 2    | ERR          |
| System Shipments           | 0    | 0    | 0    | 17   | 25   | ERR          |
| Workstation Shipments      | 0    | 0    | 0    | 17   | 25   | ERR          |
| Workstation Installed Base | 0    | 0    | 0    | 17   | 42   | ERR          |
| Far East                   |      |      |      |      |      |              |
| Total Revenue              | 0    | 0    | 0    | 0    | 1    | ERR          |
| System Shipments           | 0    | 0    | 0    | 4    | 5    | ERR          |
| Workstation Shipments      | 0    | 0    | 0    | 4    | 5    | ERR          |
| Workstation Installed Base | 0    | 0    | 0    | 4    | 9    | ERR          |
| Rest of World              |      |      |      |      |      |              |
| Total Revenue              | 0    | 0    | 0    | 0    | 0    | ERR          |
| System Shipments           | 0    | 0    | 0    | 0    | 0    | ERR          |
| Workstation Shipments      | 0    | 0    | 0    | 0    | 0    | ERR          |
| Workstation Installed Base | 0    | 0    | 0    | 0    | 0    | ERR          |
| Standalone                 |      |      |      |      |      |              |
| Total Revenue              | 0    | 0    | 0    | 5    | 8    | ERR          |
| System Shipments           | 0    | 0    | 0    | 87   | 91   | ERR          |
| Workstation Shipments      | 0    | 0    | 0    | 87   | 91   | ERR          |
| Workstation Installed Base | 0    | 0    | 0    | 87   | 176  | ERR          |
| Host-Dependent             |      |      |      |      |      |              |
| Total Revenue              | 0    | 0    | 0    | 0    | 0    | ERR          |
| System Shipments           | 0    | 0    | 0    | 0    | 0    | ERR          |
| Workstation Shipments      | 0    | 0    | 0    | 0    | 0    | ERR          |
| Workstation Installed Base | 0    | 0    | 0    | 0    | 0    | ERR          |
| Personal Computer          |      |      |      |      |      |              |
| Total Revenue              | 0    | 0    | 0    | 0    | 0    | ERR          |
| System Shipments           | 0    | 0    | 0    | 0    | 11   | ERR          |
| Workstation Shipments      | 0    | 0    | 0    | 0    | 11   | ERR          |
| Workstation Installed Base | 0    | 0    | 0    | 0    | 11   | ERR          |
|                            |      |      |      |      |      |              |

Source: Dataquest

TABLE NUMBER:

C-121

TITLE:

Company History

COMPANY:

Zycad

APPLICATION:

All Applications

UNITS:

Millions of Dollars and Actual Units

|                            | 1981 | 1982        | 1983 | 1984 | 1985 | CAGR |
|----------------------------|------|-------------|------|------|------|------|
|                            | ==== | <b>#===</b> | ==== | 쓰코호발 |      | =522 |
| Worldwide                  |      |             |      |      |      |      |
| Total Revenue              | 0    | 0           | 0    | 0    | 26   | ERR  |
| System Shipments           | 0    | 0           | 0    | 0    | 36   | ERR  |
| Workstation Shipments      | 0    | 0           | 0    | 0    | 0    | ERR  |
| Workstation Installed Base | 0    | 0           | 0    | 0    | 0    | ERR  |
| North America              |      |             |      |      |      |      |
| Total Revenue              | 0    | 0           | 0    | 0    | 24   | ERR  |
| System Shipments           | 0    | 0           | 0    | 0    | 33   | ERR  |
| Workstation Shipments      | 0    | 0           | 0    | 0    | 0    | ERR  |
| Workstation Installed Base | 0    | 0           | 0    | 0    | 0    | ERR  |
| Europe                     |      |             |      |      |      |      |
| Total Revenue              | 0    | 0           | 0    | 0    | 2    | ERR  |
| System Shipments           | 0    | 0           | 0    | 0    | 2    | ERR  |
| Workstation Shipments      | 0    | 0           | 0    | 0    | 0    | ERR  |
| Workstation Installed Base | 0    | 0           | 0    | 0    | 0    | ERR  |
| Far East                   |      |             |      |      |      |      |
| Total Revenue              | 0    | 0           | 0    | 0    | 1    | ERR  |
| System Shipments           | 0    | 0           | 0    | 0    | 1    | ERR  |
| Workstation Shipments      | 0    | 0           | 0    | 0    | 0    | ERR  |
| Workstation Installed Base | 0    | 0           | 0    | 0    | 0    | ERR  |
| Rest of World              |      |             |      |      |      |      |
| Total Revenue              | 0    | 0           | 0    | 0    | 0    | ERR  |
| System Shipments           | 0    | 0           | 0    | 0    | 0    | ERR  |
| Workstation Shipments      | 0    | 0           | 0    | 0    | 0    | ERR  |
| Workstation Installed Base | 0    | 0           | 0    | 0    | 0    | ERR  |
| Standalone                 |      |             |      |      |      |      |
| Total Revenue              | 0    | 0           | 0    | 0    | 0    | ERR  |
| System Shipments           | 0    | 0           | 0    | 0    | 0    | ERR  |
| Workstation Shipments      | 0    | 0           | 0    | 0    | 0    | ERR  |
| Workstation Installed Base | 0    | 0           | 0    | 0    | Ō    | ERR  |
| Host-Dependent             |      |             |      |      |      |      |
| Total Revenue              | 0    | 0           | 0    | 0    | 26   | ERR  |
| System Shipments           | 0    | 0           | 0    | 0    | 36   | ERR  |
| Workstation Shipments      | 0    | 0           | 0    | 0    | 0    | ERR  |
| Workstation Installed Base | 0    | 0           | 0    | 0    | 0    | ERR  |
| Personal Computer          |      |             |      |      |      |      |
| Total Revenue              | 0    | 0           | C    | 0    | 0    | ERR  |
| System Shipments           | 0    | 0           | 0    | 0    | 0    | ERR  |
| Workstation Shipments      | 0    | 0           | 0    | 0    | 0    | ERR  |
| Workstation Installed Base | 0    | 0           | 0    | 0    | 0    | ERR  |

TABLE NUMBER:

C-122

TITLE:

Company History

COMPANY:

Zycad

APPLICATION:

EDA

UNITS:

Millions of Dollars and Actual Units

|                            | 1981 | 1982 | 1983 | 1984 | 1985 | CAGR |
|----------------------------|------|------|------|------|------|------|
|                            | ==== | FF== | ==== |      | ==== | ==== |
| Worldwide                  |      |      |      |      |      |      |
| Total Revenue              | 0    | 0    | 0    | 0    | 26   | ERR  |
| System Shipments           | 0    | 0    | 0    | 0    | 36   | ERR  |
| Workstation Shipments      | 0    | 0    | 0    | 0    | 0    | ERR  |
| Workstation Installed Base | 0    | 0    | 0    | 0    | 0    | ERR  |
| North America              |      |      |      |      |      |      |
| Total Revenue              | 0    | 0    | 0    | 0    | 24   | ERR  |
| System Shipments           | 0    | 0    | 0    | 0    | 33   | ERR  |
| Workstation Shipments      | 0    | 0    | 0    | 0    | 0    | ERR  |
| Workstation Installed Base | 0    | 0    | 0    | 0    | 0    | ERR  |
| Europe                     |      |      |      |      |      |      |
| Total Revenue              | 0    | 8    | 0    | 0    | 2    | ERR  |
| System Shipments           | 0    | 0    | 0    | 0    | 2    | ERR  |
| Workstation Shipments      | 0    | 0    | 0    | 0    | 0    | ERR  |
| Workstation Installed Base | 0    | 0    | 0    | 0    | 0    | ERR  |
| far East                   |      |      |      |      |      |      |
| Total Revenue              | 0    | 0    | 0    | 0    | 1    | ERR  |
| System Shipments           | 0    | 0    | 0    | 0    | 1    | ERR  |
| Workstation Shipments      | 0    | 0    | 0    | 0    | 0    | ERR  |
| Workstation Installed Base | 0    | 0    | 0    | 0    | 0    | ERR  |
| Rest of World              |      |      |      |      |      |      |
| Total Revenue              | 0    | 0    | 0    | 0    | 0    | ERR  |
| System Shipments           | 0    | 0    | 0    | 0    | 0    | ERR  |
| Workstation Shipments      | 0    | 0    | 0    | 0    | 0    | ERR  |
| Workstation Installed Base | 0    | 0    | 0    | 0    | 0    | ERR  |
| Standalone                 |      |      |      |      |      |      |
| Total Revenue              | 0    | 0    | 0    | 0    | 0    | ERR  |
| System Shipments           | 0    | 0    | 0    | 0    | 0    | ERR  |
| Workstation Shipments      | 0    | 0    | 0    | 0    | 0    | ERR  |
| Workstation Installed Base | 0    | 0    | 0    | 0    | 0    | ERR  |
| Host-Dependent             |      |      |      |      |      |      |
| Total Revenue              | 0    | 0    | 0    | 0    | 26   | ERR  |
| System Shipments           | O    | 0    | 0    | 0    | 36   | ERR  |
| Workstation Shipments      | Ð    | 0    | 0    | 0    | 0    | ERR  |
| Workstation Installed Base | Ð    | 0    | 0    | 0    | 0    | ERR  |
| Personal Computer          |      |      |      |      |      |      |
| Total Revenue              | 0    | 0    | 0    | 0    | 0    | ERR  |
| System Shipments           | 0    | 0    | 0    | 0    | 0    | ERR  |
| Workstation Shipments      | 0    | 0    | 0    | 0    | C    | ERR  |
| Workstation Installed Base | 0    | 0    | 0    | 0    | 0    | ERR  |

TABLE NUMBER:

C-123

TITLE:

Company History

COMPANY:

Other Computer Companies

APPLICATION:

All Applications

UNITS:

Millions of Dollars and Actual Units

|                            | 1981 | 1982 | 1983 | 1984 | 1985   | CAGR |
|----------------------------|------|------|------|------|--------|------|
|                            | ==== | -    | ==== | ==== | ====   | ==== |
| Worldwide                  |      |      |      |      |        |      |
| Total Revenue              | 0    | 0    | 0    | 0    | 229    | ERR  |
| System Shipments           | 0    | 0    | 0    | 0    | 36,723 | ERR  |
| Workstation Shipments      | 0    | 0    | 0    | 0    | 36,723 | ERR  |
| Workstation Installed Base | 0    | 0    | 0    | 0    | 36,723 | ERR  |
| North America              |      |      |      |      |        |      |
| Total Revenue              | 0    | 0    | 0    | 0    | 158    | ERR  |
| System Shipments           | 0    | 0    | 0    | 0    | 24,702 | ERR  |
| Workstation Shipments      | 0    | 0    | 0    | 0    | 24,702 | ERR  |
| Workstation Installed Base | 0    | 0    | 0    | 0    | 24,702 | ERR  |
| Europe                     |      |      |      |      |        |      |
| Total Revenue              | 0    | 0    | 0    | 6    | 59     | ERR  |
| System Shipments           | 0    | 0    | 0    | 0    | 10,523 | ERR  |
| Workstation Shipments      | 0    | 0    | 0    | 0    | 10,523 | ERR  |
| Workstation Installed Base | 0    | 0    | 0    | 0    | 10,523 | ERR  |
| far East                   |      |      |      |      |        |      |
| Total Revenue              | 0    | 0    | 0    | 0    | 10     | ERR  |
| System Shipments           | 0    | 0    | 0    | 0    | 1,111  | ERR  |
| Workstation Shipments      | 0    | 0    | 0    | 0    | 1,111  | ERR  |
| Workstation Installed Base | 0    | 0    | 0    | 0    | 1,111  | ERR  |
| Rest of World              |      |      |      |      |        |      |
| Total Revenue              | 0    | 0    | 0    | 0    | 2      | ERR  |
| System Shipments           | 0    | 0    | 0    | 0    | 387    | ERR  |
| Workstation Shipments      | 0    | 0    | 0    | 0    | 387    | ERR  |
| Workstation Installed Base | 0    | 0    | 0    | 0    | 387    | ERR  |
| Standalone                 |      |      |      |      |        |      |
| Total Revenue              | 0    | 0    | 0    | 0    | 0      | ERR  |
| System Shipments           | 0    | 0    | 0    | 0    | 0      | ERR  |
| Workstation Shipments      | 0    | 0    | 0    | 0    | 0      | ERR  |
| Workstation Installed Base | 0    | 0    | 0    | 0    | 0      | ERR  |
| Host-Dependent             |      |      |      |      |        |      |
| Total Revenue              | 0    | 0    | 0    | 0    | 0      | ERR  |
| System Shipments           | 0    | 0    | 0    | 0    | 0      | ERR  |
| Workstation Shipments      | 0    | 0    | 0    | 0    | 0      | ERR  |
| Workstation Installed Base | 0    | 0    | 0    | 0    | 0      | ERR  |
| Personal Computer          |      |      |      |      |        |      |
| Total Revenue              | 0    | 0    | 0    | 0    | 229    | ERR  |
| System Shipments           | 0    | 0    | 0    | 0    | 36,723 | ERR  |
| Workstation Shipments      | 0    | 0    | 0    | 0    | 36,723 | ERR  |
| Workstation Installed Base | 0    | 0    | 0    | 0    | 36,723 | ERR  |
|                            |      |      |      |      |        |      |

TABLE NUMBER:

C-124

TITLE:

Company History

COMPANY:

Other Computer Companies

APPLICATION:

Mechanical

UNITS:

Millions of Dollars and Actual Units

|                            | 1981 | 1982 | 1983 | 1984 | 1985   | CAGR  |
|----------------------------|------|------|------|------|--------|-------|
|                            | 2222 |      | ==== | ==== | ====   | BEE=  |
| Worldwide                  |      |      |      |      |        |       |
| Total Revenue              | 0    | 0    | 0    | 0    | 75     | ERR   |
| System Shipments           | 0    | 0    | 0    | 0    | 15,783 | ERR   |
| Workstation Shipments      | 0    | 0    | 0    | 0    | 15,783 | ERR   |
| Workstation Installed Base | 0    | 0    | 0    | 0    | 15,783 | ERR   |
| North America              |      |      |      |      |        |       |
| Total Revenue              | 0    | 0    | 0    | 0    | 43     | ERR   |
| System Shipments           | 0    | 0    | 0    | 0    | 9,256  | ERR   |
| Workstation Shipments      | 0    | 0    | 0    | 0    | 9,256  | ERR   |
| Workstation Installed Base | 0    | 0    | 0    | 0    | 9,256  | ERR   |
| Europe                     |      |      |      |      |        |       |
| Total Revenue              | 0    | 0    | 0    | 0    | 28     | ERR   |
| System Shipments           | 0    | 0    | 0    | 0    | 6,025  | ERR   |
| Workstation Shipments      | 0    | 0    | 0    | 0    | 6,025  | ERR   |
| Workstation Installed Base | 0    | 0    | 0    | 0    | 6,025  | ERR   |
| Far East                   |      |      |      |      |        |       |
| Total Revenue              | 0    | 0    | 0    | 0    | 4      | ERR   |
| System Shipments           | 0    | 0    | 0    | 0    | 444    | ERR   |
| Workstation Shipments      | 0    | 0    | 0    | 0    | 444    | ERR   |
| Workstation Installed Base | 0    | 0    | 0    | 0    | 444    | ERR   |
| Rest of World              |      |      | •    |      |        |       |
| Total Revenue              | 0    | 0    | 0    | 0    | 0      | ERR   |
| System Shipments           | 0    | 0    | 0    | 0    | 59     | ERR   |
| Workstation Shipments      | 0    | 0    | 0    | 0    | 59     | ERR   |
| Workstation Installed Base | 0    | 0    | 0    | 0    | 59     | ERR   |
| Standatione                |      |      |      |      |        |       |
| Total Revenue              | 0    | 0    | 0    | 0    | 0      | ERR   |
| System Shipments           | 0    | 0    | 0    | 0    | 0      | ERR   |
| Workstation Shipments      | 0    | 0    | 0    | 0    | 0      | ERR   |
| Workstation Installed Base | 0    | 0    | 0    | 0    | 0      | ERR   |
| Host-Dependent             |      |      |      |      |        |       |
| Total Revenue              | 0    | 0    | 0    | 0    | 0      | ERR   |
| System Shipments           | 0    | 0    | 0    | 0    | 0      | ERR   |
| Workstation Shipments      | 0    | 0    | 0    | 0    | 0      | ERR   |
| Workstation Installed Base | 0    | 0    | 0    | 0    | 0      | ERR   |
| Personal Computer          |      | -    | -    | _    |        |       |
| Total Revenue              | 0    | 0    | 0    | 0    | 75     | ERR   |
| System Shipments           | Û    | 0    | ō    | ō    | 15,783 | ERR   |
| Workstation Shipments      | ō    | Ō    | 0    | ō    | 15,783 | ERR   |
| Workstation Installed Base | ů    | 0    | 0    | Ö    | 15,783 | ERR   |
|                            | •    | •    | •    | •    | ,      | 41111 |

Source: Dataquest

TABLE NUMBER:

C-125

TITLE:

Company History

COMPANY:

Other Computer Companies

APPLICATION:

AFC

UNITS:

Millions of Dollars and Actual Units

|                            | 1981 | 1982 | 1983 | 1984 | 1985   | CAGR |
|----------------------------|------|------|------|------|--------|------|
|                            | ==== | ==== | 2235 | E222 |        |      |
| Worldwide                  |      |      |      |      |        |      |
| Total Revenue              | 0    | 0    | 0    | 0    | 63     | ERR  |
| System Shipments           | 0    | 0    | 0    | 0    | 10,766 | ERR  |
| Workstation Shipments      | 0    | 0    | 0    | 0    | 10,766 | ERR  |
| Workstation Installed Base | 0    | 0    | 0    | 0    | 10,766 | ERR  |
| North America              |      |      |      |      |        |      |
| Total Revenue              | 0    | 0    | 0    | 0    | 41     | ERR  |
| System Shipments           | 0    | 0    | 0    | 0    | 7,231  | ERR  |
| Workstation Shipments      | 0    | 0    | 0    | 0    | 7,231  | ERR  |
| Workstation Installed Base | 0    | 0    | 0    | 0    | 7,231  | ERR  |
| Europe                     |      |      |      |      |        |      |
| Total Revenue              | 0    | 0    | 0    | 0    | 16     | ERR  |
| System Shipments           | 0    | 0    | 0    | 0    | 2,782  | ERR  |
| Workstation Shipments      | 0    | 0    | 0    | 0    | 2,782  | ERR  |
| Workstation Installed Base | 0    | 0    | 0    | 0    | 2,782  | ERR  |
| Far East                   |      |      |      |      |        |      |
| Total Revenue              | 0    | 0    | 0    | 0    | 4      | ERR  |
| System Shipments           | 0    | 0    | 0    | 0    | 444    | ERR  |
| Workstation Shipments      | Ð    | 0    | 0    | 0    | 444    | ERR  |
| Workstation Installed Base | 0    | 0    | 0    | 0    | 444    | ERR  |
| Rest of World              |      |      |      |      |        |      |
| Total Revenue              | 0    | 0    | 0    | 0    | 2      | ERR  |
| System Shipments           | 0    | 0    | 0    | 0    | 309    | ERR  |
| Workstation Shipments      | 0    | 0    | 0    | 0    | 309    | ERR  |
| Workstation Installed Base | 0    | 0    | 0    | 0    | 309    | ERR  |
| Standalone                 |      |      |      |      |        |      |
| Total Revenue              | 0    | 0    | 0    | 0    | 0      | ERR  |
| System Shipments           | 0    | 0    | 0    | 0    | 0      | ERR  |
| Workstation Shipments      | 0    | 0    | 0    | 0    | 0      | ERR  |
| Workstation Installed Base | 0    | 0    | 0    | 0    | 0      | ERR  |
| Host-Dependent             |      |      |      |      |        |      |
| Total Revenue              | 0    | 0    | 0    | 0    | 0      | ERR  |
| System Shipments           | 0    | 0    | 0    | 0    | 0      | ERR  |
| Workstation Shipments      | 0    | 0    | 0    | 0    | 0      | ERR  |
| Workstation Installed Base | 0    | 0    | 0    | 0    | 0      | ERR  |
| Personal Computer          |      |      |      |      |        |      |
| Total Revenue              | 0    | 0    | 0    | 0    | 63     | ERR  |
| System Shipments           | 0    | 0    | 0    | 0    | 10,766 | ERR  |
| Workstation Shipments      | 0    | 0    | 0    | 0    | 10,766 | ERR  |
| Workstation Installed Base | 0    | 0    | 0    | 0    | 10,766 | ERR  |
|                            |      |      |      |      |        |      |

Source: Dataquest

TABLE NUMBER:

C-126

TITLE:

Company History

COMPANY:

Other Computer Companies

APPLICATION:

Mapping

UNITS:

Millions of Dollars and Actual Units

|                            | 1981 | 1982       | 1983 | 1984 | 1985 | CAGR |
|----------------------------|------|------------|------|------|------|------|
|                            |      | <b>===</b> | Here |      | ==== | ###5 |
| Worldwide                  |      |            |      |      |      |      |
| Total Revenue              | 9    | 0          | 0    | 0    | 1    | ERR  |
| System Shipments           | 0    | 0          | 0    | 0    | 90   | ERR  |
| Workstation Shipments      | 0    | 0          | 0    | 0    | 90   | ERR  |
| Workstation Installed Base | 0    | 0          | 0    | 0    | 90   | ERR  |
| North America              |      |            |      |      |      |      |
| Total Revenue              | 0    | 0          | 0    | 0    | 0    | ERR  |
| System Shipments           | 0    | 0          | 0    | 0    | 47   | ERR  |
| Workstation Shipments      | 0    | 0          | 0    | 0    | 47   | ERR  |
| Workstation Installed Base | 0    | 0          | 0    | 0    | 47   | ERR  |
| Europe                     |      |            |      |      |      |      |
| Total Revenue              | 0    | 0          | 0    | 0    | 0    | ERR  |
| System Shipments           | 0    | 0          | 0    | 0    | 42   | ERR  |
| Workstation Shipments      | 0    | 0          | 0    | 0    | 42   | ERR  |
| Workstation Installed Base | 0    | 0          | 0    | 0    | 42   | ERR  |
| Far East                   |      |            |      |      |      |      |
| Total Revenue              | 0    | 0          | 0    | 0    | 0    | ERR  |
| System Shipments           | 0    | 0          | 0    | 0    | 0    | ERR  |
| Workstation Shipments      | 0    | 0          | 0    | 0    | 0    | ERR  |
| Workstation Installed Base | 0    | 0          | 0    | 0    | 0    | ERR  |
| Rest of World              |      |            |      |      |      |      |
| Total Revenue              | 0    | 0          | 0    | 0    | 0    | ERR  |
| System Shipments           | 0    | 0          | 0    | 0    | 1    | ERR  |
| Workstation Shipments      | 0    | 0          | 0    | 0    | 1    | ERR  |
| Workstation Installed Base | 0    | 0          | 0    | 0    | 1    | ERR  |
| Standalone                 |      |            |      |      |      |      |
| Total Revenue              | 0    | 0          | 0    | 0    | 0    | ERR  |
| System Shipments           | 0    | 0          | 0    | 0    | 0    | ERR  |
| Workstation Shipments      | 0    | 0          | 0    | 0    | 0    | ERR  |
| Workstation Installed Base | 0    | 0          | 0    | 0    | 0    | ERR  |
| Host-Dependent             |      |            |      |      |      |      |
| Total Revenue              | 0    | 0          | 0    | 0    | 0    | ERR  |
| System Shipments           | 0    | 0          | 0    | 0    | 0    | ERR  |
| Workstation Shipments      | 0    | 0          | 0    | 0    | 0    | ERR  |
| Workstation Installed Base | 0    | 0          | 0    | 0    | 0    | ERR  |
| Personal Computer          |      |            |      |      |      |      |
| Total Revenue              | 0    | 0          | 0    | 0    | 1    | ERR  |
| System Shipments           | 0    | 0          | 0    | 0    | 90   | ERR  |
| Workstation Shipments      | 0    | 0          | 0    | 0    | 90   | ERR  |
| Workstation Installed Base | 0    | 0          | 0    | 0    | 90   | ERR  |

TABLE NUMBER:

C-127

TITLE:

Company History

COMPANY:

Other Computer Companies

APPLICATION:

EDA

UNITS:

Millions of Dollars and Actual Units

|                            | 1981 | 1982 | 1983 | 1984 | 1985  | CAGR |
|----------------------------|------|------|------|------|-------|------|
|                            | ==== | ==== | EE== | HESE | ====  | ==== |
| Worldwide                  |      |      |      |      |       |      |
| Total Revenue              | 0    | 0    | 0    | 0    | 79    | ERR  |
| System Shipments           | 0    | 0    | 0    | 0    | 8,785 | ERR  |
| Workstation Shipments      | 0    | 0    | 0    | 0    | 8,785 | ERR  |
| Workstation Installed Base | 0    | 0    | 0    | 0    | 8,785 | ERR  |
| North America              |      |      |      |      |       |      |
| Total Revenue              | 0    | 0    | 0    | 0    | 65    | ERR  |
| System Shipments           | 0    | 0    | 0    | 0    | 7,234 | ERR  |
| Workstation Shipments      | 0    | 0    | 0    | 0    | 7,234 | ERR  |
| Workstation Installed Base | 0    | 0    | 0    | 0    | 7,234 | ERR  |
| Europe                     |      |      |      |      | ·     |      |
| Total Revenue              | 0    | 0    | 0    | 0    | 12    | ERR  |
| System Shipments           | 0    | 0    | 0    | 0    | 1,328 | ERR  |
| Workstation Shipments      | 0    | 0    | 0    | 0    | 1,328 | ERR  |
| Workstation Installed Base | 0    | 0    | 0    | 0    | 1,328 | ERR  |
| Far East                   |      |      |      |      | •     |      |
| Total Revenue              | 0    | 0    | 0    | 0    | 2     | ERR  |
| System Shipments           | 0    | 0    | 0    | 0    | 222   | ERR  |
| Workstation Shipments      | 0    | 0    | 0    | 0    | 222   | ERR  |
| Workstation Installed Base | 0    | 0    | 0    | 0    | 222   | ERR  |
| Rest of World              |      |      |      |      |       |      |
| Total Revenue              | 0    | 0    | 0    | 0    | 0     | ERR  |
| System Shipments           | 0    | 0    | 0    | 0    | 1     | ERR  |
| Workstation Shipments      | 0    | 0    | 0    | 0    | 1     | ERR  |
| Workstation Installed Base | 0    | 0    | 0    | 0    | 1     | ERR  |
| Standalone                 |      |      |      |      |       |      |
| Total Revenue              | 0    | 0    | 0    | 0    | 0     | ERR  |
| System Shipments           | 0    | 0    | 0    | 0    | 0     | ERR  |
| Workstation Shipments      | 0    | 0    | 0    | 0    | 0     | ERR  |
| Workstation Installed Base | 0    | 0    | 0    | 0    | 0     | ERR  |
| Host-Dependent             |      |      |      |      |       |      |
| Total Revenue              | 0    | 0    | 0    | 0    | 0     | ERR  |
| System Shipments           | 0    | 0    | 0    | 0    | 0     | ERR  |
| Workstation Shipments      | 0    | 9    | 0    | 0    | 0     | ERR  |
| Workstation Installed Base | 0    | 0    | 0    | 0    | 0     | ERR  |
| Personal Computer          |      |      |      |      |       |      |
| Total Revenue              | 0    | 0    | 0    | 0    | 79    | ERR  |
| System Shipments           | 0    | 0    | 0    | 0    | 8,785 | ERR  |
| Workstation Shipments      | 0    | 0    | 0    | 0    | 8,785 | ERR  |
| Workstation Installed Base | 0    | 0    | 0    | 0    | 8,785 | ERR  |
|                            |      |      |      |      |       |      |

TABLE NUMBER:

C-128

TITLE:

Company History

COMPANY:

Other Computer Companies

APPLICATION:

10

UNITS:

Millions of Dollars and Actual Units

|                            | 1981 | 1982 | 1983 | 1984 | 1985 | CAGR |
|----------------------------|------|------|------|------|------|------|
|                            | ==== | ==== | ==== | 5533 | ==== | ***  |
| Worldwide                  |      |      |      |      |      |      |
| Total Revenue              | 0    | 0    | 0    | 0    | 1    | ERR  |
| System Shipments           | 0    | 0    | 0    | 0    | 70   | ERR  |
| Workstation Shipments      | 0    | 0    | 0    | 0    | 70   | ERR  |
| Workstation Installed Base | 0    | C    | 0    | 0    | 70   | ERR  |
| North America              |      |      |      |      |      |      |
| Total Revenue              | 0    | 0    | 0    | 0    | 0    | ERR  |
| System Shipments           | 0    | 0    | 0    | 0    | 50   | ERR  |
| Workstation Shipments      | 0    | 0    | 0    | 0    | 50   | ERR  |
| Workstation Installed Base | 0    | 0    | 0    | 0    | 50   | ERR  |
| Europe                     |      |      |      |      |      |      |
| Total Revenue              | 0    | 0    | 0    | 0    | 0    | ERR  |
| System Shipments           | 0    | 0    | 0    | 0    | 13   | ERR  |
| Workstation Shipments      | 0    | 0    | 0    | 0    | 13   | ERR  |
| Workstation Installed Base | 0    | 0    | 0    | 0    | 13   | ERR  |
| far East                   |      |      |      |      |      |      |
| Total Revenue              | 0    | 0    | 0    | 0    | 0    | ERR  |
| System Shipments           | 0    | 0    | 0    | 0    | 0    | ERR  |
| Workstation Shipments      | 0    | 0    | Q    | 0    | Q    | ERR  |
| Workstation Installed Base | 0    | 0    | 0    | 0    | 0    | ERR  |
| Rest of World              |      |      |      |      |      |      |
| Total Revenue              | 0    | 0    | 0    | 0    | 0    | ERR  |
| System Shipments           | 0    | 0    | 0    | 0    | 8    | ERR  |
| Workstation Shipments      | 0    | 0    | 0    | 0    | 8    | ERR  |
| Workstation Installed Base | 0    | 0    | 0    | 0    | 8    | ERR  |
| Standatone                 |      |      |      |      |      |      |
| Total Revenue              | 0    | 0    | 0    | 0    | 0    | ERR  |
| System Shipments           | 0    | 0    | 0    | 0    | 0    | ERR  |
| Workstation Shipments      | 0    | 0    | 0    | 0    | 0    | ERR  |
| Workstation Installed Base | 0    | 0    | 0    | 0    | 0    | ERR  |
| Host-Dependent             |      |      |      |      |      |      |
| Total Revenue              | 0    | 0    | Û    | 0    | 0    | ERR  |
| System Shipments           | 0    | 0    | 0    | 0    | 0    | ERR  |
| Workstation Shipments      | 0    | 0    | 0    | 0    | 0    | ERR  |
| Workstation Installed Base | 0    | 0    | 0    | 0    | 0    | ERR  |
| Personal Computer          |      |      |      |      |      |      |
| Total Revenue              | 0    | 0    | 0    | 0    | 1    | ERR  |
| System Shipments           | 0    | 0    | 0    | 0    | 70   | ERR  |
| Workstation Shipments      | 0    | 0    | 0    | 0    | 70   | ERR  |
| Workstation Installed Base | 0    | 0    | 0    | 0    | 70   | ERR  |
|                            |      |      |      |      |      |      |

TABLE NUMBER:

C-129

TITLE:

Company History

COMPANY:

Other Computer Companies

APPLICATION:

PCB

UNITS:

Millions of Dollars and Actual Units

|                            | 1981 | 1982 | 1983 | 1984 | 1985  | CAGR |
|----------------------------|------|------|------|------|-------|------|
|                            | ==== | 2722 | **** |      |       | ==== |
| Worldwide                  |      |      |      |      |       |      |
| Total Revenue              | 0    | 0    | 0    | 0    | 11    | ERR  |
| System Shipments           | 0    | 0    | 0    | 0    | 1,229 | ERR  |
| Workstation Shipments      | 0    | 0    | 0    | 0    | 1,229 | ERR  |
| Workstation Installed Base | 0    | 0    | 0    | 0    | 1,229 | ERR  |
| North America              |      |      |      |      |       |      |
| Total Revenue              | 0    | 0    | 0    | 0    | . 8   | ERR  |
| System Shipments           | 0    | 0    | 0    | 0    | 886   | ERR  |
| Workstation Shipments      | 0    | 0    | 0    | 0    | 886   | ERR  |
| Workstation Installed Base | 0    | 0    | 0    | 0    | 886   | ERR  |
| Europe                     |      |      |      |      |       |      |
| Total Revenue              | 0    | 0    | 0    | 0    | 3     | ERR  |
| System Shipments           | 0    | 0    | 0    | 0    | 334   | ERR  |
| Workstation Shipments      | 0    | 0    | G    | 0    | 334   | ERR  |
| Workstation Installed Base | 0    | 0    | 0    | 0    | 334   | ERR  |
| Far East                   |      |      |      |      |       |      |
| Total Revenue              | 0    | 0    | 0    | 0    | 0     | ERR  |
| System Shipments           | 0    | 0    | 0    | 0    | 0     | ERR  |
| Workstation Shipments      | 0    | 0    | 0    | 0    | 0     | ERR  |
| Workstation Installed Base | 0    | 0    | 0    | 0    | 0     | ERR  |
| Rest of World              |      |      |      |      |       |      |
| Total Revenue              | 0    | 0    | 0    | 0    | 0     | ERR  |
| System Shipments           | 0    | 0    | 0    | 0    | 9     | ERR  |
| Workstation Shipments      | 0    | 0    | 0    | 0    | 9     | ERR  |
| Workstation Installed Base | 0    | 0    | 0    | 0    | 9     | ERR  |
| Standalone                 |      |      |      |      |       |      |
| Total Revenue              | 0    | 0    | 0    | 0    | 0     | ERR  |
| System Shipments           | 0    | 0    | 0    | 0    | 0     | ERR  |
| Workstation Shipments      | 0    | 0    | 0    | 0    | 0     | ERR  |
| Workstation Installed Base | 0    | 0    | 0    | 0    | 0     | ERR  |
| Host-Dependent             |      |      |      |      |       |      |
| Total Revenue              | 0    | 0    | 0    | 0    | 0     | ERR  |
| System Shipments           | 0    | 0    | 0    | 0 1  | 0     | ERR  |
| Workstation Shipments      | 0    | 0    | 0    | 0    | 0     | ERR  |
| Workstation Installed Base | 0    | 0    | 0    | 0    | 0     | ERR  |
| Personal Computer          |      |      |      |      |       |      |
| Total Revenue              | 0    | 0    | 0    | 0    | 11    | ERR  |
| System Shipments           | 0    | 0    | 0    | 0    | 1,229 | ERR  |
| Workstation Shipments      | 0    | 0    | 0    | 0    | 1,229 | ERR  |
| Workstation Installed Base | 0    | 0    | 0    | 0    | 1,229 | ERR  |
|                            |      |      |      |      |       |      |

TABLE NUMBER:

C-130

TITLE:

Company History

COMPANY:

Other far East Companies

APPLICATION:

Ail Applications

UNITS:

Millions of Dollars and Actual Units

|                            | 1981 | 1982 | 1983 | 1984 | 1985  | CAGR |
|----------------------------|------|------|------|------|-------|------|
|                            | ==== | #### | E352 |      |       |      |
| Worldwide                  |      |      |      |      |       |      |
| Total Revenue              | 0    | 0    | 1    | 0    | 570   | ERR  |
| System Shipments           | 0    | 0    | 1    | 0    | 5,238 | ERR  |
| Workstation Shipments      | 0    | 0    | 8    | 0    | 7,498 | ERR  |
| Workstation Installed Base | 0    | 0    | 6    | 8    | 9,222 | ERR  |
| North America              |      |      |      |      |       |      |
| Total Revenue              | 0    | 0    | 0    | 0    | 0     | ERR  |
| System Shipments           | 0    | 0    | 0    | 0    | 0     | ERR  |
| Workstation Shipments      | 0    | 0    | 0    | 0    | 0     | ERR  |
| Workstation Installed Base | 0    | 0    | 0    | 0    | 0     | ERR  |
| Europe                     |      |      |      |      |       |      |
| Total Revenue              | 0    | 0    | 1    | 0    | Û     | ERR  |
| System Shipments           | 0    | 0    | 1    | 0    | 0     | ERR  |
| Workstation Shipments      | 0    | 0    | 8    | 0    | 0     | ERR  |
| Workstation Installed Base | 0    | 0    | 6    | 8    | 0     | ERR  |
| Far East                   |      |      |      |      |       |      |
| Total Revenue              | 0    | 0    | 0    | 0    | 570   | ERR  |
| System Shipments           | 0    | 0    | 0    | 0    | 5,238 | ERR  |
| Workstation Shipments      | 0    | 0    | 0    | 0    | 7,498 | ERR  |
| Workstation Installed Base | 0    | 0    | 0    | 0    | 9,222 | ERR  |
| Rest of World              |      |      |      |      |       |      |
| Total Revenue              | 0    | 0    | 0    | 0    | 0     | ERR  |
| System Shipments           | 0    | 0    | 0    | 0    | 0     | ERR  |
| Workstation Shipments      | 0    | 0    | 0    | 0    | 0     | ERR  |
| Workstation Installed Base | 0    | 0    | 0    | 0    | 0     | ERR  |
| Standalone                 |      |      |      |      |       |      |
| Total Revenue              | 0    | 0    | 0    | 0    | 42    | ERR  |
| System Shipments           | 0    | 0    | 0    | 0    | 403   | ERR  |
| Workstation Shipments      | 0    | 0    | 0    | 0    | 403   | ERR  |
| Workstation Installed Base | 0    | 0    | 0    | 0    | 549   | ERR  |
| Host-Dependent             |      |      |      |      |       |      |
| Total Revenue              | 0    | 0    | 1    | 0    | 424   | ERR  |
| System Shipments           | 0    | 0    | 1    | 0    | 1,150 | ERR  |
| Workstation Shipments      | 0    | 0    | 8    | 0    | 3,410 | ERR  |
| Workstation Installed Base | 0    | 0    | 6    | 8    | 4,524 | ERR  |
| Personal Computer          |      |      |      |      |       |      |
| Total Revenue              | 0    | 0    | 0    | 0    | 104   | ERR  |
| System Shipments           | . 0  | 0    | 0    | 0    | 3,685 | ERR  |
| Workstation Shipments      | 0    | 0    | 0    | 0    | 3,685 | ERR  |
| Workstation Installed Base | 0    | 0    | 0    | 0    | 4,149 | ERR  |
|                            |      |      |      |      |       |      |

Source: Dataquest

TABLE NUMBER:

C-131

TITLE:

Company History

COMPANY:

Other Far East Companies

APPLICATION:

**Nechanical** 

UNITS:

Millions of Dollars and Actual Units

|                            | 1981 | 1982   | 1983 | 1984 | 1985  | CAGR |
|----------------------------|------|--------|------|------|-------|------|
| ****                       | 2222 | 2322   | ==== | **** | ****  |      |
| Worldwide                  | _    | _      |      | _    |       |      |
| Total Revenue              | 0    | 0      | 1    | 0    | 344   | ERR  |
| System Shipments           | 0    | 0      | 1    | 0    | 3,539 | ERR  |
| Workstation Shipments      | 0    | 0      | 8    | 0    | 4,960 | ERR  |
| Workstation Installed Base | 0    | 0      | 6    | 8    | 6,441 | ERR  |
| North America              |      |        |      |      |       |      |
| Total Revenue              | 0    | 0      | 0    | 0    | 0     | ERR  |
| System Shipments           | 0    | 0      | 0    | 0    | 0     | ERR  |
| Workstation Shipments      | 0    | 0      | 0    | 0    | 0     | ERR  |
| Workstation Installed Base | 0    | 0      | 0    | 0    | 0     | ERR  |
| Europe                     |      |        |      |      |       |      |
| Total Revenue              | 0    | 0      | 1    | 0    | 0     | ERR  |
| System Shipments           | 0    | 0      | 1    | 0    | 0     | ERR  |
| Workstation Shipments      | 0    | 0      | 8    | 0    | 0     | ERR  |
| Workstation Installed Base | 0    | 0      | 6    | 8    | 0     | ERR  |
| Far East                   |      |        |      |      |       |      |
| Total Revenue              | 0    | 0      | 0    | 0    | 344   | ERR  |
| System Shipments           | 0    | 0      | 0    | 0    | 3,539 | ERR  |
| Workstation Shipments      | 0    | 0      | 0    | 0    | 4,960 | ERR  |
| Workstation Installed Base | 0    | 0      | 0    | 0    | 6,441 | ERR  |
| Rest of World              |      |        |      |      |       |      |
| Total Revenue              | 0    | 0      | 0    | 0    | 0     | ERR  |
| System Shipments           | 0    | 0      | 0    | 0    | 0     | ERR  |
| Workstation Shipments      | 0    | 0      | 0    | 0    | 0     | ERR  |
| Workstation Installed Base | 0    | 0      | 0    | 0    | 0     | ERR  |
| Standalone                 |      |        |      |      |       |      |
| Total Revenue              | 0    | 0      | 0    | 0    | 19    | ERR  |
| System Shipments           | 0    | 0      | 0    | 0    | 240   | ERR  |
| Workstation Shipments      | 0    | 0      | 0    | 0    | 240   | ERR  |
| Workstation Installed Base | 0    | 0      | 0    | 0    | 285   | ERR  |
| Host-Dependent             |      |        |      |      |       |      |
| Total Revenue              | 0    | 0      | 1    | 0    | 247   | ERR  |
| System Shipments           | 0    | 0      | 1    | 0    | 657   | ERR  |
| Workstation Shipments      | 0    | 0      | 8    | 0    | 2,079 | ERR  |
| Workstation Installed Base | 0    | 0      | 6    | 8    | 3,207 | ERR  |
| Personal Computer          |      |        | -    | -    |       |      |
| Total Revenue              | 0    | C      | 0    | 0    | 78    | ERR  |
| System Shipments           | ō    | 0      | Õ    | ō    | 2,642 | ERR  |
| Workstation Shipments      | Ö    | Ŏ      | Ŏ    | Ô    | 2,642 | ERR  |
| Workstation Installed Base | Ö    | o<br>o | Õ    | ŏ    | 2,949 | ERR  |
|                            | ٧    |        | ٠    | •    | -1/7/ | -44  |

TABLE NUMBER:

C-132

AEC

TITLE:

Company History

COMPANY:

Other Far East Companies

APPLICATION:

UNITS:

Millions of Dollars and Actual Units

|                            | 1981 | 1982 | 1983 | 1984 | 1985            | CAGR |
|----------------------------|------|------|------|------|-----------------|------|
|                            | #### | -    | REST | EEEE | ====            | ==== |
| Worldwide                  |      |      |      |      |                 |      |
| Total Revenue              | 0    | G    | 0    | O    | 77              | ERR  |
| <b>System</b> Shipments    | 0    | 0    | 0    | 0    | 618             | ERR  |
| Workstation Shipments      | 0    | 0    | 0    | 0    | <del>9</del> 55 | ERR  |
| Workstation Installed Base | 0    | 0    | 0    | 0    | 1,145           | ERR  |
| North America              |      |      |      |      |                 |      |
| Total Revenue              | 0    | 0    | 0    | 0    | O               | ERR  |
| System Shipments           | 0    | 0    | 0    | 0    | O               | ERR  |
| Workstation Shipments      | Đ    | 0    | 0    | 0    | 0               | ERR  |
| Workstation Installed Base | 0    | 0    | 0    | 0    | 0               | ERR  |
| Europe                     |      |      |      |      |                 |      |
| Total Revenue              | 0    | 0    | 0    | 0    | 0               | ERR  |
| System Shipments           | 0    | 0    | 0    | 0    | 0               | ERR  |
| Workstation Shipments      | 0    | 0    | 0    | 0    | 0               | ERR  |
| Workstation Installed Base | 0    | 0    | 0    | 0    | 0               | ERR  |
| Far East                   |      |      |      |      |                 |      |
| Total Revenue              | 0    | 0    | 0    | 0    | 77              | ERR  |
| System Shipments           | 0    | 0    | 0    | 0    | 618             | ERR  |
| Workstation Shipments      | 0    | 0    | 0    | 0    | 955             | ERR  |
| Workstation Installed Base | 0    | 0    | 0    | 0    | 1,145           | ERR  |
| Rest of World              |      |      |      |      |                 |      |
| Total Revenue              | 0    | 0    | 0    | 0    | 0               | ERR  |
| System Shipments           | 0    | 0    | 0    | Q    | 0               | ERR  |
| Workstation Shipments      | 0    | 0    | 0    | 0    | 0               | ERR  |
| Workstation Installed Base | 0    | 0    | 0    | 0    | 0               | ERR  |
| Standatione                |      |      |      |      |                 |      |
| Total Revenue              | 0    | 0    | 0    | 0    | 1               | ERR  |
| System Shipments           | 0    | 0    | 9    | 0    | 10              | ERR  |
| Workstation Shipments      | Ð    | 0    | 0    | 0    | 10              | ERR  |
| Workstation Installed Base | 0    | 0    | 0    | 0    | 10              | ERR  |
| Host-Dependent             |      |      |      |      |                 |      |
| Total Revenue              | 0    | 0    | 0    | 0    | 66              | ERR  |
| System Shipments           | 0    | 0    | 0    | 0    | 200             | ERR  |
| Workstation Shipments      | 0    | 0    | 0    | 0    | 537             | ERR  |
| Workstation Installed Base | 0    | 0    | 0    | 0    | 579             | ERR  |
| Personal Computer          |      |      |      |      |                 |      |
| Total Revenue              | 0    | 0    | 0    | 0    | 11              | ERR  |
| System Shipments           | 0    | 0    | 0    | 0    | 408             | ERR  |
| Workstation Shipments      | 0    | 0    | 0    | 0    | 408             | ERR  |
| Workstation Installed Base | 0    | 0    | 0    | 0    | 556             | ERR  |
|                            |      |      |      |      |                 |      |

Source: Dataquest

TABLE NUMBER:

C-133

TITLE:

Company History

COMPANY:

Other Far East Companies

APPLICATION:

Mapping

UNITS:

Millions of Dollars and Actual Units

|                            | 1981 | 1982 | 1983 | 1984 | 1985 | CAGR |
|----------------------------|------|------|------|------|------|------|
|                            |      | x=== | ==== | EEE2 |      |      |
| Worldwide                  |      |      |      |      |      |      |
| Total Revenue              | 0    | 0    | 0    | 0    | 12   | ERR  |
| System Shipments           | 0    | 0    | 0    | 0    | 29   | ERR  |
| Workstation Shipments      | 0    | 0    | 0    | 0    | 90   | ERR  |
| Workstation Installed Base | 0    | 0    | 0    | 0    | 143  | ERR  |
| North America              |      |      |      |      |      |      |
| Total Revenue              | 0    | 0    | 0    | 0    | 0    | ERR  |
| System Shipments           | 0    | 0    | 0    | 0    | 0    | ERR  |
| Workstation Shipments      | 0    | 0    | 0    | 0    | 0    | ERR  |
| Workstation Installed Base | 0    | 0    | 0    | 0    | 0    | ERR  |
| Europe                     |      |      |      |      |      |      |
| Total Revenue              | 0    | 0    | 0    | 0    | 0    | ERR  |
| System Shipments           | 0    | 0    | 0    | 0    | 0    | ERR  |
| Workstation Shipments      | 0    | 0    | 0    | 0    | 0    | ERR  |
| Workstation Installed Base | 0    | 0    | 0    | 0    | 0    | ERR  |
| Far East                   |      |      |      |      |      |      |
| Total Revenue              | 0    | 0    | 0    | 0    | 12   | ERR  |
| System Shipments           | 0    | 0    | 0    | 0    | 29   | ERR  |
| Workstation Shipments      | 0    | 0    | 0    | 0    | 90   | ERR  |
| Workstation Installed Base | 0    | 0    | 0    | 0    | 143  | ERR  |
| Rest of World              |      |      |      |      |      |      |
| Total Revenue              | 0    | 0    | 0    | 0    | 0    | ERR  |
| System Shipments           | 0    | 0    | 0    | 0    | 0    | ERR  |
| Workstation Shipments      | 0    | 0    | 0    | 0    | 0    | ERR  |
| Workstation Installed Base | 0    | 0    | 0    | 0    | 0    | ERR  |
| Standalone                 |      |      |      |      |      |      |
| Total Revenue              | 0    | 0    | 0    | 0    | 0    | ERR  |
| System Shipments           | 0    | 0    | 0    | 0    | 0    | ERR  |
| Workstation Shipments      | 0    | 0    | 0    | 0    | 0    | ERR  |
| Workstation Installed Base | 0    | 0    | 0    | 0    | 0    | ERR  |
| Host-Dependent             |      |      |      |      |      |      |
| Total Revenue              | 0    | 0    | 0    | 0    | 12   | ERR  |
| System Shipments           | 0    | 0    | 0    | 0    | 27   | ERR  |
| Workstation Shipments      | 0    | 0    | 0    | 0    | 88   | ERR  |
| Workstation Installed Base | 0    | 0    | 0    | 0    | 132  | ERR  |
| Personal Computer          |      |      |      |      |      |      |
| Total Revenue              | 0    | 0    | 0    | 0    | 0    | ERR  |
| System Shipments           | 0    | 0    | 0    | 0    | 2    | ERR  |
| Workstation Shipments      | 0    | 0    | 0    | 0    | 2    | ERR  |
| Workstation Installed Base | 0    | 0    | 0    | 0    | 11   | ERR  |
|                            |      |      |      |      |      |      |

Source: Dataquest

TABLE NUMBER:

C-134

:3JTIT

Company History

COMPANY:

Other Far East Companies

APPLICATION:

EDA

UNITS:

Millions of Dollars and Actual Units

|                            | 1981         | 1982 | 1983 | 1984 | 1985 | CAGR |
|----------------------------|--------------|------|------|------|------|------|
|                            | <b>384</b> W | ==== | ==== | ==== | EE22 | EEE: |
| Worldwide                  |              |      |      |      |      |      |
| Total Revenue              | 0            | 0    | 0    | 0    | 20   | ERR  |
| System Shipments           | ð            | 0    | 0    | 0    | 287  | ERR  |
| Workstation Shipments      | 0            | 0    | 0    | 0    | 322  | ERR  |
| Workstation Installed Base | 0            | 0    | 0    | Ç    | 382  | ERR  |
| North America              |              |      |      |      |      |      |
| Total Revenue              | C            | 0    | 0    | 0    | 0    | ERR  |
| System Shipments           | G            | 0    | 0    | 0    | 0    | ERR  |
| Workstation Shipments      | 0            | 0    | 0    | 0    | 0    | ERR  |
| Workstation Installed Base | 0            | 0    | 0    | 0    | 0    | ERR  |
| Europe                     |              |      |      |      |      |      |
| Total Revenue              | 0            | 0    | 0    | 0    | 0    | ERR  |
| System Shipments           | 0            | 0    | 0    | 0    | 0    | ERR  |
| Workstation Shipments      | 0            | 0    | 0    | 0    | 0    | ERR  |
| Workstation Installed Base | 0            | 0    | 0    | 0    | 0    | ERR  |
| Fer East                   |              |      |      |      |      |      |
| Total Revenue              | 0            | 0    | 0    | 0    | 20   | ERR  |
| System Shipments           | 0            | 0    | 0    | 0    | 287  | ERR  |
| Workstation Shipments      | 0            | 0    | 0    | 0    | 322  | ERR  |
| Workstation Installed Base | 0            | 0    | 0    | G.   | 382  | ERR  |
| Rest of World              |              |      |      |      |      |      |
| Total Revenue              | 0            | 0    | 0    | 0    | 0    | ERR  |
| System Shipments           | 0            | 0    | 0    | 0    | 0    | ERR  |
| Workstation Shipments      | 0            | 0    | 0    | 0    | 0    | ERR  |
| Workstation Installed Base | 0            | 0    | 0    | 0    | 0    | ERR  |
| Standalone                 |              |      |      |      |      |      |
| Total Revenue              | 0            | 0    | 0    | 0    | 2    | ERR  |
| System Shipments           | 0            | 0    | 0    | 0    | 38   | ERR  |
| Workstation Shipments      | 0            | 0    | 0    | . 0  | 38   | ERR  |
| Workstation Installed Base | 0            | 0    | 0    | 0    | 98   | ERR  |
| Host-Dependent             |              |      |      |      |      |      |
| Total Revenue              | 0            | 0    | 0    | 0    | 8    | ERR  |
| System Shipments           | 0            | 0    | 0    | 0    | 16   | ERR  |
| Workstation Shipments      | 0            | Ð    | 0    | 0    | 51   | ERR  |
| Workstation Installed Base | 0            | 0    | 0    | 0    | 51   | ERR  |
| Personal Computer          |              |      |      |      |      |      |
| Total Revenue              | 0            | 0    | 0    | C    | 10   | ERR  |
| System Shipments           | 0            | 0    | 0    | 0    | 233  | ERR  |
| Workstation Shipments      | 0            | 0    | 0    | 0    | 233  | ERR  |
| Workstation Installed Base | Đ            | 0    | 0    | 0    | 233  | ERR  |
|                            |              |      |      |      |      |      |

TABLE NUMBER:

C-135

TITLE:

Company Kistory

COMPANY:

Other Far East Companies

APPLICATION:

UNITS:

Millions of Dollars and Actual Units

|                            | 1981 | 1982 | 1983 | 1984 | 1985 | CAGR |
|----------------------------|------|------|------|------|------|------|
|                            | 2222 | ==== | **** |      | -    | -    |
| Worldwide                  |      |      |      |      |      |      |
| Total Revenue              | 0    | 0    | 0    | 0    | 21   | ERR  |
| System Shipments           | 0    | 0    | 0    | 0    | 74   | ERR  |
| Workstation Shipments      | 0    | 0    | 0    | 0    | 178  | ERR  |
| Workstation Installed Base | 0    | 0    | 0    | 0    | 178  | ERR  |
| North America              |      |      |      |      |      |      |
| Total Revenue              | 0    | 0    | 0    | 0    | 0    | ERR  |
| System Shipments           | 0    | 0    | 0    | 0    | 0    | ERR  |
| Workstation Shipments      | 0    | 0    | 0    | 0    | 0    | ERR  |
| Workstation Installed Base | 0    | 0    | 0    | 0    | 0    | ERR  |
| Europe                     |      |      |      |      |      |      |
| Total Revenue              | 0    | 0    | 0    | 0    | 0    | ERR  |
| System Shipments           | 0    | 0    | 0    | 0    | 0    | ERR  |
| Workstation Shipments      | 0    | 0    | 0    | 0    | 0    | ERR  |
| Workstation Installed Base | 0    | 0    | 0    | 0    | 0    | ERR  |
| Fer East                   |      |      |      |      |      |      |
| Total Revenue              | 0    | 0    | 0    | 0    | 21   | ERR  |
| System Shipments           | 0    | 0    | 0    | 0    | 74   | ERR  |
| Workstation Shipments      | 0    | 0    | 0    | 0    | 178  | ERR  |
| Workstation Installed Base | 0    | 0    | C    | 0    | 178  | ERR  |
| Rest of World              |      |      |      |      |      |      |
| Total Revenue              | 0    | 0    | 0    | 0    | 0    | ERR  |
| System Shipments           | 0    | 0    | 0    | 0    | 0    | ERR  |
| Workstation Shipments      | 0    | 0    | 0    | 0    | 0    | ERR  |
| Workstation Installed Base | 0    | 0    | 0    | 0    | 0    | ERR  |
| Standal one                |      |      |      |      |      |      |
| Total Revenue              | 0    | 0    | 0    | 0    | 2    | ERR  |
| System Shipments           | 0    | 0    | 0    | 0    | 25   | ERR  |
| Workstation Shipments      | 0    | 0    | 0    | 0    | 25   | ERR  |
| Workstation Installed Base | 0    | 0    | 0    | 0    | 25   | ERR  |
| Host-Dependent             |      |      |      |      |      |      |
| Total Revenue              | 0    | 0    | 0    | 0    | 19   | ERR  |
| System Shipments           | 0    | 0    | 0    | 0    | 47   | ERR  |
| Workstation Shipments      | 0    | 0    | 0    | 0    | 151  | ERR  |
| Workstation Installed Base | 0    | 0    | 0    | 0    | 151  | ERR  |
| Personal Computer          |      |      |      |      |      |      |
| Total Revenue              | 0    | 0    | 0    | 0    | 0    | ERR  |
| System Shipments           | 0    | 0    | 0    | 0    | 2    | ERR  |
| Workstation Shipments      | 0    | 0    | 0    | 0    | 2    | ERR  |
| Workstation Installed Base | 0    | 0    | 0    | 0    | 2    | ERR  |
|                            |      |      |      |      |      |      |

TABLE NUMBER:

C-136

TITLE:

Company History

COMPANY:

Other far East Companies

APPLICATION:

PCB

UNITS:

Millions of Dollars and Actual Units

|                            | 1981 | 1982 | 1983 | 1984 | 1985 | CAGR |
|----------------------------|------|------|------|------|------|------|
|                            | *==# |      | ***  | ==== | 2222 | 32F= |
| Worldwide                  |      |      |      |      |      |      |
| Total Revenue              | 0    | 0    | 0    | 0    | 96   | ERR  |
| System Shipments           | 0    | 0    | 0    | 0    | 690  | ERR  |
| Workstation Shipments      | 0    | 0    | 0    | Û    | 992  | ERR  |
| Workstation Installed Base | 0    | 0    | 0    | 0    | 932  | ERR  |
| North America              |      |      |      |      |      |      |
| Total Revenue              | Û    | 0    | 0    | 0    | 0    | ERR  |
| System Shipments           | 0    | 0    | 0    | 0    | 0    | ERR  |
| Workstation Shipments      | 0    | 0    | 0    | 0    | 0    | ERR  |
| Workstation Installed Base | 0    | 0    | 0    | 0    | 0    | ERR  |
| Europe                     |      |      |      |      |      |      |
| Total Revenue              | 0    | 0    | 0    | 0    | 0    | ERR  |
| System Shipments           | 0    | 0    | 0    | 0    | 0    | ERR  |
| Workstation Shipments      | 0    | 0    | 0    | 0    | 0    | ERR  |
| Workstation Installed Base | 0    | 0    | 0    | 0    | 0    | ERR  |
| Far East                   |      |      |      |      |      |      |
| Total Revenue              | 0    | 0    | 0    | 0    | 96   | ERR  |
| System Shipments           | 0    | 0    | 0    | 0    | 690  | ERR  |
| Workstation Shipments      | 0    | 0    | 0    | 0    | 992  | ERR  |
| Workstation Installed Base | 0    | 0    | 0    | 0    | 932  | ERR  |
| Rest of World              |      |      |      |      |      |      |
| Total Revenue              | 0    | 0    | 0    | 0    | 0    | ERR  |
| System Shipments           | 0    | . 0  | 0    | 0    | 0    | ERR  |
| Workstation \$hipments     | 0    | 0    | 0    | 0    | 0    | ERR  |
| Workstation Installed Base | 0    | 0    | 0    | 0    | 0    | ERR  |
| Standalone                 |      |      |      |      |      |      |
| Total Revenue              | 0    | 0    | 0    | 0    | 19   | ERR  |
| System Shipments           | 0    | 0    | 0    | 0    | 90   | ERR  |
| Workstation Shipments      | 0    | 0    | Đ    | 0    | 90   | ERR  |
| Workstation Installed Base | 0    | G    | 0    | 0    | 130  | ERR  |
| Host-Dependent             |      |      |      |      |      |      |
| Total Revenue              | 0    | 0    | 0    | 0    | 72   | ERR  |
| System Shipments           | 0    | 0    | 0    | 0    | 202  | ERR  |
| Workstation Shipments      | Ð    | . 0  | 0    | 0    | 504  | ERR  |
| Workstation Installed Base | 0    | 0    | 0    | 0    | 404  | ERR  |
| Personal Computer          |      |      |      |      |      |      |
| Total Revenue              | 0    | 0    | 0    | 0    | 5    | ERR  |
| System Shipments           | 0    | 0    | 0    | 0    | 398  | ERR  |
| Workstation Shipments      | 0    | 0    | 0    | 0    | 398  | ERR  |
| Workstation Installed Base | 0    | 0    | 0    | 0    | 398  | ERR  |
|                            |      |      |      |      |      |      |

Source: Dataquest

TABLE NUMBER:

APPLICATION:

C-137

TITLE: COMPANY: Company History
Other Europe Companies

All Applications

UNITS:

Millions of Dollars and Actual Units

|                            | 1981 | 1982 | 1983 | 1984 | 1985  | CAGR |
|----------------------------|------|------|------|------|-------|------|
|                            | BEET | ==== | ==== | 2222 | ====  | ==== |
| Wortdwide                  |      |      |      |      |       |      |
| Total Revenue              | 0    | 0    | 0    | 0    | 228   | ERR  |
| System Shipments           | 0    | 0    | 0    | 0    | 6,079 | ERR  |
| Workstation Shipments      | 0    | 0    | 0    | 0    | 7,105 | ERR  |
| Workstation Installed Base | 0    | 0    | 0    | 0    | 7,105 | ERR  |
| North America              |      |      |      |      |       |      |
| Total Revenue              | 0    | 0    | 0    | 0    | 0     | ERR  |
| System Shipments           | 0    | 0    | 0    | 0    | 0     | ERR  |
| Workstation Shipments      | 0    | 0    | 0    | 0    | 0     | ERR  |
| Workstation Installed Base | 0    | 0    | 0    | 0    | 0     | ERR  |
| Europe                     |      |      |      |      |       |      |
| Total Revenue              | 0    | 0    | 0    | 0    | 228   | ERR  |
| System Shipments           | 0    | 0    | 0    | 0    | 6,079 | ERR  |
| Workstation Shipments      | 0    | 0    | 0    | 0    | 7,105 | ERR  |
| Workstation Installed Base | 0    | 0    | 0    | 0    | 7,105 | ERR  |
| Far East                   |      |      |      |      |       |      |
| Total Revenue              | 0    | 0    | 0    | 0    | 0     | ERR  |
| System Shipments           | Ç    | 0    | 0    | 0    | 0     | ERR  |
| Workstation Shipments      | 0    | 0    | 0    | 0    | 0     | ERR  |
| Workstation Installed Base | 0    | 0    | 0    | 0    | 0     | ERR  |
| Rest of World              |      |      |      |      |       |      |
| Total Revenue              | 0    | 0    | 0    | 0    | 0     | ERR  |
| System Shipments           | 0    | 0    | 0    | 0    | 0     | ERR  |
| Workstation Shipments      | 0    | 0    | 0    | 0    | 0     | ERR  |
| Workstation Installed Base | 0    | 0    | 0    | 0    | 0     | ERR  |
| Standalone                 |      |      |      |      |       |      |
| Total Revenu <del>e</del>  | 0    | 0    | 0    | 0    | 61    | ERR  |
| System Shipments           | 0    | 0    | 0    | 0    | 1,005 | ERR  |
| Workstation Shipments      | 0    | 0    | 0    | 0    | 1,005 | ERR  |
| Workstation Installed Base | 0    | 0    | 0    | 0    | 1,005 | ERR  |
| Host-Dependent .           |      |      |      |      |       |      |
| Total Revenue              | 0    | 0    | 0    | 0    | 131   | ERR  |
| System Shipments           | 0    | 0    | 0    | 0    | 385   | ERR  |
| Workstation Shipments      | 0    | 0    | 0    | 0    | 1,411 | ERR  |
| Workstation Installed Base | 0    | 0    | 0    | 0    | 1,411 | ERR  |
| Personal Computer          |      |      |      |      |       |      |
| Total Revenue              | 0    | 0    | 0    | 0    | 35    | ERR  |
| System Shipments           | 0    | 0    | 0    | 0    | 4,689 | ERR  |
| Workstation Shipments      | 0    | 0    | 0    | 0    | 4,689 | ERR  |
| Workstation Installed Base | 0    | 0    | 0    | 0    | 4,689 | ERR  |
|                            |      |      |      |      |       |      |

TABLE NUMBER:

C-138

TITLE:

Company History

COMPANY:

Other Europe Companies

APPLICATION:

Mechanical

UNITS:

Millions of Dollars and Actual Units

|                            | 1981 | 1982 | 1983 | 1984 | 1985  | CAGR |
|----------------------------|------|------|------|------|-------|------|
|                            |      | IZZZ | ==== | ==== | ====  | HEE  |
| <b>Worldwide</b>           |      |      |      |      |       |      |
| Total Revenue              | Đ    | 0    | 0    | 0    | 130   | ERR  |
| System Shipments           | 0    | 0    | 0    | 0    | 3,766 | ERR  |
| Workstation Shipments      | 0    | 0    | 0    | 0    | 4,447 | ERR  |
| Workstation Installed Base | 0    | 0    | 0    | 0    | 4,447 | ERR  |
| North America              |      |      |      |      |       |      |
| Totał Revenue              | 0    | 0    | 0    | 0    | 0     | ERR  |
| System Shipments           | 0    | 0    | 0    | 0    | 0     | ERR  |
| Workstation Shipments      | 0    | 0    | 0    | 0    | 0     | ERR  |
| Workstation Installed Base | 0    | 0    | 0    | 0    | 0     | ERR  |
| Europe                     |      |      |      |      |       |      |
| Total Revenue              | 0    | 0    | 0    | 0    | 130   | ERR  |
| System Shipments           | 0    | 0    | 0    | 0    | 3,766 | ERR  |
| Workstation Shipments      | 0    | 0    | 0    | 0    | 4,447 | ERR  |
| Workstation Installed Base | 0    | 0    | 0    | 0    | 4,447 | ERR  |
| Far East                   |      |      |      |      |       |      |
| Total Revenue              | 0    | 0    | 0    | 0    | 0     | ERR  |
| System Shipments           | 0    | 0    | 0    | 0    | 0     | ERR  |
| Workstation Shipments      | 0    | 0    | 0    | 0    | 0     | ERR  |
| Workstation Installed Base | G    | 0    | 0    | 0    | 0     | ERR  |
| Rest of World              |      |      |      |      |       |      |
| Total Revenue              | 0    | 0    | 0    | 0    | 0     | ERR  |
| System Shipments           | 0    | 0    | 0    | 0    | 0     | ERR  |
| Workstation Shipments      | 0    | 0    | 0    | 0    | 0     | ERR  |
| Workstation Installed Base | 0    | 0    | 0    | 0    | 0     | ERR  |
| Standalone                 |      |      |      |      |       |      |
| Total Revenue              | 0    | 0    | 0    | 0    | 30    | ERR  |
| System Shipments           | 0    | 0    | 0    | 0    | 599   | ERR  |
| Workstation Shipments      | 0    | 0    | 0    | 0    | 599   | ERR  |
| Workstation Installed Base | 0    | 0    | 0    | 0    | 599   | ERR  |
| Host-Dependent             |      |      |      |      |       |      |
| Total Revenue              | 0    | 0    | 0    | 0    | 76    | ERR  |
| System Shipments           | 0    | 0    | 0    | 0    | 238   | ERR  |
| Workstation Shipments      | 0    | 0    | 0    | 0    | 919   | ERR  |
| Workstation Installed Base | 0    | 0    | 0    | 0    | 919   | ERR  |
| Personal Computer          |      |      |      |      |       |      |
| Total Revenue              | 0    | 0    | 0    | 0    | 23    | ERR  |
| System Shipments           | 0    | 0    | 0    | 0    | 2,930 | ERR  |
| Workstation Shipments      | 0    | 0    | 0    | 0    | 2,930 | ERR  |
| Workstation Installed Base | 0    | 0    | 0    | 0    | 2,930 | ERR  |
|                            |      |      |      |      |       |      |

TABLE NUMBER:

C-139

TITLE:

Company History

COMPANY:

Other Europe Companies

APPLICATION:

AEC

UNITS:

Millions of Dollars and Actual Units

|                            | 1981 | 1982 | 1983 | 1984 | 1985  | CAGR |
|----------------------------|------|------|------|------|-------|------|
|                            |      | ==== | ==== | ***  | ====  | EEEE |
| Worldwide '                |      |      |      |      |       |      |
| Total Revenue              | 0    | 0    | 0    | 0    | 32    | ERR  |
| System Shipments           | 0    | 0    | 0    | 0    | 1,316 | ERR  |
| Workstation Shipments      | 0    | 0    | 0    | 0    | 1,495 | ERR  |
| Workstation Installed Base | 0    | 0    | 0    | 0    | 1,495 | ERR  |
| North America              |      |      |      |      |       |      |
| Total Revenue              | 0    | 0    | 0    | 0    | 0     | ERR  |
| System Shipments           | 0    | 0    | 0    | 0    | 0     | ERR  |
| Workstation Shipments      | 0    | 0    | 0    | 0    | 0     | ERR  |
| Workstation Installed Base | 0    | 0    | 0    | 0    | 0     | ERR  |
| Europe                     |      |      |      |      |       |      |
| Total Revenue              | 0    | 0    | 0    | 0    | 32    | ERR  |
| System Shipments           | 0    | 0    | 0    | 0    | 1,316 | ERR  |
| Workstation Shipments      | 0    | 0    | 0    | 0    | 1,495 | ERR  |
| Workstation Installed Base | 0    | 0    | 0    | 0    | 1,495 | ERR  |
| Far East                   |      |      |      |      |       |      |
| Total Revenue              | 0    | 0    | 0    | 0    | 0     | ERR  |
| System Shipments           | 0    | 0    | 0    | 0    | 0     | ERR  |
| Workstation Shipments      | 0    | 0    | 0    | 0    | 0     | ERR  |
| Workstation Installed Base | 0    | 0    | 0    | 0    | 0     | ERR  |
| Rest of World              |      |      |      |      |       |      |
| Total Revenue              | 0    | 0    | 0    | 0    | 0     | ERR  |
| System Shipments           | 0    | 0    | 0    | 0    | 0     | ERR  |
| Workstation Shipments      | 0    | 0    | 0    | 0    | 0     | ERR  |
| Workstation Installed Base | 0    | 0    | 0    | 0    | 0     | ERR  |
| Standalone                 |      |      |      |      |       |      |
| Total Revenue              | 0    | 0    | 0    | 0    | 7     | ERR  |
| System Shipments           | 0    | 0    | 0    | 0    | 137   | ERR  |
| Workstation Shipments      | 0    | 0    | 0    | 0    | 137   | ERR  |
| Workstation Installed Base | 0    | 0    | 0    | 0    | 137   | ERR  |
| Host-Dependent             |      |      |      |      |       |      |
| Total Revenue              | 0    | 0    | 0    | 0    | 17    | ERR  |
| System Shipments           | 0    | 0    | 0    | 0    | 57    | ERR  |
| Workstation Shipments      | 0    | 0    | 0    | 0    | 236   | ERR  |
| Workstation Installed Base | 0    | 0    | 0    | 0    | 236   | ERR  |
| Personal Computer          |      |      |      |      |       |      |
| Total Revenue              | 0    | 0    | 0    | 0    | 8     | ERR  |
| System Shipments           | 0    | 0    | 0    | 0    | 1,123 | ERR  |
| Workstation Shipments      | 0    | 0    | 0    | 0    | 1,123 | ERR  |
| Workstation Installed Base | 0    | 0    | 0    | 0    | 1,123 | ERR  |
|                            |      |      |      |      |       |      |

TABLE NUMBER:

C-140

TITLE:

Company History

COMPANY:

Other Europe Companies

APPLICATION:

Mapping

UNITS:

Millions of Dollars and Actual Units

|                            | 1981 | 1982 | 1983 | 1984 | 1985 | CAGR |
|----------------------------|------|------|------|------|------|------|
|                            | ==== |      | #E22 |      | ==== | ***  |
| <b>Worldwide</b>           |      |      |      |      |      |      |
| Total Revenue              | 0    | 0    | 0    | 0    | 22   | ERR  |
| System Shipments           | 0    | 0    | 0    | . 0  | 107  | ERR  |
| Workstation Shipments      | 0    | 0    | 0    | 0    | 150  | ERR  |
| Workstation Installed Base | 0    | 0    | 0    | 0    | 150  | ERR  |
| North America              |      |      |      |      |      |      |
| Total Revenue              | 0    | 0    | 0    | 0    | 0    | ERR  |
| System Shipments           | 0    | 0    | 0    | 0    | 0    | ERR  |
| Workstation Shipments      | 0    | 0    | 0    | 0    | 0    | ERR  |
| Workstation Installed Base | 0    | 0    | 0    | 0    | 0    | ERR  |
| Europe                     |      |      |      |      |      |      |
| Total Revenue              | 0    | 0    | 0    | 0    | 22   | ERR  |
| System Shipments           | 0    | 0    | 0    | 0    | 107  | ERR  |
| Workstation Shipments      | 0    | 0    | 0    | 0    | 150  | ERR  |
| Workstation Installed Base | 0    | 0    | 0    | 0    | 150  | ERR  |
| Far East                   |      |      |      |      |      |      |
| Total Revenue              | 0    | 0    | 0    | 0    | 0    | ERR  |
| System Shipments           | 0    | 0    | 0    | 0    | 0    | ERR  |
| Workstation Shipments      | 0    | 0    | 0    | 0    | 0    | ERR  |
| Workstation Installed Base | 0    | 0    | 0    | 0    | 0    | ERR  |
| Rest of World              |      |      |      |      |      |      |
| Total Revenue              | 0    | 0    | 0    | 0    | 0    | ERR  |
| System Shipments           | 0    | 0    | 0    | 0    | 0    | ERR  |
| Workstetion Shipments      | 0    | 0    | 0    | 0    | 0    | ERR  |
| Workstation Installed Base | 0    | 0    | 0    | O.   | 0    | ERR  |
| Standalone                 |      |      |      |      |      |      |
| Total Revenue              | 0    | 0    | 0    | 0    | 1    | ERR  |
| System Shipments           | 0    | 0    | 0    | 0    | 18   | ERR  |
| Workstation Shipments      | 0    | 0    | 0    | 0    | 18   | ERR  |
| Workstation Installed Base | 0    | 0    | 0    | 0    | 18   | ERR  |
| Host-Dependent             |      |      |      |      |      |      |
| Total Revenue              | 0    | 0    | 0    | 0    | 21   | ERR  |
| System Shipments           | 0    | 0    | 0    | 0    | 40   | ERR  |
| Workstation Shipments      | 0    | 0    | 0    | 0    | 83   | ERR  |
| Workstation Installed Base | 0    | 0    | 0    | 0    | 83   | ÉRR  |
| Personal Computer          |      |      |      |      |      |      |
| Total Revenue              | 0    | 0    | 0    | 0    | 0    | ERR  |
| System Shipments           | 0    | 0    | 0    | 0    | 48   | ERR  |
| Workstation Shipments      | 0    | 0    | 0    | 0    | 48   | ERR  |
| Workstation Installed Base | 0    | 0    | 0    | 0    | 48   | ERR  |
|                            |      |      |      |      |      |      |

TABLE NUMBER:

C-141

TITLE:

Company History

COMPANY:

Other Europe Companies

APPLICATION:

EDA

UNITS:

Millions of Dollars and Actual Units

|                            | 1981 | 1982 | 1983 | 1984 | 1985 | CAGR |
|----------------------------|------|------|------|------|------|------|
|                            |      | ==== | 2222 |      | ==== | ==== |
| Worldwide                  |      |      |      |      |      |      |
| Total Revenue              | Û    | 0    | 0    | 0    | 10   | ERR  |
| System Shipments           | 0    | 0    | 0    | 0    | 281  | ERR  |
| Workstation Shipments      | 0    | 0    | 0    | 0    | 328  | ERR  |
| Workstation Installed Base | 0    | 0    | 0    | 0    | 328  | ERR  |
| North America              |      |      |      |      |      |      |
| Total Revenue              | 0    | 0    | 0    | 0    | 0    | ERR  |
| System Shipments           | 0    | 0    | 0    | 0    | 0    | ERR  |
| Workstation Shipments      | 0    | 0    | 0    | 0    | 0    | ERR  |
| Workstation Installed Base | 0    | 0    | 0    | 0    | 0    | ERR  |
| Europe                     |      |      |      |      |      |      |
| Total Revenue              | 0    | 0    | 0    | 0    | 10   | ERR  |
| System Shipments           | 0    | 0    | 0    | 0    | 281  | ERR  |
| Workstation Shipments      | 0    | 0    | 0    | 0    | 328  | ERR  |
| Workstation Installed Base | 0    | 0    | 0    | 0    | 328  | ERR  |
| far <b>Ea</b> st           |      |      |      |      |      |      |
| Total Revenue              | 0    | 0    | 0    | 0    | 0    | ERR  |
| System Shipments           | 0    | 0    | 0    | 0    | 0    | ERR  |
| Workstation Shipments      | 0    | 0    | 0    | 0    | 0    | ERR  |
| Workstation Installed Base | 0    | 0    | 0    | 0    | 0    | ERR  |
| Rest of World              |      |      |      |      |      |      |
| Total Revenue              | 0    | 0    | 0    | 0    | 0    | ERR  |
| System Shipments           | 0    | 0    | 0    | 0    | 0    | ERR  |
| Workstation Shipments      | 0    | 0    | 0    | 0    | 0    | ERR  |
| Workstation Installed Base | 0    | 0    | 0    | 0    | 0    | ERR  |
| Standalone                 |      |      |      |      |      |      |
| Total Revenue              | 0    | 0    | 0    | 0    | 3    | ERR  |
| System Shipments           | 0    | 0    | 0    | 0    | 45   | ERR  |
| Workstation Shipments      | 0    | 0    | 0    | 0    | 45   | ERR  |
| Workstation Installed Base | 0    | 0    | 0    | 0    | 45   | ERR  |
| Host-Dependent             |      |      |      |      |      |      |
| Total Revenue              | 0    | 0    | 0    | 0    | 6    | ERR  |
| System Shipments           | 0    | 0    | 0    | 0    | 19   | ERR  |
| Workstation Shipments      | 0    | 0    | 0    | 0    | 65   | ERR  |
| Workstation Installed Base | 0    | 0    | 0    | 0    | 65   | ERR  |
| Personal Computer          |      |      |      |      |      |      |
| Total Revenue              | 0    | 0    | 0    | 0    | 1    | ERR  |
| System Shipments           | 0    | 0    | 0    | 0    | 218  | ERR  |
| Workstation Shipments      | 0    | 0    | 0    | 0    | 218  | ERR  |
| Workstation Installed Base | 0    | 0    | 0    | 0    | 218  | ERR  |
|                            |      |      |      |      |      |      |

Source: Dataquest

TABLE NUMBER:

C-142

TITLE:

Company History

COMPANY:

Other Europe Companies

APPLICATION:

PCR

UNITS:

Millions of Dollars and Actual Units

| •                          | 1981 | 1982 | 1983         | 1984 | 1985 | CAGR |
|----------------------------|------|------|--------------|------|------|------|
|                            | 2222 | 1700 | 1703<br>BEBS | ==== | 2225 | 2=== |
| Worldwide                  |      |      |              |      |      |      |
| Total Revenue              | 0    | 0    | 0            | 0    | 34   | ERR  |
| System Shipments           | Ō    | 0    | ū            | Ô    | 609  | ERR  |
| Workstation Shipments      | ő    | Ô    | Ŏ            | Ů    | 686  | ERR  |
| Workstation Installed Base | Ŏ    | 0    | ō            | 0    | 686  | ERR  |
| North America              | •    | •    | •            | •    |      |      |
| Total Revenue              | 0    | 0    | 0            | 0    | 0    | ERR  |
| System Shipments           | 0    | ů.   | 0            | 0    | 0    | ERR  |
| Workstation Shipments      | 0    | 0    | Ö            | 0    | 0    | ERR  |
| Workstation Installed Base | Ô    | 0    | Ó            | 0    | Ö    | ERR  |
| Europe                     | •    |      |              |      |      |      |
| Total Revenue              | 0    | C    | 0            | 0    | 34   | ERR  |
| System Shipments           | 0    | 0    | 0            | 0    | 609  | ERR  |
| Workstation Shipments      | 0    | 0    | 0            | . 0  | 686  | ERR  |
| Workstation Installed Base | 0    | 0    | 0            | 0    | 686  | ERR  |
| Far East                   |      |      |              |      |      |      |
| Total Revenue              | 0    | 0    | 0            | 0    | 0    | ERR  |
| System Shipments           | 0    | 0    | 0            | 0    | 0    | ERR  |
| Workstation Shipments      | 0    | 0    | 0            | 0    | 0    | ERR  |
| Workstation Installed Base | 0    | 0    | 0            | 0    | 0    | ERR  |
| Rest of World              |      |      |              |      |      |      |
| Total Revenue              | 0    | 0    | 0            | 0    | 0    | ERR  |
| System Shipments           | 0    | 0    | 0            | 0    | 0    | ERR  |
| Workstation Shipments      | 0    | 0    | 0            | 0    | 0    | ERR  |
| Workstation Installed Base | 0    | 0    | 0            | 0    | 0    | ERR  |
| Standalone                 |      |      |              |      |      |      |
| Total Revenue              | 0    | 0    | 0            | 0    | 21   | ERR  |
| System Shipments           | 0    | 0    | 0            | 0    | 207  | ERR  |
| Workstation Shipments      | 0    | 9    | 0            | 0    | 207  | ERR  |
| Workstation Installed Base | 0    | 0    | 0            | 0    | 207  | ERR  |
| Host-Dependent             |      |      |              |      |      |      |
| Total Revenue              | 0    | 0    | 0            | 0    | 11   | ERR  |
| System Shipments           | 0    | 0    | 0            | 0    | 31   | ERR  |
| Workstation Shipments      | 0    | 0    | 0            | 0    | 108  | ERR  |
| Workstation Installed Base | 0    | 0    | 0            | 0    | 108  | ERR  |
| Personal Computer          |      |      |              |      |      |      |
| Total Revenue              | 0    | 0    | 0            | 0    | 2    | ERR  |
| System Shipments           | 0    | 0    | σ            | 0    | 371  | ERR  |
| Workstation Shipments      | 0    | 0    | 0            | 0    | 371  | ERR  |
| Workstation Installed Base | 0    | 0    | 0            | 0    | 371  | ERR  |
|                            |      |      |              |      |      |      |

Source: Dataquest

TABLE NUMBER:

C-143

TITLE:

Company History

COMPANY:

Other Turnkey and Software

APPLICATION:

All Applications

UNITS:

Millions of Dollars and Actual Units

|                            | 1981  | 1982  | 1983  | 1984   | 1985  | CAGR |
|----------------------------|-------|-------|-------|--------|-------|------|
|                            |       | ====  |       | 3222   | ====  | 2011 |
| Worldwide                  |       |       |       |        |       |      |
| Total Revenue              | 134   | 215   | 234   | 870    | 184   | 8%   |
| System Shipments           | 314   | 723   | 1,766 | 32,620 | 1,102 | 37%  |
| Workstation Shipments      | 654   | 1,345 | 1,954 | 34,119 | 2,099 | 34%  |
| Workstation Installed Base | 1,683 | 2,947 | 4,771 | 38,636 | 2,099 | 6%   |
| North America              |       |       |       |        |       |      |
| Total Revenue              | 98    | 163   | 181   | 387    | 149   | 11%  |
| System Shipments           | 184   | 532   | 1,330 | 24,049 | 946   | 51%  |
| Workstation Shipments      | 384   | 948   | 1,440 | 24,467 | 948   | 25%  |
| Workstation Installed Base | 1,160 | 2,053 | 3,407 | 27,695 | 948   | -5%  |
| Europe                     |       |       |       |        |       |      |
| Total Revenue              | 0     | 0     | 30    | 94     | 24    | ERR  |
| System Shipments           | Ó     | 0     | 257   | 3,884  | 106   | ERR  |
| Workstation Shipments      | 0     | 0     | 303   | 3,955  | 111   | ERR  |
| Workstation Installed Base | 0     | 0     | 303   | 4,243  | 111   | ERR  |
| Far East                   |       |       |       |        |       |      |
| Total Revenue              | 0     | 0     | 22    | 363    | 10    | ERR  |
| System Shipments           | 0     | 0     | 175   | 4,082  | 23    | ERR  |
| Workstation Shipments      | 0     | 0     | 206   | 5,078  | 1,012 | ERR  |
| Workstation Installed Base | 0     | 0     | 206   | 5,269  | 1,012 | ERR  |
| Rest of World              |       |       |       |        |       |      |
| Total Revenue              | 37    | 52    | 0     | 26     | 2     | -54% |
| System Shipments           | 130   | 191   | 4     | 605    | 27    | -32% |
| Workstation Shipments      | 270   | 397   | 5     | 619    | 27    | -44% |
| Workstation Installed Base | 523   | 894   | 855   | 1,429  | 27    | -52% |
| Standalone                 |       |       |       |        |       |      |
| Total Revenue              | 0     | 0     | 198   | 134    | 75    | ERR  |
| System Shipments           | 0     | 0     | 1,604 | 1,430  | 813   | ERR  |
| Workstation Shipments      | 0     | 0     | 1,604 | 1,430  | 813   | ERR  |
| Workstation Installed Base | 0     | 0     | 1,624 | 2,971  | 813   | ERR  |
| Host-Dependent             |       |       |       |        |       |      |
| Total Revenue              | 134   | 215   | 36    | 416    | 79    | -12% |
| System Shipments           | 314   | 723   | 162   | 564    | 58    | -35% |
| Workstation Shipments      | 654   | 1,345 | 350   | 2,063  | 1,054 | 13%  |
| Workstation Installed Base | 1,683 | 2,947 | 3,147 | 5,039  | 1,054 | -11% |
| Personal Computer          |       |       |       |        |       |      |
| Total Revenue              | 0     | 0     | 0     | 320    | 30    | ERR  |
| System Shipments           | 0     | 0     | 0     | 30,626 | 232   | ERR  |
| Workstation Shipments      | 0     | 0     | 0     | 30,626 | 232   | ERR  |
| Workstation Installed Base | 0     | 0     | 0     | 30,626 | 232   | ERR  |

Source: Dataquest

TABLE NUMBER:

C-144

TITLE:

Company History

COMPANY:

Other Turnkey and Software

APPLICATION:

Mechanical

UNITS:

Millions of Dollars and Actual Units

| 1981   1982   1983   1984   1985   CAGR   |
|---|
| Worldwide         23         39         31         348         70         32%           System Shipments         96         160         633         15,486         390         42%           Workstation Shipments         200         333         633         16,358         868         44%           Workstation Installed Base         789         1,083         1,662         17,943         868         2%           North America         Total Revenue         18         31         25         120         52         31%           System Shipments         79         135         520         11,583         313         41%     |
| Total Revenue         23         39         31         348         70         32%           System Shipments         96         160         633         15,486         390         42%           Workstation Shipments         200         333         633         16,358         868         44%           Workstation Installed Base         789         1,083         1,662         17,943         868         2%           North America         Total Revenue         18         31         25         120         52         31%           System Shipments         79         135         520         11,583         313         41% |
| System Shipments         96         160         633         15,486         390         42%           Workstation Shipments         200         333         633         16,358         868         44%           Workstation Installed Base         789         1,083         1,662         17,943         868         2%           North America         Total Revenue         18         31         25         120         52         31%           System Shipments         79         135         520         11,583         313         41%   |
| Workstation Shipments       200       333       633       16,358       868       44%         Workstation Installed Base       789       1,083       1,662       17,943       868       2%         North America       Total Revenue       18       31       25       120       52       31%         System Shipments       79       135       520       11,583       313       41%  |
| Workstation Installed Base       789       1,083       1,662       17,943       868       2%         North America       Total Revenue       18       31       25       120       52       31%         System Shipments       79       135       520       11,583       313       41%   |
| North America         18         31         25         120         52         31%           System Shipments         79         135         520         11,583         313         41%  |
| Total Revenue         18         31         25         120         52         31%           System Shipments         79         135         520         11,583         313         41%  |
| System Shipments 79 135 520 11,583 313 41%  |
|   |
| Workstation Shipments 165 281 520 11,774 329 19%  |
| Workstation Installed Base 630 880 1,356 13,063 329 -15%  |
| Europe  |
| Total Revenue 0 0 3 40 12 ERR   |
| System Shipments 0 0 60 1,520 47 ERR  |
| Workstation Shipments 0 0 60 1,573 51 ERR   |
| Workstation Installed Base 0 0 60 1,629 51 ERR  |
| Far East  |
| Total Revenue 0 0 3 183 5 ERR   |
| System Shipments 0 0 53 2,154 12 ERR  |
| Workstation Shipments 0 0 53 2,779 469 ERR  |
| Workstation Installed Base 0 0 53 2,835 469 ERR   |
| Rest of World   |
| Total Revenue 5 8 0 6 1 -39%  |
| System Shipments 17 25 0 229 18 2%  |
| Workstation Shipments 35 52 0 232 18 -15%   |
| Workstation Installed Base 159 203 193 416 18 -42%  |
| Standalone  |
| Total Revenue 0 0 31 20 22 ERR  |
| System Shipments 0 0 633 333 208 ERR  |
| Workstation Shipments 0 0 633 333 208 ERR   |
| Workstation Installed Base 0 0 633 934 208 ERR  |
| Host-Dependent  |
| Total Revenue 23 39 0 179 39 14%  |
| System Shipments 96 160 0 319 15 -37%   |
| Workstation Shipments 200 333 0 1,191 493 25%   |
| Workstation Installed Base 789 1,083 1,029 2,175 493 -11%   |
| Personal Computer   |
| Total Revenue 0 0 0 150 9 ERR   |
| System Shipments 0 0 0 14,834 167 ERR   |
| Workstation Shipments 0 0 0 14,834 167 ERR  |
| Workstation Installed Base 0 0 0 14,834 167 ERR   |

Source: Dataquest

TABLE NUMBER:

C-145

TITLE:

Company History

COMPANY:

Other Turnkey and Software

APPLICATION:

AFC

UNITS:

Millions of Dollars and Actual Units

| Worldwide Total Revenue 15 20 24 191 32 2            | GR<br>1%<br>8%<br>2% |
|--|----------------------|
| Total Revenue 15 20 24 191 32 2                      | 8%                   |
|  | 8%                   |
| System Shinmonts 60 204 704 40 EE2 775 5             |                      |
| System Shipments 60 206 406 10,552 372 5             | 2%                   |
| Workstation Shipments 125 418 406 10,710 508 4       |                      |
| Workstation Installed Base 476 870 1,232 11,882 508  | 2%                   |
| North America  |                      |
| Total Revenue 11 15 20 105 27 2                      | 6%                   |
| System Shipments 46 189 338 7,475 309 6              | 1%                   |
| Workstation Shipments 96 383 338 7,536 311 3         | 4%                   |
| Workstation installed Base 392 755 1,055 8,539 311   | 6%                   |
| Europe   |                      |
| Total Revenue 0 0 2 26 3 ER                          | R                    |
| System Shipments 0 0 37 1,569 49 ER                  | R                    |
| Workstation Shipments 0 0 37 1,572 49 ER             | R                    |
| Workstation Installed Base 0 0 37 1,608 49 ER        | R                    |
| Far East   |                      |
| Total Revenue 0 0 2 53 1 ER                          | R                    |
| System Shipments 0 0 31 1,233 7 ERI                  | R                    |
| Workstation Shipments 0 0 31 1,327 140 ER            | R                    |
| Workstation Installed Base 0 0 31 1,355 140 ER       | R                    |
| Rest of World  |                      |
| Total Revenue 4 5 0 8 0 -4                           | 7%                   |
| System Shipments 14 17 0 275 8 -1                    | 4%                   |
| Workstation Shipments 29 35 0 275 8 -2               | 9%                   |
| Workstation Installed Base 84 115 109 380 8 -49      | 5%                   |
| Standalone   |                      |
| Total Revenue 0 0 24 47 21 ERI                       | R                    |
| System Shipments 0 0 406 462 321 ERI                 | R                    |
| Workstation Shipments 0 0 406 462 321 ERI            | R                    |
| Workstation Installed Base 0 0 406 848 321 ER        | R                    |
| Host-Dependent                                       |                      |
| Total Revenue 15 20 0 42 6 -19                       | 9%                   |
| System Shipments 60 206 0 103 19 -2                  | 5%                   |
| •  | 5%                   |
| Workstation Installed Base 476 870 826 1,047 155 -24 | 4%                   |
| Personal Computer                                    |                      |
| Total Revenue 0 0 0 103 5 ERF                        | 2                    |
| System Shipments 0 0 0 9,987 32 ER                   | ?                    |
| Workstation Shipments 0 0 0 9,987 32 ER              | 2                    |
| Workstation Installed Base 0 0 0 9,987 32 ERF        | ₹                    |

Source: Dataquest

TABLE NUMBER:

C-146

TITLE:

Company History

COMPANY:

Other Turnkey and Software

APPLICATION:

Mapping

UNITS:

Millions of Dollars and Actual Units

|                            | 1981        | 1982 | 1983 | 1984 | 1985 | CAGR   |
|----------------------------|-------------|------|------|------|------|--------|
|                            | B= <b>=</b> |      | -=== | 2255 | PREE | ====   |
| Worldwide                  |             |      |      |      |      |        |
| Total Revenue              | 73          | 108  | 106  | 151  | 1    | -71%   |
| System Shipments           | 56          | 75   | 238  | 100  | 0    | -100%  |
| Workstation Shipments      | 116         | 156  | 238  | 304  | 16   | -39%   |
| Workstation Installed Base | 116         | 267  | 492  | 752  | 16   | -39%   |
| North America              |             |      |      |      |      |        |
| Total Revenue              | 67          | 102  | 91   | 62   | 0    | -72%   |
| System Shipments           | 53          | 70   | 197  | 35   | 0    | -100%  |
| Workstation Shipments      | 110         | 146  | 197  | 154  | 0    | -100%  |
| Workstation Installed Base | 110         | 251  | 436  | 559  | 0    | -100%  |
| Europe                     |             |      |      |      |      |        |
| Total Revenue              | 0           | 0    | 8    | 6    | 0    | ERR    |
| System Shipments           | 0           | 0    | 22   | 1    | 0    | ÉRR    |
| Workstation Shipments      | 0           | 0    | 22   | 5    | 0    | ERR    |
| Workstation Installed Base | 0           | 0    | 22   | 25   | 0    | ERR    |
| Far East                   |             |      |      |      |      |        |
| Total Revenue              | 0           | 0    | 8    | 73   | 0    | ERR    |
| System Shipments           | 0           | 0    | 19   | 61   | 0    | ERR    |
| Workstation Shipments      | 0           | 0    | 19   | 131  | 16   | ERR    |
| Workstation Installed Base | 0           | 0    | 19   | 142  | 16   | ERR    |
| Rest of World              |             |      |      |      |      |        |
| Total Revenue              | 6           | 6    | 0    | 11   | 0    | - 100% |
| System Shipments           | 3           | 5    | 0    | 3    | 0    | -100%  |
| Workstation Shipments      | 6           | 10   | 0    | 14   | 0    | -100%  |
| Workstation Installed Base | 6           | 16   | 15   | 26   | 0    | - 100% |
| Standalone                 |             |      |      |      |      |        |
| Total Revenue              | 0           | 0    | 106  | 0    | 0    | ERR    |
| System Shipments           | 0           | 0    | 238  | 1    | 0    | ERR    |
| Workstation Shipments      | 0           | 0    | 238  | 1    | 0    | ERR    |
| Workstation Installed Base | 0           | 0    | 238  | 227  | 0    | ERR    |
| Host-Dependent             |             |      |      |      |      |        |
| Total Revenue              | 73          | 108  | 0    | 146  | 0    | -100%  |
| System Shipments           | 56          | 75   | 0    | 58   | 0    | -100%  |
| Workstation Shipments      | 116         | 156  | 0    | 262  | 16   | -39%   |
| Workstation Installed Base | 116         | 267  | 254  | 484  | 16   | -39%   |
| Personal Computer          |             |      |      |      |      |        |
| Total Revenue              | 0           | 0    | 0    | 6    | 1    | ERR    |
| System Shipments           | 0           | 0    | 0    | 41   | 0    | ERR    |
| Workstation Shipments      | 0           | 0    | 0    | 41   | 0    | ERR    |
| Workstation Installed Base | 0           | 0    | 0    | 41   | 0    | ERR    |
|                            |             |      |      |      |      |        |

TABLE NUMBER:

C-147

TITLE:

Company History

COMPANY:

Other Turnkey and Software

APPLICATION:

UNITS:

Millions of Dollars and Actual Units

|                            | 1981 | 1982 | 1983 | 1984  | 1985 | CAGR |
|----------------------------|------|------|------|-------|------|------|
|                            |      |      |      | ====  | 3232 | EZEE |
| Worldwide                  |      |      |      |       |      |      |
| Total Revenue              | 0    | 10   | 14   | 71    | 29   | ERR  |
| System Shipments           | 0    | 83   | 76   | 4,972 | 47   | ERR  |
| Workstation Shipments      | 0    | 83   | 76   | 4,996 | 39   | ERR  |
| Workstation Installed Base | 0    | 83   | 155  | 5,142 | 39   | ERR  |
| North America              |      |      |      |       |      |      |
| Total Revenue              | 0    | 10   | 10   | 53    | 24   | ERR  |
| System Shipments           | 0    | 83   | 43   | 3,909 | 42   | ERR  |
| Workstation Shipments      | 0    | 83   | 43   | 3,922 | 34   | ERR  |
| Workstation Installed Base | 0    | 83   | 122  | 4,036 | 34   | ERR  |
| Europe                     |      |      |      |       |      |      |
| Total Revenue              | 0    | 0    | 4    | 8     | 5    | ERR  |
| System Shipments           | 0    | 0    | 33   | 608   | 4    | ERR  |
| Workstation Shipments      | 0    | 0    | 33   | 808   | 4    | ERR  |
| Workstation Installed Base | 0    | 0    | 33   | 641   | 4    | ERR  |
| Far East                   |      |      |      |       |      |      |
| Total Revenue              | 0    | 0    | 0    | 9     | 1    | ERR  |
| System Shipments           | 0    | o'   | 0    | 366   | 1    | ERR  |
| Workstation Shipments      | 0    | 0    | 0    | 377   | 1    | ERR  |
| Workstation Installed Base | 0    | 0    | 0    | 376   | 1    | ERR  |
| Rest of World .            |      |      |      |       |      |      |
| Total Revenue              | 0    | Ð    | 0    | 1     | 0    | ERR  |
| System Shipments           | 0    | 0    | 0    | 89    | 0    | ERR  |
| Workstation Shipments      | 0    | 0    | 0    | 89    | 0    | ERR  |
| Workstation Installed Base | 0    | 0    | 0    | 89    | 0    | ERR  |
| Standalone                 |      |      |      |       |      |      |
| Total Revenue              | 0    | 0    | 14   | 19    | 6    | ERR  |
| System Shipments           | 0    | 0    | 76   | 212   | 5    | ERR  |
| Workstation Shipments      | 0    | 0    | 76   | 212   | 5    | ERR  |
| Workstation Installed Base | 0    | 0    | 76   | 284   | 5    | ERR  |
| Host-Dependent             |      |      |      |       |      |      |
| Total Revenue              | 0    | 10   | 0    | 6     | 15   | ERR  |
| System Shipments           | 0    | 83   | 0    | 15    | 8    | ERR  |
| Workstation Shipments      | 0    | 83   | 0    | 39    | 0    | ERR  |
| Workstation Installed Base | 0    | 83   | 79   | 113   | 0    | ERR  |
| Personal Computer          |      |      |      |       |      |      |
| Total Revenue              | 0    | 0    | 0    | 46    | 7    | ERR  |
| System Shipments           | 0    | 0    | 0    | 4,745 | 34   | ERR  |
| Workstation Shipments      | 0    | 0    | 0    | 4,745 | 34   | ERR  |
| Workstation Installed Base | 0    | 0    | 0    | 4,745 | 34   | ERR  |
|                            |      |      |      |       |      |      |

Source: Dataquest

TABLE NUMBER:

APPLICATION:

C-148

TITLE:

Company History

COMPANY:

Other Turnkey and Software

UNITS:

Millions of Dollars and Actual Units

|                            | 1981     | 1982     | 1983     | 1984 | 1985 | CAGR       |
|----------------------------|----------|----------|----------|------|------|------------|
|                            | 1701     | 1702     | 1703     | 1704 | 1903 | CAGR       |
| Worldwide                  |          |          |          |      |      |            |
| Total Revenue              | 1        | 3        | 7        | 20   | 35   | 124%       |
| System Shipments           | 6        | 23       | ,<br>35  | 121  | 177  | 133%       |
| Workstation Shipments      | 13       | 23       | 49       | 146  | 169  | 90%        |
| Workstation Installed Base | 28       | 52       | 96       | 237  | 169  | 90%<br>57% |
| North America              | 20       | 32       | 70       | 231  | 109  | 21%        |
| Total Revenue              | 1        | 3        | 7        | 9    | 29   | 114%       |
| System Shipments           | 6        | 23       | 33       | 63   | 166  | 129%       |
| Workstation Shipments      | 13       | 23<br>23 | 33<br>47 | 70   | 158  |            |
| Workstation Installed Base | 13<br>28 | 23<br>52 | 47<br>93 |      |      | 87%        |
| Europe                     | 20       | 72       | 93       | 159  | 158  | 54%        |
| Total Revenue              |          | ^        |          | ,    | -    |            |
|                            | 0        | 0        | 0        | 4    | 3    | ERR        |
| System Shipments           | -        | 0        | 1        | 21   | 7    | ERR        |
| Workstation Shipments      | 0        | 0        | 1        | 23   | 7    | ERR        |
| Workstation Installed Base | 0        | 0        | 2        | 25   | 7    | ERR        |
| Far East                   | _        | _        | _        | _    | _    |            |
| Total Revenue              | 0        | 0        | 0        | 8    | 2    | ERR        |
| System Shipments           | 0        | 0        | 1        | 37   | 3    | ERR        |
| Workstation Shipments      | 0        | 0        | 1        | 53   | 3    | ERR        |
| Workstation Installed Base | 0        | 0        | 1        | 53   | 3    | ERR        |
| Rest of World              |          |          |          |      |      |            |
| Total Revenue              | 0        | 0        | 0        | 0    | 1    | ERR        |
| System Shipments           | 0        | 0        | 0        | 0    | 1    | ERR        |
| Workstation Shipments      | 0        | 0        | 0        | 0    | 1    | ERR        |
| Workstation Installed Base | 0        | 0        | 0        | 0    | 1    | ERR        |
| Standatone                 |          |          |          |      |      |            |
| Total Revenue              | 0        | 0        | 4        | 11   | 20   | ERR        |
| System Shipments           | 0        | 0        | 29       | 86   | 162  | ERR        |
| Workstation Shipments      | 0        | 0        | 29       | 86   | 162  | ERR        |
| Workstation Installed Base | 0        | 0        | 29       | 114  | 162  | ERR        |
| Host-Dependent             |          |          |          |      |      |            |
| Total Revenue              | 1        | 3        | 4        | 9    | 16   | 83%        |
| System Shipments           | 6        | 23       | 6        | 14   | 15   | 26%        |
| Workstation Shipments      | 13       | 23       | 20       | 39   | 7    | -14%       |
| Workstation Installed Base | 28       | 52       | 67       | 102  | 7    | -29%       |
| Personal Computer          |          |          |          |      |      |            |
| Total Revenue              | 0        | 0        | 0        | 1    | 0    | ERR        |
| System Shipments           | 0        | 0        | 0        | 21   | 0    | ERR        |
| Workstation Shipments      | 0        | 0        | 0        | 21   | 0    | ERR        |
| Workstation Installed Base | 0        | 0        | 0        | 21   | 0    | ERR        |
|                            |          |          |          |      |      |            |

Source: Dataquest

TABLE NUMBER:

C-149

TITLE:

Company History

COMPANY:

Other Turnkey and Software

APPLICATION:

UNITS:

Millions of Dollars and Actual Units

|                            | 1981 | 1982 | 1983  | 1984  | 1985 | CAGR   |
|----------------------------|------|------|-------|-------|------|--------|
|                            |      | 2222 |       |       | ==== | ====   |
| Wortdwide                  |      |      |       |       |      |        |
| Total Revenue              | 22   | 36   | 52    | 88    | 18   | -5%    |
| System Shipments           | 96   | 176  | 378   | 1,389 | 116  | 5%     |
| Workstation Shipments      | 200  | 332  | 552   | 1,605 | 499  | 26%    |
| Workstation Installed Base | 274  | 592  | 1,134 | 2,680 | 499  | 16%    |
| North America              |      |      |       |       |      |        |
| Total Revenue              | 0    | 3    | 28    | 39    | 16   | ERR    |
| System Shipments           | 0    | 32   | 199   | 984   | 116  | ERR    |
| Workstation Shipments      | 0    | 32   | 295   | 1,011 | 116  | ERR    |
| Workstation Installed Base | 0    | 32   | 345   | 1,339 | 116  | ERR    |
| Europe                     |      |      |       |       |      |        |
| Total Revenue              | 0    | 0    | 14    | 11    | 2    | ERR    |
| System Shipments           | 0    | 0    | 104   | 165   | 0    | ERR    |
| Workstation Shipments      | 0    | 9    | 150   | 174   | 0    | ERR    |
| Workstation Installed Base | 0    | 0    | 149   | 315   | 0    | ERR    |
| far East                   |      |      |       |       |      |        |
| Total Revenue              | 0    | 0    | 10    | 38    | 1    | ERR    |
| System Shipments           | 0    | 0    | 71    | 231   | 0    | ERR    |
| Workstation Shipments      | 0    | 0    | 102   | 411   | 383  | ERR    |
| Workstation Installed Base | 0    | 0    | 102   | 508   | 383  | ERR    |
| Rest of World              |      |      |       |       |      |        |
| Total Revenue              | 22   | 33   | 0     | 0     | 0    | - 100% |
| System Shipments           | 96   | 144  | 4     | 9     | 0    | -100%  |
| Workstation Shipments      | 200  | 300  | 5     | 9     | Ó    | - 100% |
| Workstation Installed Base | 274  | 560  | 538   | 518   | 0    | -100%  |
| Standalone                 |      |      |       |       |      |        |
| Total Revenue              | 0    | 0    | 20    | 38    | 7    | ERR    |
| System Shipments           | 0    | 0    | 222   | 336   | 116  | ERR    |
| Workstation Shipments      | 0    | 0    | 222   | 336   | 116  | ERR    |
| Workstation Installed Base | 0    | 0    | 242   | 564   | 116  | ERR    |
| Host-Dependent             |      |      |       |       |      |        |
| Total Revenue              | 22   | 36   | 32    | 35    | 2    | -44%   |
| System Shipments           | 96   | 176  | 156   | 55    | 0    | - 100% |
| Workstation Shipments      | 200  | 332  | 330   | 271   | 383  | 18%    |
| Workstation Installed Base | 274  | 592  | 892   | 1,118 | 383  | 9%     |
| Personal Computer          |      |      |       |       |      |        |
| Total Revenue              | 0    | 0    | 0     | 15    | 9    | ERR    |
| System Shipments           | 0    | 0    | 0     | 998   | 0    | ERR    |
| Workstation Shipments      | 0    | 0    | 0     | 998   | 0    | ERR    |
| Workstation Installed Base | 0    | 0    | 0     | 998   | 0    | ERR    |
|                            |      |      |       |       |      |        |

Source: Dataquest

