

I n t e r o f f i c e M e m o r a n d u m

Background ATT2
file - PDP-11

To: WIN HINDLE*

Memo: 5347872776COR10
Date: Tue 2 Jun 1987 4:12 PM EDT
From: KOCHAN
Dept:
Tel:
Adr:

Subject: Pdp-11 Announcement

| d | i | g | i | t | a | l |

INTEROFFICE MEMORANDUM

TO: Win Hindle

DATE: 2 June 87
FROM: Matt Kochan
DEPT: MSD Program Office
MS: ML05-5/E71
DTN: 223-6450
ENET: Kryptn::Kochan

SUBJECT: PDP-11 Announcement

Win,

Thank you very much for your sponsorship and help. We really appreciate your support. Your article (per your revision) will appear in the 29 June 87 Sales Update.

Regards,

Matt

I n t e r o f f i c e M e m o r a n d u m

To: MATT KOCHAN

Memo: 5347375521COR51
Date: Thu 28 May 1987 5:01 PM EDT
From: WIN HINDLE*
Dept: CORP OPERATIONS
Tel: 223-2338
Adr: MLO12-1/A53*

Subject: PDP-11 ANNOUNCEMENT - YOUR DECMAIL DTD 5/27/87

The following is my revision of your draft.

WH/sb

INTRODUCTION

The PDP-11 business continues to be a strong contributor to Digital's success, as it has for almost two decades. Our customers support this product line with their purchasing power--making PDP-11's a highly profitable computer system. It is this combination of profitability and customer satisfaction that will keep Digital in the PDP-11 business for a very long time.

The Digital customers that are buying PDP-11 systems are OEMs, Distributors and Government and End-User accounts with large installed bases of PDP-11 systems. These customers have found that the PDP-11 family continues to be a cost-effective solution to their current needs, especially in process control, shop floor control, and other realtime applications.

It is important that your customers are continually made aware of Digital's commitment to the PDP-11 family. The enhancements announced today present an excellent opportunity to convey this important message.

All of the enhancements announced in this article contribute to the satisfaction of our customers by increasing design flexibility, by improving price performance, or by simplifying the upgrade path from older PDP-11 systems to newer PDP-11 systems--or to the VAX family.

We can continue to win the business of our PDP-11 customers by focusing on the same issues that have contributed to Digital's success--Investment Protection, Quality, Service, Networking, and Compatibility. These are all important features that can separate Digital from the competition and be used to keep our PDP-11 customers within the Digital family.

The PDP-11 Business is GOOD BUSINESS FOR DIGITAL! With your help, it will be a good business for "a very long time".

COR:5.87.1728

Interoffice Memorandum

5- please do a DRAFT
of page 2

To: WIN HINDLE*

Memo: 5347257378COR84
Date: Wed 27 May 1987 11:56 AM EDT
From: KOCHAN
Dept:
Tel:
Adr:

Subject: PDP-11 Announcement Request

| d | i | g | i | t | a | l |

INTEROFFICE MEMORANDUM

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DATE: 27 May 1987
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DEPT: MSD Program Office
MS: ML05-5/E71
DTN: 223-6450
ENET: Kryptn::Kochan

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Win,

As an avid PDP-11 supporter, and in your new role working more closely with customers, I request you sponsor the lead article in the 29 June 87 issue of Sales Update, which is distributed to all Sales Representatives.

I have attached a draft copy of the article, which describes the PDP-11 Strategy. Please feel free to change as you wish. Would you be willing to allow us to use your name on this article?

Thank you and regards,

Matt

Attachment

<FF>
DRAFT INTRODUCTORY SALES UPDATE ARTICLE - JUNE ANNOUNCEMENT 1987

MAY 12, 1987

ANNOUNCING ENHANCEMENTS TO THE PDP-11 FAMILY

- *****
- * o New Opportunities to Upgrade Installed Base *
- * o of PDP-11's *
- * o Increased Design Flexibility *
- * o Improved Price Performance *
- * o The Commitment Continues! *
- *****

DRAFT

Double space

a highly

~~DB~~

INTRODUCTION

The PDP-11 Business continues to be a strong contributor to Digital's success, ~~in the computer industry. A success driven by customers that continue to support this product line with their purchasing power -- making PDP-11's Digital's most profitable computer system, today.~~ It is this combination of profitability and customer satisfaction that will keep Digital ~~in~~ in the PDP-11 business for a very long time.

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\*\*\*\*\*  
\* d i g i t a l \*  
\*\*\*\*\*

*Mike says this is 1.5 yrs. away when we have  
J-11 based systems (11/70 capability).  
Call Mike Gutman PDP-11*

TO: MIKE GUTMAN

DATE: SAT 9 OCT 1982 8:41 PM EDT  
FROM: GORDON BELL  
DEPT: ENG STAFF  
EXT: 223-2236  
LOC/MAIL STOP: ML12-1/A51

cc: see "CC" DISTRIBUTION

MESSAGE ID: 5178123176

*LCP?*

SUBJECT: SHARED LPC (F AND J VERSIONS) VS PC'S

Having just about gotten a great, personal computer in the 730 as our (Mary Jane and mine... and a few other folks), I would like to advocate a type of sharing that we pioneered and I fear we're about to give up.

The personal folks are telling us that they are going to really sell a lot of systems (eg. 1.5B in 84 for the 350) and I believe them. The Decmate II and Rainbow have great projections too. I'm looking forward to new computers here at home (have 2 DECmate I's) that can do graphics and have better editors and let us do some real computing, and the VAX at work will be great because it has no limits in terms of anything I can think of relative to what I am able to find time to program it to do..

Let me urge you to push what is I think is our most underrated system, the LPC with Aztec before others get there from all other directions.

The shared 11 with 50 megabytes is an incredible machine, providing over 1, 4 drawer file cabinet's worth of data and allowing a group of say 8 to 16 have an 11/70 all to themselves. This is like an 11/70 with an RM03 (or 2 RK07's)! The response should be beat the hell out of any PC for say 16 users.

The cost say for 8 users appears to be about (6.5K + 8 x 0.4) / 8 or 1.21K per user. If you put 8 more terminals on it, then this comes out to .8K. Both of these beat our lowest cost PC's by quite a lot. Let me describe the virtues of shared systems. Not every user has to deal with his own files and systems, thus not everyone becomes a system's programmer. You can share files, printers, modems, servicepeople, and this lets you move work around the system easily and communicate with one another.

We've sold a pile of systems like this (eg. RSTS) and the company really grew to its present 4B size selling systems like this eventhough the systems you have are much smaller in cost.

Furthermore, WANG sells shared systems like this and has also grown to 1B on large systems, not the PC's or standalone systems.

Somehow, we all have to find someone and someway to get this lovely, low cost 11/70 out to the world along with the PC's because it seems that many of the PC folks are making shared



systems now too. Also, it would seem that the shared system would be attractive to many of the people who sell and resell and otherwise handle our systems because there's more margin.

During the up and coming budget pass I hope you'll be able to fire people up with the inherently lower cost, higher performance and greater advantages of this type of computer. We need to figure out how to sell them too!

"CC" DISTRIBUTION:

ROGER CADY  
BILL KIESEWETTER  
HARVEY WEISS

BARRY CIOFFI  
OPERATIONS COMMITTEE:  
JIM WILLIS

JIM CUDMORE  
PEG:

PDP-11

PDP-11'S

O.C.

8/30/82

1. STATUS
2. THE PROBLEM
  - o PRODUCT
  - o NON-PRODUCT
3. ACTIONS
  - o SALES/SERVICE
  - o PRODUCT GROUPS
  - o ADVERTISING/PROMOTION
  - o ENGRG/MFG

M.S.G.

FY82 SHIPMENTS

|                        | <u>PLAN</u>  |                | <u>ACTUAL</u> |                |        |
|------------------------|--------------|----------------|---------------|----------------|--------|
|                        | <u>UNITS</u> | <u>DOLLARS</u> | <u>UNITS</u>  | <u>DOLLARS</u> |        |
| <u>VOLUME</u>          |              |                |               |                |        |
| 11/23+                 | 1000         | \$18M          | 410           | \$9M           | (-9M)  |
| 11/24                  | 4240         | 136M           | 2848          | 86M            | (-50M) |
| 11/44                  | 5545         | 337M           | 4677          | 263M           | (-74M) |
| <br><u>TRANSITION</u>  |              |                |               |                |        |
| 11/34                  | 6400         | \$147M         | 5783          | \$126M         |        |
| <br><u>END OF LIFE</u> |              |                |               |                |        |
| 11/70                  | 1044         | \$205M         | 998           | \$195M         |        |
| 11/03                  | 3700         | 28M            | 3444          | 24M            |        |
| 11/23                  | 7800         | 119M           | 6462          | 113M           |        |
| 11/04                  | 1253         | 10M            | 1336          | 11M            |        |
|                        | -----        | -----          | -----         | -----          |        |
|                        | 30982        | \$1000M        | 25958         | \$827M         |        |

DOWN 17%

o 75% OF THE PROBLEM IN THE VOLUME PRODUCTS

FY83 SHIPMENTS

|                        | <u>PLAN (LRP)</u> |                | <u>ESTIMATE (SHIP FORECAST +)</u> |                |         |
|------------------------|-------------------|----------------|-----------------------------------|----------------|---------|
|                        | <u>UNITS</u>      | <u>DOLLARS</u> | <u>UNITS</u>                      | <u>DOLLARS</u> |         |
| <u>VOLUME</u>          |                   |                |                                   |                |         |
| 11/23+                 | 8000              | \$135M         | 4200                              | \$59M          | (-76M)  |
| 11/24                  | 7100              | 221M           | 5400                              | 153M           | (-68M)  |
| 11/44                  | 6600              | 407M           | 3556                              | 207M           | (-200M) |
| <br><u>TRANSITION</u>  |                   |                |                                   |                |         |
| 11/34                  | 4000              | \$85M          | 2800                              | \$52M          |         |
| <br><u>END OF LIFE</u> |                   |                |                                   |                |         |
| 11/70                  | 521               | \$100M         | 521                               | \$104M         |         |
| 11/03                  | 1000              | 7M             | 1705                              | 11M            |         |
| 11/23                  | 4500              | 58M            | 2643                              | 47M            |         |
| 11/04                  | 755               | 6M             | 439                               | 3M             |         |
|                        | <hr/>             | <hr/>          | <hr/>                             | <hr/>          |         |
|                        | 32476             | \$1019M        | 25652                             | \$636M         |         |

DOWN 38%

o 90% OF THE PROBLEM IN THE VOLUME PRODUCTS

NOVEMBER 1981 LRP

FY83 (AVERAGE OF FY82 AND FY84)

|       |         |       |   |              |
|-------|---------|-------|---|--------------|
| TVG   | \$457M  | 45%   | } | 62% = \$624M |
| COEM  | \$169M  | 17%   |   |              |
| <hr/> |         |       |   |              |
| MDC   | \$83M   | 8%    | } | 38% = \$384M |
| TIG   | \$71M   | 7%    |   |              |
| GSG   | \$54M   | 5%    |   |              |
| LDP   | \$43M   | 4%    |   |              |
| MSG   | \$38M   | 4%    |   |              |
| CSI   | \$33M   | 3%    |   |              |
| TPL   | \$26M   | 3%    |   |              |
| ESG   | \$19M   | 2%    |   |              |
| PBI   | \$14M   | 1%    |   |              |
| ECS   | \$12M   | 1%    |   |              |
|       | <hr/>   | <hr/> |   |              |
|       | \$1019M | 100%  |   |              |

11/44

o PROBLEMS

1. LARGE PHYSICAL SIZE
2. LARGER SYSTEMS APPROX. 30% ABOVE COMPETITION
3. LAYERED SOFTWARE PRICES VERY HIGH VS. COMPETITION
4. SOFTWARE SUPPORT PRICES HIGH
5. BOXES MAY BE UP TO 30% ABOVE COMPETITION

o ACTIONS - TODAY

1. o LOOK AT "MAGNUM 44", "PLESSEY" PACKAGES TO SEE WHAT WE CAN DO.  
o PROMOTE SINGLE CAB SYSTEM - RA80/RL02.  
o TAKE OUT THE TU58.
2. COMPLETE A THOROUGH COMPETITIVE ANALYSIS AND RECOMMEND PRICE CHANGES (SYSTEMS AND BOXES).
3. BRING FORWARD A NEW PRICE STRUCTURE FOR ALL LAYERED SOFTWARE (FOR ALL PDP-11'S).
4. TAKE A HARD LOOK AT SOFTWARE SUPPORT ISSUE.

o ACTIONS - NEAR FUTURE

1. PROMOTE/PRICE AZTEC SYSTEMS AGGRESSIVELY.

11/24

o PROBLEMS

1. BOX PRICING AGAINST INTEGRATORS HIGH.
2. LAYERED SOFTWARE PRICING PROBLEM.

o ACTUALS - TODAY

1. EXAMINE LOSS TO INTEGRATORS, BRING FORWARD PROPOSAL.
2. ANNOUNCE/SUPPORT 64K MEMORY (MS11-P) PACKAGES ASAP.
3. PRICE THE BOARDS AGGRESSIVELY.
4. LAYERED SOFTWARE - SEE 11/44.

o ACTIONS - NEAR FUTURE

1. PROMOTE/PRICE AZTEC SYSTEMS AGGRESSIVELY.

11/23+

o PROBLEMS

1. OVERPRICED  
LAYERED SOFTWARE  
SOFTWARE SUPPORT  
TERMINALS
2. ONLY ONE BASE PACKAGE (DUAL RLO2) - (REFUSING SALES BECAUSE WE  
WON'T INTEGRATE NON-COMPLIANT OPTIONS).
3. NOBODY KNOWS ABOUT THE PRODUCT.
4. SYSTEMS 25% ABOVE COMPETITION.

o FIXES - TODAY

1. o BRING FORWARD A NEW PRICE STRUCTURE FOR ALL LAYERED SOFTWARE  
(FOR ALL PDP-11'S)  
o TAKE A HARD LOOK AT SOFTWARE SUPPORT ISSUE.  
o MOVE FROM VT100 TO VT101.
2. BRING FORWARD NEW SYSTEM PRICING PROPOSAL.
3. BREAK THE FCC LOG JAM  
A. LACK OF COMPLIANT OPTIONS  
B. ADD COMPLIANT BASE PACKAGES (RX02)
4. ADVERTISE AND SELL



PROBLEM AREAS ACROSS ALL PDP-11'S

- o LACK OF SALES AND PRODUCT GROUP FOCUS, ENTHUSIASM AND COMMITMENT.
- o LACK OF TRAINED PEOPLE = "ACTIVE DESKILLING".
- o INEFFECTIVE ADVERTISING AND PROMOTION PLAN.
- o TOP LEVEL COMMITMENT.

## ACTIONS - SALES/SERVICE

1. COMMIT TO SELL 11'S IN FY83 (DO THE PLAN)
  - o \$135M IN 11/23+ (9000 AT \$15K EACH)
  - o \$225M IN 11/24 (7500 AT \$30K EACH)
  - o \$420M IN 11/44 (7000 AT \$60K EACH)
  
2. TRAIN YOUR PEOPLE
  - o TOTAL REWRITE OF NEW DEC SALES TRAINING COURSE - LAST DONE IN 1978. MAKE IT A QUALITY COURSE.
  - o MAKE 11'S A SIGNIFICANT PART OF THE Q2 "SUCCESS TRAIN".
  
3. HELP ENGRG GET THE MESSAGE OUT IN THE PROPER FORMS.
  - o "WINNING WITH 11'S"
  - o COMMUNICATE THE FUTURES (J11/ORION) WITHOUT ANNOUNCING PRODUCTS
  
4. HELP ENGRG
  - o WORK THE SOFTWARE SUPPORT PRICE ISSUE
  - o BMC ISSUES
  
5. INSTALL/IDENTIFY PDP-11 REGIONAL SPECIALISTS IN THE FIELD - MAY BE APPROPRIATE DOWN TO THE DISTRICT LEVEL IN SOME DISTRICTS.
  
6. SUPPORT FOR 11'S FROM THE TOP
  - o SHIELDS
  - o KRAMER
  - o OTHERS
  
7. CAUTION: OUR COMMUNICATION IS AWKWARD/TENUOUS WITH EUROPE.

## ACTIONS - PRODUCT GROUPS

1. GET A FOCUS WITHIN YOUR GROUP FOR PDP-11 SALES AND FIELD SUPPORT.
2. STIMULATE/CULTIVATE YOUR PDP-11 INSTALLED BASE.
  - o CPU, DISK, MEMORY UPGRADES
  - o PROMOTION (DIRECT MAIL) - UPDATE MATERIALS
  - o SPECIALTY SALES TRAINING
  - o MEASURABLE SUCCESS CRITERIA - DO THE PLAN
3. HELP ENGRG UNDERSTAND WHAT NEW PACKAGES/PRICES ARE NEEDED.
4. WHERE IS THE HIGH VOLUME END USER BUSINESS (A LA IBM SERIES 1, ALTOS AT CDC, ETC.)
5. HOW CAN YOU LEVERAGE VAX AND PC SALES WITH 11'S? (FRONT ENDS, SERVERS .....)
6. CAN YOU DO VERTICAL MARKET PROMOTION/ADVERTISING FOR 11'S?

### EXAMPLES:

- BANKING
- FORTUNE 500 INDUSTRIALS
- ACCOUNTING/SMALL BUSINESS
- PROFESSIONS (DENTISTS, LAWYERS, ETC.)
- ELECTRICAL DISTRIBUTORS
- INSURANCE AGENTS AND BROKERS
- PURCHASING AGENTS

7. SIGNIFICANT PDP-11 PRESENCE AT TRADE SHOWS.

- |   |                                |       |
|---|--------------------------------|-------|
| o | EUROPEAN DECUS                 | SEPT. |
| o | TIG ROAD SHOW                  | OCT.  |
| o | COEM EXECUTIVE SEMINAR, COMDEX | NOV.  |
| o | DECUS                          | DEC.  |
| o |                                | JAN.  |
| o |                                | FEB.  |
| o | INTERFACE 83                   | MARCH |
| o |                                | APRIL |
| o | DECUS                          | MAY   |
| o | NCC, COMDEX                    | JUNE  |

FILL IN THE BLANKS

8. SUPPORT FOR 11'S FROM THE TOP

- o WARD
- o ANDY
- o JULIUS
- o WIN
- o ALL PRODUCT GROUP MANAGERS

9. SIGNIFICANT SPACE IN YOUR INTERNAL NEWSLETTERS IN EVERY ISSUE.

10. EXECUTIVE SELLING?

## ACTIONS - ADVERTISING/PROMOTION

1. NO IMAGE ADVERTISING IN BIG BOOKS.
2. ADVERTISE PRODUCTS/APPLICATIONS IN BOOKS THAT WILL PRODUCE LEADS.
  - o 11/23+
  - o 11/24
  - o 11/44
  - o MICRO/PDP-11
  - o SOFTWARE TOO!
3. UPDATE ALL HANDBOOKS/PRODUCT SUMMARIES
  - o MICROCOMPUTERS & MEMORIES Q4 FY83
  - o MICROCOMPUTERS & INTERFACE Q2 FY83
  - o PDP-11 ARCHITECTURE Q2 FY83
  - o PDP-11 PROCESSORS Q3 FY83
  - o TERMINALS & COMMUNICATIONS Q3 FY83
  - o SYSTEMS & OPTION SUMMARY \* QUARTERLY
  - o PDP-11 SOFTWARE Q1 FY84
  - o MICRO/PDP-11 Q2 FY83

\* MAKE SOS INTO A SALES TOOL AND CATALOG.

  - o PRINT SIGNIFICANT QUANTITIES
  - o DISTRIBUTE:
    - o ALL TRADE SHOWS
    - o SEND TO COMPUTER WORLD LIST
    - o DATA PROCESSOR MANAGERS ASSN.
    - o INSIGHT MAILING LIST
    - o OTHER VERTICAL MARKETS
4. INTERNAL PUBLICATIONS
  - o EVERY ISSUE OF SALES UPDATE
  - o DTW - QUARTERLY
  - o DECWORLD (SCHEDULED FOR NOV.)
  - o ALL INTERNAL PRODUCT GROUP NEWSLETTERS - REGULARLY
  - o CUSTOMER/PRODUCT BULLETINS (A LA IBM)
5. CREATE A CORPORATE PDP-11 APPLICATIONS SOFTWARE CATALOG

ACTIONS - ENGRG/MANUFACT.

1. BRING FORWARD A COMPREHENSIVE LAYERED SOFTWARE PRICING PROPOSAL.
2. BRING FORWARD A COMPREHENSIVE SOFTWARE SUPPORT PRICING PROPOAL.
3. WORK/PROPOSE ALL THE "PRODUCT PROBLEMS".
4. BRING FORWARD SPECIFIC PRODUCT REPRICING PROPOSALS.
5. FORM A (FLYING) TIGER TEAM TO:
  - o OPEN/CLOSE SALES IN THE FIELD
  - o TEACH/ASSIST PRODUCT GROUPS
6. MAKE THE FCC ISSUE INTO AN ASSET = CREATE FCC KITS
7. COORDINATE EVERYTHING PRESENTED IN PREVIOUS PAGES
8. COMMITMENT AT THE TOP
  - o JACK
  - o GORDON
  - o EMC

WHEN?

NOW!

- o WEEKLY AT PRODUCT GROUP MANAGER COMMITTEE  
STARTING NEXT WEEK
  
- o PERIODICALLY AT O.C.





**3 COMPETITION**

- INCREASINGLY COMPETITIVE & VOLATILE: HUNDREDS OF FIRMS ENTERED OVER PAST SEVERAL YEARS; MANY HAVE LEFT.
- VARIABLE CLASSES OF COMPETITORS: GARAGE SHOPS; VENTURE CAPITAL FINANCED STARTUPS; AND WORLD CLASS COMPETITORS - IBM, ATT, JAPAN, INC.
- IBM CLEARLY #1 IN INDUSTRY; SOME PERCEPTION THAT ATT MAY EMERGE AS #2.
- NEWLY AGGRESSIVE IBM PUTTING PRESSURE ON ALL SIGNIFICANT INDUSTRY SEGMENTS.
- GENERAL PERCEPTION THAT DEC IS FOCUSED ON TECHNICAL MARKETS (& MAYBE THE OFFICE).
- COMPETITION SHIFTS TO AREAS WHERE VENDOR DIFFERENTIATION IS STRONGER (E.G., APPLICATIONS; SOFTWARE; INTERCONNECTIONS NETWORKING); SALES; MAINTENANCE; AND CUSTOMER SUPPORT WHEN H/W BECOMES MORE COMMODITY-LIKE.
- AVAILABILITY OF APPLICATION S/W A KEY DETERMINANT OF H/W SALES.
- MAINTAINING GOOD CUSTOMER RELATIONS IS CRITICAL.

**TYPES OF COMPETITIVE "GAMES" (not mutually exclusive - IBM does all but the last)**

- NICHE: DEVELOP CLEVER APPLICATIONS FOR EVER-CHEAPER H/W. SWIP VOLUME BEFORE COMPETITION RESPONDS & SET INDUSTRY EXPECTATIONS. ATTRACT APPLICATIONS S/W, AND BE FIRST DOWN THE COST CURVE (E.G., APOLLO).
- PRICE/VOLUME: HEAVILY PROMOTE TO ACHIEVE VOLUME SALES THROUGH MASS OUTLETS. SCALE ECONOMIES ALLOW LOW PRICE (E.G., APPLE, IBM PCs).
- INSTALLED BASE: TRADITIONAL METHOD OF LOCKING IN CUSTOMER WITH PROPRIETARY OPERATING SYSTEMS & H/W TO MINIMIZE SENSITIVITY TO ANY PRICE, PERFORMANCE & FEATURE ADVANTAGES OF THE COMPETITION.
- LOCK-IN DISTRIBUTION CHANNELS.
- ESTABLISH LONG-TERM BUSINESS RELATIONSHIP.
- PROVIDE COMPLETE DP SERVICES SOLUTION (EDS, ADP).

**LEADING WORLDWIDE DMS COMPETITORS**

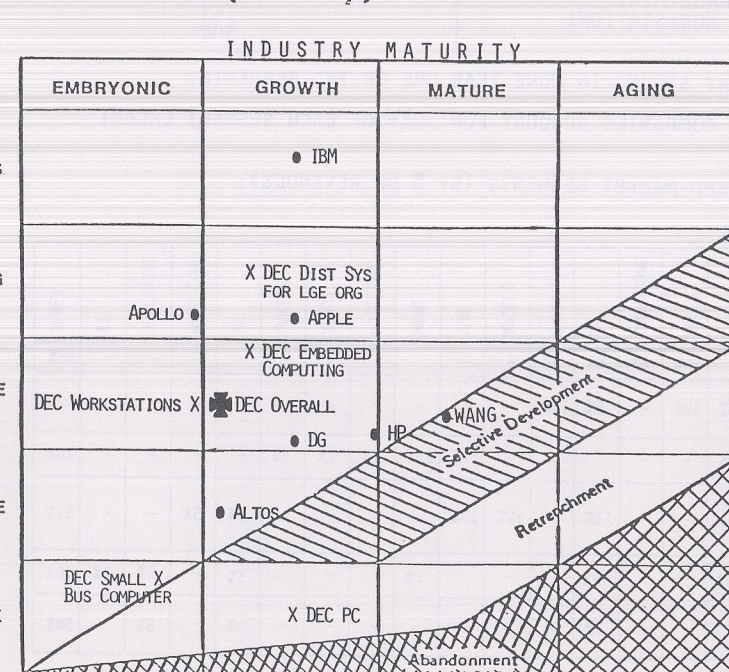
| COMPANY | COMPUTER REVENUES (\$BIL)                        | STRATEGIES                                                                                                                                                                                                                                                                                                                                 | STRENGTHS                                                                                                                                                                | WEAKNESSES                                                                                                                                      |
|---------|--------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------|
| IBM     | \$45.9 BIL.                                      | BE COMPETITIVE ACROSS THE INFO INDUSTRY & IN ALL ASPECTS<br>ENTREPRENEURIAL IBUS FOR NEW GROWTH SEGMENTS<br>USE SCALE ECONOMIES TO BE PRICE/PROFITABILITY LEADER<br>DEVELOP LINKS BETWEEN STRENGTHS IN MAINFRAMES & PCs<br>QUALITY<br>MIGRATE PC USERS TO IBM ARCHITECTURES<br>ACCOUNT CONTROL<br>USE THIRD PARTIES TO EXPLOIT NEW MARKETS | FINANCIAL<br>MARKET POWER<br>STANDARD SETTER<br>LOW-COST PRODUCER<br>PRODUCT QUALITY<br>MARKET-DRIVEN<br>ADAPTABLE CULTURE<br>SALES & SERVICE<br>MANAGEMENT<br>WORKFORCE | MULTIPLE ARCHITECTURES CAN'T EASILY BE INTEGRATED<br>LATE IN LANS<br>PRODUCTS FOR TECHNICAL MARKET                                              |
| ATT     | \$3.5 BIL. (\$4.1 BIL. CORPORATE TOTAL REVENUES) | PRODUCE COMPETITIVE PRODUCTS FOR KEY SPECIALTY MARKETS<br>USE STANDARD INDUSTRY COMPONENTS - MOTOROLA 68000<br>PRODUCT COMMUNICABILITY WITH IBM & INDUSTRY STANDARDS (UNIX)<br>DECENTRALIZED STRATEGIC BUSINESS UNITS                                                                                                                      | COHERENT STRATEGY<br>BASE IN RETAIL, FINANCIAL SERVICES<br>TIGHT FINANCIAL CONTROLS<br>NETWORKING AND COMMUNICATIONS                                                     | MAIN STRENGTH IN SLOW GROWTH MARKETS<br>LITTLE CORPORATE PENETRATION<br>NETWORKING AND COMMUNICATIONS                                           |
| DEC     | \$3.2 BIL. (\$6.0 BIL. CORPORATE TOTAL REVENUES) | SEEKS RAPID GROWTH<br>NINIS IN THE FACTORY<br>PCs IN THE OFFICE<br>TIE TO INSTRUMENT BUSINESS                                                                                                                                                                                                                                              | MANAGEMENT & FINANCIAL CONTROLS<br>INSTRUMENT BUSINESS<br>HIGH PROFITABILITY<br>FOCUSED MARKETING<br>QUALITY IMAGE<br>DISCIPLINED SALES                                  | INCOMPATIBLE ARCHITECTURES<br>OLD PRODUCTS<br>LACK CONSISTENT STRATEGY<br>LATE IN 32-BIT PRODUCTS                                               |
| IBM     | \$3.0 BIL.                                       | ATTACK IBM IN PLUS-COMPATIBLE MAINFRAME MARKET<br>48% SHARE IN AMDAHL, LEADING U.S. PCM<br>ATTACK OFFICE AUTOMATION MARKET                                                                                                                                                                                                                 | TECHNICALLY INNOVATIVE HARDWARE<br>FINANCIAL RESOURCES<br>BASE TECHNOLOGY<br>MARKET LEADER IN JAPAN (EXCEPT LE)                                                          | UNSUCCESSFUL IN GAINING EXPORT FOOTHOLD IN SMALL COMPUTER SYSTEMS<br>SOFTWARE<br>NOT REACHING SMALL USERS IN JAPAN                              |
| DEC     | \$2.2 BIL.                                       | BE LEADING EDGE IN OFFICE AUTOMATION<br>SELL INTEGRATED OFFICE<br>SELL DIRECT TO END-USERS<br>COMMUNICATE WITH IBM PRODUCTS<br>FOCUS ON USER INTERFACE                                                                                                                                                                                     | INNOVATIVE PRODUCT IMAGE<br>MARKETING<br>CLEAR MESSAGES<br>SALESFORCE                                                                                                    | MAINTENANCE & CUSTOMER SERVICE<br>FINANCIAL MANAGEMENT<br>PRODUCT DELIVERY<br>TIED TO HP<br>WEAK PRODUCTS                                       |
| IBM     | \$1.8 BIL. (\$2.5 BIL. CORPORATE TOTAL REVENUES) | BECOME A "GLOBAL COMPETITION" IN OFFICE AUTOMATION & INFORMATION SYSTEMS<br>SPECIAL EMPHASIS ON WORKSTATIONS<br>ESTABLISH STRATEGIC & MARKETING & TECHNOLOGICAL LINKAGE WITH ATT<br>GET AN IBM COMPATIBLE COMPUTER INTO EUROPEAN MARKET                                                                                                    | TECHNOLOGY & EXPERIENCE IN OFFICE EQUIPMENT<br>DEEP EUROPEAN BASE & STRONG DISTRIBUTION NETWORK                                                                          | POOR PERFORMANCE TO DATE BY DECUTEL/OLIVETTI IN U.S. MARKET<br>INCOMPLETE OFFERING                                                              |
| IBM     | \$1.5 BIL.                                       | PENETRATE HOME & SMALL BUSINESS MARKET WITH APPLE II<br>PENETRATE OFFICE WITH NETWORKED MACINTOSH, LASER PRINTER, ETC.<br>COMMUNICATE WITH IBM PRODUCTS<br>PROPRIETARY SYSTEM S/W                                                                                                                                                          | ADVERTISING AND PROMOTION<br>EDUCATION MARKETS<br>USER FRIENDLY INTERFACE<br>LOW-COST<br>MARKET-DRIVEN<br>THIRD PARTY S/W DEVELOPMENT<br>PRODUCT INNOVATOR               | DIRECT SALES<br>LIMITED MACINTOSH PERFORMANCE<br>INCOMPATIBLE WITH OTHER PCs<br>WEAKNESS IN FORTUNE 1000                                        |
| IBM     | \$1.5 BIL. (\$4.8 BIL. CORPORATE TOTAL REVENUES) | PENETRATE U.S. MARKET THROUGH HONEYWELL<br>BUILD OFF JAPANESE BASE                                                                                                                                                                                                                                                                         | FINANCIAL RESOURCES<br>TECHNICALLY STRONG<br>BROAD PRODUCT LINE<br>STRONG MANAGEMENT<br>LEADING PC SUPPLIER IN JAPAN<br>SOFTWARE                                         | HISTORY OF POOR CUSTOMER SUPPORT & SERVICE<br>LACK OF UNDERSTANDING OF U.S. COMPUTER MARKET<br>SLOW IN RESPONDING TO MARKET DEMANDS<br>SOFTWARE |
| IBM     | \$1.1 BIL.                                       | TARGET NICHES: OFFICE AUTOMATION, SMALL BUSINESS, FACTORY AUTOMATION, MEDICAL, SCIENTIFIC & GOVERNMENT MARKETS<br>MOVE FROM H/W COMPANY TO END-USER COMPANY FOCUSED ON S/W SERVICE & SOLUTIONS<br>TRANSFORMATION FROM CENTRALIZED AND AUTOCRATIC MANAGEMENT TO DECENTRALIZED                                                               | IMAGINATIVE HIGH-QUALITY H/W (DATA GENERAL ONE, HW 10000)<br>TOO SMALL TO BE A GENERALIST IN AN ERA OF SPECIALIZATION<br>TRADITIONAL OEM PRICE-PERFORMANCE ORIENTATION   | MANAGEMENT UNHEALTHY AND UNCERTAIN<br>TOO SMALL TO BE A GENERALIST IN AN ERA OF SPECIALIZATION<br>TRADITIONAL OEM PRICE-PERFORMANCE ORIENTATION |

**COMPETITIVE ANALYSIS**

| PRIORITY                    | 1                                            | 2                                                     | 3                                                   | 4                                                                           |
|-----------------------------|----------------------------------------------|-------------------------------------------------------|-----------------------------------------------------|-----------------------------------------------------------------------------|
| BASIS OF COMPETITION        | PRODUCTS & SERVICES THAT MEET CUSTOMER NEEDS | QUALITY PERFORMANCE & RELIABILITY (IEEE EX-CITATIONS) | PRICE (ABILITY TO MANAGE FOR COMPETITIVE ADVANTAGE) | SERVICE (DELIVERY, EDUCATION & MAINTENANCE & S/W POST SALES ADMINISTRATION) |
| IBM                         | 0 → +                                        | +                                                     | +                                                   | ++                                                                          |
| APOLLO                      | +                                            | +                                                     | 0                                                   | -                                                                           |
| APPLE                       | +                                            | +                                                     | +                                                   | 0                                                                           |
| MANG                        | -                                            | -                                                     | 0                                                   | -                                                                           |
| DG                          | -                                            | 0                                                     | 0                                                   | -                                                                           |
| HP                          | -                                            | +                                                     | -                                                   | 0                                                                           |
| MOTOROLA (EMBEDDED SYSTEMS) | +                                            | -                                                     | +                                                   | -                                                                           |
| ALTOS                       | -                                            | -                                                     | -                                                   | -                                                                           |

KEY: + COMPETITOR BETTER THAN DEC  
0 COMPETITOR ABOUT EQUAL TO DEC  
- COMPETITOR NOT AS GOOD AS DEC

**DEC's COMPETITIVE POSITION (LE only)**



**4 BUSINESS UNIT DESCRIPTION**

**SCOPE**

- DEC'S DMS ACTIVITIES EVOLVED OVER 20 YEARS THROUGH MANY INDEPENDENT PRODUCT DEVELOPMENT EFFORTS.
- CURRENT CONSOLIDATION OF MOST H/W ENGINEERING AND SOME S/W DEVELOPMENT WITHIN THE DMS SYSTEMS AND TECHNOLOGY GROUP (LEST)... INCLUDES PCS (RAINBOW, PRO AND DECMATE), MS'S (MICROVAX BASED AND HIGH END MS'S), AND TEAM COMPUTING (PDP-11 AND MICROVAX SYSTEMS).
- THE FOLLOWING OPERATING UNITS WITHIN LEST REPRESENT PART OF THE ORGANIZATION RESPONSIBLE FOR DEC'S DMS BUSINESS:

|                         |                                 |
|-------------------------|---------------------------------|
| 7/85 STAFFING (APPROX.) |                                 |
| 161                     | PCSG GROUP (PERSONAL COMPUTING) |
| 239                     | WORK SYSTEMS GROUP              |
| 330                     | MSD GROUP (TEAM COMPUTING)      |

**FUNCTIONAL SUPPORT GROUPS**

|     |                |
|-----|----------------|
| 426 | SEG            |
| 186 | LEDAPE         |
| 137 | ADMINISTRATION |

**CHARACTERISTICS**

- DEC HAS BEEN LOSING DMS BUSINESS AND MISSING EMERGING MARKET OPPORTUNITIES.
- DEC CURRENTLY HAS AT LEAST 12 PRODUCTS IN THE DMS SPACE; THESE PRODUCTS DO NOT PLAY WELL TOGETHER AND OFTEN OVERLAP.
- CURRENT HOLES IN THE DMS PRODUCT LINE: VERY LOW-COST DMS WS; TRUE AI WS; UNIVERSAL "WINDOWING" S/W; HIGH-END COLOR TERMINAL; LOW-COST MULTUSER SYSTEM, SERVER OR DUMB TERMINAL; INADEQUATE APPLICATIONS S/W IN SOME AREAS.
- PROLIFERATION OF OVERLAPPING PRODUCTS HAS CONFUSED DEC'S CUSTOMERS AND SALESFORCE, MADE THE SALES TASK MORE DIFFICULT, AND INCREASED COSTS OF S/W DEVELOPMENT AND FIELD SUPPORT.
- ENGINEERING-DRIVEN PRODUCT AND MARKET DEFINITIONS AND IN SOME CASES PRESENTATIONS (E.G., ETHERNET WS'S) ARE MISSING THE MARK. PRODUCT STRATEGIES HAVE HAD A H/W FOCUS AND HAVE BEEN FORMULATED WITH INSUFFICIENT INFORMATION ABOUT THE MARKET. TO DATE, NO DMS PRODUCT CAN TRULY BE SAID TO BE AN UNQUALIFIED SUCCESS.
- DMS ENGINEERING AND MARKETING ACTIVITIES HAVE BEEN FRAGMENTED & UNCOORDINATED (MULTIPLE ENGINEERING AND MARKETING GROUPS OPERATE WITH DIFFERENT CONCEPTS AND ASSUMPTIONS ABOUT MARKETS, CUSTOMERS, PRODUCT REQUIREMENTS AND PRIORITIES).
- THERE HAS BEEN NO CLEAR CONSENSUS OR STATEMENT OF WHAT DMS' ROLE SHOULD BE AS A STRATEGIC PART OF DEC'S OVERALL BUSINESS.
- DEC'S SENIOR MANAGEMENT IS AMBIVALENT ON THE QUESTION OF THE IMPORTANCE OF MANY OF DMS' PRODUCTS TO DEC'S FUTURE.
- DEC'S SENIOR MANAGEMENT IS UNCERTAIN OF THE SPECIFIC MARKETS, GOALS AND APPROACHES THAT DMS SHOULD PURSUE.
- DEC'S EXPERIENCE WITH COMPUTER STORES, ADVERTISING AND MASS DISTRIBUTION HAS INFLUENCED MANAGEMENT'S VIEW ADVERSELY IN THESE AREAS.

**5 DEC'S CULTURE & BELIEFS (relevant to DMS)**

OVERALL, DEC EXECUTIVES, MANAGERS, SUPERVISORS & PROFESSIONAL STAFF BEHAVE AS THOUGH THEY BELIEVE THAT:

- BUSINESS STRATEGY = PRODUCT STRATEGY.
- COMMON GOALS AND UNIFIED LEADERSHIP FOR RELATED FUNCTIONAL GROUPS ARE NOT ESSENTIAL FOR BUSINESS SUCCESS.
- DEC'S SUCCESS HAS BEEN, AND WILL CONTINUE TO BE, BASED FIRST & FOREMOST ON ITS H/W. DEC CAN ENGINEER ITS WAY TO SUCCESS IN THE LE MARKET.
- CONSENSUS IS EXTREMELY IMPORTANT BUT DIFFICULT TO OBTAIN.
- MOST MARKETING INPUT IS VIEWED A PRIORI AS OF QUESTIONABLE VALUE.
- IT'S MORE FUN TO CREATE NEW PRODUCTS THAN TO FIX/IMPROVE OLD ONES; IF YOU LAUNCH ENOUGH NEW PRODUCTS, SOME WILL BE SUCCESSFUL.
- DEC IS A VALID MODEL FOR THE COMPUTER MARKET IN GENERAL; PRODUCTS THAT ARE VALUED BY DEC ENGINEERS WILL BE SUCCESSFUL IN THE OUTSIDE WORLD.
- ALL DEC PRODUCTS ARE EXPECTED TO YIELD THE SAME PERCENT PROFIT MARGINS.
- DEC CAN'T MAKE MONEY IN THE LE.
- INTERNAL COMPETITION AMONG ENGINEERING AND MARKETING GROUPS IS HEALTHY.

**6 DMS STRENGTHS & WEAKNESSES**

**STRENGTHS**

- DEC'S GENERAL IMAGE AS A MANUFACTURER OF WELL ENGINEERED HARDWARE.
- TECHNICAL EXPERTISE AND RESOURCES.
- LARGE OEM BASE.
- LARGE INSTALLED BASE.
- ACCESS TO LARGE AMOUNTS OF CAPITAL.
- DEC'S EDGE IN THE NETWORKING AND COMMUNICATIONS AREA (INTERCONNECTABILITY) NOW BEING APPLIED TO THE LE.
- FLEXIBLE ORGANIZATION THAT SUPPORTS INNOVATION, INITIATIVE AND ENTREPRENEURIAL BEHAVIOR.
- LARGE INTERNATIONAL SALES AND SERVICE ORGANIZATION.
- INTERNATIONAL PRODUCT DELIVERY.
- AFTER SALES SERVICE (REPAIR, TRAINING, S/W SERVICES, ETC.).

**WEAKNESSES**

- LACK OF COORDINATED BUSINESS FOCUS & CONTROL.
- ORGANIZATION-DRIVEN STRATEGIES; ENGINEERING-DRIVEN CULTURE.
- LACK OF GOALS AND STRATEGIES WHICH ARE WIDELY UNDERSTOOD AND COMMITTED TO, AND LACK OF DISCIPLINED FOLLOW-THROUGH ON THEIR IMPLEMENTATION.
- UNDERDEVELOPED & FRAGMENTED MARKETING FUNCTION; UNFOCUSED MARKET STRATEGY.
- DIFFICULTIES IN COORDINATING AND FOCUSING EFFORTS ACROSS FUNCTIONS.
- HIGH COSTS.
- LACK OF DISCIPLINE IN ACHIEVING LOW-COST OPERATION.
- WEAK FINANCIAL CONTROLS; TRUE REVENUES AND COSTS BY PRODUCT ARE UNKNOWN.
- TOO MANY PRODUCTS, POORLY DIFFERENTIATED.
- MARKETS PERCEIVE DEC AS POOR REGARDING TIME-TO-MARKET (BRINGING PRODUCTS TO MARKET WHEN PROMISED).
- INWARD-LOOKING ENVIRONMENT AND BEHAVIOR.
- DEC IS PERCEIVED AS NOT A LEADING EDGE VENDOR AND NOT STRONGLY COMMITTED TO THE LE.
- INSUFFICIENTLY TRAINED SALESFORCE.
- HARD TO DO BUSINESS WITH.
- LACK OF EFFECTIVE RESPONSE TO COMPETITORS' ACTIONS; SLOW RESPONSE TO COMPETITORS' PRODUCT ADJUSTMENTS.

**7 PAST STRATEGIES & CRITIQUE**

GO AFTER MARKET SHARE AGGRESSIVELY IN PC/MS SPACE WITH EXPECTATIONS OF IMMEDIATE HIGH RETURNS; TRY MULTIPLE PRODUCTS SIMULTANEOUSLY AND HOPE THAT MOST OR ALL WOULD BE WINNERS.

**REASONS FOR FAILURE**

- NO INTEGRATED PLAN; NO WIDESPREAD BUY-IN TO PLAN; NO SUBSEQUENT MODIFICATION TO PLAN AS EXPERIENCE ACCUMULATED.
- ENGINEERING GROUPS WERE MAKING KEY BUSINESS DECISIONS.
- INSUFFICIENT UNDERSTANDING OF MARKETS.
- COMPETITION AMONG HIGHLY FRAGMENTED ENGINEERING & MARKETING GROUPS.
- PRODUCTS OVERLAPPED, WERE CONFUSING, WERE LATE, WERE INCOMPLETE, & WERE OVERPRICED.
- NO ONE GROUP OWNED/CONTROLLED THE RESOURCES FOR IMPLEMENTATION.
- ASSUMED MAJOR BEHAVIORAL CHANGES IN DEC (SALES, ORDER, ETC.), WHICH DIDN'T OCCUR.
- BYPASSED OEM BASE.

**12 KEY PREMISES/ASSUMPTIONS**

PROPOSED STRATEGIES AND ACTION PLANS ARE BASED ON THE FOLLOWING PREMISES:

- A FUNDAMENTAL BASIS FOR DEC'S BUSINESS STRATEGY IS TO TRY TO NEUTRALIZE COST AS A COMPETITIVE ISSUE. DEC CAN COMPETE WITH PRICES 10-15% ABOVE THE LOWEST PRICED VENDOR BY PROVIDING VALUE-ADDED THROUGH MARKET FOCUS, SERVICE AND PRODUCT FUNCTIONALITY OR PERFORMANCE.
- DEC WILL BECOME A LOW-COST PRODUCER (BUT NOT LOWEST COST).
- BECAUSE LARGER ORGANIZATIONS NEED & WILL COME TO WANT AND UNDERSTAND THE VALUE OF INTERCONNECTABILITY AND/OR A COMMON ARCHITECTURE, THIS FEATURE MUST BE A FUNDAMENTAL ELEMENT OF DEC'S OVERALL STRATEGY.
- IN DEC'S LARGER ACCOUNTS, DEC PRODUCTS MUST BE ABLE TO CO-EXIST WITH THOSE OF OTHER VENDORS, TYPICALLY IBM.
- THERE ARE SIGNIFICANT DIFFERENCES BETWEEN THE NEEDS AND CONCERNS OF SMALL AND LARGE ORGANIZATIONS WITH REGARD TO PURCHASING COMPUTING SOLUTIONS AND TOOLS.
- DEC IS IN THE PROCESS OF MOVING TOWARDS SELLING MARKET/CUSTOMER FOCUSED SOLUTIONS (E.G., "COMPLETE PRODUCTS," ROADMAPS, ETC.).
- IN MOST CASES, VALUE-ADDED WILL BE REQUIRED TO TRANSFORM DEC'S OFFERINGS INTO TRULY COMPLETE SOLUTIONS BY OEMS, CMPS, CUSTOMERS' IN-HOUSE INTEGRATORS, ETC.).
- DEC NEEDS TO OFFER PRODUCTS AT MULTIPLE LEVELS OF INTEGRATION.
- THE RELATIVE IMPORTANCE OF H/W (BOTH AS AN ELEMENT OF THE SOLUTION AND AS A SOURCE OF REVENUE) WILL CONTINUE TO SHRINK OVER TIME AS A PROPORTION OF THE TOTAL SOLUTION FOR CUSTOMERS.
- DEC'S OVERALL STRATEGY IS TENDING TOWARDS AN AGGRESSIVE PURSUIT OF A SELECTED SET OF MARKETS USING DIRECT SALES AND OEM/CHANNELS MARKETING FOR THE REST.
- BECAUSE DEC'S SALES EFFORTS ARE GEARED TO & AIMED AT HIGH DOLLAR VOLUME ACCOUNTS, DMS SYSTEMS AND SOLUTIONS MUST BE DESIGNED, "PACKAGED" AND MARKETED ACCORDINGLY.

**13 KEY ISSUES**

- HOW CAN BETTER INTEGRATION BE ACHIEVED BETWEEN SWS & FIELD SALES WHEN IMPORTANCE OF SYSTEM SELL IS INCREASING?
- HOW TO GET NEEDED RESOURCES (ESPECIALLY PEOPLE) ALLOCATED TO STRATEGY I & II PROJECTS (SEE SECTION 10) BY RELEVANT GROUPS OUTSIDE LEST?
- HOW TO ACHIEVE MORE OF THE SALESPERSON'S "SHARE OF MIND" WITH REGARD TO DMS' OFFERINGS?
- HOW TO GET DEC GROUPS OUTSIDE LEST TO BUY IN TO THE DMS STRATEGY?
- HOW TO DEVELOP AN INTEGRATED STRATEGY FOR THE SMALL BUSINESS MARKET (PRODUCTS, CHANNELS, BUSINESS MODELS, ETC.).
- HOW TO BE EFFECTIVE IN SMALL, STANDALONE SALES AS WELL AS IN INTEGRATED SALES TO BOTH LARGE AND SMALL ORGANIZATIONS?

**8 PAST FINANCIAL PERFORMANCE**

**LEST METRIC SUMMARY**

| LEST* MODEL     | GROSS MARGIN | OPERATING PROFIT MARGIN | ROA  |
|-----------------|--------------|-------------------------|------|
| LEST** HISTORY: |              |                         |      |
| FY 85           | 26%          | (12%)                   | (8%) |
| FY 84           | 30%          | (25%)                   | (8%) |
| FY 83           | 41%          | 4%                      | 3%   |
| FY 82           | 61%          | 24%                     | 24%  |
| FY 81           | 60%          | 28%                     | 28%  |

**COMPETITIVE MODELS:**

| MODEL  | GROSS MARGIN | OPERATING PROFIT MARGIN | ROA |
|--------|--------------|-------------------------|-----|
| IBM    | 50%          | 24%                     | 20% |
| APPLE  | 49%          | 13%                     | 20% |
| APOLLO | 60%          | 17%                     | 16% |
| ALTOS  | 38%          | 14%                     | 29% |

\*BASED ON FY 84 NES.  
\*\*INCLUDES: MICROVAX, PDP-11, PRO, WORKSTATIONS, RAINBOW, DECMATE AND CHIPS/BOARDS.

**SECTIONS 9-11 (SEE PAGE 4)**

**14 RISK ASSESSMENT**

**SOURCES OF RISK OF FAILURE TO IMPLEMENT STRATEGIES SUCCESSFULLY**

- TRADITIONAL CULTURAL/BEHAVIORAL NORMS IN DEC MAY BE TOO STRONG AND DEEPLY ROOTED TO CHANGE IN THE NEXT 2-4 YEARS.
- KEY FUNCTIONS IN DEC OUTSIDE LEST MAY BE INSUFFICIENTLY RESPONSIVE TO THE REQUIREMENTS OF THE STRATEGY.
- ORGANIZATIONAL CHANGES (STRUCTURE AND STAFF) IN DEC.
- PREEMPTION BY OTHER PRIORITIES.
- TOO FEW MANAGERS HAVE A GOOD, COMPREHENSIVE UNDERSTANDING OF THE DYNAMICS OF THE MICROCOMPUTER SEGMENT OF THE COMPUTER BUSINESS.
- MANY DEC MANAGERS LACK CONFIDENCE THAT HE CAN WIN IN THE LE.

**RISK ASSESSMENT**

| RISK FACTORS                              | LEVEL OF RISK |        |      |
|-------------------------------------------|---------------|--------|------|
|                                           | LOW           | MEDIUM | HIGH |
| PROBABILITY OF ASSUMPTIONS BEING CORRECT  |               | X      |      |
| *AMBITIOUSNESS OF OBJECTIVES & STRATEGY   |               |        | X    |
| MANAGEMENT TRACK RECORD                   |               | X      |      |
| GENERAL MANAGEMENT COMPETENCE             |               |        | X    |
| THINNESS OF MANAGEMENT STRUCTURE          |               |        | X    |
| ORGANIZATION'S RESPONSIVENESS             |               |        | X    |
| *UNFAMILIARITY OF STRATEGIES              |               |        | X    |
| *CONSISTENCY OF STRATEGY WITH DEC CULTURE |               |        | X    |
| OVERALL RISK                              |               |        | X    |

\*HEAVILY WEIGHTED.

PDP-11 STUDY  
=====

OBJECTIVES:

- o DIAGNOSE THE REASONS FOR THE SIGNIFICANT DECLINE IN PDP-11 PROFIT
- o PROPOSE A BUSINESS PLAN TO INCREASE PROFIT AND REVENUE WITHOUT:
  - + JEOPARDIZING THE INSTALLED BASE
  - + AN INCREMENTAL CORPORATE INVESTMENT
  - + CONFLICTING WITH THE VAX STRATEGY
- o PROPOSE AN ORGANIZATIONAL APPROACH TO ENSURE ACHIEVEMENT OF BUSINESS PLAN

PDP-11 STUDY  
=====

MAJOR FINANCIAL CONCLUSIONS  
-----

o FY85 PERFORMANCE:

|                      | <u>SYSTEMS</u> | <u>AFTER MARKET</u> | <u>TOTAL</u> |
|----------------------|----------------|---------------------|--------------|
| NOR                  | 491            | 861                 | 1332         |
| % OF TOTAL           | 35             | 65                  | 100          |
| OPERATING PROFIT (%) | < 8>           | 21                  | 10.6         |

o SYSTEM BUSINESS:

|                    | <u>FY81</u> | <u>FY85</u> |
|--------------------|-------------|-------------|
| SYSTEMS SOLD (QTY) | 30K         | 27K         |
| NOR (\$M)          | 957         | 471         |
| PROFIT (%)         | 18          | < 8>        |

o SIGNIFICANT MIX SHIFT FROM UBUS (HIGH END) TO QBUS (LOW END)

o MANUFACTURING COST FLAT EXCEPT FOR CMC WHICH IS "4x" MORE (3% TO 11%)

? o ENGINEERING AND MARKETING COSTS STILL AT A HIGH LEVEL

o SALES EFFORT/COST:

- YIELDS UNDER GOALS (33% OEM)
- FIELD COST = \$4000/SYSTEM vs \$7000 PRODUCT COST
- SELLING TO/MAINTAINING ACTIVE BASE

o PRICING:

- EMPHASIS ON MARK UP vs PROFIT
- ✓ - NOT GEARED TOWARDS "CAPTIVE", WHAT MARKET WILL BEAR
- ✓ - HAVE NOT PRICED FOR END OF LIFE/MIGRATION

✓ o EUROPE BUSINESS 16 POINTS MORE PROFITABLE THAN U.S.  
(PRICING, ALLOWANCES, FIELD COST + MARKETING)

PDP-11 MARKETING OPPORTUNITY  
=====

o VAX VOIDS (\$100 MILLION)

FOCUS ON PDP-11 NICHEs THAT COMPLEMENT VAX (WHILE NICHEs EXIST)

- + SMALL BUSINESS
- + UNIX
- + FACTORY WORKSTATION
- + PROCESS CONTROL
- + REAL TIME
- + COMMUNICATIONS

o EUROPE/GIA (\$100 MILLION)

- + EUROPE BOOKING SAME NUMBER OF SYSTEMS AS U.S.
- + PROACTIVELY MARKETING PDP-11's

o MEV OPPORTUNITY (\$120 MILLION)

- + MEV BUYS BOARD & SELLS MICRO-11 SYSTEM AT MUCH LOWER PRICE
- + DEC OBTAINS \$2K BOARD SALE AND LOSES \$20K SYSTEM SALE

o INSTALLED BASE (\$200 MILLION)

PDP-11 STUDY

PROPOSED ORGANIZATION APPROACH

o FORM A PDP-11 BUSINESS MANAGEMENT TEAM

- FOCUSED ON THE STRATEGIC MANAGEMENT OF BUSINESS
- GOALED TO ACHIEVE A 20% OPERATING PROFIT
- ENABLED THROUGH STRONGLY SUPPORTED CROSS-FUNCTIONAL RELATIONSHIPS
- LED BY MSD PBU MANAGEMENT

o FUNCTIONALITY ON THE TEAM

| <u>EXISTING</u>     | <u>ADD NEAR TERM</u>              | <u>ADD-FUTURE</u> |
|---------------------|-----------------------------------|-------------------|
| PBU MANAGEMENT ✓    | <u>SALES/CHANNEL MANAGEMENT</u> ✓ | F.S.              |
| H/W ENGINEERING ✓   | MANUFACTURING ✓                   | S.W.S.            |
| S/W ENGINEERING ✓   | A.U.G. ✓                          | T.P.L.            |
| PRODUCT MARKETING ✓ | "VAX VOID" MARKETING ✓            |                   |
| S/W APPLICATIONS ✓  |                                   |                   |

o FUNCTIONAL RELATIONSHIPS

- DEDICATED TO PDP-11 EFFORT
- GOALED/MEASURED BY PBU MANAGEMENT
- MATRIX REPORTING RELATIONSHIP TO PBU MANAGEMENT



! ! ! ! !  
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I n t e r o f f i c e M e m o

TO: BOB PUFFER

DATE: WED 29 DEC 1982 4:04 PM EST  
FROM: WIN HINDLE  
DEPT: CORPORATE OPERATIONS  
EXT: 223-2338  
LOC/MAIL STOP: ML10-2/A53

MESSAGE ID: 5186252176

SUBJECT: PDP-11 TASK FORCE

You may want to see the report.

WH:dw

ATTACHED: MEMO;129

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! d ! i ! g ! i ! t ! a ! l !  
! ! ! ! !

I n t e r o f f i c e M e m o

TO: WIN HINDLE

DATE: WED 29 DEC 1982 10:54 AM EDT

cc: KEN OLSEN

FROM: ANDY KNOWLES

DEPT: SMALL SYSTEMS GROUP

EXT: 278-4567

LOC/MAIL STOP: UP2-4/UP2-4

MESSAGE ID: 5186251636

SUBJECT: PDP-11 TASK FORCE

Last spring when the Boston Consulting Group studied our COEM problem they pretty much told us why the PDP-11 sales had dropped off. A copy of their report is available.

/sc



\*\*\*\*\*  
\* d i g i t a l \*  
\*\*\*\*\*

TO: see "TO" DISTRIBUTION  
cc: OPERATIONS COMMITTEE:  
RON SMART

DATE: TUE 28 DEC 1982 1:40 PM EST  
FROM: WIN HINDLE  
DEPT: CORPORATE OPERATIONS  
EXT: 223-2338  
LOC/MAIL STOP: ML10-2/A53

MESSAGE ID: 5186117248

SUBJECT: PDP-11 TASK FORCE

We need to understand why the PDP-11 has not done well in sales in the past 18 months. I would like you six to be a Task Force to investigate this and report back to the Operations Committee. Would Bob Puffer please be Chairman of the group.

This should be done rapidly and I suggest you plan to make your report at the Operations Committee Meeting on January 25th. Ken Olsen's memo on the subject is attached.

WH:dw

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I n t e r o f f i c e M e m o

TO: WIN HINDLE

DATE: MON 20 DEC 1982 1:05 PM EDT

FROM: KEN OLSEN

cc: OPERATIONS COMMITTEE:  
RON SMART

DEPT: ADMINISTRATION

EXT: 223-2301

LOC/MAIL STOP: ML10-2/A50

MESSAGE ID: 5185339525

SUBJECT: PDP-11 TASK FORCE

We have had very good results from the various task forces we have initiated. I think our managers enjoy taking this responsibility and pursuing the question in detail. The amount of work they put into it and their objectivity makes me very proud of the managers we have.

Our PDP-11 has dropped off drastically in sales since this last year, and I think we owe it to the company to find out why. I would like you to pick a committee to research this question and report to us fairly soon.

There are a number of reasons why sales might drop off, and here are a few sample questions to start the thinking.

- 1) Did the CT drain away all the finances and the good people from the 11 engineering?
- 2) Did the cancelling of the 11/70 present a message to the Sales Department that the 11 was dead?
- 3) Did the Product Lines steer the Field away from the 11 into the VAX but before the VAX was ready to take it, either with software or with equipment?
- 4) Did the Sales Training group stop teaching the 11 and therefore give a message to the Sales Department that the 11 was obsolete?
- 5) Was the packaging of the 11 too dull and too old-fashioned?
- 6) Did we suffer because we did not call the 11 a microcomputer, or a personal computer?
- 7) Did our marketers and our salesmen not understand the advantages over chips, even 32-bit chips, and therefore just passively allowed the business to disappear to chips?
- 8) Did we not understand the enormous advantages of RT software, and the other software we have on the 11?
- 9) Did our marketers fight Unix instead of selling the 11 as the

original Unix machine?

- 10) Did our salesmen and our marketers not understand all the software, all the aids, all the experience, and all the options?
- 11) Did we knock comprehensive selling literature that told all the features, all the aids, and all the software we have to offer on the 11?

KHO:ep  
K02.S3.45

28-DEC-82 15:19:43 S 02401 CORE  
CORE MESSAGE ID: 5186150087

"TO" DISTRIBUTION:

ROGER CADY  
JACK MACKEN

MIKE GUTMAN  
MIKE MARSHALL

BILL LEWIS  
BOB PUFFER

29-DEC-82 12:15:28 S 01613 MLCG  
MLCG MESSAGE ID: 5186217929

2. Micro-VAX-II

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I n t e r o f f i c e M e m o

TO: \*WIN HINDLE  
KEN OLSEN  
JIM OSTERHOFF  
JACK SHIELDS  
JOHN SIMS

DATE: WED 17 APR 1985 2:58 PM EST  
FROM: JACK SMITH  
DEPT: ENG & MFG ADMIN.  
EXT: 223-2231  
LOC/MAIL STOP: ML01-4/A54

MESSAGE ID: 5270264665

SUBJECT: UVAX II DISCOUNT - TYPE 2

With our decision to move uVAX II discount to Type 2 we have some work to do, monitoring to put it in place and system solutions to develop internally.

What I think I heard yesterday:

o The next forecast from the Field will outline 22K uVAX II units for FY86 broken down by AMC and further segmented by End User and OEM.

A Jack Shields action item.

o A process is required to carefully monitor our OEM's for changes in attitude relative to DEC as a sole source supplier. The key element is not necessarily changes in revenue demand (orders placed on DEC). I suspect the revenue, at least in the short term, will continue to follow traditional trend lines. I would suggest the two most significant elements indicating changes in attitude toward DEC are as follows:

- Next generation design-ins. Stayed with DEC. Went dual source. Switched to another vendor.
- Conversion to a UNIX approach versus a proprietary operating system approach. An indication they want to be vendor independent.

A Jack Shields action item.

o Regardless of our intentions, OEM's will feel we have taken X dollars out of their pockets and put it into ours. "You didn't give us time to plan our Business". This will be compounded if we blind-side them, i.e., if their first exposure is via a discount schedule. We did a fairly good job of personal pre-notification with our Jupiter customers. We have less than one month to assure this same process is initiated.

A Ward MacKenzie (working with Jack Shields) action item.

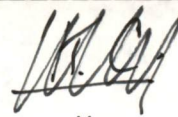
o Last but not least -- with our move to a more End User orientation, we will require additional DEC developed or procured and supported system applications to assure we can provide the "total customer solution". In addition, we should identify the key selling expertise and training required to approach customers previously left to an OEM solution.

A Jack Shields action item.

I would suggest we schedule periodic reviews of our progress in the above areas.

17-APR-85 16:02:52 S 03317 CLEM  
CLEM MESSAGE ID: 5270261465

MicroVAX-II



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I n t e r o f f i c e M e m o

TO: see "TO" DISTRIBUTION

cc: JEFF KALB

DATE: FRI 29 MAR 1985 6:11 AM EST  
FROM: STEVE TEICHER  
DEPT: WORKSYSTEMS PROG OFF  
EXT: 225-4900  
LOC/MAIL STOP: HL2-2/N07

MESSAGE ID: 5268347836

SUBJECT: MICROVAX II AND FIELD PROFITS

I am very worried about the concept of using MicroVAX II to be the vehicle for raising field profits.

MicroVAX II is part of the change from time-sharing to distributed computing.

MicroVAX II and VAXstation II are not systems in the sense that we have sold systems in the past.

MicroVAX II is a component. VAXstation II is a component.

Your customers are moving to distributed computing systems. Mentor said it clearly yesterday, i.e. they did not buy Apollo for the hardware of the workstations..they knew that there were better choices. They bought Apollo because of the distributed system architecture.

Mentor also said to us, that distributed systems must be not popular at Digital. This is also what Boeing said, and what GM is saying.

Customers do not believe that we understand distributed systems, or will want to sell them. Boeing people said that VAX's are time-sharing machines and time-sharing is antique..They may buy a few more, but not for long. Same thing is true at Berkeley.

Since IBM was never into time-sharing, they are perceptually better off in the market than us.

Now, we have the MicroVAX II being introduced and we are falling into the trap of thinking it is a system. We are focusing our energy on it, feeling we can make up our margins on it...The problem is that it is very vulnerable. If we try to make big bucks on it, people will buy a few, but they will use them as file servers. Even though we try to make it unattractive to add big disks to them, if they are going to be used as file servers people will buy a few, regardless of the price, because they only need a few of them.

The result will be, that at whatever price we pick, we will sell a bunch of them in the beginning. Next few quarters will be fine, but the way that they are used will be critical. If MicroVAX's are used in time-sharing mode, or as servers, and do not get used as workstations, or as distributed computers on some interconnect either ETHERNET or TOKEN RING...then we are in big trouble.

The problem is, that during all of the forecasting process, the focus has been on the individual product, i.e. various configurations of microVAXen. I tried to point out that you should be forecasting distributed systems and the components of them, and not the MicroVAX II in particular.

It is terribly important that we stop focusing our energy on components of systems and on systems.

I think that we are headed to a place where we may miss the opportunity to convert from time-sharing to distributed systems...and the results will be the biggest disaster in the company history. The Q1 earnings problem a while back will look like a pimple compared to the decline that we will see if we don't change our headsets from a system being a cpu to a system being a collection of cpu's connected by nets.

This doesn't answer how we get field margins back up...but it is certainly a disaster to focus on MicroVAXII as the vehicle. MVAXII is a component..it is a help because it allows us to move to distributed systems in an orderly manner, but trying to get our margins back on it, will be a perfect way for IBM and others to kill us. In fact, I'll bet IBM can't wait for us to introduce MVAX II as a time-sharing system. I can see their adds now...boasting how IBM never got hooked into time-sharing because they knew all along that it was evil...bad...

I surely wish Gordon Bell was here for this round, because he would understand this...and never let us fall into the trap of holding onto trees that are past their prime.

/steve teicher

In the next note, I will send you a few paragraphs from the Worksystem plan. In it I say something about profits. I believe that there is evidence that if we move to selling distributed systems, as Ken Olsen has been suggesting, that our revenues and profits could increase tremendously, as I said to Jack Smith's staff yesterday.

It is difficult to get this inserted into the forecast cycle, for a variety of reasons, including the fact that we do not seem to forecast software or nets, which are critical elements of the profit picture. We only forecast things that we 'manufacture' and since software is an afterthought to our revenue picture, no need to forecast it...

Sorry to be so critical, but I don't know any other way to say...watch out we are going to create disaster out of potential victory..

"TO" DISTRIBUTION:

DAVE GRAINGER  
WARD MACKENZIE  
BILL STEUL

\*WIN HINDLE  
JACK MACKEEEN

ELI LIPCON  
JIM OSTERHOFF

Micro VAX-II Pricing

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I n t e r o f f i c e M e m o

TO: see "TO" DISTRIBUTION

cc: \*WIN HINDLE  
JIM OSTERHOFF

DATE: SUN 31 MAR 1985 5:38 PM EST  
FROM: STEVE TEICHER  
DEPT: WORKSYSTEMS PROG OFF  
EXT: 225-4900  
LOC/MAIL STOP: HL2-2/N07

MESSAGE ID: 5268549289

SUBJECT: PRICING INPUTS FROM BILL

I have been working with Bill Steul to try and help think of how we get volume where we want it..

/steve

"TO" DISTRIBUTION:

DICK ANGEL  
JEFF KALB

RON HAM  
CATHY LEAROYD

DON JENKINS  
BARRY REYNOLDS

ATTACHED: MEMO;26



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I n t e r o f f i c e M e m o

TO: STEVE TEICHER

DATE: SAT 30 MAR 1985 10:47 AM EST  
FROM: BILL STEUL  
DEPT: ENGINEERING SYS GRP  
EXT: 231-5469  
LOC/MAIL STOP: MRO/MR03-1 Q17

MESSAGE ID: 5268449128

SUBJECT: RE: MICROVAX II AND FIELD PROFITS

Steve, I agree with you. We should price our entry level workstation products aggressively and charge more for high functionality multi-user systems. Will spend some time with Peter Smith and Peter Graham in Europe next week revisiting and sorting out the CAEM pricing strategy for uVAX II. Keep pushing us -- you are on the right track. Sometimes I forget how valuable our Components Group experience was; I am glad you keep reminding me!  
Have a nice (restful) weekend.  
Regards.

2- Micro VAX-TI

APR 01 1985

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\* digital \*  
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INTEROFFICE MEMORANDUM

TO: DISTRIBUTION

DATE: 29 MAR 85  
FROM: Ken Swanton  
DEPT: Corporate Planning  
EXT: 223-3038  
LOC/MAIL STOP: MLO10-1/U49

SUBJECT: MINUTES OF KEN OLSEN MICROVAX REVIEW MEETING

This memo describes the items reviewed and decisions made at yesterday's (3/28) MicroVAX/VAXstation review meeting.

ATTENDEES:

Dick Angel, Ed Barron, Steve Behrens, Dick Berube, Dick Clinton, George Evans, John Forde, Bob Fowkes, Dave Grainger, Ron Ham, Jeff Kalb, Matt Kochan, Dom LaCava, Cathy Learoyd, Jessie Lipcon, Dick Loveland, Ward MacKenzie, Ken Olsen, Jim Osterhoff, Laura Persily, Bruce Ryan, Grant Saviers, Mary Ann Serra, Jack Smith, Bill Steul, Ken Swanton, Steve Teicher, Dick Wright.

MINUTES:

1. Announcement Date

The announcement date was not discussed as there was no contention that the announcement date will be May 14.

2. Announcement Events

Matt Kochan described the "internal" announcement events that are planned, whereby on May 14 all salesrep's and approximately 25,000 customers will attend announcements at 129 field locations (see exhibit 1).

Matt Kochan and Dick Berube then proposed that a single large press event not be scheduled for May 14. Instead, a series of private one-on-one announcements will be made with selected magazines, newspapers and consultants (see exhibit 2). Prior to the one-on-ones a white paper will be developed containing the announcement day message. The white paper will be developed by Base Product Marketing and Corporate Communications with input from the Marketing V.P.'s. The message should be bold and exciting rather than something more bland and homogenous that all Digital people can be "comfortable with". Following the private one-on-one announcements, a press release will be made on May 14. Matt and Dick's proposal was approved.

### 3. Pricing/Discounts/Margins

Dave Grainger reviewed the current status of pricing. All prices are approved by PAC (Pricing & Announcement Committee), supported by all areas and SMU's, and are scheduled for MSSC on April 8 for final approval (see exhibit 3). The five standard MicroVAX systems are stable at the 95%+ level.

Dave then reviewed the FY86 margin analysis which compares expected FY86 MicroVAX/VAXstation margins to current 750 and 780 margins (see exhibit 4). The margins appeared to be attractive. Additional analysis was requested to show how the margin comparison breaks down by channel (OEM vs. End User) and to show the fixed and variable costs and breakevens for MicroVAX/VAXstation in FY86.

Dave then reviewed the current status of the discount discussions (see exhibit 5). It was decided that the discount question is a major Corporate decision requiring the Board of Directors' approval. Ward MacKenzie got the action item to prepare the discount proposal for presentation to the Executive Committee on April 9 at 1:00. After Executive Committee review and approval, the discount proposal will go to the April 22 Board of Directors for final review and approval. It was noted that an April 22 final decision would be likely to make it difficult to identify the discount schedule for each MicroVAX line item in the May 14 announcement material. It was suggested that to fix this problem a letter could be used temporarily, as is done by the post office when it changes stamp prices.

### 4. VAXstation Emphasis

Cathy Learoyd and Steve Teicher proposed that the VAXstation announcement be strengthened to include: two configurations (adding an RD53 configuration), mentioning a compatible color VAXstation is coming (but not pricing it or taking orders for it), and mentioning that "of course, as with any serious workstation competitor", the family will be extended with additional compatible workstations above and below the announced set (see exhibit 6). Their proposal was approved.

Cathy also reviewed the additional steps that have been initiated in the last week to strengthen the VAXstation launch and marketing and sales efforts (see exhibit 7).

### 5. RD53 & MAYA

Dave Grainger asked if problems with the RD53 and MAYA would cause any of the expected system configurations that will be announced in May to be delayed. Jack Smith and Grant Saviers indicated that this was not a problem.

6. Status Reports not Presented

Two additional status reports were prepared for the meeting but were not presented for two reasons: the meeting ran out of time and there were no significant problems to be discussed on them. These were:

- a. John Forde's status report on the current Q4 monthly build and ship plan (see exhibit 8).
- b. Ken Swanton's status report on the marketing roadmaps and salesguide. The roadmaps for announcement day distribution to salesrep's are now almost complete and look good for this point in time. The SMU's are now running benchmarks and preparing the announcement day salesguide for sales managers (which will contain a catalog of all MicroVAX/VAXstation marketing programs, a list of all announcable applications software availability dates, and suggested local target accounts).

NOTE: Due to confidentiality, Exhibits 4 & 8 are only attached to copies of this memo that go to Executive Committee members, Dave Grainger, Jeff Kalb, and the Mktg V.P.'s.

/mmp  
Attachments

DISTRIBUTION:

|                    |                |                |
|--------------------|----------------|----------------|
| Dick Angel         | Win Hindle     | Laura Persily  |
| Ed Barron          | Bob Hughes     | Bruce Ryan     |
| Steve Behrens      | Jeff Kalb      | Grant Saviers  |
| Dick Berube        | Matt Kochan    | Ken Senior     |
| George Chamberlain | Ed Kramer      | Mary Ann Serra |
| Dick Clinton       | Dom LaCava     | Jack Shields   |
| Jim Cudmore        | Cathy Learoyd  | John Sims      |
| Cecil Dye          | Jessie Lipcon  | Jack Smith     |
| George Evans       | Dick Loveland  | Pete Smith     |
| John Forde         | Ward MacKenzie | Bill Steul     |
| Bob Fowkes         | Ken Olsen      | Ken Swanton    |
| Dave Grainger      | Jim Osterhoff  | Steve Teicher  |
| Ron Ham            |                | Dick Wright    |

INTERNAL ANNOUNCEMENT PLAN

**I. BEFORE MAY 14TH:**

**A. TRAIN SALES REPS**

- U.S.: SUCCESS TRAIN, 9 CITIES, 4/15 TO 5/9
- EUROPE/GIA: EACH COUNTRY TRAINS

**B. TRAIN PRESENTORS FOR ANNOUNCEMENT DAY**

- TRAINING HELD IN 7 CITIES:  
  
(BOSTON, ATLANTA, LA, PARIS, SYDNEY,  
TOKYO, HONG KONG)

**II. MAY 14TH AT 129 FIELD OFFICES:**

- SALES/SERVICE
- EXECUTIVE LUNCHEON
- OTHER CUSTOMERS
- DEMOs

EXTERNAL ANNOUNCEMENT PLAN

I. DEVELOP MESSAGE

A. CONTENT

- DIGITAL'S INTEGRATED COMPUTING STRATEGY
- DIGITAL'S COMPETITIVE ADVANTAGE
- HOW MVAXII SIGNIFICANTLY ADVANCES STRATEGY

B. PROCESS

- CORPORATE COMMUNICATIONS/BASE PRODUCT MARKETING
- PRODUCE "WHITE PAPER"

II. COMMUNICATE MESSAGE

A. HOW: METHOD OF DELIVERY

- ONE ON ONE'S

B. WHO: AUDIENCE

- INDUSTRY CONSULTANTS
- BUSINESS PRESS
- TECHNICAL PRESS
- FINANCIAL ANALYSTS

C. WHEN: MAY 1 --> MAY 22

PRICING

- THE PRICING OF THE 5 STANDARD SYSTEMS IS APPROVED BY PAC AND SUPPORTED BY ALL SMU'S AND AREAS.
- THE CONFIGURATIONS OF THE 5 STANDARD SYSTEMS IS 95% STABLE.
- FINAL APPROVAL EXPECTED AT MSSC ON 8 APRIL.

**86 UVAX  
(SYSTEMS, W/S, BOARDS)**

**(1ST HALF 85)**

#700m

|              |           | <u>780</u> | <u>750</u> |
|--------------|-----------|------------|------------|
| NOR          | 100%      | 100%       | 100%       |
| EXP: MFG/WTY | <u>43</u> | <u>43</u>  | <u>46</u>  |
| GROSS MARGIN | 57%       | 57%        | 54%        |
| FIELD COST   | 19        | 27         | 27         |
|              | --        | --         | --         |
| FIELD MARGIN | 38%       | 30%        | 27%        |

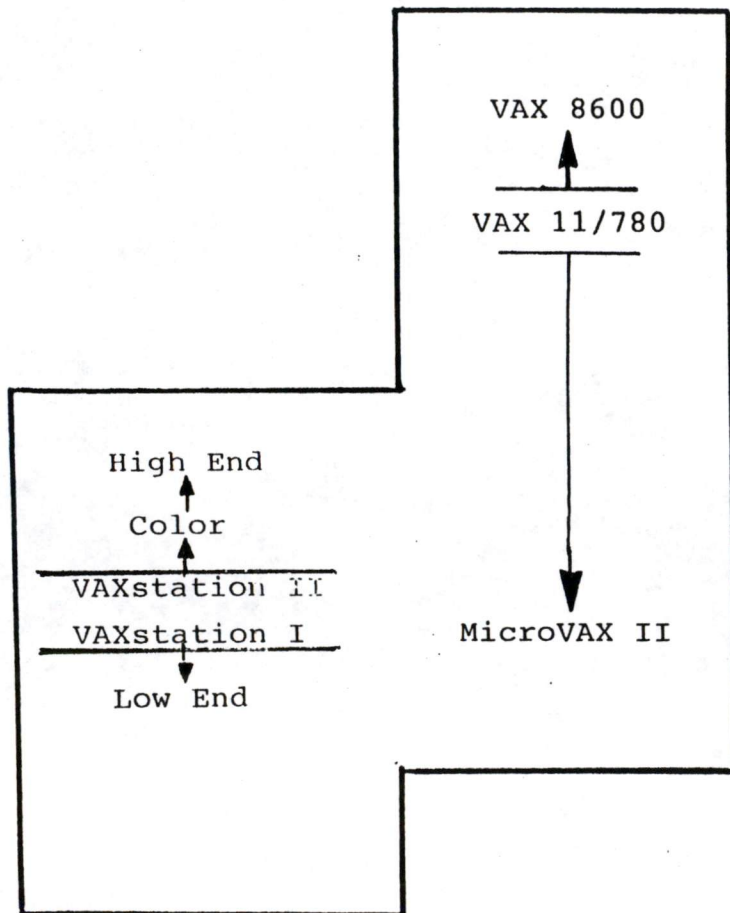


DISCOUNT

THE ISSUE IS CAPTURED IN THREE KEY AREAS:

- 1) MARGIN: THE FIELD CLEARLY HAS MARGIN PROBLEMS AND VIEWS MICROVAX AS A VEHICLE TO CONTRIBUTE TO IMPROVING MARGIN.
  - 2) PRODUCT OPPORTUNITY: IT SEEMS CLEAR THAT WE DO BEST BY COUPLING CHANGES IN PRICE AND/OR DISCOUNT PHILOSOPHY TO THE INTRODUCTION OF A MAJOR NEW PRODUCT, SUCH AS MICROVAX.
  - 3) MICROVAX PERFORMANCE RANGE: MICROVAX FROM BOTH A PERFORMANCE RANGE AND PRICE RANGE SPANS PRODUCTS WHICH ARE OFFERED TODAY ON BOTH TYPE 1 AND TYPE 2 CURVES.
- SEVERAL MEETINGS WITH JACK MACKEN, PETE SMITH AND OTHERS HAVE IDENTIFIED SEVERAL OPTIONS. A SMALL WORKING GROUP IS LOOKING AT THESE OPTIONS.
  - GOAL IS TO HAVE A RECOMMENDATION FOR MSSC ON 8 APRIL.

# VAXstation II Announcement :



## TWO-TIERED FAMILY MESSAGE:

- FAMILY OF WORKSTATIONS
- FAMILY WITHIN THE VAX FAMILY

## PROPOSED SPECIFICS FOR ANNOUNCEMENT:

- ANNOUNCE MONOCHROME VAXSTATION II AVAILABLE NOW - PRICE X (WITH 2 STD CONFIG. I, AND III)
- ANNOUNCE COLOR, ULTRIX, AND DISTRIBUTED SYSTEMS COMMITMENT
- INDICATE UPWARD AND DOWNWARD EXPANSION OF A VAXSTATION FAMILY IS PLANNED. (JUST AS WAS DONE FOR ORIGINAL VAX II/780 ANNOUNCEMENT)

## CURRENT SPECIFICS FOR ANNOUNCEMENT

- ANNOUNCE MONOCHROME VAXSTATION II AVAILABLE NOW - PRICE X (1 STANDARD CONFIGURATION)
- NO FAMILY, NO FUTURE PLAN MESSAGE

# VAXstation II Launch

➔ TURN AROUND OUR MICROVAX II/VAXSTATION II LAUNCH  
 EMPHASIS:  
           95%/5%                      60%/40%

➔ TARGET 50 ACCOUNTS ON AN ONGOING BASIS  
 (≈ 1/2 OUR FY86 OPPORTUNITY)

## CORPORATE

↓  
 SMU'S/BPM'S (UNDERWAY):  
 APPLICATION ROADMAPS, AND  
 MESSAGES, APPLICATIONS,  
 MARKET PROGRAMS

↓  
 TARGET W/S OEM'S  
 (UNDERWAY BY PETE SMITH  
 AND JACK MACKEEN)

➔ STRENGTHEN MAY 14  
 ANNOUNCEMENT WITH  
 - PROGRAM (INCL. COLOR)  
 MESSAGE,  
 - VAXSTATION II UNITS  
 ANNOUNCEMENT WITH  
 IN SALES OFFICES (0-->120)

➔ CREATE FOCUSED COMPETITIVE  
 DATA, TACTICS AND STRATEGIES

➔ Applications

➔ VAXSTATION SWAT TEAM OF  
 APPLICATIONS, PRODUCT,  
 NETWORKING EXPERTS TO  
 ASSIST DISTRICTS UPON  
 REQUEST WITH FOLLOW-  
 THROUGH

➔ Understand Sales Issues  
 on VAXstation I

## DISTRICT

↓  
 IDENTIFY ACCOUNT TARGETS  
 RESOURCES NEEDED TO  
 CLOSE (AGREED BY US AREA)

↓  
 PROVIDE MONTHLY FEEDBACK  
 ON WINS AND LOSSES  
 (AGREED BY US AREA)

↓  
 RM & DM DISTRICT LAUNCH BRIEFING  
 (ALREADY AGREED BY US AREA)

➔ KEEP ONGOING VAXSTATION DEMO  
 UNIT AND SUPPORT IN EACH OFFICE.  
 (ALREADY AGREED BY US AREAS)

➔ COMMITMENT TO SPECIALIZED SALES  
 TRAINING AND S/W SUPPORT  
 TRAINING TO FORM DISTRICT  
 SWAT TEAMS

➔ CUSTOMER SEMINARS

SUMMARY OF BUILD & SHIP PLAN (UNITS)

Q4 FY85

|                                    | <u>MARCH</u> | <u>APRIL</u>               | <u>MAY</u> | <u>JUNE</u> |
|------------------------------------|--------------|----------------------------|------------|-------------|
| <u>COMMITTED REVENUE PLAN</u>      |              |                            |            |             |
| MICROVAX II SYSTEMS:               |              |                            |            |             |
| I                                  |              |                            |            | 500         |
| II                                 |              |                            |            | 0           |
| III                                |              |                            |            | 0           |
| IV                                 |              |                            |            | 0           |
| V                                  |              |                            |            | 0           |
| OTHER                              |              |                            |            | 0           |
| SUBTOTAL                           |              |                            |            | 500         |
| VAXSTATION II'S<br>BOARDS          |              |                            |            | 0           |
|                                    |              |                            |            | 0           |
| TOTAL                              |              |                            |            | 500         |
| <u>TOTAL PROD. BUILD PLAN</u>      |              |                            |            |             |
| MICROVAX SYSTEMS                   |              | PLYMOUTH ROCK,<br>SMU, ETC |            | PRODUCTION  |
| I                                  |              | 25                         |            | 525         |
| II                                 |              | 0                          |            | 0           |
| III                                |              | 200*                       |            | 550**       |
| IV                                 |              | 0                          |            | 0           |
| V                                  |              | 0                          |            | 0           |
| OTHER                              |              | 0                          |            | 0           |
|                                    |              | * 2 RD52                   |            | **RD53      |
|                                    |              | TK50                       |            | TK50        |
|                                    |              | BA123                      |            | BA123       |
| VAXSTATION II'S<br>BOARDS          |              | 25                         |            | 150         |
|                                    |              |                            |            | 400         |
| TOTAL                              |              | 250                        |            | 1625        |
| <u>SHIP PLAN (SYS &amp; W/S'S)</u> |              |                            |            |             |
| FIELD TEST                         | 30           | 3                          | 8          | 6           |
| TO SMU'S                           |              | 2                          | 30         |             |
| TO EUROPE                          |              | 1                          | 12         |             |
| "PLYMOUTH ROCK" (FIELD DEMOS)      |              |                            | 162        |             |

NOTE: MFG'G BUILDING AT A RATE OF 50 SYSTEMS/WEEK.

MARCH 28, 1985

*Miss VAX II*



## MICROVAX II PRESENTATION

PURPOSE -- STATUS OF MICROVAX II

TOPICS:

- o PRODUCT GOALS
- o PRODUCT HIGHLIGHTS
- o MARKETS
- o COMPETITION
- o FINANCIAL INFORMATION
- o SUMMARY

DOM LACAVA  
MARCH 25, 1985

## MICROVAX II PRODUCT GOALS

- o BE THE PRICE/PERFORMANCE LEADER IN THE EMERGING SUPER MICRO MARKET (\$20K TO \$70K PRICE RANGE)
  
- o ACHIEVE STRONG MARKET POSITION BEFORE OTHER COMPETITIVE ENTRIES
  
- o EXPAND THE VAX FAMILY ARCHITECTURE
  
- o BE RECOGNIZED AS THE BROADEST COMPATIBLE 32-BIT SYSTEM VENDOR IN THE INDUSTRY
  - o COMMON ARCHITECTURE
  - o INTEGRATED HARDWARE, SOFTWARE, COMMUNICATIONS
  - o CHIP TO CLUSTER

DOM LACAVA  
MARCH 25, 1985

## PRODUCT HIGHLIGHTS

- o FIRST SYSTEMS IMPLEMENTATION OF DIGITAL'S MICROVAX CHIP
  
- o RANGE OF OFFERINGS:
  - o MULTIUSER GENERAL PURPOSE SYSTEMS: \$20K TO \$70K
  - o WORKSTATIONS: \$26K TO \$50K
  - o LOCAL AREA NETWORKS
  - o BOARDS
  
- o COMPREHENSIVE AND FLEXIBLE SYSTEMS OFFERING
  - o SEVERAL PACKAGING ALTERNATIVES
  - o WIDE RANGE OF STORAGE
  
- o ANNOUNCEMENT AND SHIP MID-MAY

DOM LACAVA  
MARCH 25, 1985



## MARKETS

### CATEGORY

### TYPICAL APPLICATIONS

ENGINEERING

CAD/CAM  
SOFTWARE DEVELOPMENT

MANUFACTURING AUTOMATION

PROCESS CONTROL  
FACTORY FLOOR SYSTEMS

OFFICE AUTOMATION

OFFICE/WORD PROCESSING  
GENERAL BUSINESS

LABORATORY

DATA ACQUISITION  
SCIENTIFIC TEAM COMPUTING

EDUCATION

DEPARTMENT TIME SHARING  
ADMINISTRATIVE COMPUTING

OTHER

PETROLEUM EXPLORATION  
MEDICAL IMAGING  
TELECOMMUNICATIONS  
GOVERNMENT

DOM LACAVA  
MARCH 25, 1985

MICROVAX II VS. IBM.....AND OTHERS

- o 100% APPLICATION COMPATIBILITY FROM \$20K TO \$1,000K SYSTEMS
- o FAMILIYNESS, NOT POINT PRODUCTS

IBM SYSTEM 36, IBM 9000, SERIES 1

- o MORE COMPUTING CAPABILITY AND FUNCTIONALITY PER \$
- o FLEXIBILITY IN RANGE AND SIZE OF SOLUTION
- o LEADERSHIP POSITION IN THE ABILITY TO INTERCONNECT WITH OTHER VENDORS' SYSTEMS

**NO OTHER COMPUTER VENDOR CAN MAKE ANY OF THESE STATEMENTS!**

DOM LACAVA  
MARCH 25, 1985

## MARKETING MESSAGES

- o 6 TO 12 MONTHS AHEAD OF COMPETITION
  
- o A PERSONAL VAX ON A DESK
  
- o OEMS CAN EXPAND THEIR MARKET BY PROVIDING LARGE SYSTEM APPLICATIONS TO CUSTOMERS WHO COULDN'T AFFORD THEM
  
- o NOW, EVEN SMALL BUSINESS CAN AFFORD WHAT ONLY LARGER, WEALTHIER BUSINESSES COULD OWN

DOM LACAVA  
MARCH 25, 1985

FINANCIAL PERFORMANCE

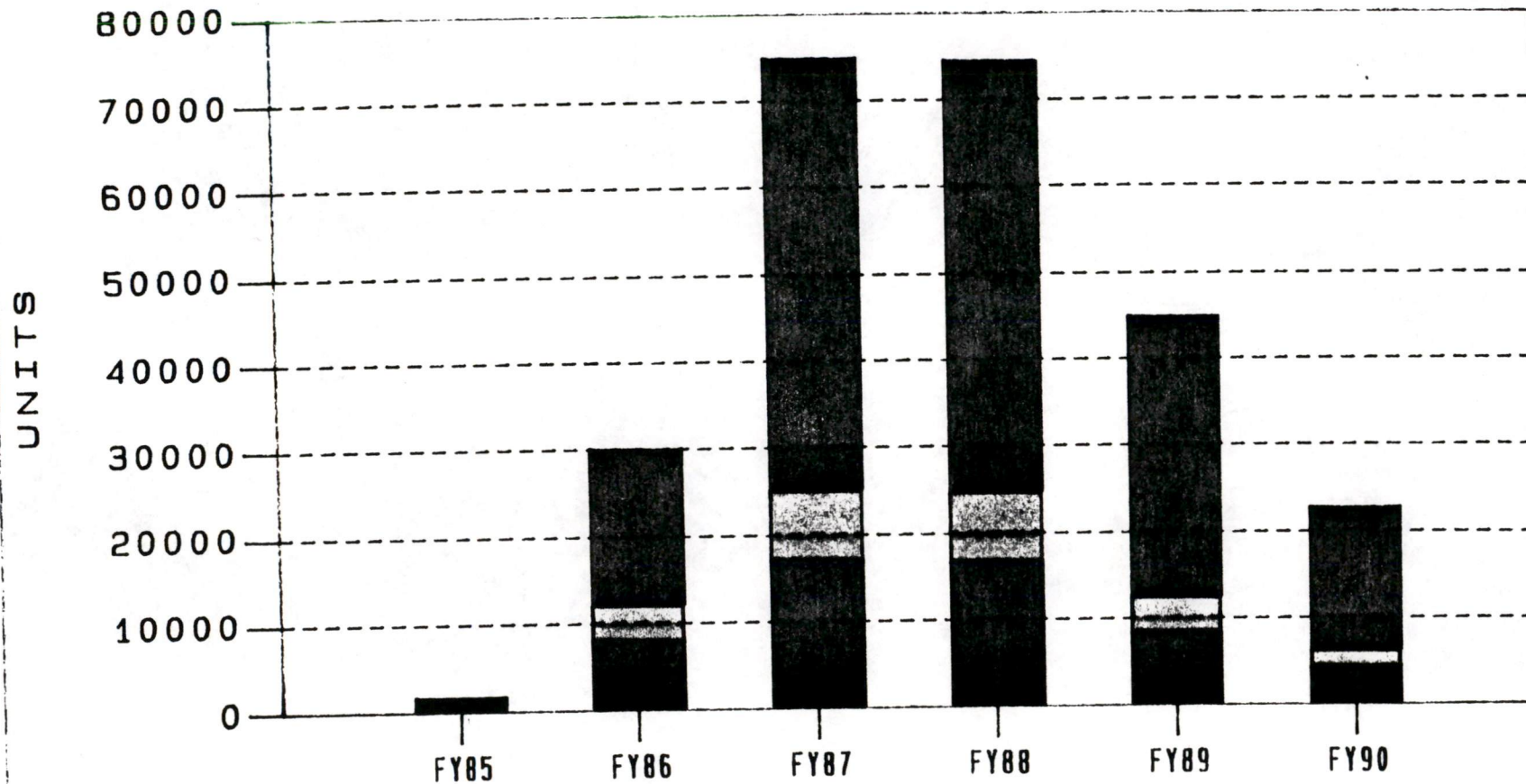
|                            | <u>FY86</u> | <u>FY84-FY90</u> |
|----------------------------|-------------|------------------|
| UNITS                      | 30,000      | 248,700          |
| REVENUE                    | \$816M      | \$6,081M         |
| PROFIT                     | \$98M       | \$959M           |
|                            | 12%         | 16%              |
| RETURN<br>ON ASSETS        | 19%         | 17% (AVG)        |
| INTERNAL RATE<br>OF RETURN |             | 33%              |
| ENGINEERING COST           |             | \$222M           |

DOM LACAVA  
MARCH 25, 1985

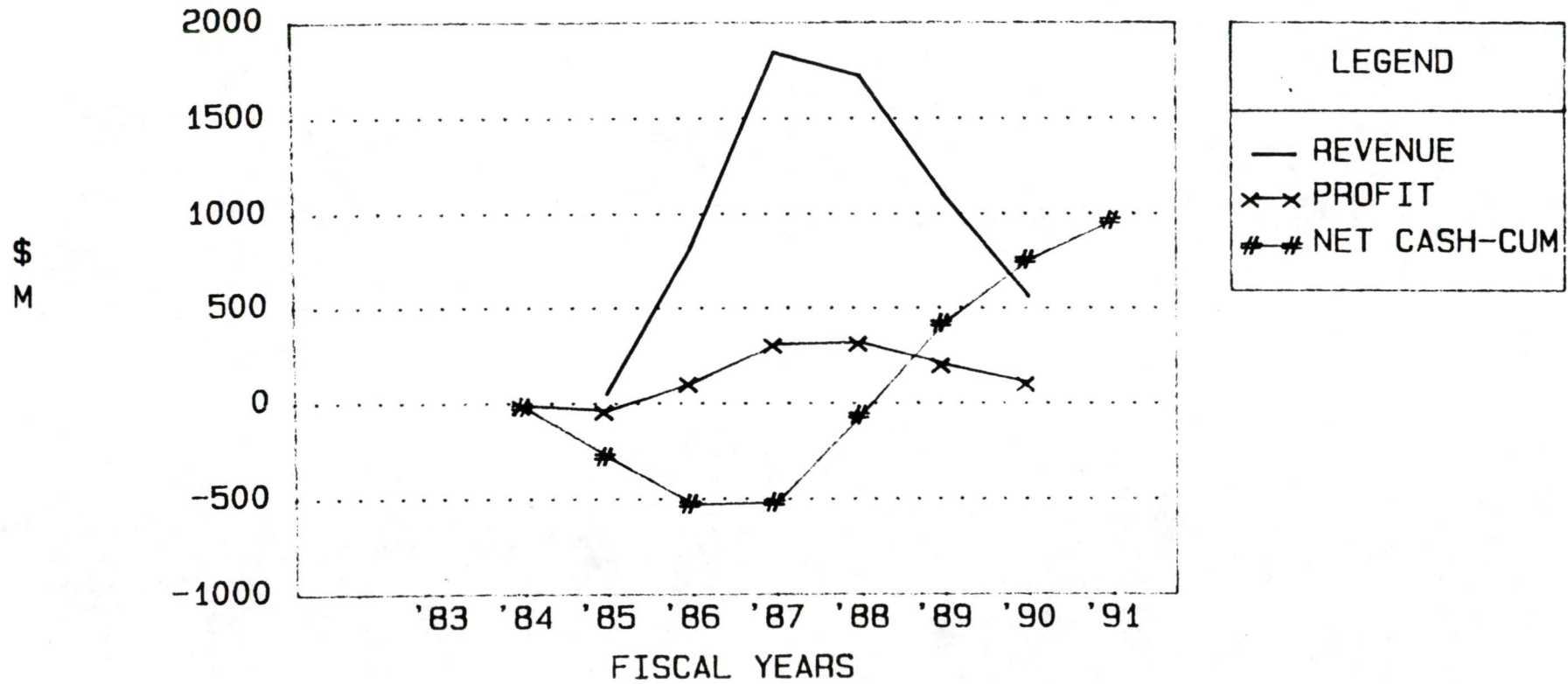
# VOLUME PROJECTIONS

LEGEND:

- Systems
- Workstations
- Boards



# MICROVAX II FINANCIAL PERFORMANCE



OUR CUSTOMERS SAY.....

"BEATS ALL COMPETITIVE WORKSTATION  
ENGINES EXCEPT APOLLO DN660"

BERKLEY CAD/CAM

"MAKES POSSIBLE NEW MARKETS, LITTLE HOSPITALS"

SHARED MEDICAL SYSTEMS

"UNQUALIFIED SUCCESS. EXCEED EXPECTATIONS"

APPLICON

"BEST THING SINCE SLIDED BREAD"

CARNEGIE MELLON

DOM LACAVA  
MARCH 25, 1985

## SUMMARY

- o FIRST 32 BIT SUPER MICRO PRICE/PERFORMANCE LEADER
  
- o OPENS NEW MARKET OPPORTUNITIES  
VAX WHERE IT'S NEVER BEEN BEFORE
  
- o SIGNIFICANT PROFIT GENERATOR
  
- o ONE ARCHITECTURE -- CHIPS TO CLUSTERS,  
DESKTOP TO DATA CENTER...

**NO OTHER COMPUTER VENDOR HAS THIS CAPABILITY**

DOM LACAVA  
MARCH 25, 1985



*Mnew-VAX*

! \_ ! \_ ! \_ ! \_ ! \_ ! \_ ! \_ !  
! d ! i ! g ! i ! t ! a ! l !  
! \_ ! \_ ! \_ ! \_ ! \_ ! \_ ! \_ !

I n t e r o f f i c e M e m o

TO: see "TO" DISTRIBUTION  
cc: see "CC" DISTRIBUTION

DATE: FRI 22 MAR 1985 2:55 PM EST  
FROM: PETER MASUCCI  
DEPT: MICRO'S MARKETING  
EXT: 225-6436  
LOC/MAIL STOP: HLO2-1/N10

MESSAGE ID: 5267641484

SUBJECT: MARKETING OF MICROVAX CHIPS

Dick Heaton suggested I write to you and describe some recent MVAX chip sales activities. I trust this information will be useful to you. If I can be of any assistance, please call.

--- --- --- --- --- --- --- --- --- --- --- ---

APPLICON two weeks ago placed an order for \$6 million dollars worth of 785 systems. The customer states unequivocally that our efforts to help them design MVAX chips into their products led directly to this system order.

APPLICON'S strategy is to offer a total design environment to its customers. Thus the workstation, and the servers, must exist as a total system. Their alternative was to design-in the 32032 from NATIONAL, and begin the migration of their software from VMS to UNIX. We intervened, and offered the MVAX chip. Provided technical support. And SOLD them on the notion that DIGITAL, VAX, and VMS, would provide them with a more comprehensive environment upon which to base their entire company's business. After months of evaluation, they chose to stay with us. The 785 order was their signal that we'd won.

A similar situation now exists with TEKTRONIX. A company with whom we have done business with for many years. Within TEK a faction had gained strength and had designed-in the 32016 (16 bit) chip into some of their graphics products. But when they began thinking about migrating to the 32032 (32 bit version), the question of total computing environment was raised. Did they really want to move away from DIGITAL and VAX? Could the 32032, and UNIX, and GOULD mini's running UNIX, really support their long term corporate mission?

Once again, we intervened. Offered the MVAX chip as a viable engine for their low-end needs, AND large VAX systems for the rest of their plans. The answer was evident in a recent visit I made to TEK;...YES! DIGITAL's VAX strategy, chips through systems made more sense. The results are not completely in, but according to the Portland sales group manager, we may very well have helped secure a short range order for \$10 million in 785 and 8600 systems.

--- --- --- --- --- --- --- --- --- --- --- ---

A key hypothesis concerning the sale of the MVAX chips, is that they will enhance and strengthen our VAX systems sales efforts. Last summer I developed a model which attempted to relate low-end sales to high-end systems sales. The model postulated that an accounts decision to use one architecture over another in a low-end product, would significantly effect its choice of high-end systems. This phenomenon should come as no surprise to us at DIGITAL since we've been promoting systemness and networking interconnects for many years now.

Low-end products such as CAD workstations, machine controllers, certain communications equipment, medical instruments, etc., are becoming more and more sophisticated. As a result, many manufacturers of these products are beginning to increase the computing element of their products from 8 bit, to 16 bit, and now 32 bit architectures. And the choices for 32 bit architectures are beginning to increase. Over the past year or so, NATIONAL SEMICONDUCTOR (32032), MOTOROLA (68020), AT&T/WESTERN ELECTRIC (WE32100), INTEL (i80386), and ZILOG (Z80000), have all announced 32 bit microprocessors. All have interesting features, and all have certain performance capabilities that place them in the same general ballpark as our 750 and 780 class machines. As a matter of fact, they compare themselves to 780's, as do all other vendors.

The glue that these vendors are trying to offer to low-end systems and equipment manufacturers, is UNIX. The so called "portable" O/S is really beginning to take hold in many segments. Why?

I believe very strongly that most sophisticated users recognize that UNIX has many limitations, and that the VMS environment (with UNIX (ULTRIX) on occasion), is far superior and offers significant systems advantages over UNIX. So why haven't they come charging to our door?

This is where the decision to sell MVAX chips comes in. The ready availability at the chip level of 32 bit engines, that run UNIX, from MOTOROLA, NATIONAL, etc., offers many companies (especially start-ups) a fast way to jump aboard the 32 bit bandwagon. And as more and more companies utilize these chips and UNIX, more and more third parties produce application software and supporting hardware products. The result is that the ultimate end-user has many choices from which to make a selection. This activity is no different from what happened to many companies, DIGITAL included, with their PC offerings.

Now to the real issue. Just about every account I've ever dealt with has recognized that no product truly stands alone. They need to be interconnected. Information needs to be shared. People need to communicate. This is our message, AND one of our strongest selling points.

But what if the end nodes of the network are based on some other CPU architecture, and the software is UNIX? Do I really need VAX systems at the other end? Why shouldn't I shop around for the lowest priced minicomputer that runs UNIX and put them into

my network as file servers, and compute servers, etc? After all, they run UNIX and its portable, right?

These are tough questions to answer. Very few companies could even contemplate answering them. But we've done one better; we HAVE a solution. The only company that can offer architectural compatibility from a single chip to a cluster of 8600s...DIGITAL.

By selling chips to low-end, complementary applications, WE WILL influence systems sales. WE ALREADY HAVE.

In this age of systems and networks, I no longer have any doubts that a decision to use a particular microprocessor in a product, or machine, or instrument, or robot, WILL influence what it connects to. I want that connection to be DIGITAL.

Our MVAX chip marketing strategy continues to emphasize controlled selling into selected, complementary applications areas. We are excited about the prospects of locking-in the VAX architecture at the low-end, and thereby helping to sell many more VAX systems. Our immediate plans include expanding the target list to provide better market coverage.

Your continued support of our MVAX chip marketing strategy will be greatly appreciated. We will continue to keep you informed of our progress in this critical business.

Thank you!!

Regards,  
Peter Masucci

22-MAR-85 15:06:20 S 04165 MLCG  
MLCG MESSAGE ID: 5267412658

"TO" DISTRIBUTION:

\*WIN HINDLE  
JACK SMITH

KEN OLSEN

JACK SHIELDS

"CC" DISTRIBUTION:

DICK HEATON  
JACK MACKEN

JEFF KALB

WARD MACKENZIE

Micro VAX 2

MAYFLOWER PRESENTATION

To

MARKETING AND SALES STRATEGY COMMITTEE

FEBRUARY 11, 1985

DAVE GRAINGER  
JOHN FORDE  
JESSE LIPCON  
MATT KOCHAN  
CECIL DYE

## MICRO VAX II MSSC PRESENTATION

- INTRODUCTION -- 5 MINUTES -- DAVE GRAINGER
- PRODUCT POSITIONING/COMPETITION -- 20 MINUTES -- JOHN FORDE
- PRICING STRATEGY -- 20 MINUTES -- JESSE LIPCON
- ANNOUNCEMENT STRATEGY -- 20 MINUTES -- MATT KOCHAN
- SALES PLAN -- 20 MINUTES -- CECIL DYE
- WRAP-UP -- 5 MINUTES -- DAVE GRAINGER

## A G E N D A

- 0 MAYFLOWER HIGHLIGHTS
- 0 STRATEGIC PROGRAM GOALS
- 0 DELIVERABLES, FORECAST
- 0 INTERNAL POSITIONING
- 0 EXTERNAL POSITIONING

## MAYFLOWER HIGHLIGHTS

- 0 FIRST IMPLEMENTATION OF THE MICROVAX CHIP
- 0 SINGLE QUAD CPU MODULE WITH 256KB OR 1MB ON BOARD MEMORY
- 0 PERFORMANCE AT .8-.9 OF 11/780 - FIRST TO MARKET
- 0 FLOATING POINT PROCESSOR CHIP - INDUSTRY LEADER IN PERFORMANCE
- 0 9MB OF HIGH SPEED TIGHTLY COUPLED LOCAL MEMORY VIA 256K DYNAMIC RAM CHIPS - COMPLEMENTS SYSTEM PERFORMANCE
- 0 Q22 BUS IMPLEMENTATION - STANDARD Q BUS OPTIONS/PERIPHERALS
- 0 5 1/4" STORAGE PRODUCTS OR 14" DSA DISKS (WITH QDA) - LARGE SYSTEM CONFIGURATIONS

## MICROVAX II (MAYFLOWER)

### STRATEGIC PROGRAM GOALS

- 0 BE THE PRICE/PERFORMANCE LEADER IN THE EMERGING SUPER MICRO MARKET WITH A CLEAR FAMILY FOCUS
- 0 ATTAIN THE MAXIMUM MARKET SHARE AMONG \$10,000 TO \$40,000 32-BIT SMALL VIRTUAL SYSTEMS, BEFORE OUR TRADITIONAL COMPETITORS (IBM/D.G./HP/WANG, ETC.) AND THE NEWER SYSTEMS INTEGRATORS LIKE APOLLO, SUN, ALTOS, ETC., CAN ACHIEVE A SUPERIOR MARKET POSITION.  
"TODAY THERE IS NO CLEAR WINNER"
- 0 BE RECOGNIZED AS THE BROADEST 32-BIT SYSTEM VENDOR IN THE INDUSTRY WITH A COMMON ARCHITECTURE AND A FAMILY MESSAGE IN HARDWARE, SOFTWARE AND FULL NETWORK COMMUNICATIONS EXTENDING FROM THE MICROPROCESSOR UP TO THE LARGER SUPER MINIS



## MAYFLOWER

### BASIS FOR:

#### 0 BOARD LEVEL MICROCOMPUTERS:

- BOARD AND BOX MICROCOMPONENTS MARKET  
"SINGLE BOARD VAX"

#### 0 WORKSTATIONS:

- QVSS/QDSS HIGH RESOLUTION GRAPHIC SUBSYSTEMS
- 3RD PARTY GRAPHIC PROCESSORS I.E. TEKTRONIX,  
SYNERCOM

#### 0 MULTIUSER GENERAL PURPOSE MACHINES:

- SMALL BUSINESS COMPUTER
- TRADITIONAL TECHNICAL AND OEM APPLICATIONS

#### 0 LOCAL AREA SYSTEM SERVERS

- FILE
- PRINT
- DISK
- COMMUNICATIONS

## MAYFLOWER DELIVERABLES

### o CPU BOARDS

|          |                 |
|----------|-----------------|
| KA630-AA | 1MB CPU & FPU   |
| KA630-AB | 1MB CPU         |
| KA630-AC | 256KB CPU & FPU |
| KA630-AD | 256KB CPU       |

### o MEMORY BOARDS

|          |                    |
|----------|--------------------|
| MS630-AA | 1MB DUAL EXPANSION |
| MS630-BA | 2MB QUAD EXPANSION |
| MS630-BB | 4MB QUAD EXPANSION |

### o System Building Block

|              |                                     |
|--------------|-------------------------------------|
| 630QY-A2/3   | Micro PDP-11 Pedestal CPU, 1MB, FPU |
| 630QZ-A2/3   | Micro PDP-11 Rack, CPU, 1MB, FPU    |
| 630QB-A2/3   | World Box, CPU, 1MB, FPU            |
| * 630QC-A2/3 | H9642 Cabinet, CPU, 1MB, FPU        |

### o Upgrade Kit

|          |                                                                       |
|----------|-----------------------------------------------------------------------|
| 630UP-AA | 1MB CPU & FPU, RQDX2 Controller,<br>Patch Panel Insert, Documentation |
|----------|-----------------------------------------------------------------------|

\* KDA/RA81 System

VAX POSITIONING

|                           |     |       |         |      |
|---------------------------|-----|-------|---------|------|
| CPU PERFORMANCE<br>(MIPS) | 1.0 |       |         | 780  |
|                           | .8  | MV II |         |      |
|                           | .6  |       |         | 750  |
|                           | .3  | MV I  | 725/730 |      |
|                           |     | LOW   | MEDIUM  | HIGH |

FUNCTIONALITY

|                       |                       |                       |                       |
|-----------------------|-----------------------|-----------------------|-----------------------|
| ARCHITECTURE          | MICROVAX/<br>MICROVMS | VAX/VMS               | VAX/VMS               |
| COMPATIBILITY<br>MODE | No                    | Yes                   | Yes                   |
| BUS                   | Q                     | U                     | U, MASS, CI           |
| CLUSTERS              | No                    | No                    | Yes                   |
| TAPES &<br>PRINTERS   | SLOW/LOW<br>CAPACITY  | FAST/HIGH<br>CAPACITY | FAST/HIGH<br>CAPACITY |
| MEMORY                | PARITY                | ECC                   | ECC                   |
| BATTERY<br>BACKUP     | No                    | Yes                   | Yes                   |
| SYNCH LINE            | 56KBIT                | 1MBIT                 | 1MBIT                 |
| HIGH SPEED I/O        | No                    | NO                    | DR 750/780            |

IRM AT /SYS 36

1-3 User PC/AT

CPU WITH FPU  
2MB MEMORY  
40MB FIXED DISK  
1.2MB FLOPPY  
1 LINE  
XENIX  
\$12,374

4 User SYSTEM 36

5362 CPU  
256KB MEMORY  
90MB FIXED DISK  
FLOPPY MAGAZINE  
6 LINES  
SSP O/S  
\$35,570

MICROVAX II

SYSTEM I

\$20,840

SYSTEM II

\$23,340

EXPECTATIONS:

- o PC/AT+ WITH INTEL 386 CHIP (SIMILAR PERFORMANCE TO MVII CHIP)  $\cong$  \$15K
- o MICRO 4300 (4301)  $\cong$  \$40K
- o RISC 1-2MIP SINGLE User CAD STATION \$30-\$50K

WANG

VS 15

CPU (32 BIT)  
1MB MEMORY

76MB FIXED  
360KB FLOPPY

2x4230

16 LINES  
VS/OS

\$21.0K

\$10.5K/USER

VS 65

CPU (32 BIT)  
3MB MEMORY

147MB FIXED  
76MB REMOVABLE  
360 KB FLOPPY

4x4230 Vs WORK  
STATIONS

16 LINE  
VS/OS

\$63.3K

\$15.8K/USER

VS 85-S

CPU (32 BIT)  
5MB MEMORY

2 x 147MB DISK  
TAPE CARTRIDGE

4x4230 (\$3400 EA)

16 LINES  
VS/OS

\$98.0K

\$24.5K/USER

MICROVAX II

SYSTEM II

+ RX50 vs TK50  
+ 2X VT240  
- 1MB MEMORY

\$23.8K

\$11.9K/USER

SYSTEM III

+ 2ND RD53  
+ 4X VT240

\$45.0K

\$11.3K/USER

SYSTEM V

+ 4X VT240

\$74.9K

\$18.7K/USER

AT & T

3R2/300

WF 32000 CPU  
2MB MEMORY (\$2,200/MB)

32MB FIXED DISK  
720 KB FLOPPY

6 LINES

UNIX SYSTEM V

\$17,710

3R5/100

WF 32000  
3MB MEMORY (\$4,900/MB)

48MB F & R DISK

8 LINES

UNIX SYSTEM V

\$66,800

MICROVAX II

SYSTEM I

+DZQ11  
-DFQNA

\$20,440

SYSTEM III

\$31,190

DATA GENERAL

MV 4000 SC

2MB MEMORY

38MB FIXED DISK

15MB CARTRIDGE TAPE

737KB FLOPPY

AOS/VS OR DG/UX

\$38,400

MV 4000

3MB

147MB DISK

9/1600 RPI TAPE

8 LINES

AOS/VS

\$73,350

MICROVAX II

SYSTEM II

\$27.3K

SYSTEM III

+ 2ND RD53

\$38,790

GENERAL PURPOSE (SYSTEM INTEGRATORS)

DIGITAL  
MICROVAX II

ALTOS  
ACS 986-40

CONVERGENT  
TECHNOLOGY

NCR TOWER  
1632

DESIGN CENTER SYSTEMS

|              |               |            |            |            |
|--------------|---------------|------------|------------|------------|
| CPU          | KA630-AA/RA23 | M68000     | M68010     | M68000     |
| MEMORY       | 1MB           | 1MB        | 1MB        | 1MB        |
| DISK         | 70MB          | 64MB       | 50MB-200MB | 53MB       |
| BACK-UP      | 100MB TAPE    | 17MB TAPE  | 5MB DISK   | 20MB TAPE  |
| COMM         | DHV11 8 LINE  | 10 LINE    | 8 LINE     | 8 LINE     |
| SOFTWARE     | M VMS         | XENIX/UNIX | UNIX(CTIX) | UNIX SYS 3 |
| <u>PRICE</u> | \$20,940      | \$17,800   | \$20,000   | \$31,500   |



WORKSTATION MARKET

BLACK & WHITE

|                         | <u>DIGITAL</u>              | <u>APOLLO</u>              | <u>SUN MICROSYSTEMS</u>    |
|-------------------------|-----------------------------|----------------------------|----------------------------|
| MODEL                   | VS II                       | DN 3XX                     | 2/120                      |
| ARCHITECTURE<br>(PERF.) | MICROVAX CHIP<br>(.9 x 780) | 68010 (.6 x 780)           | 68010 (.6 x 780)           |
| MEMORY                  | 2MB                         | 2MB                        | 2MB                        |
| DISK                    | 31MB                        | 34MB                       | 34MB                       |
| BACKUP                  | 100MB TAPE +<br>RX50        | 1.2MB FLOPPY               | 17MB TAPE                  |
| MONITOR                 | 19" B/W(960x864)            | 17" (1024x800)             | 19" (1152x900)             |
| SOFTWARE                | MICROVMS/<br>ULTRIX-32M     | AEGIS                      | BERKELEY UNIX              |
| PRICE                   | \$25,090<br>\$25,840 (FPU)  | \$24,400<br>\$28,900 (FPU) | \$29,100<br>\$32,600 (FPU) |
| DATE*                   | 5/85                        | 1/85                       | 3/84                       |

\* LAST PRICE POINT OR FRS

WORKSTATION MARKET

BLACK & WHITE

|                         | <u>DIGITAL</u>             | <u>SUN MICROSYSTEMS</u>    | <u>TEKTRONIX</u> |
|-------------------------|----------------------------|----------------------------|------------------|
| MODEL                   | VS II                      | 2/50                       | 6210             |
| ARCHITECTURE<br>(PERF.) | MICROVAX CHIP<br>(.9x780)  | 68010 (.6x780)             | 32032 (.9x780)   |
| MEMORY                  | 2MB                        | 2MB                        | 2MB              |
| DISK                    | 31MB                       | 34MB                       | 32MB             |
| BACKUP                  | 100MB TAPE +<br>RX50       | 17MB                       | FLOPPY           |
| MONITOR                 | 19" R/W(960x864)           | 19"(1152x900)              | 19"(1024x768)    |
| SOFTWARE                | MICROVMS/<br>ULTRIX-32M    | BERKELEY UNIX              | UNIX             |
| PRICE                   | \$25,090<br>\$25,840 (FPU) | \$22,300<br>\$25,800 (FPU) | \$24,300<br>---  |
| DATE*                   | 5/85                       | 1/85                       | 2/85             |

\*FRS

### BASE CASE PRICING

- I. 2MByte, FP, RD52, RX50, QNA, Micro PDP-11 Box  
(ENTRY ETHERNET NODE) ~ \$20K
  - II. 2MByte, FP, RD53, TK50, DZQ, Micro PDP-11 Box  
(ENTRY 4-USER STANDALONE SYSTEM) ~ \$22.5K
  - III. 3MByte, FP, RD53, TK50, RX50, DHV, WORLD BOX  
(DESIGN CENTER 8-USER SYSTEM) ~ \$29K
  - IV. 5MByte, FP, 3-RD53, TK50, RX50, 2-DHV, WORLD BOX  
("HIGH-END" 16-USER SYSTEM) ~ \$43K
- 
- V. 5MByte, FP, RA81, TK50, RX50, 2-DHV, QNA, CAB  
("STRETCH" 16-USER SYSTEM) ~ \$60K

STANDARD SYSTEMS

| <u>SYSTEM</u> | I   | II  | III | IV  | V   | COMPOSITE |
|---------------|-----|-----|-----|-----|-----|-----------|
| %             | 14% | 28% | 34% | 12% | 12% |           |

HARDWARE PRICING

|                            |               |               |               |               |              |               |
|----------------------------|---------------|---------------|---------------|---------------|--------------|---------------|
| ORIGINAL MLP               | 19,840        | 22,340        | 28,690        | 43,040        | 61,590       | 31,330        |
| <u>INCREASES</u>           |               |               |               |               |              |               |
| WORLD BOX                  |               |               | 1,000         | 1,000         |              | 460           |
| CPU/1MB                    | 500           | 500           | 500           | 500           | 500          | 500           |
| EXP. MEMORY                | <u>500</u>    | <u>500</u>    | <u>1,000</u>  | <u>2,000</u>  | <u>2,000</u> | <u>1,030</u>  |
|                            | 1,000         | 1,000         | 2,500         | 3,500         | 2,500        | 1,990         |
| NEW S.O.P. MLP             | 20,840        | 23,340        | 31,190        | 46,540        | 64,090       | 33,320        |
| -STD. SYSTEM DISCOUNT      | <u>-2,000</u> | <u>-2,000</u> | <u>-2,000</u> | <u>-2,000</u> | <u>0</u>     | <u>-1,760</u> |
| STD SYST MLP               | 18,840        | 21,340        | 29,190        | 44,540        | 64,090       | 31,560        |
| NET STD SYSTEM HW INCREASE | -1,000        | -1,000        | +500          | +1,500        | +2,500       | +230          |

U.S. SOFTWARE PRICING

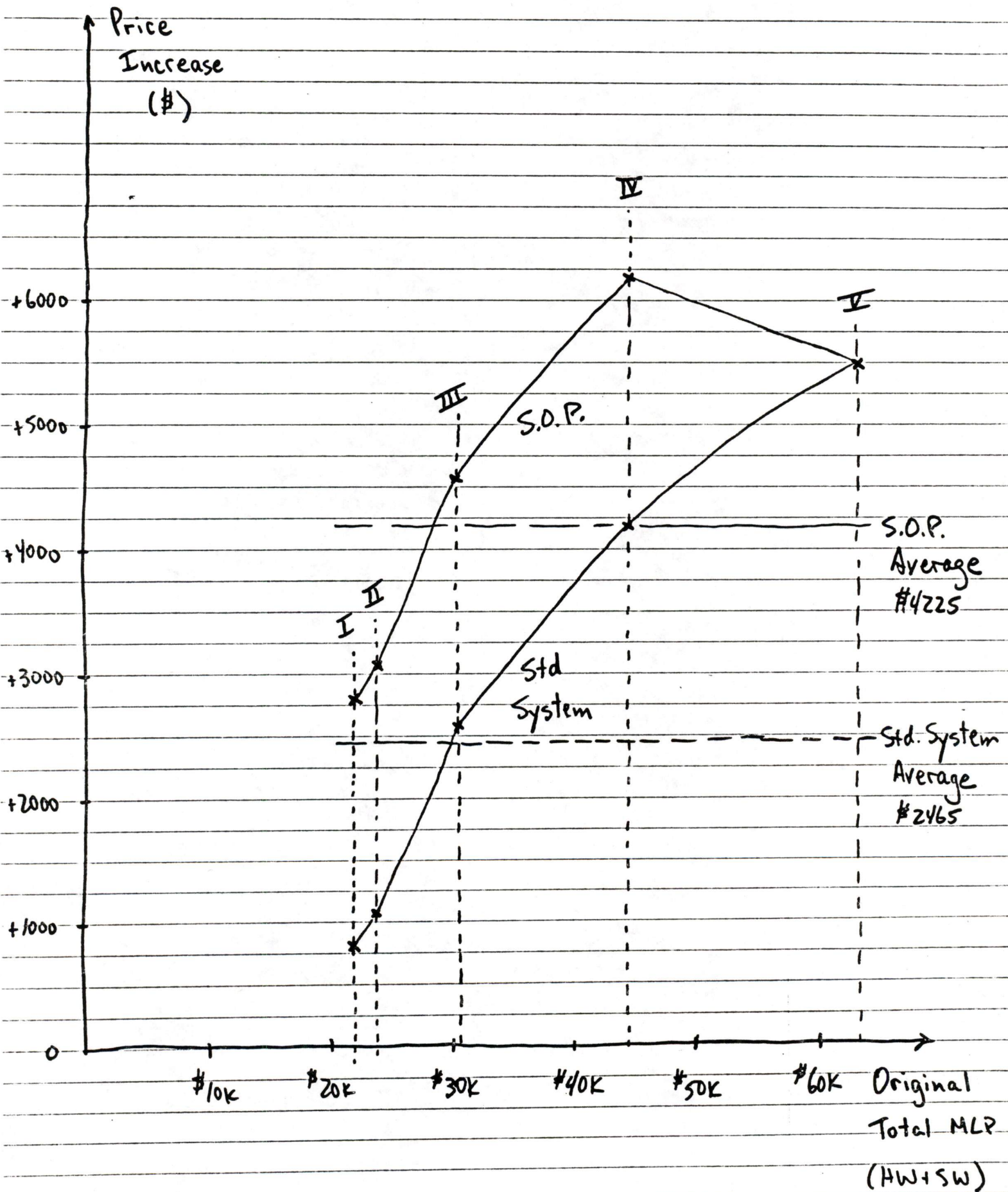
|                  |        |        |        |        |        |        |
|------------------|--------|--------|--------|--------|--------|--------|
| +1500 % BASE VMS | 90     | 80     | 80     | 60     | 50     | 75.4   |
| +4500 % FULL VMS | 10     | 20     | 20     | 40     | 50     | 24.6   |
| INCREASE         | +1,800 | +2,100 | +2,100 | +2,700 | +3,000 | +2,235 |

TOTAL INCREASES

|                                              |        |        |        |        |        |        |
|----------------------------------------------|--------|--------|--------|--------|--------|--------|
| S.O.P HW + VMS                               | +2,800 | +3,100 | +4,600 | +6,200 | +5,500 | +4,225 |
| STD SYST + VMS                               | +800   | +1,100 | +2,600 | +4,200 | +5,500 | +2,465 |
| 90% STD Sys + 10% S.O.P.<br>(EFFECTIVE INC.) | +1,000 | +1,300 | +2,800 | +4,400 | +5,500 | +2,640 |

VMS STD Sys PRICES

|      |        |        |        |        |        |
|------|--------|--------|--------|--------|--------|
| BASE | 20,840 | 23,340 | 31,190 | 46,540 | 66,090 |
| FULL | 24,840 | 27,340 | 35,190 | 50,540 | 70,090 |



"PIECE" PRICES

|                           |               |
|---------------------------|---------------|
| KA630-AA 1MB CPU WITH FP  | \$8,650       |
| MS630 EXPANSION MEMORY    | \$3,500/MBYTE |
| BA123 "WORLD BOX"         | \$5,400       |
| MICROVMS BASE LICENSE     | \$2,000       |
| FULL LICENSE              | \$6,000       |
| ULTRIX-32M 1-2 USER       | \$1,000       |
| 1-8 USER                  | \$2,000       |
| 1-16 USER                 | \$4,000       |
| ELN RUN-TIME LICENSE      | \$ 400        |
| MICROVMS LAYERED SOFTWARE | 60% TIER      |
| RD53                      | \$3,600 *     |
| TK50                      | \$3,000 *     |
| KDA50                     | \$5,500 *     |

\* CURRENTLY PROPOSED STORAGE SYSTEM PRODUCT MANAGEMENT PRICES

## STANDARD SYSTEM PRICING BENEFITS

- o PROVIDES INCENTIVE TO BUY STANDARD SYSTEMS, PROVIDING BUSINESS MODEL IMPROVEMENTS WHICH OFFSET THE DISCOUNT
    - LOWER SELLING COSTS (EASIER TO SELL, CONFIGURE, ORDER)
    - LOWER MANUFACTURING COSTS
      - o LEARNING CURVE ECONOMIES OF SCALE
      - o LEVEL LOAD ON PLANT, DUE TO "BUILD TO STOCK"
    - LOWER INVENTORIES
      - o REDUCED CMC
      - o IMPROVED ROA
    - QUICKER DELIVERY (SHIP FROM STOCK)
    - LOWER ACCOUNTS RECEIVABLE - NO SHORT SHIPS
  - o PROVIDES INCENTIVE TO BUY MORE DEC CONTENT
    - SYSTEMS VS. BOXES (OUR DISKS VS. THIRD PARTY)
    - MEMORY, COMM. ETC.

(THIRD PARTY HARDWARE MUST OVERCOME \$2,000 HURDLE)
  - o ALLOWS MINIMUM NUMBER OF CONFIGURATIONS
- (OPTIONS NOT NEEDED IN SOME MARKETS ARE "COVERED" BY DISCOUNT)

AVERAGE SYSTEM

|                  |                          |                       |          |             |
|------------------|--------------------------|-----------------------|----------|-------------|
| <u>HW MLP</u>    | 90% STD SYST @ 31,560    | }                     | \$31,736 |             |
|                  | 10% S.O.P. SYST @ 33,320 |                       |          |             |
| <u>OS SW MLP</u> | VMS 80%                  | 75% BASE @ 2,000      | }        | \$3,000 AVG |
|                  |                          | 25% FULL @ 6,000      |          |             |
|                  | ULTRIX 20%               | 35% 1-2 USER @ 1,000  | }        | \$1,850 AVG |
|                  |                          | 55% 1-8 USER @ 2,000  |          |             |
|                  |                          | 10% 1-16 USER @ 4,000 |          |             |
|                  |                          |                       |          | \$2,770     |
|                  | <u>HW + SW TOTAL</u>     |                       |          | \$34,506    |

LAYERED SW (BASED ON Q1/Q2 FY'85 750 ORDERS)

|          |             |   |              |   |              |
|----------|-------------|---|--------------|---|--------------|
| OEM      | \$5,140/750 | x | 56% OEM      | = | 2,880        |
| END-USER | 15,550/750  | x | 44% END-USER | = | <u>6,840</u> |
|          |             |   |              |   | \$9,720      |

MICROVAX II FORECAST %

|                                     |                    |
|-------------------------------------|--------------------|
| 80% PENETRATION MICROVAX II vs. 750 | \$7,770            |
| 80% VMS PENETRATION                 | \$6,210            |
| 60% PRICE TIER                      | \$3,725 *          |
| LESS 25% DISCOUNT                   | \$2,790 (8.1% MLP) |

\* REPRESENTS \$2,480 PRICE INCREASE @ MLP RELATIVE TO 20% TIER



MICROVAX II FY'86 SYSTEMS P & L

|                        |           |              |                 |                             |
|------------------------|-----------|--------------|-----------------|-----------------------------|
| AVERAGE SYSTEM         | HW MLP    | \$31,736     |                 |                             |
|                        | OS SW MLP | <u>2,770</u> |                 |                             |
|                        |           | \$34,506     | 100% MLP        |                             |
| "SERVICE INCOME"       |           |              |                 |                             |
| LAYERED PRODUCT SW     |           | 2,790        | +8.1% MLP       |                             |
| I & W BUYBACK INCOME   |           |              | +1 % MLP        |                             |
| UPLIFT                 |           |              | +5 % MLP        |                             |
| DISCOUNTS              |           |              | -25 % MLP       |                             |
| ALLOWANCES             |           |              | <u>-2 % MLP</u> |                             |
| NOR                    |           |              | 87.1% MLP       |                             |
| TRANSFER COST          |           | 7,170        | 20.8% MLP       | *                           |
| FA & T BUSINESS CENTER |           |              | 1.5% MLP        |                             |
| WARRANTY EXPENSE       |           |              | 5 % MLP         |                             |
| OTHER COSTS            |           |              | <u>3 % MLP</u>  |                             |
|                        |           |              | 30.3% MLP =     | 34.8% NOR                   |
| PRODUCT MARGIN         |           |              |                 | 65.2%                       |
| CMC                    |           |              | 6 % MLP =       | <u>6.9%</u> NOR             |
| GROSS MARGIN           |           |              |                 | 58.3% NOR 65.2%             |
| FIELD COSTS            |           |              |                 | <u>21 %</u> NOR <u>21 %</u> |
| FIELD MARGIN           |           |              |                 | 37.3% NOR 44.2%             |
| CMC                    |           |              | 6 % MLP =       | <u>6.9%</u>                 |
| CORPORATE MARGIN       |           |              |                 | 37.3% NOR 37.3%             |

\* AVERAGE MARKUP TO (HW+SW) MLP = 4.81

AVERAGE MARKUP TO (HW+SW) S.O.P. MLP = 5.04

SYSTEM LEVEL

COMPONENT LEVEL

AVERAGE SYSTEM

HW S.O.P. MLP \$33,320  
 O.S. SW MLP 2,770  
 \$36,090

32-BIT PORTION

(CPU, MEMORY, SW)  
 MLP \$18,630

TRANSFER COST \$2,110

TRANSFER COST \$ 7,170

MARKUP 5.04x

MARKUP 8.74x

"SYSTEM ENVIRONMENT"

MLP \$17,460  
 TRANSFER COST 5,060  
 MARKUP 3.45x

O.S. SW MLP \$2,770

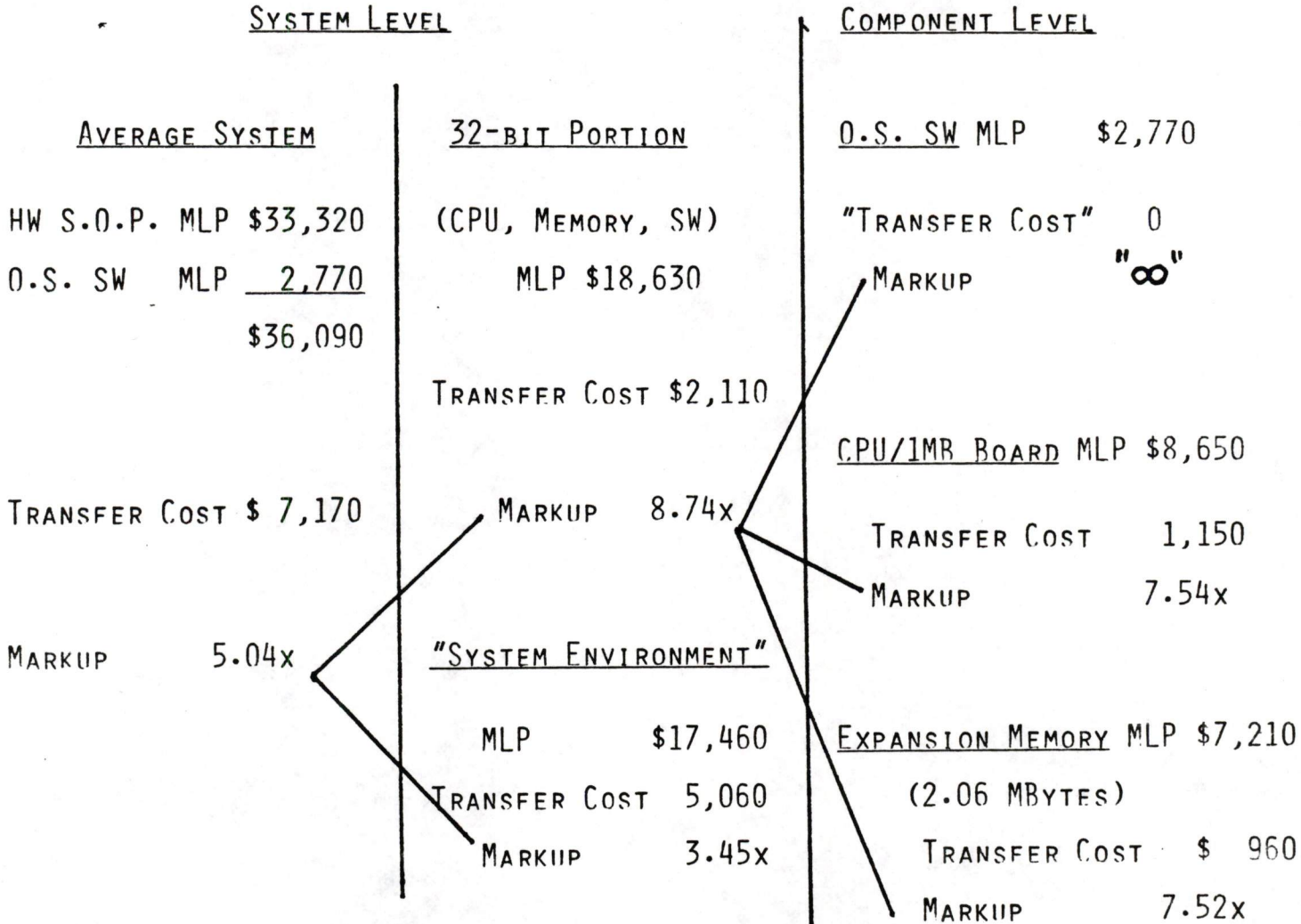
"TRANSFER COST" 0  
 MARKUP "∞"

CPU/1MB BOARD MLP \$8,650

TRANSFER COST 1,150  
 MARKUP 7.54x

EXPANSION MEMORY MLP \$7,210  
 (2.06 MBYTES)

TRANSFER COST \$ 960  
 MARKUP 7.52x



## MICRO VAX II

### INTRODUCTION AND ANNOUNCEMENT

- PROCESS
- PRODUCTS
- PRESS EVENT
- FIELD EVENT
- SUPPORTING PROGRAMS

## PROCESS

- MAYFLOWER MARKETING FORUM (STARTED 4/84)
  
- INTRODUCTION TASK FORCE (STARTED 2/4/85)
  - MEMBERSHIP
    - + BASE PRODUCT MARKETING
    - + PRODUCT MANAGERS
    - + AREA MANAGEMENT CENTERS
    - + STRATEGIC MARKETING UNITS
    - + SALES PROGRAMS
  
- MICRO VAX II STRATEGIC COMMITTEE
  - + SALES PROGRAMS
  
  - + BASE PRODUCT MARKETING (SYSTEMS, WORKSTATIONS, CHIPS/BOARDS)
  
  - + CORPORATE COMMUNICATION
  
- GRAINGER TASK FORCE

## PRODUCTS

- CHIP
- BOARDS
- MICRO VAX II SYSTEMS
- VAXSTATION II WORKSTATIONS
- UPGRADES (MVAX I TO II)
- OPERATING SYSTEM SOFTWARE
  - + MICRO VMS
  - + ULTRIX 32M
  - + VAX ELN
- RD53 (70 MB, 5 1/4" DISK)
- TK50 (100 MB, 5 1/4" TAPE)
- INTEGRATED APPLICATIONS
  - + A TO Z
  - + ALL-IN-1 ?

PRESS EVENT (BASE PRODUCT MARKETING)

WHEN: PROPOSE MAY 15, 1985

WHERE: NEW YORK CITY

WHO: 200 PEOPLE:

- + TECHNICAL PRESS
- + BUSINESS PRESS
- + FINANCIAL ANALYSTS
- + INDUSTRY CONSULTANTS

HOW:

- FILM
- INTRODUCTION -- KEN OLSEN
- TECHNICAL MESSAGE -- ?
- MARKETING MESSAGE -- ?
- UNVEILING
- QUESTION & ANSWER PANEL
- DEMO

NOTE: BURSON-MARSTELLER AGENCY

## FIELD EVENT (CORPORATE SALES PROGRAMS)

WHEN: PROPOSE MAY 15, 1985

WHERE: 120 FIELD SITES WORLDWIDE

WHO: ● SALES AND SERVICE PERSONNEL  
● EXECUTIVE PREVIEW  
● CUSTOMERS AND PROSPECTS

HOW: ● TRAIN SALES/SERVICES TRAINERS

- + 3 IN US
- + 1 EUROPE
- + 1 GIA

● ANNOUNCEMENT DAY

- + FIELD MANAGEMENT WELCOME
- + FILM
- + PRODUCT PRESENTATION
- + MARKETING MESSAGES
- + UNVEILING
- + QUESTION & ANSWER SESSION
- + DEMO

## SUPPORT PROGRAMS

- LITERATURE

- + SALES GUIDE
- + HANDBOOK
- + INFORMATION SHEET

- SALES COMMUNICATION

- + SALES AND PRODUCT JOURNALS
- + SALES UPDATE
- + COMPETITIVE UPDATE
- + SALES KIT

- TRAINING

- + Q4 SUCCESS TRAIN
- + HOT LINE PERSONNEL
- + AMC SESSION
- + SMU SESSION

- ADVERTISING AND PUBLIC RELATIONS

- LOCAL PRESS KIT



WORKSTATION MARKET

SYSTEM  
PRICE

\$50K

\$40K

\$30K

\$20K

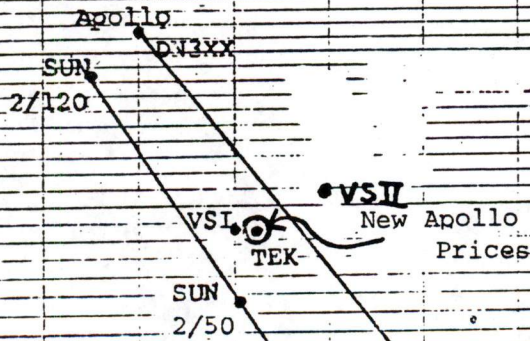
1983

1984

1985

1986

1987



SYSTEM BREAKOUT

|       | <u>TECH</u>       | <u>CAFM</u>       | <u>BOS</u>        | <u>TOEM</u>       | <u>COEM</u>       | <u>TOTAL</u>      |
|-------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|
| I     | 945               | 60                | 0                 | 1530              | 0                 | 2535              |
| II    | 1260              | 582               | 455               | 2290              | 800               | 5387              |
| III   | 1350              | 1908              | 931               | 1560              | 565               | 6314              |
| IV    | 495               | 0                 | 398               | 490               | 790               | 2173              |
| V     | 450               | 328               | 90                | 150               | 1550              | 2568              |
| SRR   | --                | --                | --                | 1600              | 800               | 2400              |
|       | <u>          </u> | <u>          </u> | <u>          </u> | <u>          </u> | <u>          </u> | <u>          </u> |
| TOTAL | 4500              | 2878              | 1874              | 7620              | 4505              | 21,377            |
|       |                   | (2781)            |                   | (7065)            |                   | 20,725            |

CHANNEL SPLIT

|      | <u>OFM</u> | <u>END USER</u> | <u>TOTAL</u> |
|------|------------|-----------------|--------------|
| TOEM | 7620       | TECH - 4500     |              |
| COEM | 4505       | CAEM - 2878     |              |
|      |            | RDS - 1874      |              |
|      | <hr/>      | <hr/>           |              |
|      | 12,125     | 9252            | 21,377       |
|      | 57%        | 43%             |              |

## GOALS AND OBJECTIVES

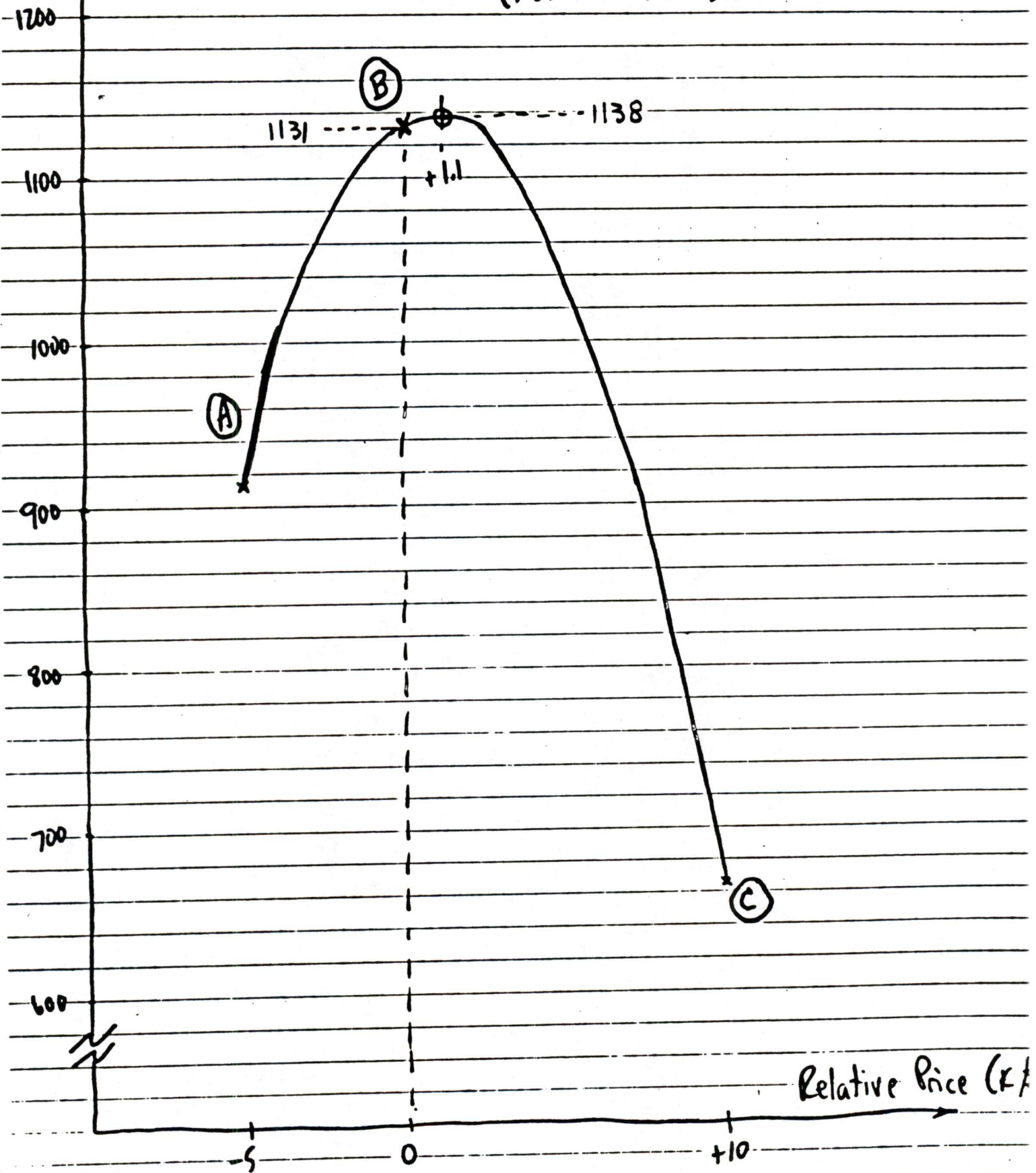
- 0 SQUEEZE AS MUCH REVENUE OUT OF MICROVAX II SYSTEMS AS POSSIBLE, CONSISTENT WITH RESULTS OF ELASTICITY STUDY (UP TO \$2K "ACROSS-THE-BOARD" INCREASE MAINTAINS TOTAL MARGIN)
- 0 AIM INCREASES AT LARGER SYSTEMS INSTEAD OF "ACROSS-THE-BOARD" SO AS TO ATTAIN MORE THAN THE ABOVE \$2K AVERAGE INCREASE
  - LARGER SYSTEMS CAN SUPPORT THE HIGHER PRICE
  - SMALLER SYSTEMS HAVE HIGHER ELASTICITY
  - SMALLER SYSTEM PRICES ESTABLISH AGGRESSIVE ENTRY POINT INTO "BROADEST RANGE OF COMPATIBLE COMPUTING" STRATEGY
  - PRICE PREMIUMS WHERE THE VALUE IS (E.G. VMS vs. VAX)
- 0 AIM INCREASES AT END-USER vs. OEM (FULL vs. BASE LICENSE, LAYERED SW)
- 0 ENCOURAGE THE RIGHT BUYING AND SELLING HABITS
  - SYSTEMS vs. BOXES/BOARDS - MAXIMIZE DEC CONTENT
  - WITHIN SYSTEMS, STANDARD SYSTEMS vs. ALA CARTE SBB-BASED
  - QUANTITY BUYING/SELLINGADDRESS SELLING COST AND BUSINESS MODEL ISSUES
- 0 PRICE CONSISTENTLY - AVOID NON-SOP DISTORTIONS

Field Margin (M#)

MicroVAX II

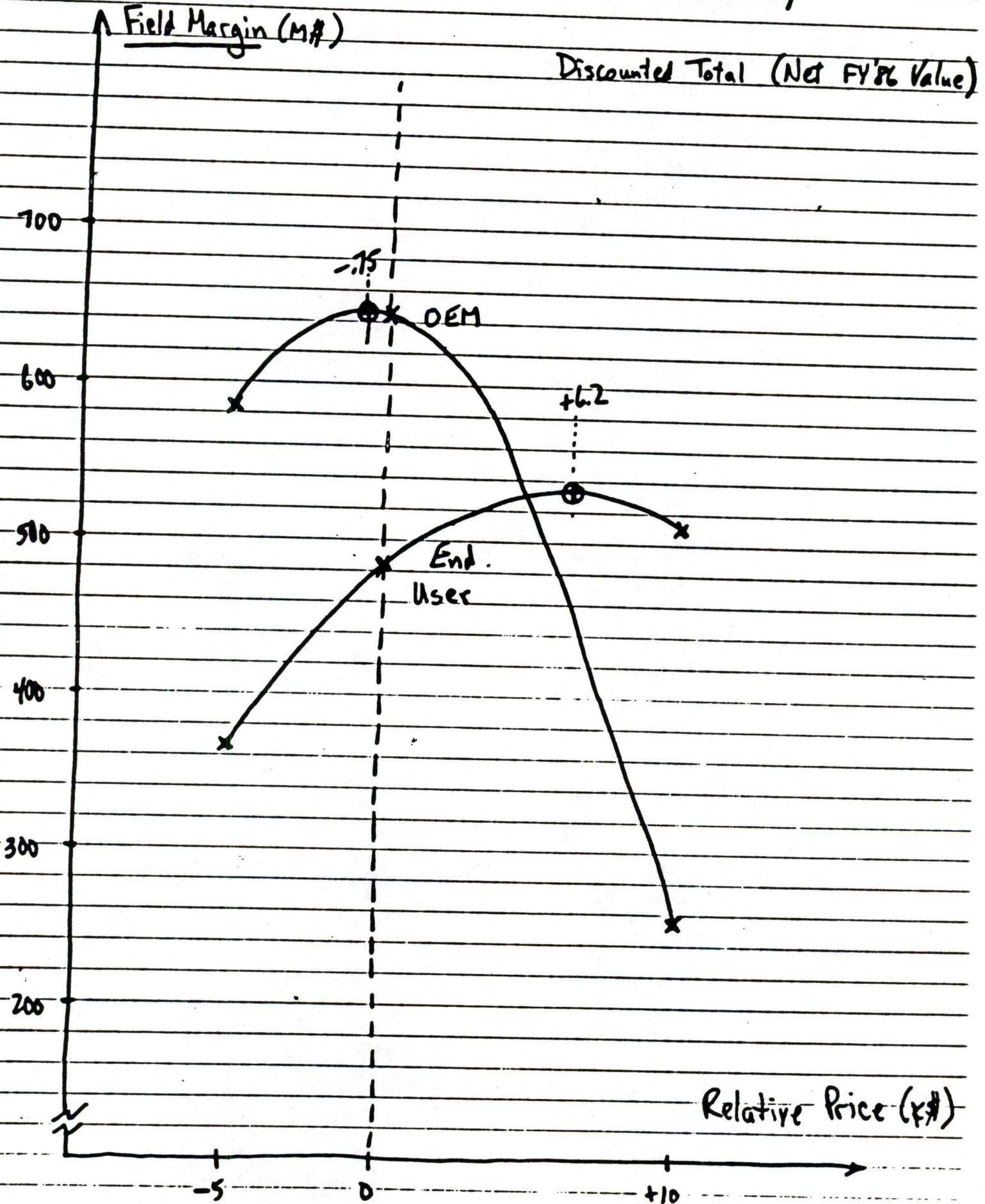
Discounted Total (FY'86 + .7 x FY'87 + .5 x FY'88)

(Net FY'86 Value)



MicroVAX II

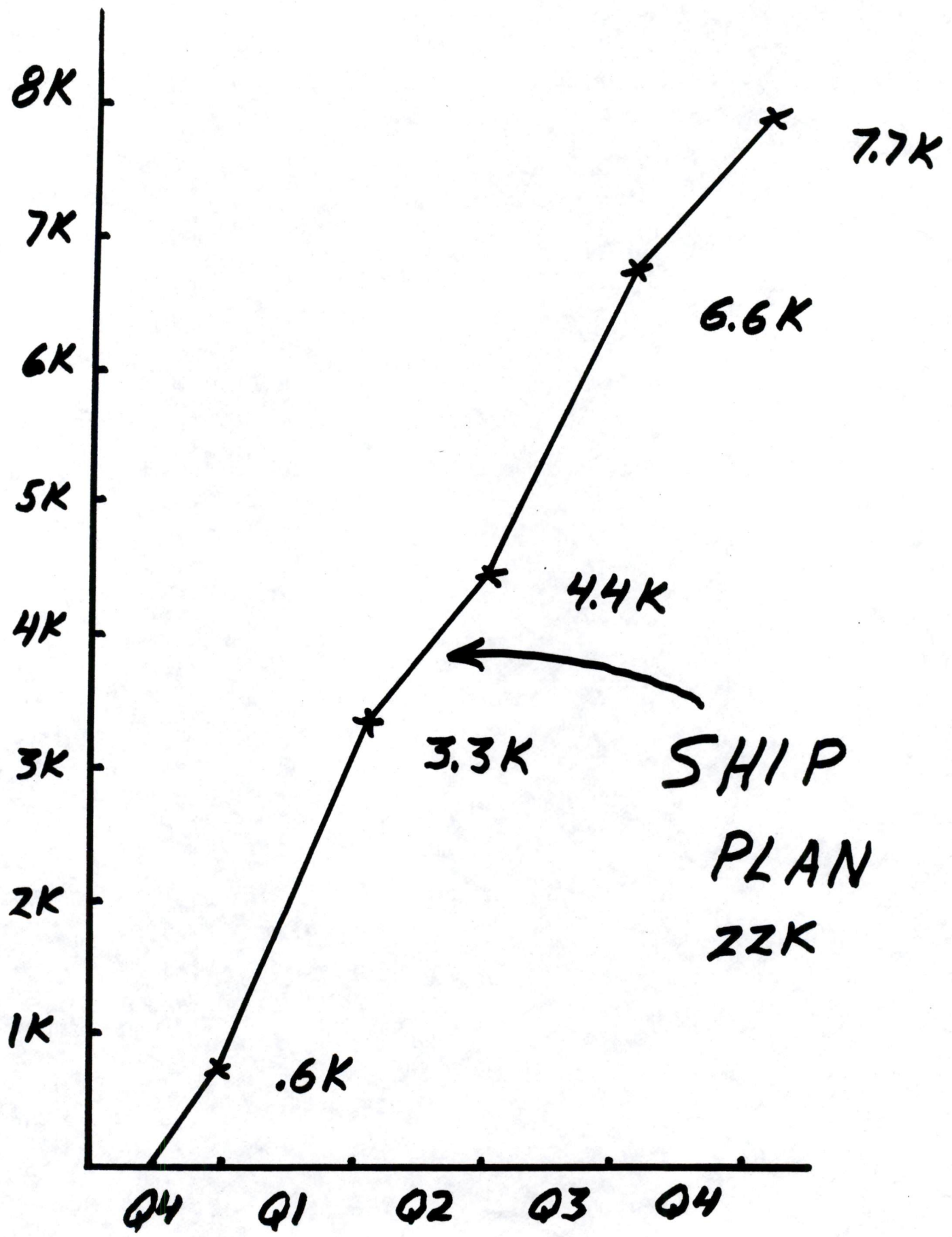
OEM vs. End-User Elasticity



## MSSC AGENDA

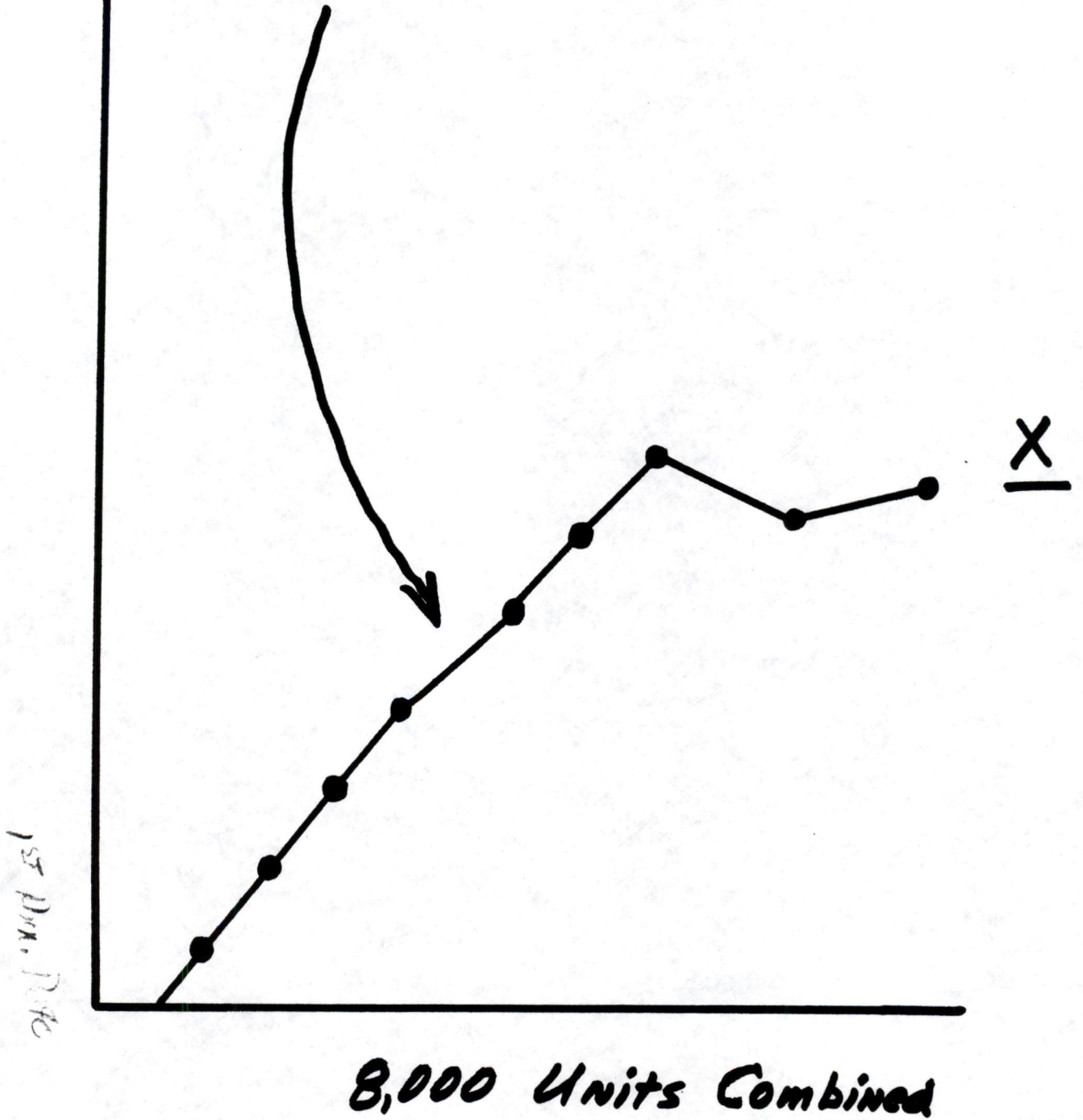
- I. REVIEW THE CHALLENGES FOR SALES
- II. REVIEW THE SALES PLAN STATUS
- III. REVIEW THE NECESSARY SUPPORT

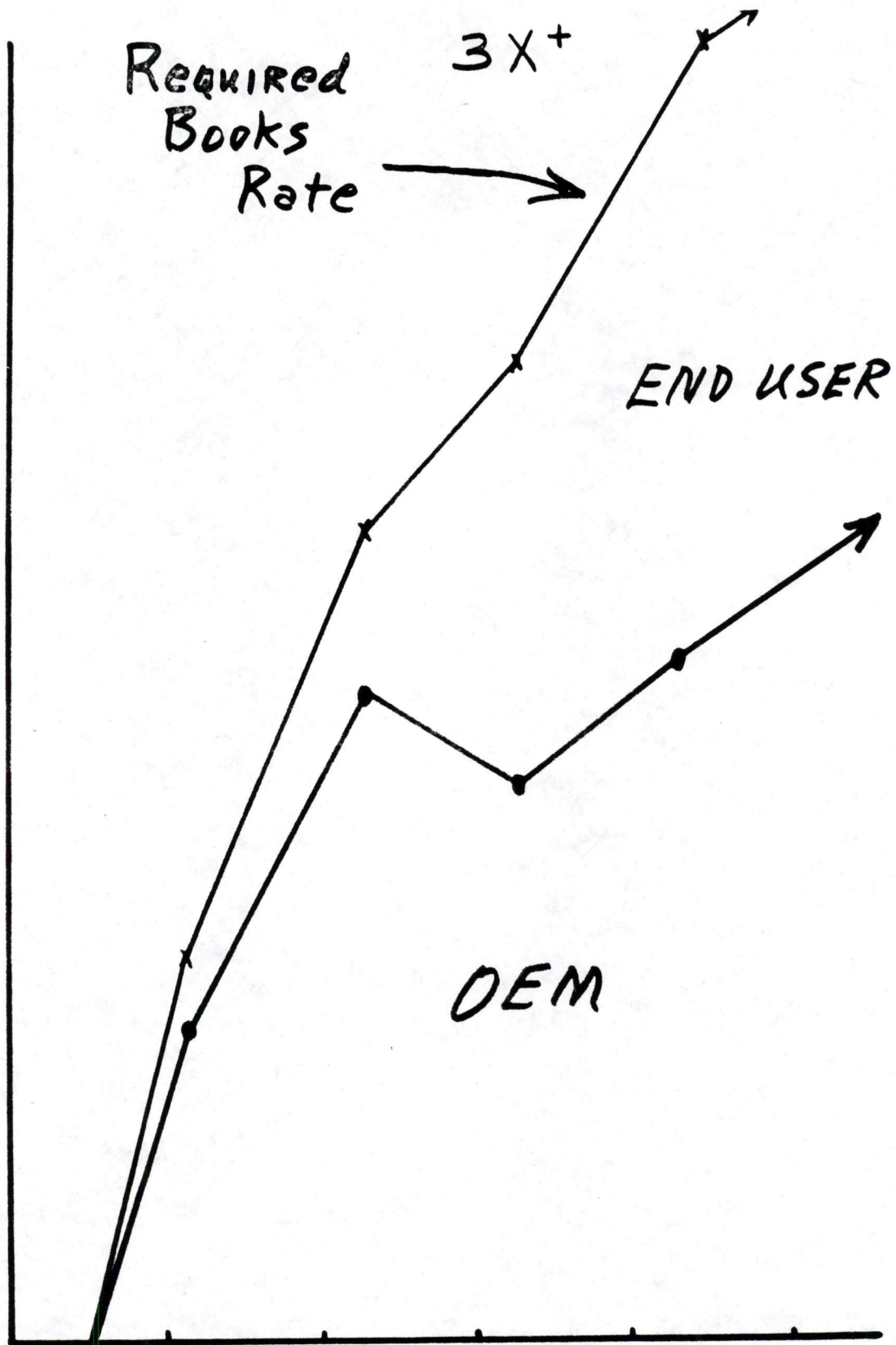
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Summary of  
725-730-750-MVI  
1ST YEAR TREND  
Bookings History





30,000 UNITS 1ST YEAR

## THE CHALLENGES FOR SALES

- I. BUILD AN EARLY CERTS RAMP IN Q4-Q1.
  
- II. CERTIFY 30,000 MVII AND VSII SYSTEMS TO MEET THE FY'86 SHIP PLAN.
  
- III. PROFITABLY SELL LARGE VOLUMES OF LOW PRICED SYSTEMS.

PRODUCE AN INTEGRATED PLAN TO SELL LARGE VOLUMES OF LOW PRICED SYSTEMS PROFITABLY.

|          |            | MARKETS |      |      |     |  |
|----------|------------|---------|------|------|-----|--|
|          |            | OIS     | CAEM | TECH | OEM |  |
| CHANNELS | TOEM       |         |      |      |     |  |
|          | COEM       |         |      |      |     |  |
|          | E.U. PROJ. |         |      |      |     |  |
|          | E.U. CON.  |         |      | ✓    |     |  |
|          | DBC        |         |      |      |     |  |
|          | DIST.      |         |      |      |     |  |
|          |            |         |      |      |     |  |
|          |            |         |      |      |     |  |
|          |            |         |      |      |     |  |

MICRO VAX II  
 &  
 VAXSTATION II  
 &  
 APPLICATIONS

✓ A Sales Plan  
By MARKET AND CHANNEL

## KEYS TO SUCCESS

- 0 TECHNOLOGY LEADERSHIP WITH MICROVAX II AND FOLLOW-ON PRODUCTS
  
- 0 WE MUST ACHIEVE APPLICATION SYSTEMS LEADERSHIP IN THE FIRST YEAR

## SALES PLAN

### BASED ON ASSUMPTIONS:

#### 0 PRODUCT AVAILABILITY ASSUMPTIONS

##### Q4-Q1

5 BASIC MVII CONFIGURATIONS

1 BASIC VSII SYSTEM

MICRO VMS - ULTRIX - VAX ELN

MOST LAYERED PRODUCTS

##### Q1-Q2

MORE LAYERED PRODUCTS

LARGE DISKS: RA60 - RA81

SOME CMP AND 3RD PARTY APPLICATIONS

#### 0 NEED TO TARGET ACCOUNTS TO BUILD VOLUME

TOEM, COEM

PRIME CONTRACTORS

LARGE PROJECT  
END USERS

TO DEVELOP/CONVERT/MIGRATE

CMP'S

STRATEGIC APPLICATIONS

3RD PARTY SOFTWARE  
HOUSES

OEM'S

## SALES PLAN

BASED ON:

0 F-1000 CONSUMER NEEDS DEMONSTRABLE

### APPLICATIONS SYSTEMS

- TECHNICAL SALES PLANS
- CAEM SALES PLANS
- BOS SALES PLANS

0 F-10,000: WE NEED A CHANNELS (BCG) SALES PLAN

THESE ASSUMPTIONS

AND CUSTOMER NEEDS

HAVE LEAD US TO

A MULTI-PHASED

SALES PLAN



SALES PLAN

PHASE "0"

Q3

FILM

0 POSITION MVII VS. 750  
FOR SALES MANAGEMENT

0 DRAFT SCRIPT  
PRODUCT MANAGERS  
BPM  
CSP

FEBRUARY 12

0 GRAINGER'S TASK FORCE - REVIEW SCRIPT

FEBRUARY 14

0 SALES TRAINING

PRODUCE FILM

0 FILM AVAILABLE TO DISTRICTS

EARLY MARCH

## SALES PLAN

### PHASE I Q4-Q1

### PROGRAM

- |                                                                                                   |                                             |
|---------------------------------------------------------------------------------------------------|---------------------------------------------|
| 0 ANNOUNCEMENT                                                                                    | 0 ANNOUNCEMENT EVENTS (Q4)                  |
| 0 ALLOCATE Q4 AND INITIAL Q1 SHIPS TO KEY TARGETED ACCOUNTS                                       | 0 DEVELOPMENT ALLOCATION PROGRAM (DAP)      |
| - VOLUME DESIGN-WIN (OEM AND END USER)                                                            | 0 VOLUME & STRATEGIC ACCOUNTS LIST APPROVAL |
| - COOPERATIVE MARKETING PARTNERS                                                                  | AMC'S AND SMU'S                             |
| - APPLICATION SOFTWARE HOUSES                                                                     |                                             |
| - SALES AND MARKETING SELECTION                                                                   |                                             |
| - NON-DISCLOSURE PROCESS                                                                          |                                             |
| - TRAINED FIELD DESIGNATES                                                                        |                                             |
| - ORDER ADMINISTRATION PROCESS                                                                    |                                             |
| - UTILIZE MICROVAX I AND WORKSTATION I APPROPRIATELY                                              |                                             |
| 0 SALES TRAINING                                                                                  | 0 PROGRAMS                                  |
| 0 INCORPORATE FINAL MARKETING/APPLICATION PROGRAMS INTO FY'86 SALES PLAN BY MARKET, CHANNEL, AREA | 0 DISTRICT SALES GUIDE PROGRAMS             |
|                                                                                                   | - ROADMAPS                                  |
|                                                                                                   | - COMMON SELLING GOALS                      |

SALES PLAN

PHASE II Q1-Q2

PROGRAM

- |                                                                                                                              |                                                                                                               |
|------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------|
| 0 GROW TARGETED DEVELOPMENT<br>ACCOUNTS - VOLUME & STRATEGIC                                                                 | 0 DAP                                                                                                         |
| 0 LAUNCH APPLICATION SYSTEMS<br>TO FORTUNE-1000 ACCOUNTS<br>TARGET APPLICATIONS BY:<br>- MARKET<br>- INDUSTRY<br>- ACCOUNT   | 0 CORPORATE APPLICATIONS<br>ANNOUNCEMENT PROGRAM<br><br>0 SMU SUPPORT PROGRAMS<br><br>0 APPLICATIONS ROADMAPS |
| 0 APPLICATIONS SUPPORT<br>- DEMOS<br>- APPLICATION CENTERS:<br>CAEM, TECH, BOS<br>- FIELD APPLICATION SPECIALIST<br>TRAINING | 0 ACT'S<br>DBC'S<br>TELEMARKETING<br><br>0 SALES TRAINING<br>SMU'S                                            |
| 0 F-10,000 SELLING PLAN<br>- OEM/ADD REFERRAL<br>- DBC'S                                                                     | 0 PROVEN/NEW TECHNIQUES<br>AND PROGRAMS                                                                       |
| 0 AGGRESSIVE NEW ACCOUNT<br>DEVELOPMENT PROGRAMS                                                                             | 0 LEAD GENERATION<br>TELEMARKETING                                                                            |

DAP

- 0 IS A DEVELOPMENT ALLOCATION PROGRAM TO SELL THE PRODUCTS AVAILABLE IN Q4-Q1 TO THOSE VOLUME AND STRATEGIC ACCOUNTS WHOSE BUYING CRITERIA MATCH WHAT WE CAN DELIVER.
  
- 0 TOEM'S, COEM'S, PRIME CONTRACTORS, LARGE PROJECT END USERS, CMP'S, AND THIRD PARTY SOFTWARE HOUSES.
  
- 0 PRE-ANNOUNCEMENT ORDERS FOR INITIAL SHIP ALLOCATION

## NECESSARY SUPPORT

- I. DEVELOPMENT ALLOCATION PROGRAM - DAP  
COMMITMENT OF RESOURCES BY AMC & SMU
  - O DEVELOP THESE ACCOUNT LISTS
  - O IMPLEMENT THE PROGRAM
  - O NAME OF A CONTACT
  
- II. APPLICATION ROADMAPS  
SMU SUPPORT TO GET THESE COMPLETED AS TOP PRIORITY AND  
SUBMITTED TO CHRIS REED
  
- III. PRODUCT AVAILABILITY  
ENGINEERING MUST PLACE TOP PRIORITY ON PRODUCTS, SYSTEMS,  
OPTIONS (LARGE DISK), MICRO VMS, AND LAYERED PRODUCTS  
AVAILABILITY.
  
- IV. CORPORATE SALES COMPLETE DEVELOPMENT OF THE SMALL SYSTEMS  
SALES PLAN
  - O NAME OF A RESOURCE
  
- V. WE ALL MUST WORK TOGETHER TO SOLVE OUR CORPORATE CHALLENGE -  
"HOW TO PROFITABLY SELL VOLUMES OF LOW PRICED SYSTEMS"

## SAMPLE SALES PLAN

### LDP WORKSTATIONS

#### ANNOUNCEMENT

SALES UPDATE - TRADE JOURNALS ADS - DIRECT MAIL LDP'S  
SCIENTIFIC SOLUTIONS MAGAZINE - SALES MEETINGS - TRADE SHOWS -  
PITTSBURGH CONFERENCE

#### TRAINING

MEP - MARKETING EFFECTIVENESS PROGRAM  
(TRAIN FIELD LDP EXPERTS)

#### SUPPORT RESOURCES

STRAP - STRATEGIC ACCOUNT PROGRAM BY AREA  
LIP - LEADING INDIVIDUALS PROGRAM  
MEP - MARKETING EFFECTIVENESS PROGRAM  
(DEMOS - TECHNICAL SUPPORT - SALES TOOLS)  
WISE - WORKSTATIONS IN SCIENTIFIC ENVIRONMENTS  
PDL - PUBLIC DOMAIN LIBRARY  
(DIAL-UP LIBRARY OF FREE SCIENTIFIC SOFTWARE)  
LDP - DEMO EQUIPMENT FOR ACT'S LDP FIELD EXPORTS TO  
SUPPORT CENTERS  
DISTRICT LDP  
EXPERT - FOCUS CONTACT WITH EACH DISTRICT  
WGP - WORKSTATION GRANT PROGRAM  
SDE - SELECTED SYSTEM DEVELOPMENT EXPERTS

## SAMPLE SALES PLAN LDP (CONTINUED)

### ROADMAPS

- 0 DESCRIPTION OF APPLICATION
- 0 FUNCTIONAL NEEDS SERVED
- 0 APPLICATION STRENGTHS OF MVII
- 0 APPLICATION STRENGTHS OF VWSII
- 0 PRIMARY COMPETITION
- 0 REFERENCE ACCOUNTS
- 0 MARKETING CONTACTS

### COMMON SELLING GOALS

- 0 CUSTOMER DECISION CRITERIA
- 0 TOP 3 SELLING MESSAGES
- 0 TOP 3 BUSINESS BENEFITS FOR CUSTOMER
- 0 DIGITAL'S COMPETITIVE ADVANTAGES/DISADVANTAGES
- 0 MAJOR COMPETITORS' ADVANTAGES/DISADVANTAGES

### DISTRICT SELLING MODEL

- 0 KEY BUYERS BY CHANNEL-MARKET-INDUSTRY
- 0 PLANNED YIELD IN EACH FOR MVII AND VWSII
- 0 INVESTMENT ACCOUNTS
- 0 SELLING METHODS
  - 1. DEDICATED SALES SPECIALIST - PRODUCT/APPLICATION
  - 2. DEDICATED PRESALES SPECIALIST
  - 3. NEW ACCOUNT DEVELOPMENT SPECIALIST
  - 4. USE OF ACT'S, DBC'S
  - 5. ELECTRONIC STORE, CORPORATE STORE PROGRAM
  - 6. MARKETING AND TELEMARKETING SPECIALIST

SAMPLE SALES PLAN LDP (CONTINUED)

KEY APPLICATIONS FY'86-87

1. SAMPLE TESTING AND INTERNATIONAL MANAGEMENT
2. BIOGENETICS WORKSTATION
3. MOLECULAR MODELING
4. DISTRIBUTED EDUCATION AND RESEARCH SYSTEMS
5. HIGH MIP MODELING & SIMULATION
6. REALTIME DATA ACQUISITION, ANALYSIS, AND CONTROL



WINNING-SELLING TECHNIQUES

FOR F-1000 CUSTOMERS

| <u>TECHNIQUE</u>                                                   | <u>WHERE TO USE</u>          |
|--------------------------------------------------------------------|------------------------------|
| 0 OEM REFERRAL PROGRAM                                             | ALL DISTRICTS                |
| 0 SELL THROUGH ACT'S                                               | ACT LOCALES                  |
| 0 DBC'S SELL SOLUTIONS                                             | DBC LOCATIONS                |
| 0 DISTRICT MARKETING BY<br>APPLICATIONS - INDUSTRY                 | MOST DISTRICTS               |
| 0 NEW ACCOUNT SALES SPECIALIST                                     | ALL DISTRICTS                |
| 0 APPLICATIONS SPECIFIC SALES SPECIALIST                           | SPECIFIC BY GEOGRAPHY        |
| 0 PRESALES APPLICATIONS - INDUSTRY<br>SPECIALIST                   | MOST DISTRICTS               |
| 0 INDUSTRY SALES TEAMS                                             | SPECIFIC BY INDUSTRY<br>CITY |
| 0 SIMPLIFY THE SELLING CYCLE BY<br>LEAD GENERATION - TELEMARKETING | SMU'S FOR ALL<br>DISTRICTS   |
| 0 UTILIZE ELECTRONIC STORE                                         | MAJOR ACCOUNTS               |
| 0 CORPORATE STORE PROGRAM                                          | MOST DISTRICTS               |
| 0 UTILIZE DISTRIBUTORS                                             | ALL DISTRICTS                |
| 0 PROFILE OF SUCCESSFUL SALESMAN (MINC)                            | ALL DISTRICTS                |
| 0 COST OF SALES MODEL                                              | ALL DISTRICTS                |

PROVEN HIGH VOLUME

SELLING TECHNIQUES

TECHNIQUE

WHERE TO USE

- |                                                              |                |
|--------------------------------------------------------------|----------------|
| 0 DESIGN WIN TOEM                                            | MOST DISTRICTS |
| 0 APPLICATIONS DESIGN WIN TEAMS<br>END USER PROJECT - F-1000 | ALL DISTRICTS  |
| 0 INDUSTRY HOOKS - COEM                                      | MOST DISTRICTS |

## ROADMAP CONTENT

APPLICATION: APPLICATION X

DESCRIPTION OF APPLICATION

FUNCTIONAL NEEDS:

COMPUTING STYLE  
COMPUTING RESOURCES  
I/O RESOURCES  
APPLICATION SOFTWARE PACKAGED  
HARDWARE NEEDS

APPLICATION STRENGTHS OF MICROVAX II

APPLICATION STRENGTHS OF VAXSTATION II

APPLICATION FUNCTIONALITY VIA SUGGESTED SOLUTION

PRIMARY COMPETITION

REFERENCE ACCOUNTS

MARKETING CONTACTS



DRAFT 10/29/84

BOB MAGUIRE

SELLING INFORMATION FOR MICROVAX II  
SOLD AS CHIP/BOARD/SYSTEM/WORKSTATION  
BUYER: OEM PRODUCT/PROJECT MGR

HP 9000 Series 500

| CUSTOMER DECISION CRITERIA | TOP 3 SELLING MESSAGES                                                                                                                                                                                                                                         | TOP 3 BUSINESS BENEFITS TO OUR CUSTOMER                                                                                                                                                                                                                           | OUR COMPETITIVE ADVANTAGES/DISADVANTAGES                                                                                                                 | OUR COMPETITOR'S DISADVANTAGES/ADVANTAGES                                                                                                                                                                                                                       |
|----------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| BASE PRODUCT TECHNOLOGY    | <ul style="list-style-type: none"> <li>o VLSI VAX on chip</li> <li>o 32 bit internal/external arch</li> <li>o Q22 System Bus</li> <li>o Full Vax &amp; VMS Environment</li> </ul>                                                                              | <ul style="list-style-type: none"> <li>o Price performance &amp; form factor open up new markets &amp; app</li> <li>o VAX/VMS Programmer Productivity on Micro</li> <li>o Flexibility in choice of peripherals</li> <li>o Protected VAX/VMS Investment</li> </ul> | <p>A - Broad Archite Base</p> <p>A - Networking technology</p> <p>D - Not state of the art chip</p> <p>A - Lot of s/w</p> <p>A - True virtual memory</p> | <p>A - UNIX Transportability</p> <p>A - NMOSIII Process / Higher Density chip</p> <p>A - Finstrate substrate</p> <p>D - Not much s/w</p> <p>D - Not virtual</p> <p>A - INTERNAL <sup>application</sup> HP-IB BUS Real-time</p>                                  |
| BASE PRODUCT FEATURE       | <ul style="list-style-type: none"> <li>o Fast FP co-processor chip</li> <li>o 9 MB Mem Max</li> <li>o Approx 780 performance</li> <li>o Can buy on chip/board/system/workstation</li> <li>o Microporcesor size</li> <li>o Runs VMS Ultrix &amp; ELN</li> </ul> | <ul style="list-style-type: none"> <li>o Higher return on your compute \$</li> <li>o Flexibility in buying \board\system &amp; WS environment</li> </ul>                                                                                                          | <p>A - 9MB Mem.</p> <p>A - Broader RANGE of LANGUAGES</p> <p>D - Extremely limited disk offering</p> <p>A - Smaller footprint</p>                        | <p>A - Multiple cpus up to three - Add as you need more cpu</p> <p>A - Desk-top, FLOOR or Rack mount systems</p> <p>D - Available LANGUAGES</p> <p>D - 2.5 MB MEM.</p> <p>D - NO FP Accd.</p> <p>A - Claim 3MIP performance</p> <p>A - Broad Range of Disks</p> |
| APPLICATIONS               | <ul style="list-style-type: none"> <li>o Runs the applic. you have on VAX today</li> <li>o Can Use/Make a wealth of applic. on VMS, ULTRIX, &amp; ELN</li> <li>o Wide range of hardware 3rd party options available on Q22</li> </ul>                          | <ul style="list-style-type: none"> <li>o No Conversion costs</li> <li>o Increased competitiveness</li> <li>- higher make/buy buy flexibility</li> </ul>                                                                                                           | <p>A - Lots of s/w</p> <p>A - Migration up - watch what you convert</p>                                                                                  | <p>D - Not much s/w</p> <p>D - No upward path beyond 540</p>                                                                                                                                                                                                    |

# Buyer: OEM Product/Project Map

BOB MAGUIRE

| CUSTOMER DECISION CRITERIA | TOP 3 SELLING MESSAGES                                                                                                                                                                                     | TOP 3 BUSINESS BENEFITS TO OUR CUSTOMER                                                                                                                  | OUR COMPETITIVE ADVANTAGES/DISADVANTAGES                                               | OUR COMPETITOR'S DISADVANTAGES/ADVANTAGES                                                                              |
|----------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------|
| INDUSTRY                   | <ul style="list-style-type: none"> <li>o VAX is proven leader in almost every industry</li> <li>o Industry leaders in F500 are large VAX purchaser</li> <li>o MVII suitable for all industries</li> </ul>  | <ul style="list-style-type: none"> <li>o Few constraints</li> <li>o Lower cost of sales</li> </ul>                                                       | <p>Co.</p> <p>A - Name Recognition</p> <p>A - Product NAME Recog. better than H.P.</p> | <p>A - HP widely Accepted Among F500 as NAME</p> <p>D - HPQWO not widely Accepted in technical departments of F500</p> |
| CHANNEL                    | <ul style="list-style-type: none"> <li>o Std OEM T's C's</li> <li>o OEM type 1</li> <li>o Direct EU Sales</li> <li>o DEC Dealer?</li> </ul>                                                                | <ul style="list-style-type: none"> <li>o Same business relationship</li> <li>o Know &amp; understand bus. relationship</li> <li>o No new risk</li> </ul> | Equal ← →                                                                              |                                                                                                                        |
| SERVICE/SUPPORT            | <ul style="list-style-type: none"> <li>o Std Digital WW Service</li> <li>o 1 yr warranty on processor</li> <li>o Customer installable at system level</li> <li>o Superior diagnostic capability</li> </ul> | <ul style="list-style-type: none"> <li>o Compet edge for you</li> <li>o Lower cost of service</li> <li>o No install cost on system</li> </ul>            | A - DEC Service Rated #1 by ??                                                         | A - HP Cust. Satisfaction Rated overall #1 by Stuart Kirkland uses survey July 1984                                    |
| REFERENCE USERS            | <ul style="list-style-type: none"> <li>o 30 reference user sites at announcement</li> <li>o Diverse applications among users</li> <li>o F500 companies, Universities, OEM's, Hospitals, etc</li> </ul>     | <ul style="list-style-type: none"> <li>o Higher confidence</li> <li>o Low risk</li> </ul>                                                                | A - Strong base                                                                        | <p>D - Offering 50% discounts for key reference accounts in F500</p> <p>D - Much fewer sites to reference</p>          |
| DEMOS                      | <ul style="list-style-type: none"> <li>o Available at - Dist Office - Soltn Ctrs</li> <li>o Demos meaningful to you</li> </ul>                                                                             | <ul style="list-style-type: none"> <li>o Higher confidence</li> <li>o Low risk</li> </ul>                                                                | A - Demo centers                                                                       | A - Has demo centers to bring customers                                                                                |

# Buyer: OEd Product / Project Map

BOB MAGUIRE

| CUSTOMER DECISION CRITERIA        | TOP 3 SELLING MESSAGES                                                                                                                                                                                                                                                                                                     | TOP 3 BUSINESS BENEFITS TO OUR CUSTOMER                                                                                                                                                                          | OUR COMPETITIVE ADVANTAGES/ DISADVANTAGES | OUR COMPETITOR'S DISADVANTAGES/ ADVANTAGES                                                                                                   |
|-----------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------|
| PRICE AND FINANCIAL JUSTIFICATION | <ul style="list-style-type: none"> <li>o Full VAX/VMS 780 performance @\$10-\$20K</li> <li>o Entry level system below \$20K</li> <li>o Systems can range approx. \$20-\$100K</li> <li>o Entry level board below \$10K</li> <li>o 3 x price performance over 780/750</li> <li>o VAX DDP at lower cost increments</li> </ul> | <ul style="list-style-type: none"> <li>o More mrkts/ applic can be attacked</li> <li>o Lower capital costs in inventory</li> <li>o Lower selling costs &amp; shorter selling cycle due to lower price</li> </ul> | <p>← A →</p> <p>← A →</p> <p>← A →</p>    | <p>D 75% the CPU Power</p> <p>D - \$30K entry level</p> <p>D up to \$100K</p> <p>A - CAN ADD additional CPUs in SAME CAB. up to 3 total.</p> |
| VENDOR'S REPUTATION               | <ul style="list-style-type: none"> <li>o 2nd largest Computer Co.</li> <li>o Largest and world leader with OEM's</li> <li>o Largest base of OEM customers</li> <li>o Worldwide quality service</li> </ul>                                                                                                                  | <ul style="list-style-type: none"> <li>o low risk</li> </ul>                                                                                                                                                     | <p>Equal ← →</p>                          | <p>High quality company</p> <p>A - Extremely Reliable products</p>                                                                           |
| PRODUCT DELIVERY AVAILABILITY     | <ul style="list-style-type: none"> <li>Volume planned available at announcement</li> <li>o Systems available through DEC 24</li> <li>o Systems available through Digital Electronic Store</li> </ul>                                                                                                                       | <ul style="list-style-type: none"> <li>o time to market</li> </ul>                                                                                                                                               | <p>A - Quick delivery</p>                 | <p>D - 12 week delivery</p>                                                                                                                  |

NEED FROM MSSC

- APPROVAL OF PRICING STRATEGY
- APPROVAL OF PROPOSED ANNOUNCEMENT DATE OF MAY 15<sup>TH</sup>
- SUPPORT FOR DEVELOPMENT APPLICATION PROGRAM
- HELP OBTAINING MARKETING PLANS

MicroVAX

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I n t e r o f f i c e M e m o

TO: \*WIN HINDLE

DATE: TUE 8 JAN 1985 11:14 AM EST  
FROM: JACK MACKEEN  
DEPT: OEM GROUP  
EXT: 278-4500  
LOC/MAIL STOP: UP02-4/-L13

MESSAGE ID: 5260358115

SUBJECT: MICROVAX CHIP MARKETING STATUS REPORT - Q2, FY85

FOR YOUR INFORMATION . . .



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I n t e r o f f i c e M e m o

TO: AMUS:  
MKTG/SLS STRAT COM:  
cc: DICK HEATON  
JACK MACKEEN  
MVAX CHIP:

DATE: THU 3 JAN 1985 4:05 PM EST  
FROM: PETER MASUCCI  
DEPT: MICRO'S MARKETING  
EXT: 225-6436  
LOC/MAIL STOP: HLO2-1/N10

MESSAGE ID: 5259849767

SUBJECT: MVAX CHIP MARKETING STATUS REPORT FOR Q2 FY'85

This report is intended to update you on the key events and activities that have occurred during Q2 concerning the MVAX chip. I will be happy to provide additional detail if required.

NON-DISCLOSURE PRESENTATION (NDP) - PROCESS AND STATUS REPORT

The process that the MSSC approved last year for giving non-disclosure presentations, is being implemented. This process is monitored by the MVAX chip subcommittee set up by MSSC. The MVAX chip subcommittee that the MSSC chartered is made up of representatives from the SMU's and AMC's, as well as LEGAL. This subcommittee serves as the forum for reviewing and deciding on requests for MVAX chip information within the approved fields of use restrictions.

During Q2, nine (9) additional accounts were approved for NDP, with only five (5) actually given the NDP. Two (2) requests were rejected, and two (2) others are still pending. This brings our totals-to-date to 75 approved for NDP, 27 presentations given, two (2) rejected, and two (2) pending.

30-AUGUST-1984 INFORMAL MEETING OF THE MSSC

At the MSSC meeting on 30-August, we reviewed the MVAX chip strategy. The purpose of the meeting was to quantify the impact on systems sales if we sold the MVAX chip openly. Also, at the meeting, engineering (Kalb) reviewed the technology trends for the semiconductor industry.

The MSSC reviewed our criteria for selling MVAX chips, and it was pointed out that we (MICRO's) were being too restrictive in only talking to existing DEC accounts, and should expand our prospect base to include non-DEC accounts that fit within the fields of use definitions approved by MSSC and managed by the MVAX chip subcommittee formed last year. We are now operating under this expanded definition.

OTHER SIGNIFICANT EVENTS

By discussing our MVAX chip offering to targeted accounts, we are seeing increased interest in our VAX systems products. Some

specific recent examples include the following:

1. GE-Huntsville selected VAX, chips through 8600's, as part of a comprehensive automatic test equipment bid to the Navy.
2. ITT Brussels is now considering a total VAX based telephone switching system now that the actual switching controller can be build out of MVAX chips.
3. Schlumberger-Well Services Division (Houston), Stromberg-Carlson (Orlando), and Intergraph (Huntsville), all conducted serious evaluations of our MVAX chip vs Motorola 68020's and National 32032's, and selected the MVAX 78032. All three however have since upgraded to board-level designs thereby providing even higher NOR.
4. Raytheon (Wayland) was faced with developing alternatives to VAX for a radar system because multiple 8600's couldn't physically fit. By offering a compatible MVAX chip, they are now able to repartition the job, and will stay with the 8600 and multiple MVAX sub-systems.
5. General Motors/Delco (assorted locations) are now working the issue of next generation automotive control systems, and once again, the availability of a compatible chip, has put DEC in a strong position for the actual car controller AND for their large factory automation needs.

Finally, the first working chip samples were delivered to Applicon in October, and are now running in their prototype CAD system.

#### THE NEXT STEPS

Key events planned for Q3 include the following:

1. Return to MSSC to review our program and strategy
2. Develop a pricing and announcement strategy that fits into the overall corporate MVAX-II systems strategy
3. Presenting to MSSC for approval, the special MVAX chip contract for managing to the fields of use charter

Happy New Year !!!

3-JAN-85 16:33:14 S 04309 MREM  
MREM MESSAGE ID: 5259853114

8-JAN-85 12:09:44 S 02884 MR16  
MR16 MESSAGE ID: 5260352490

MicroVAX

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I n t e r o f f i c e M e m o

TO: see "TO" DISTRIBUTION  
cc: see "CC" DISTRIBUTION

DATE: FRI 4 JAN 1985 4:37 PM EST  
FROM: PETER MASUCCI  
DEPT: MICRO'S MARKETING  
EXT: 225-6436  
LOC/MAIL STOP: HLO2-1/N10

MESSAGE ID: 5259955101

SUBJECT: GENERAL MOTORS AND MVAX CHIPS

Dave/Mark/MVAX CHIP:, I have discussed this application in depth with Daryl Rice and fully support this non-disclosure request.

The GM team has already evaluated, and rejected the WE32000 chip from AT&T. I believe we have an excellent opportunity to seed some long range, ultra-high volume chip buisness, AND assist the account team in re-inforcing our corporate systems message. This point can help them close short term systems business at GM and DELCO should they select the VAX architecture for their 1990+ autos. This application falls directly into the approved fields of use for the MVAX chip family that MSSC has chartered.

Over the next weeks, my group, and the semiconductor engineering team, will develop an appropriate futures presentation for GM. I have already discussed this opportunity with Duane Dickhut of SEG, and he has offered his personal support.

Please let me know if I can be of further assistance in your consideration of this non-disclosure request.

Regards,  
Peter.

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I n t e r o f f i c e M e m o

TO: JEANNIE KOUSHOURIS  
cc: see "CC" DISTRIBUTION

DATE: THU 3 JAN 1985 4:13 PM EST  
FROM: STEVE KOENIG  
DEPT: GM CORPORATE ACCOUNTS  
EXT: 444-2235  
LOC/MAIL STOP: FHO/FHO

MESSAGE ID: 5259853219

SUBJECT: NON-DISCLOSURE/CHIP TECH. FUTURE TRENDS & DIRECTIONS

===> THIS EMS IS FROM DARYL RICE <===

I NEED TO HAVE A NON-DISCLOSURE EXECUTED FOR A TECHNICAL EXCHANGE WITH GENERAL MOTORS CENTERED AROUND OUR CURRENT AND FUTURE MICRO-VAX CHIP PRODUCTS. WE ALSO NEED TO DISCUSS FUTURE TREND AND DIRECTIONS THROUGH THE 1990'S WITH REGARDS TO CHIP TECHNOLOGY IN GENERAL.

WE CURRENTLY HAVE A NON-DISCLOSURE FORM INCLUDED IN THE G.M. MASTER AGREEMENT AND I AM ENCLOSING A COPY FOR YOUR APPROVAL.

THE NECESSARY BACKGROUND INFORMATION FOLLOWS:

GENERAL MOTORS HAS ASKED DIGITAL IF WE WOULD BE INTERESTED IN EXPLORING THE POSSIBILITY OF UTILIZING OUR CHIP TECHNOLOGY FOR THEIR 1990 AUTOMOBILE ON-BOARD COMPUTERS. A FACT FINDING EXCHANGE CENTERED AROUND OUR CURRENT MICRO-VAX CHIP TECHNOLOGY/FUTURE TRENDS WOULD BE BENEFICIAL FOR BOTH COMPANIES.

THEY HAVE SET UP A COMMITTEE TO EXPLORE G.M.'S NEEDS THROUGH THE 1990'S AND ARE EXTREMELY INTERESTED IN EXCHANGING INFORMATION. THEIR COMMITTEE CONSISTS OF 8 PEOPLE HEADED BY JOHN KASTURA, WHO IS HEAD OF THEIR ADVANCED CHIP TECHNOLOGY GROUP AT DELCO ELECTRONICS. THEY WOULD LIKE TO MEET WITH US IN KOKOMO, INDIANA AND HAVE OUTLINED THE FOLLOWING AREAS AS IMPORTANT AGENDA ITEMS.

1. CURRENT AND FUTURE TRENDS IN THROUGHPUT AND PERFORMANCE OF OUR CHIP SETS.
2. MULTI-PROCESSOR CONFIGURABILITY AND REAL TIME CONTROL. (WHAT HAPPENS WHEN THEY NEED MORE POWER??)
3. DIGITAL I/O AND COUNTER FUNCTIONS (USUALLY OVERLOOKED IN SINGLE CHIP CONTROLLERS).
4. NETWORKS AND COMMUNICATION ASPECTS
5. DEVELOPMENT OF TOOLS, I.E., HARDWARE EMULATORS.

G.M.'S COMMITTEE CONSISTS OF PEOPLE FROM DELCO SYSTEMS DIVISIONS IN CALIFORNIA, GM RESEARCH LABS AND ADVANCED PRODUCT MANUFACTURING

ENGINEERING SYSTEMS (APMES) IN DETROIT AND SEVERAL PEOPLE FROM  
DELCO ELECTRONICS IN KOKOMO, INDIANA.

THEY WILL EXCHANGE WITH US WHERE THEY FEEL THEIR NEEDS WILL BE IN  
THE 1990'S. THEY HAVE ASKED FOR A MEETING JAN. 16TH AT 9:00 A.M.  
IN KOKOMO.

IF THIS DATE CANNOT BE MET, WE WOULD HAVE TO DEFER TO EARLY  
FEBRUARY AS AN ALTERNATE TIMEFRAME.

I BELIEVE THIS IS AN EXCITING OPPORTUNITY FOR US AND SOLICIT YOUR  
SUPPORT WITH THE NON-DISCLOSURE REQUIREMENTS.

REGARDS,

DARYL RICE

3-JAN-85 16:53:29 S 04418 BURT  
BURT MESSAGE ID: 5259853185

"CC" DISTRIBUTION:

JOHN ANDREWS  
TOM DIETSCH  
STEVE KOENIG  
LINDA PAZZANESA

JIM CHAFEL  
DICK HEATON  
PETER MASUCCI  
BILL RAASCH

DUANE DICKHUT  
JEFF KALB  
BOB MUCKRIDGE  
MARK ROBERTS

4-JAN-85 18:47:24 S 05053 MREM  
MREM MESSAGE ID: 5259954519

"TO" DISTRIBUTION:

DAVE GRAINGER

MVAX CHIP:

MARK ROBERTS

"CC" DISTRIBUTION:

BELKER/STRANGE  
DICK HEATON  
STEVE KOENIG  
JACK MACKEN

ELLIOT S BLACKMAN  
\*WIN HINDLE  
JEANNIE KOUSHOURIS  
DARYL RICE

DUANE DICKHUT  
JEFF KALB  
WARD MACKENZIE  
LEN UMINA