

JAN 6 - 12, 1974

WEEKLY ANALYSIS REPORT:

WEEK: JAN 6 - 12, 1974 (24 HOURS/DAY)

TOTAL SYSTEM CPU: 66.766

| (ARC) | CPU HRS | CON HRS | CPU/CON | % SYS | CON/CPU:1 | |
|----------|---------|---------|---------|--------|-----------|------|
| (DOC) | | | | | | 6a2 |
| (JMB) | .021 | .283 | .074 | .031 | 13.476 | 6a2a |
| (NDM) | .372 | 10.914 | .034 | .557 | 29.339 | 6a2b |
| CAT | 11.324 | 19.103 | .593 | 16.961 | 1.687 | 6a2c |
| DOCB | - | - | - | - | - | 6a2d |
| DOCUM | .114 | 4.199 | .027 | .171 | 36.833 | 6a2e |
| | ----- | ----- | | ----- | | 6a2f |
| TOTAL | 11.831 | 34.499 | .343 | 17.720 | | 6a2g |
| | | | | | | 6a2h |
| (FAC) | | | | | | 6a3 |
| (RAB) | .009 | .211 | .043 | .013 | 23.444 | 6a3a |
| (MEH) | .402 | 9.802 | .041 | .602 | 24.383 | 6a3b |
| (JCP) | 1.403 | 47.450 | .030 | 2.101 | 33.820 | 6a3c |
| (JR) | - | - | - | - | - | 6a3d |
| (EKV) | - | - | - | - | - | 6a3e |
| HRDWRE | .188 | 18.047 | .010 | .282 | 95.995 | 6a3f |
| HARDWARE | .074 | 3.211 | .023 | .111 | 43.392 | 6a3g |

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| | | | | | | |
|----------|-------|---------|------|-------|--------|------|
| OPRATR | 2.167 | 30.713 | .071 | 3.246 | 14.173 | 6a3h |
| | ----- | ----- | | ----- | | 6a3i |
| TOTAL | 4.243 | 109.434 | .039 | 6.355 | | 6a3j |
| | | | | | | 6a3k |
| (NIC) | | | | | | 6a4 |
| (JDC) | .017 | .501 | .034 | .025 | 29.471 | 6a4a |
| (EJF) | - | - | - | - | - | 6a4b |
| (CBG) | .015 | .267 | .056 | .022 | 17.800 | 6a4c |
| (MDK) | .610 | 13.261 | .046 | .914 | 21.739 | 6a4d |
| (MLK) | .378 | 34.383 | .011 | .566 | 90.960 | 6a4e |
| (JBN) | .215 | 9.778 | .022 | .322 | 45.479 | 6a4f |
| NETINFO | - | - | - | - | - | 6a4g |
| NIC-WORK | - | - | - | - | - | 6a4h |
| | ----- | ----- | | ----- | | 6a4i |
| TOTAL | 1.235 | 58.190 | .021 | 1.849 | | 6a4j |
| | | | | | | 6a4k |
| (PRO) | | | | | | 6a5 |
| (DIA) | 1.994 | 45.209 | .044 | 2.987 | 22.673 | 6a5a |
| (CFD) | - | - | - | - | - | 6a5b |
| (WRF) | .536 | 10.364 | .052 | .803 | 19.336 | 6a5c |
| (JDH) | .440 | 24.892 | .018 | .659 | 56.573 | 6a5d |
| (CHI) | .731 | 27.702 | .026 | 1.095 | 37.896 | 6a5e |
| (DSK) | .584 | 24.929 | .023 | .875 | 42.687 | 6a5f |
| (HGL) | .477 | 11.073 | .043 | .714 | 23.214 | 6a5g |
| (EKM) | .366 | 16.193 | .023 | .548 | 44.243 | 6a5h |

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| | | | | | | |
|-------|--------|---------|------|--------|--------|------|
| (KEV) | 2.101 | 39.351 | .053 | 3.147 | 18.730 | 6a5i |
| (DCW) | 3.281 | 53.886 | .061 | 4.914 | 16.424 | 6a5j |
| (JEW) | 1.128 | 21.422 | .053 | 1.689 | 18.991 | 6a5k |
| | ----- | ----- | | ----- | | 6a5l |
| TOTAL | 11.638 | 275.021 | .042 | 17.431 | | 6a5m |
| | | | | | | 6a5n |
| (PSO) | | | | | | 6a6 |
| (JML) | .012 | .534 | .022 | .018 | 44.500 | 6a6a |
| (BAH) | .227 | 8.217 | .028 | .340 | 36.198 | 6a6b |
| (MEJ) | .512 | 36.073 | .014 | .767 | 70.455 | 6a6c |
| (KIR) | 1.555 | 51.691 | .030 | 2.329 | 33.242 | 6a6d |
| | ----- | ----- | | ----- | | 6a6e |
| TOTAL | 2.306 | 96.515 | .024 | 3.454 | | 6a6f |
| | | | | | | 6a6g |
| (STA) | | | | | | 6a7 |
| (JHB) | .335 | 18.037 | .019 | .502 | 53.842 | 6a7a |
| (DCE) | .521 | 18.767 | .028 | .780 | 36.021 | 6a7b |
| (SRL) | .615 | 19.092 | .032 | .921 | 31.044 | 6a7c |
| (JCN) | .553 | 14.995 | .037 | .828 | 27.116 | 6a7d |
| (DVN) | 1.071 | 30.403 | .035 | 1.604 | 28.387 | 6a7e |
| (PR) | .106 | 3.036 | .035 | .159 | 28.642 | 6a7f |
| (RWW) | .250 | 11.301 | .022 | .374 | 45.204 | 6a7g |
| | ----- | ----- | | ----- | | 6a7h |
| TOTAL | 3.451 | 115.631 | .030 | 5.168 | | 6a7i |
| | | | | | | 6a7j |

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(GROUP) TOTALS

| GROUP | CPU HRS | CON HRS | CPU/CON | % SYS | |
|-------|---------|---------|---------|--------|------|
| (DOC) | 11.831 | 34.499 | .343 | 17.720 | 6a8 |
| (FAC) | 4.243 | 109.434 | .039 | 6.355 | 6a8a |
| (NIC) | 1.235 | 58.190 | .021 | 1.849 | 6a8b |
| (PRO) | 11.638 | 275.021 | .042 | 17.431 | 6a8c |
| (PSO) | 2.306 | 96.515 | .024 | 3.454 | 6a8d |
| (STA) | 3.451 | 115.631 | .030 | 5.168 | 6a8e |
| | ----- | ----- | | ----- | 6a8f |
| TOTAL | 34.704 | 689.290 | .050 | 51.977 | 6a8g |

(STATS)

| | | |
|----------------------------|-------------------------------|--|
| HIGHEST CPU: DCW 3.281 hrs | LOWEST CPU: RAB .009 | |
| HIGHEST CON: DCW 53.88 hrs | LOWEST CON: RAB .211 | |
| HIGHEST CPU/CON: JMB .074 | HIGHEST CON/CPU:1: MLK 90.980 | |

| CPU HRS | CON HRS | CPU/CON | % SYS | CON/CPU:1 | |
|---------|---------|---------|-------|-----------|--|
|---------|---------|---------|-------|-----------|--|

(NET)

| | | | | | | |
|-------|-------|---------|------|--------|--------|--|
| TOTAL | 7.498 | 338.414 | .022 | 11.230 | 45.134 | |
|-------|-------|---------|------|--------|--------|--|

TOP FIVE

JAN 6 - 12, 1974

| | | | | | | |
|-----------|-------|---------|-------|-------|--------|------|
| ----- | | | | | | 6c5 |
| CASE-10 | 1.014 | 43.116 | .024 | 1.519 | 42.521 | 6c6 |
| MITRE-TIP | .891 | 35.755 | .025 | 1.335 | 40.129 | 6c7 |
| UCLA-NMC | .707 | 30.343 | .023 | 1.059 | 42.918 | 6c8 |
| GUEST | .685 | 38.661 | .018 | 1.026 | 56.439 | 6c9 |
| NSRDC | .603 | 26.658 | .023 | .903 | 44.209 | 6c10 |
| ----- | ----- | ----- | ----- | ----- | ----- | 6c11 |
| TOTAL | 3.900 | 174.533 | .022 | 5.842 | | 6c12 |

6c13

(SYS)

6d

| | | | | | | |
|------------|--------|---------|-------|--------|--------|-----|
| SYSTEM | 2.880 | 172.961 | .017 | 4.314 | 60.056 | 6d1 |
| SYSTEM | 1.056 | 73.759 | .014 | 1.582 | 69.848 | 6d2 |
| SYSTEM | 12.418 | 358.990 | .035 | 18.600 | 28.571 | 6d3 |
| BACKGROUND | 2.393 | 173.393 | .014 | 3.584 | 72.458 | 6d4 |
| PRINTER | 7.393 | 172.938 | .043 | 11.073 | 23.392 | 6d5 |
| ----- | ----- | ----- | ----- | ----- | ----- | 6d6 |
| TOTAL | 22.204 | 705.321 | .031 | 33.257 | | 6d7 |

(WOR)

6e

| | | | | | | |
|----------|-------|--------|-------|-------|---------|-----|
| ENERGY | .163 | 10.281 | .016 | .244 | 63.074 | 6e1 |
| GILBERT | - | - | - | - | - | 6e2 |
| JIMB | .011 | .774 | .014 | .016 | 70.364 | 6e3 |
| MARTINEZ | .016 | 1.833 | .009 | .024 | 114.562 | 6e4 |
| MARRAH | - | - | - | - | - | 6e5 |
| ----- | ----- | ----- | ----- | ----- | ----- | 6e6 |
| | | | | | | 6e7 |

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|---------------|-------|--------|------|-------|--------|------|
| TOTAL | .190 | 12.888 | .015 | .284 | | 6e8 |
| | | | | | | 6e9 |
| (XOX) | | | | | | 6f |
| | | | | | | 6f1 |
| (LPD)DEUTSCH | .040 | .640 | .062 | .060 | 16.000 | 6f2 |
| (CMG)GESCHKE | - | - | - | - | - | 6f3 |
| (JGM)MITCHELL | - | - | - | - | - | 6f4 |
| (WHP)PAXTON | - | - | - | - | - | 6f5 |
| (EHS)SAT-WTE | .005 | .074 | .068 | .007 | 14.800 | 6f6 |
| (RES)SWEET | - | - | - | - | - | 6f7 |
| | ----- | ----- | | ----- | | 6f8 |
| TOTAL | .045 | .714 | .130 | .067 | | 6f9 |
| | | | | | | 6f10 |

(RAD)

| NAME | CPU HRS | CON HRS | CPU/CON | % SYS | CON/CPU:1 | |
|----------|---------|---------|---------|-------|-----------|------|
| BERGS | .151 | 8.226 | .018 | .226 | 54.477 | 6g2 |
| CARRIER | .081 | 3.870 | .021 | .121 | 47.778 | 6g3 |
| CAVAN | .169 | 26.511 | .006 | .253 | 156.870 | 6g4 |
| DAUGHTRY | .048 | 2.109 | .023 | .072 | 43.938 | 6g5 |
| IUORN | .107 | 4.916 | .022 | .160 | 45.944 | 6g6 |
| KENNE | .165 | 9.028 | .018 | .247 | 54.715 | 6g7 |
| LAFORGE | .026 | 1.121 | .023 | .039 | 43.115 | 6g8 |
| LAMON | .151 | 5.604 | .027 | .226 | 37.113 | 6g9 |
| | | | | | | 6g10 |
| | | | | | | 6g11 |

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| | | | | | | |
|-----------|-------|---------|------|-------|--------|------|
| LAWRE | .128 | 5.604 | .023 | .192 | 43.781 | 6g12 |
| LIUZZI | .011 | .828 | .013 | .016 | 75.273 | 6g13 |
| MCNAM | .030 | 2.463 | .012 | .045 | 82.100 | 6g14 |
| PANAR | .276 | 12.698 | .022 | .413 | 46.007 | 6g15 |
| STONE | .372 | 16.767 | .022 | .557 | 45.073 | 6g16 |
| THAYE | .072 | 4.661 | .015 | .108 | 64.736 | 6g17 |
| TOMAI | .021 | .511 | .041 | .031 | 24.333 | 6g18 |
| WINGFIELD | .003 | .041 | .073 | .004 | 13.667 | 6g19 |
| | ----- | ----- | | ----- | | 6g20 |
| TOTAL | 1.811 | 104.958 | .017 | 2.710 | | 6g21 |

(PER CENT TOTAL DISK CAPACITY)

6g22

6g23

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(J21858) 11-FEB-74 15:24; Title: Author(s): Beauregard A.
Hardeman/BAH; Distribution: /WAR; Sub-Collections: SRI-ARC WAR; Clerk:
BAH;

JAN 13-19, 1974: A WEEK IN REVIEW

WEEKLY ANALYSIS REPORT:

WEEK: JAN 13-19, 1974 (24 HOURS/DAY)

TOTAL SYSTEM CPU: 28.058

| (ARC) | CPU HRS | CON HRS | CPU/CON | % SYS | CON/CPU:1 | 6a |
|---------|---------|---------|---------|-------|-----------|------|
| (DOC) | | | | | | 6a2 |
| (JMB) | .058 | 1.998 | .029 | .207 | 34.448 | 6a2a |
| (NDM) | .064 | 2.629 | .024 | .228 | 41.078 | 6a2b |
| CAT | .022 | .339 | .065 | .078 | 15.409 | 6a2c |
| DOCB | - | - | - | - | - | 6a2d |
| DOCUM | .095 | 4.658 | .020 | .339 | 49.032 | 6a2e |
| AUERBCH | .001 | .281 | .004 | .004 | 281.000 | 6a2f |
| | ----- | ----- | | ----- | | 6a2g |
| TOTAL | .240 | 9.905 | .024 | .856 | | 6a2h |
| | | | | | | 6a2i |
| (FAC) | | | | | | 6a3 |
| (RAB) | - | - | - | - | - | 6a3a |
| (MEH) | .057 | 1.634 | .035 | .203 | 28.667 | 6a3b |
| (JCP) | 1.417 | 22.860 | .062 | 5.050 | 16.133 | 6a3c |
| (JR) | - | - | - | - | - | 6a3d |
| (EKV) | - | - | - | - | - | 6a3e |
| HRDWRE | .001 | .046 | .022 | .004 | 46.000 | 6a3f |

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| | | | | | | |
|----------|-------|--------|------|-------|--------|------|
| OPRATR | .400 | 13.536 | .030 | 1.426 | 33.840 | 6a3g |
| | ----- | ----- | | ----- | | 6a3h |
| TOTAL | 1.875 | 38.076 | .049 | 6.683 | | 6a3i |
| | | | | | | 6a3j |
| (NIC) | | | | | | 6a4 |
| (JDC) | .003 | .054 | .056 | .011 | 18.000 | 6a4a |
| (EJF) | .496 | 8.571 | .058 | 1.768 | 17.280 | 6a4b |
| (CBG) | - | - | - | - | - | 6a4c |
| (MDK) | .254 | 4.559 | .056 | .905 | 17.949 | 6a4d |
| (MLK) | .314 | 10.293 | .031 | 1.119 | 32.780 | 6a4e |
| (JBN) | .084 | 3.420 | .025 | .299 | 40.714 | 6a4f |
| NETINFO | - | - | - | - | - | 6a4g |
| NIC-WORK | - | - | - | - | - | 6a4h |
| | ----- | ----- | | ----- | | 6a4i |
| TOTAL | 1.151 | 26.897 | .043 | 4.102 | | 6a4j |
| | | | | | | 6a4k |
| (PRO) | | | | | | 6a5 |
| (DIA) | .313 | 11.324 | .028 | 1.116 | 36.179 | 6a5a |
| (WRF) | .009 | .436 | .021 | .032 | 48.444 | 6a5b |
| (JDH) | .815 | 39.569 | .021 | 2.905 | 48.551 | 6a5c |
| (CHI) | .932 | 28.485 | .033 | 3.322 | 30.563 | 6a5d |
| (DSK) | .095 | 3.276 | .029 | .339 | 34.484 | 6a5e |
| (HGL) | .226 | 4.867 | .046 | .805 | 21.535 | 6a5f |
| (EKM) | .050 | 4.080 | .012 | .178 | 81.600 | 6a5g |
| (KEV) | .177 | 8.422 | .021 | .631 | 47.582 | 6a5h |

JAN 13-19, 1974: A WEEK IN REVIEW

| | | | | | | |
|----------------|-------|---------|------|--------|--------|------|
| (DCW) | 2.338 | 26.338 | .089 | 8.333 | 11.236 | 6a5i |
| (JEW) | .087 | 1.957 | .044 | .310 | 22.494 | 6a5j |
| | ----- | ----- | | ----- | | 6a5k |
| TOTAL | 5.042 | 128.754 | .039 | 17.971 | | 6a5l |
| | | | | | | 6a5m |
| (PSO) | | | | | | 6a6 |
| (JML) | .011 | .536 | .021 | .039 | 48.727 | 6a6a |
| (BAH) | .196 | 4.847 | .040 | .699 | 24.730 | 6a6b |
| (MEJ) | .274 | 23.606 | .012 | .977 | 86.153 | 6a6c |
| (KIR) | .847 | 29.573 | .029 | 3.019 | 34.915 | 6a6d |
| | ----- | ----- | | ----- | | 6a6e |
| TOTAL | 1.328 | 58.562 | .023 | 4.734 | | 6a6f |
| | | | | | | 6a6g |
| (STA) | | | | | | 6a7 |
| (JHB) | .040 | 3.893 | .010 | .143 | 97.325 | 6a7a |
| (DCE) | .301 | 8.429 | .036 | 1.073 | 28.003 | 6a7b |
| (SRL) | .232 | 5.084 | .046 | .827 | 21.914 | 6a7c |
| (JCN) | .838 | 16.383 | .051 | 2.987 | 19.550 | 6a7d |
| (DVN) | .165 | 5.047 | .033 | .588 | 30.588 | 6a7e |
| (PR) | .175 | 6.131 | .029 | .624 | 35.034 | 6a7f |
| (RWW) | .128 | 5.387 | .024 | .456 | 42.086 | 6a7g |
| | ----- | ----- | | ----- | | 6a7h |
| TOTAL | 1.879 | 50.354 | .037 | 6.698 | | 6a7i |
| | | | | | | 6a7j |
| (GROUP) TOTALS | | | | | | 6a8 |

JAN 13-19, 1974: A WEEK IN REVIEW

| GROUP | CPU HRS | CON HRS | CPU/CON | % SYS | |
|-------|---------|---------|---------|--------|------|
| (DOC) | .240 | 9.905 | .024 | .856 | 6a8a |
| (FAC) | 1.875 | 38.076 | .049 | 6.683 | 6a8b |
| (NIC) | 1.151 | 26.897 | .043 | 4.102 | 6a8c |
| (PRO) | 5.042 | 128.754 | .039 | 17.971 | 6a8d |
| (PSO) | 1.328 | 58.562 | .023 | 4.734 | 6a8e |
| (STA) | 1.879 | 50.354 | .037 | 6.698 | 6a8f |
| | ----- | ----- | | ----- | 6a8g |
| TOTAL | 11.515 | 312.548 | .037 | 41.044 | 6a8h |

(STATS)

| | | | | | | |
|------------------|-----|------------|--------------------|-----|------|------|
| HIGHEST CPU: | DCW | 2.338 hrs | LOWEST CPU: | JDC | .003 | 6a9 |
| hrs | | | | | | 6a9a |
| HIGHEST CON: | JDH | 39.569 hrs | LOWEST CON: | JDC | .054 | 6a9b |
| hrs | | | | | | 6a9c |
| HIGHEST CPU/CON: | DCW | .089 | HIGHEST CON/CPU:1: | JHB | | 6a9d |
| 97.325 | | | | | | 6b |

CPU HRS CON HRS CPU/CON % SYS CON/CPU:1 6b

(NET)

TOTAL 3.140 169.590 .019 11.191 6c

TOP FIVE 6c1

----- 6c2

----- 6c3

----- 6c4

----- 6c5

JAN 13-19, 1974: A WEEK IN REVIEW

| | | | | | | |
|------------|--------|---------|------|--------|--------|------|
| MITRE-TIP | .599 | 29.650 | .020 | 2.135 | 49.499 | 6c6 |
| GUEST | .386 | 16.038 | .024 | 1.376 | 41.549 | 6c7 |
| NSRDC | .244 | 9.690 | .025 | .870 | 39.713 | 6c8 |
| SDAC-TIP | .188 | 8.383 | .022 | .670 | 44.590 | 6c9 |
| UCSB | .171 | 5.061 | .034 | .609 | 29.596 | 6c10 |
| | ----- | ----- | | ----- | | 6c11 |
| TOTAL | 1.588 | 68.822 | .023 | 5.660 | | 6c12 |
| | | | | | | 6c13 |
| (SYS) | | | | | | 6d |
| SYSTEM | 5.145 | 204.368 | .025 | 5.478 | 40.000 | 6d1 |
| BACKGROUND | 1.079 | 41.121 | .026 | 3.846 | 38.110 | 6d2 |
| PRINTER | 6.122 | 74.346 | .082 | 21.819 | 12.144 | 6d3 |
| | ----- | ----- | | ----- | | 6d4 |
| TOTAL | 12.346 | 319.835 | .039 | 44.002 | | 6d5 |
| (WOR) | | | | | | 6e |
| | | | | | | 6e1 |
| ENERGY | .072 | 3.791 | .019 | .257 | 52.653 | 6e2 |
| GILBERT | - | - | - | - | - | 6e3 |
| JIMB | .001 | .016 | .062 | .004 | 16.000 | 6e4 |
| MARTINEZ | .024 | 1.719 | .014 | .086 | 71.625 | 6e5 |
| | ----- | ----- | | ----- | | 6e6 |
| TOTAL | .097 | 5.526 | .018 | .347 | | 6e7 |
| | | | | | | 6e8 |
| (XOX) | | | | | | 6f |
| | | | | | | 6f1 |

JAN 13-19, 1974: A WEEK IN REVIEW

| | | | | | | |
|---------|-------|-------|------|-------|--------|-----|
| COWAN | .004 | .212 | .019 | .014 | 53.000 | 6f2 |
| DEUTSCH | .005 | .058 | .086 | .018 | 11.600 | 6f3 |
| | ----- | ----- | | ----- | | 6f4 |
| TOTAL | .009 | .270 | .033 | .032 | | 6f5 |
| | | | | | | 6f6 |

(RAD)

| | | | | | | |
|---------|---------|---------|---------|-------|-----------|------|
| | | | | | | 6g |
| | | | | | | 6g1 |
| | | | | | | 6g2 |
| | | | | | | 6g3 |
| NAME | CPU HRS | CON HRS | CPU/CON | % SYS | CON/CPU:1 | |
| | | | | | | 6g4 |
| BERGS | .004 | .061 | .066 | .014 | 15.250 | 6g4 |
| CARRIER | .023 | 1.309 | .018 | .082 | 56.913 | 6g5 |
| CAVAN | .074 | 4.942 | .015 | .264 | 66.784 | 6g6 |
| IUORN | .012 | .374 | .032 | .043 | 31.167 | 6g7 |
| KENNE | .157 | 6.169 | .025 | .560 | 39.293 | 6g8 |
| LAMON | .071 | 1.517 | .047 | .253 | 21.366 | 6g9 |
| LAWRE | .122 | 4.664 | .026 | .435 | 38.230 | 6g10 |
| MCNAM | .018 | 1.295 | .014 | .064 | 71.944 | 6g11 |
| PANAR | .122 | 5.912 | .021 | .435 | 48.459 | 6g12 |
| RZEPK | .042 | 2.811 | .015 | .150 | 66.929 | 6g13 |
| STONE | .279 | 9.200 | .030 | .994 | 32.975 | 6g14 |
| THAYE | .006 | .107 | .056 | .021 | 17.833 | 6g15 |
| TOMAI | .016 | .489 | .033 | .057 | 30.563 | 6g16 |
| | ----- | ----- | | ----- | ----- | 6g17 |
| TOTAL | .946 | 38.850 | .024 | 3.372 | | 6g18 |
| | | | | | | 6g19 |

JAN 13-19, 1974: A WEEK IN REVIEW

**BAH 11-FEB-74 15:26 21859
JAN 13-19, 1974: A WEEK IN REVIEW

(J21859) 11-FEB-74 15:26; Title: Author(s): Beauregard A.
Hardeman/BAH; Distribution: /WAR; Sub-Collections: SRI-ARC WAR; Clerk:
BAH;

JAN 20 - 26, 1974: A WEEK IN REVIEW

WEEKLY ANALYSIS REPORT:

WEEK: JAN 20 - 26, 1974 (24 HOURS/DAY)

TOTAL SYSTEM CPU: 59.588

| (ARC) | CPU HRS | CON HRS | CPU/CON | % SYS | CON/CPU:1 | |
|---------|---------|---------|---------|--------|-----------|------|
| (DOC) | | | | | | 6a2 |
| (JMB) | .219 | 6.923 | .032 | .363 | 31.612 | 6a2a |
| (NDM) | .597 | 33.301 | .018 | 1.002 | 55.781 | 6a2b |
| CAT | 4.872 | 11.396 | .428 | 8.176 | 2.339 | 6a2c |
| DOCB | - | - | - | - | - | 6a2d |
| DOCUM | .286 | 9.153 | .031 | .480 | 32.003 | 6a2e |
| AUERBCH | .036 | 1.997 | .018 | .060 | 55.472 | 6a2f |
| | ----- | ----- | | ----- | | 6a2g |
| TOTAL | 6.010 | 62.770 | .096 | 10.086 | | 6a2h |
| | | | | | | 6a2i |
| (FAC) | | | | | | 6a3 |
| (RAB) | .014 | .459 | .031 | .023 | 32.786 | 6a3a |
| (MEH) | .147 | 4.701 | .031 | .247 | 31.980 | 6a3b |
| (JCP) | 1.784 | 65.012 | .027 | 2.994 | 36.442 | 6a3c |
| (JR) | - | - | - | - | - | 6a3d |
| (EKV) | - | - | - | - | - | 6a3e |
| HRDWRE | .048 | .929 | .052 | .080 | 19.231 | 6a3f |

JAN 20 - 26, 1974: A WEEK IN REVIEW

| | | | | | | |
|----------|-------|---------|------|-------|--------|------|
| OPRATR | .862 | 36.271 | .024 | 1.447 | 42.078 | 6a3g |
| | ----- | ----- | | ----- | | 6a3h |
| TOTAL | 2.855 | 107.372 | .027 | 4.791 | | 6a3i |
| | | | | | | 6a3j |
| (NIC) | | | | | | 6a4 |
| (JDC) | .073 | 2.644 | .028 | .123 | 36.219 | 6a4a |
| (EJF) | .826 | 18.177 | .045 | 1.386 | 22.006 | 6a4b |
| (CBG) | .003 | .088 | .034 | .005 | 29.333 | 6a4c |
| (MDK) | .519 | 10.723 | .048 | .871 | 20.661 | 6a4d |
| (MLK) | .503 | 20.504 | .025 | .844 | 40.763 | 6a4e |
| (JBN) | .793 | 31.358 | .025 | 1.331 | 39.544 | 6a4f |
| NETINFO | .004 | .063 | .063 | .007 | 15.750 | 6a4g |
| NIC-WORK | - | - | - | - | - | 6a4h |
| | ----- | ----- | | ----- | | 6a4i |
| TOTAL | 2.721 | 83.557 | .033 | 4.567 | | 6a4j |
| | | | | | | 6a4k |
| (PRO) | | | | | | 6a5 |
| (DIA) | 1.399 | 31.947 | .044 | 2.348 | 22.836 | 6a5a |
| (CFD) | - | - | - | - | - | 6a5b |
| (WRF) | .933 | 69.764 | .013 | 1.566 | 74.774 | 6a5c |
| (JDH) | 1.852 | 79.565 | .023 | 3.108 | 42.962 | 6a5d |
| (CHI) | .599 | 24.702 | .024 | 1.005 | 41.239 | 6a5e |
| (DSK) | .651 | 25.921 | .025 | 1.093 | 39.817 | 6a5f |
| (HGL) | .434 | 10.148 | .043 | .728 | 23.382 | 6a5g |
| (EKM) | .198 | 10.254 | .019 | .332 | 51.788 | 6a5h |

JAN 20 - 26, 1974: A WEEK IN REVIEW

| | | | | | | |
|----------|--------|---------|------|--------|--------|------|
| (KEV) | 1.869 | 31.060 | .060 | 3.137 | 16.619 | 6a5i |
| (DCW) | 3.409 | 64.809 | .053 | 5.721 | 19.011 | 6a5j |
| (JEW) | 1.275 | 28.088 | .045 | 2.140 | 22.030 | 6a5k |
| DUVALL | .004 | .103 | .039 | .007 | 25.750 | 6a5l |
| | ----- | ----- | | ----- | | 6a5m |
| TOTAL | 12.623 | 376.361 | .034 | 21.185 | | 6a5n |
| | | | | | | 6a5o |
| (PSO) | | | | | | 6a6 |
| (JML) | .143 | 12.990 | .011 | .240 | 90.839 | 6a6a |
| (BAH) | .315 | 16.717 | .019 | .529 | 53.070 | 6a6b |
| (MEJ) | .712 | 44.725 | .016 | 1.195 | 62.816 | 6a6c |
| (KIR) | 1.145 | 35.166 | .033 | 1.922 | 30.713 | 6a6d |
| | ----- | ----- | | ----- | | 6a6e |
| TOTAL | 2.315 | 109.598 | .021 | 3.886 | | 6a6f |
| | | | | | | 6a6g |
| (STA) | | | | | | 6a7 |
| (JHB) | .461 | 19.461 | .024 | .774 | 42.215 | 6a7a |
| (DCE) | .739 | 39.944 | .019 | 1.240 | 54.051 | 6a7b |
| (SRL) | .481 | 13.144 | .037 | .807 | 27.326 | 6a7c |
| ANALYSIS | .002 | 31.307 | - | - | 0.000 | 6a7d |
| (JCN) | 1.723 | 37.488 | .046 | 2.892 | 21.757 | 6a7e |
| (DVN) | .635 | 16.247 | .039 | 1.066 | 25.586 | 6a7f |
| (PR) | .234 | 10.398 | .023 | .393 | 44.436 | 6a7g |
| (RWW) | .358 | 13.910 | .026 | .601 | 38.855 | 6a7h |
| | ----- | ----- | | ----- | | 6a7i |

JAN 20 - 26, 1974: A WEEK IN REVIEW

TOTAL 4.633 181.899 .025 7.773 6a7j

6a7k

(GROUP) TOTALS

6a8

| | | | | | |
|-------|---------|---------|---------|-------|------|
| GROUP | CPU HRS | CON HRS | CPU/CON | % SYS | 6a8a |
|-------|---------|---------|---------|-------|------|

6a8b

| | | | | | |
|-------|-------|--------|------|--------|------|
| (DOC) | 6.010 | 62.770 | .096 | 10.086 | 6a8c |
|-------|-------|--------|------|--------|------|

| | | | | | |
|-------|-------|---------|------|-------|------|
| (FAC) | 2.855 | 107.372 | .027 | 4.791 | 6a8d |
|-------|-------|---------|------|-------|------|

| | | | | | |
|-------|-------|--------|------|-------|------|
| (NIC) | 2.721 | 83.557 | .033 | 4.567 | 6a8e |
|-------|-------|--------|------|-------|------|

| | | | | | |
|-------|--------|---------|------|--------|------|
| (PRO) | 12.623 | 376.361 | .034 | 21.185 | 6a8f |
|-------|--------|---------|------|--------|------|

| | | | | | |
|-------|-------|---------|------|-------|------|
| (PSO) | 2.315 | 109.598 | .021 | 3.886 | 6a8g |
|-------|-------|---------|------|-------|------|

| | | | | | |
|-------|-------|---------|------|-------|------|
| (STA) | 4.633 | 181.899 | .025 | 7.773 | 6a8h |
|-------|-------|---------|------|-------|------|

| | | | | | |
|-------|-------|-------|-------|-------|------|
| ----- | ----- | ----- | ----- | ----- | 6a8i |
|-------|-------|-------|-------|-------|------|

| | | | | | |
|-------|--------|---------|------|--------|------|
| TOTAL | 31.157 | 921.557 | .034 | 52.288 | 6a8j |
|-------|--------|---------|------|--------|------|

6a8k

(STAIS)

6a9

| | | | | | | |
|--------------|-----|-----------|-------------|-----|------|------|
| HIGHEST CPU: | DCW | 3.409 hrs | LOWEST CPU: | CBG | .003 | 6a9a |
| hrs | | | | | | |

| | | | | | | |
|--------------|-----|------------|-------------|-----|------|------|
| HIGHEST CON: | JDH | 79.565 hrs | LOWEST CON: | CBG | .088 | 6a9b |
| hrs | | | | | | |

| | | | | | | |
|------------------|-----|------|--------------------|-----|--|------|
| HIGHEST CPU/CON: | KEV | .060 | HIGHEST CON/CPU:1: | JML | | 6a9c |
| 90.839 | | | | | | |

6a9d

| | | | | | |
|---------|---------|---------|-------|-----------|----|
| CPU HRS | CON HRS | CPU/CON | % SYS | CON/CPU:1 | 6b |
|---------|---------|---------|-------|-----------|----|

(NET)

6c

| | | | | | |
|-------|-------|---------|------|--------|-----|
| TOTAL | 6.216 | 297.299 | .021 | 10.432 | 6c2 |
|-------|-------|---------|------|--------|-----|

JAN 20 - 26, 1974: A WEEK IN REVIEW

| | | | | | | |
|------------|--------|---------|------|--------|--------|------|
| | | | | | | 6c3 |
| TOP FIVE | | | | | | 6c4 |
| ----- | | | | | | 6c5 |
| GUEST | .671 | 23.178 | .029 | 1.126 | 34.542 | 6c6 |
| UCLA-NMC | .581 | 24.996 | .023 | .975 | 43.022 | 6c7 |
| MITRE-TIP | .536 | 32.394 | .017 | .900 | 60.437 | 6c8 |
| UCSB | .495 | 23.672 | .021 | .831 | 47.822 | 6c9 |
| SDAC-TIP | .465 | 19.843 | .023 | .780 | 42.673 | 6c10 |
| | ----- | ----- | | ----- | | 6c11 |
| TOTAL | 2.748 | 124.083 | .022 | 4.612 | | 6c12 |
| | | | | | | 6c13 |
| (SYS) | | | | | | 6d |
| SYSTEM | 10.677 | 385.282 | .028 | 17.918 | 35.714 | 6d1 |
| PRINTER | 6.807 | 128.488 | .053 | 11.423 | 18.876 | 6d2 |
| BACKGROUND | 2.772 | 128.315 | .022 | 4.652 | 45.455 | 6d3 |
| | ----- | ----- | | ----- | | 6d4 |
| TOTAL | 20.256 | 642.085 | .032 | 33.993 | | 6d5 |
| (WOR) | | | | | | 6e |
| | | | | | | 6e1 |
| ENERGY | .293 | 17.355 | .017 | .492 | 59.232 | 6e2 |
| GILBERT | - | - | - | - | - | 6e3 |
| JIMB | .046 | 1.223 | .038 | .077 | 26.587 | 6e4 |
| MARRAH | .020 | 1.894 | .011 | .034 | 94.700 | 6e5 |
| MARTINEZ | .007 | .560 | .012 | .012 | 80.000 | 6e6 |
| | ----- | ----- | | ----- | | 6e7 |

JAN 20 - 26, 1974: A WEEK IN REVIEW

| | | | | | | |
|-----------|-------|--------|------|-------|--------|-----|
| TOTAL | .366 | 21.032 | .017 | .615 | | 6e8 |
| | | | | | | 6e9 |
| (XOX) | | | | | | 6f |
| | | | | | | 6f1 |
| DEUTSCH | .011 | .176 | .062 | .018 | 16.000 | 6f2 |
| PARC-MAXC | .001 | .035 | .029 | .002 | 35.000 | 6f3 |
| PARC-VTS | .007 | .206 | .034 | .012 | 29.429 | 6f4 |
| SWEET | .011 | .874 | .013 | .018 | 79.455 | 6f5 |
| | ----- | ----- | | ----- | | 6f6 |
| TOTAL | .030 | 1.291 | .023 | .050 | | 6f7 |
| | | | | | | 6f8 |

| NAME | CPU HRS | CON HRS | CPU/CON | % SYS | CON/CPU:1 | DIR |
|----------|---------|---------|---------|-------|-----------|------|
| | | | | | | 6g |
| | | | | | | 6g1 |
| | | | | | | 6g2 |
| BERGS | .154 | 5.876 | .026 | .258 | 38.156 | 6g3 |
| CARRIER | .048 | 1.767 | .027 | .081 | 36.813 | 6g4 |
| CAVAN | .083 | 4.438 | .019 | .139 | 53.470 | 6g5 |
| DAUGHTRY | .001 | .015 | .067 | .002 | 15.000 | 6g6 |
| IUORN | .033 | 1.867 | .018 | .055 | 56.576 | 6g7 |
| KENNE | .312 | 14.206 | .022 | .524 | 45.532 | 6g8 |
| LAFORGE | .021 | 1.409 | .015 | .035 | 67.095 | 6g9 |
| LAMON | .041 | 2.828 | .014 | .069 | 68.976 | 6g10 |
| LAWRE | .116 | 6.466 | .018 | .195 | 55.741 | 6g11 |
| MCNAM | .017 | 1.004 | .017 | .029 | 59.059 | 6g12 |
| | | | | | | 6g13 |

JAN 20 - 26, 1974: A WEEK IN REVIEW

| | | | | | | | |
|--------------------------------|-------|--------|------|-------|--------|--------|------|
| PANAR | .056 | 1.569 | .036 | .094 | 28.018 | | 6g14 |
| RZEPK | .213 | 12.002 | .018 | .357 | 56.347 | | 6g15 |
| STONE | .386 | 16.675 | .023 | .648 | 43.199 | | 6g16 |
| THAYE | .022 | .714 | .031 | .037 | 32.455 | | 6g17 |
| TOMAI | .025 | .847 | .030 | .042 | 33.880 | | 6g18 |
| WINGFIELD | .038 | 1.958 | .019 | .064 | 51.526 | | 6g19 |
| | ----- | ----- | | ----- | | ----- | 6g20 |
| TOTAL | 1.566 | 73.641 | .021 | 2.629 | | 000 | 6g21 |
| (PER CENT TOTAL DISK CAPACITY) | | | | | | 00.00% | 6g22 |
| | | | | | | | 6g23 |

JAN 20 - 26, 1974: A WEEK IN REVIEW

(J21860) 11-FEB-74 15:28; Title: Author(s): Beauregard A.
Hardeman/BAH; Distribution: /WAR; Sub-Collections: SRI-ARC WAR; Clerk:
BAH;

JAN 27 - FEB 2, 1974: A WEEK IN REVIEW

WEEKLY ANALYSIS REPORT:

WEEK: JAN 27 - FEB 2, 1974 (24 HOURS/DAY)

TOTAL SYSTEM CPU: 48.628

| (ARC) | CPU HRS | CON HRS | CPU/CON | % SYS | CON/CPU:1 | 6a |
|----------|---------|---------|---------|-------|-----------|------|
| (DOC) | | | | | | 6a2 |
| (JMB) | .011 | .567 | .019 | .023 | 51.545 | 6a2a |
| (NDM) | .665 | 31.483 | .021 | 1.368 | 47.343 | 6a2b |
| CAT | - | - | - | - | - | 6a2c |
| DOCB | - | - | - | - | - | 6a2d |
| DOCUM | .086 | 3.792 | .023 | .177 | 44.093 | 6a2e |
| AUERBACH | .002 | .027 | .074 | .004 | 13.500 | 6a2f |
| | ----- | ----- | | ----- | | 6a2g |
| TOTAL | .764 | 35.869 | .021 | 1.572 | | 6a2h |
| | | | | | | 6a2i |
| (FAC) | | | | | | 6a3 |
| (RAB) | - | - | - | - | - | 6a3a |
| (MEH) | .060 | 2.367 | .025 | .123 | 39.450 | 6a3b |
| (JCP) | 2.486 | 71.580 | .035 | 5.112 | 28.793 | 6a3c |
| (JR) | .009 | .691 | .013 | .018 | 76.923 | 6a3d |
| (EKV) | - | - | - | - | - | 6a3e |
| HRDWRE | .019 | 1.884 | .010 | .039 | 99.158 | 6a3f |

JAN 27 - FEB 2, 1974: A WEEK IN REVIEW

| | | | | | | |
|--------|-------|---------|------|-------|--------|------|
| OPRATR | .812 | 40.431 | .020 | 1.670 | 49.792 | 6a3g |
| | ----- | ----- | | ----- | | 6a3h |
| TOTAL | 3.386 | 116.953 | .029 | 6.962 | | 6a3i |

6a3j

(NIC)

6a4

| | | | | | | |
|----------|-------|--------|------|-------|--------|------|
| (JDC) | .107 | 4.496 | .024 | .220 | 42.019 | 6a4a |
| (EJF) | .278 | 6.600 | .042 | .572 | 23.741 | 6a4b |
| (CBG) | .009 | .141 | .064 | .019 | 15.667 | 6a4c |
| (MDK) | 1.004 | 21.223 | .047 | 2.065 | 21.138 | 6a4d |
| (MLK) | .719 | 34.497 | .021 | 1.479 | 47.979 | 6a4e |
| (JBN) | .485 | 23.471 | .021 | .997 | 48.394 | 6a4f |
| NETINFO | .003 | .049 | .061 | .006 | 16.333 | 6a4g |
| NIC-WORK | - | - | - | - | - | 6a4h |
| | ----- | ----- | | ----- | | 6a4i |
| TOTAL | 2.605 | 90.477 | .029 | 5.358 | | |

**6a4j

6a4k

(PRO)

6a5

| | | | | | | |
|-------|-------|--------|------|-------|--------|------|
| (DIA) | .216 | 17.987 | .012 | .444 | 83.273 | 6a5a |
| (WRF) | .869 | 24.523 | .035 | 1.787 | 28.220 | 6a5b |
| (JDH) | .687 | 24.881 | .028 | 1.413 | 36.217 | 6a5c |
| (CHI) | .418 | 13.703 | .031 | .860 | 32.782 | 6a5d |
| (DSK) | 1.100 | 28.086 | .039 | 2.262 | 25.533 | 6a5e |
| (HGL) | .771 | 15.041 | .051 | 1.586 | 19.508 | 6a5f |
| (EKM) | .161 | 10.181 | .016 | .331 | 63.236 | 6a5g |
| (KEV) | 1.733 | 36.489 | .047 | 3.564 | 21.055 | 6a5h |

JAN 27 - FEB 2, 1974: A WEEK IN REVIEW

| | | | | | | |
|-------|--------|---------|------|--------|---------|------|
| (DCW) | 3.577 | 69.833 | .051 | 7.356 | 19.523 | 6a5i |
| (JEW) | 1.692 | 31.114 | .054 | 3.479 | 18.389 | 6a5j |
| | ----- | ----- | | ----- | | 6a5k |
| TOTAL | 11.224 | 271.838 | .041 | 23.082 | | 6a5l |
| | | | | | | 6a5m |
| (PSO) | | | | | | 6a6 |
| (JML) | .049 | 5.740 | .009 | .101 | 117.143 | 6a6a |
| (JMB) | .011 | .567 | .019 | .023 | 51.545 | 6a6b |
| (EAH) | .475 | 12.229 | .039 | .977 | 25.745 | 6a6c |
| (MEJ) | 1.126 | 65.528 | .017 | 2.316 | 58.195 | 6a6d |
| (KIR) | 1.198 | 31.580 | .038 | 2.464 | 26.361 | 6a6e |
| | ----- | ----- | | ----- | | 6a6f |
| TOTAL | 2.848 | 115.077 | .025 | 5.858 | | 6a6g |
| | | | | | | 6a6h |
| (STA) | | | | | | 6a7 |
| (JHB) | .611 | 19.440 | .031 | 1.256 | 31.817 | 6a7a |
| (DCE) | .644 | 18.157 | .035 | 1.324 | 28.194 | 6a7b |
| (SRL) | .814 | 11.917 | .068 | 1.674 | 14.640 | 6a7c |
| (JCN) | 2.459 | 74.478 | .033 | 5.057 | 30.288 | 6a7d |
| (DVN) | .426 | 13.216 | .032 | .876 | 31.023 | 6a7e |
| (PR) | .181 | 6.400 | .028 | .372 | 35.359 | 6a7f |
| (RWW) | .334 | 9.246 | .036 | .687 | 27.683 | 6a7g |
| | ----- | ----- | | ----- | | 6a7h |
| TOTAL | 5.469 | 152.854 | .036 | 11.246 | | 6a7i |
| | | | | | | 6a7j |

JAN 27 - FEB 2, 1974: A WEEK IN REVIEW

(GROUP) TOTALS

| GROUP | CPU HRS | CON HRS | CPU/CON | % SYS | |
|-------|---------|---------|---------|--------|------|
| (DOC) | .764 | 35.869 | .021 | 1.572 | 6a8 |
| (FAC) | 3.386 | 116.953 | .029 | 6.962 | 6a8a |
| (NIC) | 2.605 | 90.477 | .029 | 5.358 | 6a8b |
| (PRO) | 11.224 | 271.838 | .041 | 23.082 | 6a8c |
| (PSO) | 2.848 | 115.077 | .025 | 5.858 | 6a8d |
| (STA) | 5.469 | 152.854 | .036 | 11.246 | 6a8e |
| | ----- | ----- | | ----- | 6a8f |
| TOTAL | 26.296 | 783.068 | .034 | 54.078 | 6a8g |

(STATS)

| | | |
|-----------------------------|------------------------|------|
| HIGHEST CPU: DCW 3.577 hrs | LOWEST CPU: JR .009 | |
| hrs | | 6a9 |
| HIGHEST CON: DCW 69.833 hrs | LOWEST CON: CBG .141 | |
| hrs | | 6a9a |
| HIGHEST CPU/CON: SRL .068 | HIGHEST CON/CPU:1: JML | |
| 117.143 | | 6a9b |

| CPU HRS | CON HRS | CPU/CON | % SYS | CON/CPU:1 | |
|---------|---------|---------|-------|-----------|--|
|---------|---------|---------|-------|-----------|--|

(NET)

| | | | | | |
|-------|-------|---------|------|--------|----|
| TOTAL | 6.157 | 292.002 | .021 | 12.661 | 6b |
|-------|-------|---------|------|--------|----|

TOP FIVE

6c

6c1

6c2

6c3

6c4

JAN 27 - FEB 2, 1974: A WEEK IN REVIEW

| | | | | | | |
|------------|--------|---------|-------|--------|--------|------|
| ----- | | | | | | 6c5 |
| MITRE-TIP | .951 | 50.411 | .019 | 1.956 | 53.008 | 6c6 |
| UCLA-NMC | .921 | 48.014 | .019 | 1.894 | 52.132 | 6c7 |
| UCSB | .589 | 20.425 | .029 | 1.211 | 34.677 | 6c8 |
| NBS-TIP | .379 | 19.340 | .020 | .779 | 51.029 | 6c9 |
| SDAC-TIP | .360 | 11.255 | .032 | .740 | 31.264 | 6c10 |
| ----- | ----- | ----- | ----- | ----- | ----- | 6c11 |
| TOTAL | 3.200 | 149.445 | .021 | 6.580 | | 6c12 |
| | | | | | | 6c13 |
| (SYS) | | | | | | 6d |
| SYSTEM | 7.708 | 238.952 | .032 | 15.851 | 31.250 | 6d1 |
| PRINTER | 6.307 | 76.794 | .082 | 12.970 | 12.176 | 6d2 |
| BACKGROUND | 1.525 | 76.793 | .020 | 3.136 | 50.356 | 6d3 |
| ----- | ----- | ----- | ----- | ----- | ----- | 6d4 |
| TOTAL | 29.498 | 392.539 | .075 | 31.957 | | 6d5 |
| (WOR) | | | | | | 6e |
| | | | | | | 6e1 |
| ENERGY | .524 | 21.931 | .024 | 1.078 | 41.853 | 6e2 |
| GILBERT | - | - | - | - | - | 6e3 |
| JIMB | .051 | 2.028 | .025 | .105 | 39.765 | 6e4 |
| MARTINEZ | .009 | .611 | .015 | .019 | 67.889 | 6e5 |
| MARRAH | - | - | - | - | - | 6e6 |
| ----- | ----- | ----- | ----- | ----- | ----- | 6e7 |
| TOTAL | .584 | 24.570 | .024 | 1.202 | | 6e8 |
| | | | | | | 6e9 |

JAN 27 - FEB 2, 1974: A WEEK IN REVIEW

(XOX)

| | | | | | | |
|---------------|-------|-------|------|-------|--------|-----|
| (LPD)DEUTSCH | .034 | .341 | .100 | .070 | 10.029 | 6f |
| PARC-VTS | .006 | .221 | .027 | .012 | 36.833 | 6f1 |
| SATIERTHWAITE | .003 | .056 | .054 | .006 | 18.667 | 6f2 |
| | ----- | ----- | | ----- | | 6f3 |
| TOTAL | .043 | .618 | .070 | .088 | | 6f4 |

(RAD)

| NAME | CPU HRS | CON HRS | CPU/CON | % SYS | CON/CPU:1 | |
|-------|---------|---------|---------|-------|-----------|-----|
| BERGS | - | - | - | - | - | 6f5 |
| BETHK | - | - | - | - | - | 6f6 |
| CAVAN | - | - | - | - | - | 6f7 |
| IUORN | - | - | - | - | - | 6f8 |
| KENNE | .002 | .036 | .056 | .004 | 18.000 | 6f9 |
| LAMCN | - | - | - | - | - | 6g1 |
| LAWRE | - | - | - | - | - | 6g2 |
| MCNAM | - | - | - | - | - | 6g3 |
| PANAR | - | - | - | - | - | 6g4 |
| RADC | - | - | - | - | - | 6g5 |
| RZEPK | - | - | - | - | - | 6g6 |
| SLIWA | - | - | - | - | - | 6g7 |
| STONE | .008 | .584 | .014 | .016 | 73.000 | 6g8 |

JAN 27 - FEB 2, 1974: A WEEK IN REVIEW

| | | | | | | |
|-------|-------|-------|------|-------|---|------|
| THAYE | - | - | - | - | - | 6g17 |
| TOMAI | - | - | - | - | - | 6g18 |
| | ----- | ----- | | ----- | | 6g19 |
| TOTAL | .010 | .620 | .016 | .020 | | 6g20 |

(PER CENT TOTAL DISK CAPACITY) 6g21
6g22

JAN 27 - FEB 2, 1974: A WEEK IN REVIEW

(J21861) 11-FEB-74 15:30; Title: Author(s): Beauregard A.
Hardeman/BAH; Distribution: /WAR; Sub-Collections: SRI-ARC WAR; Clerk:
BAH;

All-ARC meeting on Wed 13 Feb

To all ARC staff: Unless otherwise notified, please reserve from 1030 to 1200 on Wed 13 Feb for an all-ARC meeting. Some question right now as to possible time conflicts, but I do want to have the meeting some time on Wed. If you have conflicts, please contact Jeanne Leavitt. Regards, Doug

1

DCE 11-FEB-74 18:25 21862

All-ARC meeting on Wed 13 Feb

(J21362) 11-FEB-74 18:25; Title: Author(s): Douglas C.
Egelbart/DCE; Distribution: /SRI-ARC; Sub-Collections: SRI-ARC; Clerk:
DCE;

Addition to USERS

cc: KEENEY at SRI-ARC

Marcia -- please add Buz Owen (SDAC-TIP) to USERS. I believe
his ident is ADO. Thanks. Dave.

1

2

DHC 11-FEB-74 20:31 21863

Addition to USERS

cc: KEENBY at SRI-ARC

(J21863) 11-FEB-74 20:31; Title: Author(s): David H. Crocker/DHC ;
Distribution: /MDK ; Sub-Collections: NIC; Clerk: DHC;

EPAC Problems and DRAFT Meeting File

Meeting File:

1

I have prepared a basic meeting file at Office-1. The first branch (energy,meetings,1) is a dummy which can be copied and edited to create the minutes of succeeding meetings. The second branch (energy,meetings,feb-7) renders the EPAC West meeting of that date in this format. I have left out part branch ? for later typein. The meeting file should cross-link to (energy,calendar,), but I have not put in the links because of the calendar problem noted below. I imagine journalizing branches out of the meeting file at some regular interval, say a month, and then using the keywords. Please comment.

1a

Problems::

2

PASSWORDS:

2a

The of energy at Office 1 has gone back to what it was before last Firday (). Maybe that happened in the transfer of files over the weekend. I suppose everyone is used to trying both by this time, but I suggest we change it to the present password of <energy> at ARC. Rita and Dean will read this while the West sleeps. Why don't you go ahead and change it unles you see problems.

2a1

<ENERGY>@ARC

2b

This directory is now empty, but it is not clear to me that all the files moved to Office 1.

2b1

The directory has pages. I suggest we keep it for working space, backup files, etc., but keep all functional files (calendar, meetings, etc.) at office-1.

2b2

<ENERGY>Calendar

2c

The version of this file at Office 1 has not been read since January 28. If no one has used it, we should. If anyone has written on it since, tell me and I will try to get your work back from a dump.

2c1

RUNFILE MAIL-WEST

2d

Somehow Eileen and I screwedup running this file again. I think we were doing something dumb. I think we should try again linked to Dean.

2d1

UPDATING (ENERGY,MAIL,)

2e

EPAC Problems and DRAFT Meeting File

Rita left (energy,mail.nls;) at office 1 locked. I logged in
as her and updated. We should be careful abut that.

2e1

DVN 11-FEB-74 22:28 21864

EPAC Problems and DRAFT Meeting File

(J21864) 11-FEB-74 22:28; Title: Author(s): Dirk H. Van Nouhuys/DVN;
Distribution: /NDM JCN JBN(fyi) RJ PGK ECW RAS OWW; Sub-Collections:
SRI-ARC; Clerk: DVN;

Visitlog, Richards from the Institute for Communication Research,
S.U.

Good person to collaborate with on analysis.

Visitlog, Richards from the Institute for Communication Research,
S.U.

Visitlog 7-FEB-74, Bill Richards, Institute for Communication
Research, Stanford U, PhD Grad. Student Major = Human Communication
(member ICA), BS Mich State 71. Chairman = Parker. (321 6594)

1

Is interested in studying communication patterns affected by
advanced technology. Currently is working on mathematical
networks which define interrelationships among real world nodes
mapped into computer programs that Bill wrote. He has seen a lot
of computer applications and was very impressed by the demo of
ours. Noted that many people aren't aware how far the technology
has advanced, and are totally unaware of the advanced state exists
as represented by NLS.

1a

Referred by Gerhard Hanneman -- see Visitlog, 7 Dec 73, Hanneman
and Knight from Annenberg (GJOURNAL, 21306, 1:w)

1b

Documentation he was given:

AFOSR-3223, SRI-ARC 3954, SRI-ARC 19250, SRI-ARC 18368, and The
Experiences with an AKW... (Bair)

1b1

Visitlog, Richards from the Institute for Communication Research,
S.U.

(J21365) 11-FEB-74 21:59; Title: Author(s): James H. Bair/JHB;
Distribution: /RWW DCE PR MDK JCN DVN; Sub-Collections: SRI-ARC; Clerk:
JHB;

Some Random Bullshit

Bullshit, eloquently expressed by intelligent people, is still bullshit.

Being a participant in an experimental management system is sort of like having the designer and a mechanic working on your car while you are driving down the freeway (expressway?).

The most important aspect of system design is the expectations of the user.

The phrase "thousands of terminals" is still madness.

Extrapolation like intuition is almost always wrong.

If someone finds the "real world" would they please notify me.

Some Random Bullshit

(J21866) 12-FEB-74 06:15; Title: Author(s): Donald C. (Smokey)
Wallace/DCW; Distribution: /SRI-ARC; Sub-Collections: SRI-ARC; Clerk:
DCW;

More statistics for User-Def paper

There is a paper outlining some of the usage of the NIC but which also indicates network user interest from which we may want to quote or extract the group document distribution or 'traffic' under the section Who Are the Users of the Arpanet. The paper is (GJOURNAL,21624,1:x). Let me know what you think.

1

More statistics for User-Def paper

(J21868) 12-FEB-74 08:55; Title: Author(s): Elizabeth J. (Jake)
Feinler/JAKE; Distribution: /UDEF; Sub-Collections: SRI-ARC UDEF; Clerk:
JAKE;

Addition to NSC

Joha Heafner at USC-ISI would like to added to the membership of the Network Speech Compression Group. As coordinator of the group, you have to OK this before I add him (or don't add him). His phone number is (213) 822-1511. Please let me know what you decide.
Marcia Keeney

1

MLK 12-FEB-74 11:32 21870

Addition to NSC

(J21870) 12-FEB-74 11:32; Title: Author(s): Marcia Lynn Keeney/MLK;
Distribution: /REK2; Sub-Collections: SRI-ARC; Clerk: MLK;

Documents/Literature Received W/E 8 Feb 74

The following documents arrived at SRI-ARC recently. They may be obtained from Mil Jernigan. Please note that these documents are NOT as yet coded in the Catalog data base and should be checked out from Mil with the understanding that they will not be passed on directly to others but will be returned promptly to Mil for proper processing. Thank you very much for your understanding in assisting us to properly record documents arriving for our collections.

1

Accessions, Week Ending 8 Feb 74

2

(T21071) Jacob Marschak. Economic Planning and the Cost of Thinking. In: Social Research, Vol. 33, Summer 1966, p.151-159. (Photoreprint)

2a

(T21070) Kenneth R. Smith (Center for Operations Research and Econometrics, Universite' Catholique de Louvain (Belgium)). The Effect of Uncertainty on Monopoly Price, Capital Stock and Utilization of Capital. In: Journal of Economic Theory, Vol. 1, 1969, p.48-59. (Photoreprint)

2b

(T21069) Jacob Marschak. Decision Making: Economic Aspects. In: International Encyclopedia of the Social Sciences, Vol. 4, 1968, p.42-55. 68 references. (Photoreprint)

2c

(T21067) Bolt Beranek and Newman Inc., Cambridge, Massachusetts. Interface Message Processors for the ARPA Computer Network - Quarterly Technical Report No. 4, 1 October 1973 to 31 December 1973. BBN Report No. 2717. January 1974, 36p. (NIC collection)

2d

(T21066) Philip Feldman (Bell Canada, Business Planning Group, H.Q. Planning Department, Montreal, Quebec, Canada). Group Judgmental Data in Cross Impact Analysis and Technology Assessment. Business Planning Paper No. 19. November 1973, 30p. (NIC collection)

2e

(T21065) Lawrence H. Day (Bell Canada, Business Planning Group, H.Q. Planning Department, Montreal, Quebec, Canada). Dimensions of Future Travel/Communications Substitutability. Business Planning Paper 18. October 1973, 29p. (NIC collection)

2f

Documents/Literature Received W/E 8 Feb 74

(T21064) Michael T. Bedford (Bell Canada, Business Planning Group, H.Q. Planning Department, Montreal, Quebec, Canada). Technology Assessment and the Future of Educational Technology. May 1973, 23p. (NIC collection)

2g

(T21063) Lawrence H. Day (Bell Canada, Business Planning Group, H.Q. Planning Department, Montreal, Quebec, Canada). The Future of Computer and Communications Services. Business Planning Paper 6. February 1973, 37p. (NIC collection)

2h

(T21062) Michael T. Bedford (Bell Canada, Business Planning Group, H.Q. Planning Department, Montreal, Quebec, Canada). A Technology Assessment of Future Home Communications Services - A Study Proposal. Business Planning Paper 12. May 1973, 17p. (NIC collection)

2i

(T21061) D. M. Atkinson (Bell Canada, Business Planning Group, H.Q. Planning Department, Montreal, Quebec, Canada). Three Papers on Telecommunications and Social Environment with an Impact on Business. Business Planning Paper 11. April 1973, 36p. Contains: "The Nature of Our Social Environment and Business Beyond 1973"; "Communications Environment of the 1980's"; and "The Impact of the Social Responsibility of Business on the Internal Auditor". (NIC collection)

2j

(T21059) Lawrence H. Day (Bell Canada, Business Planning Group, H.Q. Planning Department, Montreal, Quebec, Canada). Electronic Mail Services in the Information Age. Business Planning Paper 1. October 1972, 22p. (NIC collection)

2k

(T21058) Philip Feldman (Bell Canada, Business Planning Group, H.Q. Planning Department, Montreal, Quebec, Canada). Cross Impact Matrix Applications in Technology and Policy Assessment. Business Planning Paper No. 15. September 1973, 35p. (NIC collection)

2l

(T21057) IMC - Industrial Management Center, Inc., Austin, Texas. Technology Forecasting: A Workshop in Principles, Applications and Practice, 19th Short Course. January 6-10, 1974; Environmental Inputs to Technology Forecasting, 20th Short Course, January 13-17, 1974. Hilton Head Inn, Hilton Head, South Carolina. Undated, 16p.

2m

Documents/Literature Received W/E 8 Feb 74

(T21056) Donald E. Knuth (Stanford University, Computer Science Department, Stanford, California). Sorting and Searching - Errata and Addenda. STAN-CS-73-392. October 1973, 35p. (NIC collection)

2n

(T21055) J. M. Winett, A. J. Sames (Lincoln Laboratory, Massachusetts Institute of Technology, Lexington, Massachusetts). An Interface to the ARPA Network for the CO/CMS Time-Sharing System, Volume II, Flow Charts. Technical Note 1973-50. 28 November 1973, 174p. (NIC collection)

2o

(T21054) J. M. Winett, A. J. Sames (Lincoln Laboratory, Massachusetts Institute of Technology, Lexington, Massachusetts). An Interface to the ARPA Network for the CP/CMS Time-Sharing System, Volume I. Technical Note 1973-50.28 November 1973. 116p. (NIC collection)

2p

(T21053) Project MAC, Massachusetts Institute of Technology, Cambridge, Massachusetts. Project MAC, Progress Report 10, July 1972-July 1973, undated (received 31 Jan. 1974), 253p. (NIC collection)

2q

(T21052) Steven P. Geiger (Massachusetts Institute of Technology, Engineering Robotics Group, Project MAC, Cambridge, Massachusetts). A User's Guide to the MACRO Control Language. Technical Memorandum 36. December 1973, 38p. (NIC collection)

2r

(T21051) Robert M. Metcalfe (Massachusetts Institute of Technology, Project MAC, Cambridge, Massachusetts). Packet Communication. MAC TR-114. December 1973, separately paged. (Ph.D. thesis) (NIC collection)

2s

MEJ 12-FEB-74 14:21 21872

Documents/Literature Received W/E 8 Feb 74

(J21372) 12-FEB-74 14:21; Title: Author(s): Mil E. Jernigan/MEJ;
Distribution: /SRI-ARC; Keywords: Catalog Accessions; Sub-Collections:
NIC SRI-ARC; Clerk: MEJ;
Origin: <JERNIGAN>ACCESSIONS.NLS;3, 12-FEB-74 14:06 MEJ ;

Additions to the Network Graphics Group

John Heafner at USC-ISI would like to be added to the membership of the Network Graphics Group. As coordinator of the group, you have to OK this before I add him (or don't add him). His phone number is (213) 822-1511. Please let me know what you decide.

Marcia Keeney

1

MLK 12-FEB-74 11:48 21873

Additions to the Network Graphics Group

(J21873) 12-FEB-74 11:48; Title: Author(s): Marcia Lynn Keeney/MLK;
Distribution: /JCM; Sub-Collections: SRI-ARC; Clerk: MLK;

imnls

John,

1

I'd like first to apologize for the long delay in getting back to you. I received your filled in questionnaire some months ago, however, i've been hung up on a number of other things since then and have not had any time at all to devote to IMLAC related matters.

1a

I hope to be able to configure an IMNLS and an IMLOAD for you within the next 2 weeks. When I have them done, I will notify you and we can work together on getting your IMLAC running DNLS.

1b

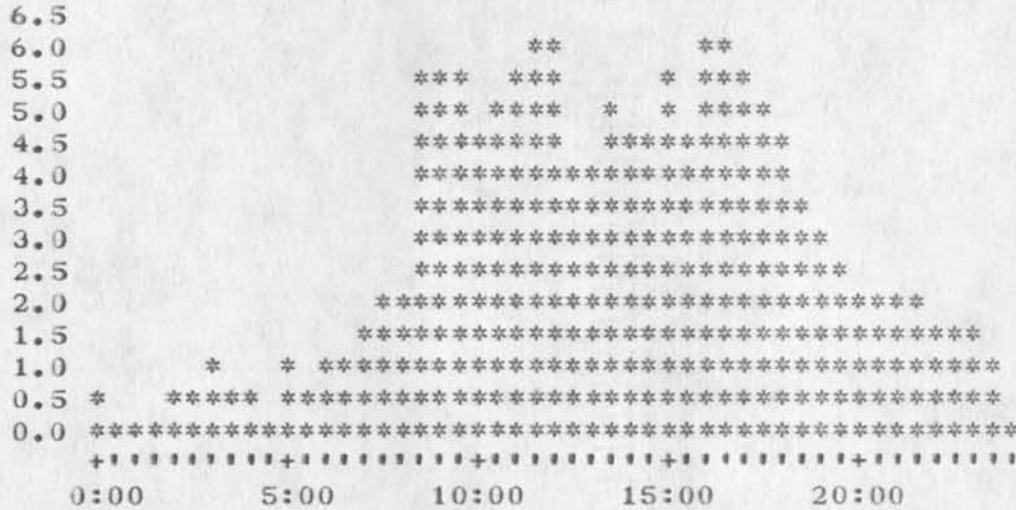
imnls

(J21874) 12-FEB-74 12:25; Title: Author(s): Kenneth E. (Ken)
Victor/KEV; Distribution: /JWB2; Sub-Collections: SRI-ARC; Clerk: KEV;

Superwatch Average Graphs for Week of 2/3/74

TIME PLOT OF AVERAGE NUMBER OF GO JOBS FOR WEEK OF 2/3/74
x axis labeled in units of hr:min, xunit = 30 minutes

1

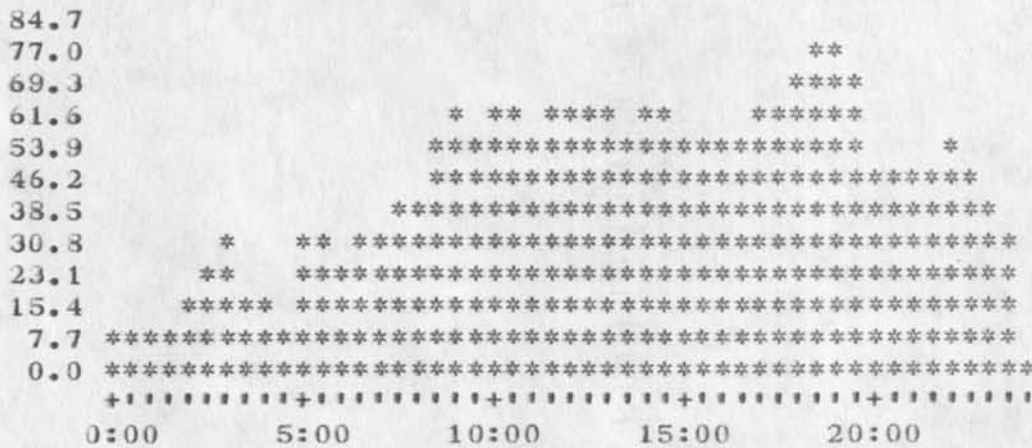


1a

TIME PLOT OF AVERAGE PER CENT OF CPU TIME CHARGED TO USER ACCOUNTS
FOR WEEK OF 2/3/74

x axis labeled in units of hr:min, xunit = 30 minutes

2

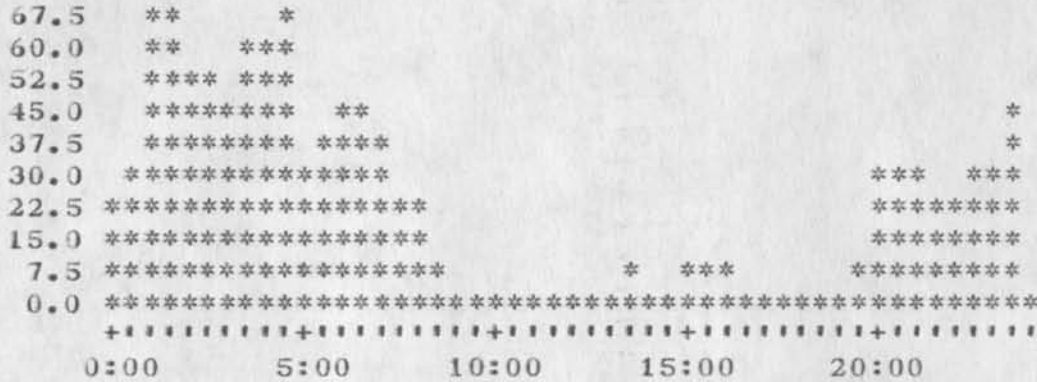


2a

Superwatch Average Graphs for Week of 2/3/74

TIME PLOT OF AVERAGE IDLE TIME FOR WEEK OF 2/3/74
 x axis labeled in units of hr:min, xunit = 30 minutes

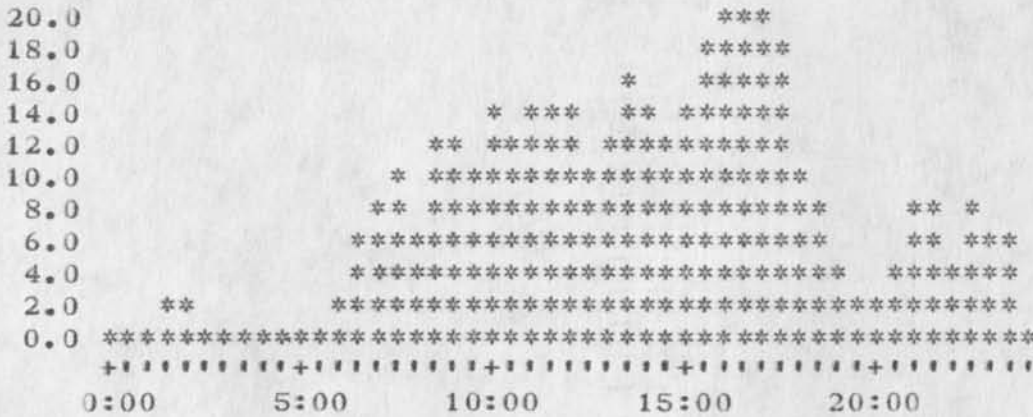
3



3a

TIME PLOT OF AVERAGE PER CENT OF SYSTEM USED IN DNLS FOR WEEK OF 2/3/74
 x axis labeled in units of hr:min, xunit = 30 minutes

4

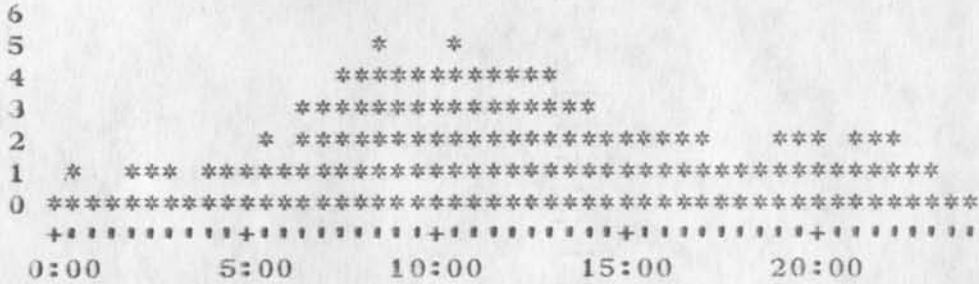


4a

Superwatch Average Graphs for Week of 2/3/74

TIME PLOT OF AVERAGE NUMBER OF NETWORK USERS FOR WEEK OF 2/3/74
x axis labeled in units of hr:min, xunit = 30 minutes

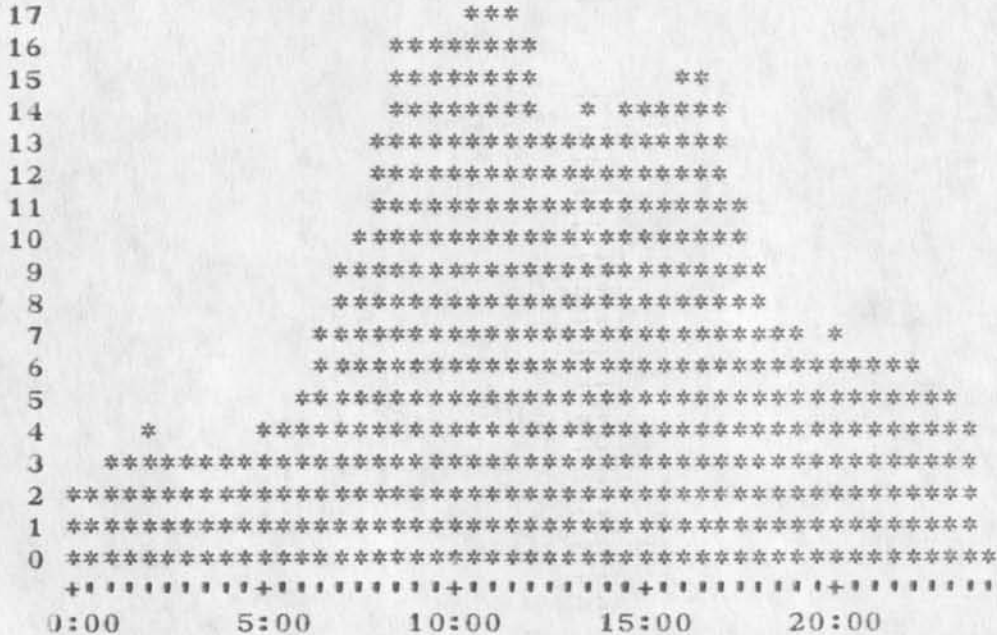
5



5a

TIME PLOT OF AVERAGE NUMBER OF USERS FOR WEEK OF 2/3/74
x axis labeled in units of hr:min, xunit = 30 minutes

6



6a

SRL 12-FEB-74 16:18 21875

Superwatch Average Graphs for Week of 2/3/74

(J21875) 12-FEB-74 16:18; Title: Author(s): Susan R. Lee/SRL;
Distribution: /JCN RWW DCE PR JCP DVN JAKE DLS BAH; Sub-Collections:
SRI-ARC; Clerk: SRL;
Origin: <LEE>WEEK2/3GRAPHS.NLS;2, 12-FEB-74 13:37 SRL ;

Private Journal Document Courtesy of RNLS

This is a private document, submitted as a message via RNLS.

1

Private Journal Document Courtesy of RNLS

(J21876) 12-FEB-74 17:21; Title: Author(s): James E. (Jim)
White/JEW; Distribution: /JEW; Sub-Collections: SRI-ARC; AccessList:
JEW; Clerk: JEW;

Problems with Mail to Office 1

Last night I sent an item, (hjournal,21864,) to serveral people at arc and others at office one (including pgk ecw ras oww and rj). As of this afternoon it still had not been delivered at office 1. Some people (ecw) have been asked for their ident when they enter nls even though they now have their own direcotry.

1

DVN 12-FEB-74 17:27 21877

Problems with Mail to Office 1

(J21877) 12-FEB-74 17:27; Title: Author(s): Dirk H. Van
Nouhays/DVN; Distribution: /JDH WRF JCN NDM; Sub-Collections: SRI-ARC;
Clerk: DVN;

One function desired when Sandy Johnson arrives.

In response for your requests for potential functions that might be established when Sandy Johnson arrives, please consider the need for someone to help with the feedback process. Sandy may free Jeanne Leavitt or someone else to devote some time, or she could be assigned to do it herself. Whatever's right. Please read (analysis, nls, development) for a description of the kind of support involved.

1

KIRK 12-FEB-74 18:12 21878

One function desired when Sandy Johnson arrives.

(J21878) 12-FEB-74 18:12; Title: Author(s): Kirk E. Kelley/KIRK;
Distribution: /DVN; Sub-Collections: SRI-ARC; Clerk: KIRK;

SRI Proposal ISU 74-52 - Knowledge Workshop Support for the ARPA Seismic Data Management System

I INTRODUCTION:

The Augmentation Research Center (ARC) of Stanford Research Institute (SRI) proposes to provide initial computer support and technical assistance in the establishment of an NLS-supported Development Center to be coordinated by the Seismic Discrimination Group (SDG) at MIT in Cambridge, Massachusetts, as part of the ARPA Nuclear Monitoring Research Office (NRMO) Seismic Data Management System (SDMS).

This proposal results from several discussions of the activities described below, commencing with an initial planning meeting held between ARC, NMRO, and SDG staff at ARPA on January 3, 1974. For further discussion of that meeting, see (21372,1)

II OBJECTIVES:

The SDMS Development Center is being created by NMRO to facilitate:

- development and control of SDMS documentation
- working dialogue between SDMS-developing organizations
- management of and access to system-development data

The main objectives of ARC support of this activity are:

- to provide useful technical and computer support to the SDG staff as they establish the Center
- to initiate work toward developing methods and procedures that will permit an augmented, evolutionary growth of coordinated SDMS information services
- to apply ARPA-sponsored "augmentation technology" to real-world tasks in the SDM system

III BACKGROUND AND TECHNICAL NEED:

The Augmentation Research Center has developed, over a period of years under Government sponsorship, a general-purpose interactive augmentation system centering about what we now call an "Augmented Knowledge Workshop." The goal of ARC's work has been to evolve a prototype workshop system that will improve significantly the performance of individuals and teams engaged in knowledge-work activities, where the Workshop "system" involves daily use of coordinated tools, procedures, methodologies, and languages.

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For further background discussion, see (12445,1) and (14724,1).

A well set up Development Center, as contemplated by the ARPA-NMRO staff could provide significant value to the SDMS development project. It is close to an ideal form of initial application for our ARPA-sponsored Augmented Knowledge Workshop technology and has the potential of affording real service to the SDMS system developers, while offering them excellent experience with the Knowledge Workshop possibilities that they could consider including in the subsequent, operational SDM System.

IV PROPOSED EFFORT:

A. SUPPORT TO SDMS Community Development Center

ARC proposes to provide initial personnel support to NMRO and SDG in the planning and setting-up of the SDMS Development Center and assistance in terminal and other equipment acquisition and installation at the Center. We intend to propose additional assistance following this first phase of support.

We are considering launching our first two months support for the Center in a manner similar to the approach used with the ARPA-sponsored SRI DEIS Project Centers -- having an ARC "start-up crew" work with the Center staff assisting them until they can use the system workshop facilities with a minimum of direct assistance. For further discussion of this activity, see (21447,1)

We anticipate that NMRO will select a "Development Center Workshop Architect" from among the SDMS-developing organizations to coordinate the introduction of workshop technology to the Center. The role of "Architect," in the sense used here, is described in (14946,3c2b2). Primary ARC support would be provided through assistance to the Architect and through initial training of key personnel in workshop system operation.

Initial NLS Workshop Support Areas:

COLLABORATIVE DIALOGUE:

The Workshop offers computer aids for the composition of messages and documents and for their subsequent reviewing, cross-referencing, modification, transmission, storage, indexing, and full-text retrieving. A "message" may be one word in length, or two hundred or more printed pages. In any message there may be formalized citations pointing to

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specific passages in prior messages, so that a group of related messages becomes a network of recorded-dialogue contributions.

NLS offers automatic delivery of messages; full cataloging and indexing; online accessibility both to message notification and to the full text of all messages; and open-ended storage of the dialogue records. These services enable a community of people who are distributed in space and time to maintain recorded, collaborative dialogue at a new degree of effectiveness.

To support "real-time" remote dialogue (teleconferencing), we can provide the following features:

Two or more NLS users can "link up" at any time, so that each party sees a common displayed or printed view; either party is able to control terminal operations, and both mutually have access to the full range of workshop functions over any of the online information.

DOCUMENT DEVELOPMENT, PRODUCTION, AND CONTROL:

The workshop offers a rich set of computer aids for the composition, study, and modification of document drafts, and for automatically generating high-quality photocomposition output with flexible controls for font-designation and formatting, to enable the production of publication-grade hardcopy (printing masters, or microform masters).

There are processes for collaboration among several writers, and with an editor, in the process of evolving a final draft. Included among such helpers can be experienced production people to help in laying out a finished document, in inserting proper designations for specifying font, size, and density of different character strings, and for managing footnotes, cross-references, tables of contents, indices, etc.

There are also aids for the people who must keep control of changes, new-version distributions, etc., and provide the indexing to complex documents or sets of documents. Planned improvements include facility for handling complex graphic portrayals and extensive special symbols.

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MEETINGS AND CONFERENCES:

Teams of collaborating people can use our regular workshop techniques in meetings to present and explain material from their online data base, reviewing and changing the agenda and the meeting notes; some meetings operate very profitably in a mode of "collaborative position-statement development," with a facility that for many purposes can be superior to using a chalkboard.

Two possible specific applications of NLS to this program have been suggested by NMRO staff:

The first application would support the system planning process that is currently just beginning.

For this task on-line files could be established addressing the various elements of the program. Examples of possible elements of these files are:

- Seismic array/station characteristics
- Data format standards
- SDAC organization and data processing system
- Seismic data storage file organization and data language procedures
- Signal processing research
- ASC, SRO, and HGLP data processing procedures

Communications groups involved in appropriate elements of the program would be responsible for preparing the data required to complete each section. To enter the information into NLS, it is proposed that one slot on the NLS utility be used.

An initial Development center would be established at the SDG, in Cambridge, Massachusetts, where Dr. Richard Lacoss is responsible for the overall seismic data network planning.

The second application would begin when the SDM system begins operation. This phase would maintain the on-line files outlined above, as well as add periodic summaries of operational information of interest to the program. ARC support in this area would be the subject of a separate proposal.

B. ACCESS TO COMPUTER FACILITIES: OFFICE-1

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We are assuming the SDMS support effort would use one Utility slot, allocated from IPTO's subscription.

The OFFICE-1 Workshop Utility Service is described in the SRI-ARC proposal to provide Workshop Utility service to ARPA (14946,1), and in a recent announcement of the service (21645,1).

The availability of OFFICE-1 computer resources should be coordinated by NMRO with IPTO through Col. John S. Perry.

Computer access will be provided for one simultaneous guaranteed-access user job, 16 hours a day, Monday through Saturday, to be supplied from the OFFICE-1 PDP-10 TENEX system (Host 43 octal) operated by TYMSHARE, INC. The primary user program is NLS, the SRI-ARC "on-line system".

C. EQUIPMENT TO BE PROVIDED

We will provide appropriate terminal equipment for effective use and demonstration of NLS technology.

This will include a Delta Data display, with line processor, mouse, keyset and two T-I typewriter terminals with Termicette Magnetic tape recording features (permitting off-line text preparation for more effective use of the Utility job slot).

V DISCUSSION OF FUTURE POTENTIAL SUPPORT AREAS:

NLS Workshop features that should be considered as potential future additional support areas for the SDMS community are:

COMMUNITY MANAGEMENT AND ORGANIZATION:

Where the SDMS community organizations have conventional project-management operations, their Workshop can include computer aids for the enriching services of dialogue support, document development, and a "Handbook" system. An extension of the Handbook mentioned below could contain plans, commitments, schedules, specifications, and current-state records of work in progress, with special Workshop tools to support management analysis and control.

With the probable increase in the amount and intensity of distributed collaboration within the community, "committee work" would become more widespread, dynamic, and important. Thus there would be greater dependence upon better techniques for inter-communication and management within the

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committee-like structures by which a Community goes about its composite business. Harnessing these new techniques will lead to very different ways in which distributed communities can be organized and in which they can go about their business. The possibility of considerable improvement here, stemming from relatively modest innovative investments, is an important part of our motivation toward facilitating the development of the SDMS.

RESEARCH INTELLIGENCE:

The provisions within the Dialogue Support System for cataloging and indexing internally generated items also support the management of externally generated items -- bibliography, contact reports, clippings, notes, etc.

With these centrally supplied (and therefore uniformly available) services, a community can maintain a dynamic and highly useful "intelligence" data base to help it keep up to date on external happenings that particularly affect it.

Citations of external items from within the internally-generated dialogue base -- in the form of annotations, miscellaneous commentary, or supportive references -- offer computer-sensible interlinking of the external information with the internal, and considerably facilitate browsing, retrieval, back-citation searching, etc.

COMMUNITY HANDBOOK DEVELOPMENT:

ARC intends to work toward extending the above services by developing new techniques for the coordinated handling of a very large and complex body of documentation and its associated external references. We use the term "superdocument" to refer to such material when integrated into a monolithic whole. There are a number of important applications for a system that facilitates the responsive development and evolution of a superdocument by many (distributed) individuals.

In particular, for either a discipline- or project-oriented community, one very important application of a centrally available "superdocumentation" service would be to maintain "The Community Handbook" -- i.e., a uniform, complete, consistent, up-to-date integration of the special knowledge representing the current status of the community.

Such a Handbook would include: principles, working hypotheses,

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practices, special-term glossaries, standards, goals, goal status, supportive arguments, techniques, observations, how-to-do-it items, etc. An active community would be constantly involved in dialogue bearing upon the contents of the last formal version of its Handbook -- comments, errata, suggestions, challenges, counter examples, altered designs, improved arguments, new experimental techniques and data, etc. Constant updating would provide a "certified, community position structure" about which the real evolutionary work would swarm; flexible aids for online "navigation and view generation" would be very important, as would the facility for automatic publication.

VII REFERENCES:

- 1 ARC 12445, D. C. Engelbart, "Coordinated Information Services for Discipline- and Mission-Oriented Communities," Stanford Research Institute, Augmentation Research Center, 12 December 1972.
- 2 ARC 14724, D. C. Engelbart, R. W. Watson, J. C. Norton, "The Augmented Knowledge Workshop," AFIPS Proceedings National Computer Conference, June 1973.
- 3 ARC 14946, R. W. Watson and J. C. Norton, "Proposal for Research No. ISU-73-5 -- WORKSHOP UTILITY SERVICE FOR ARPA AND IPT," Stanford Research Institute, Augmentation Research Center, 29 March 1973.
- 4 ARC 21372, D. C. Engelbart, "NMRO IPTO ARC Meeting, 3 Jan 74: Seismic Data Management System," Stanford Research Institute, Augmentation Research Center, 12 January 1974.
- 5 ARC 21447, R. W. Watson and J. C. Norton, "AUGMENTED KNOWLEDGE WORKSHOP SUPPORT FOR THE ARPA/SRI DEIS," Stanford Research Institute, Augmentation Research Center, 31 January 1974.
- 6 ARC 21645, J. C. Norton, "A New ARPANET Subscription Service: The Workshop Utility at OFFICE-1," Stanford Research Institute, Augmentation Research Center, 28 January 1974.

SRI Proposal ISU 74-52 - Knowledge Workshop Support for the ARPA Seismic
Data Management System

I ESTIMATED TIME AND CHARGES

It is proposed that the initial effort in the areas outlined above be performed during a period of 2 months, between 1 May and 30 June 1974. We anticipate submitting a separate proposal for extended effort to be provided after June 30.

Pursuant to the provisions of ASPR 16-206.2, a Cost Estimate and Support Schedules are attached in lieu of the DD Form 633-4.

II CONTRACT FORM

Because of the nature of the work proposed, we request that any contract resulting from this proposal be awarded on a cost-plus-fixed-fee basis.

III ACCEPTANCE PERIOD

This proposal will remain in effect until 1 May 1974. If consideration of the proposal requires a longer period, the Institute will be glad to consider a request for an extension of time.

SRI Proposal ISU 74-52 - Knowledge Workshop Support for the ARPA Seismic
Data Management System

COST ESTIMATE

Personnel Costs

| | | | |
|------------------------|----------|-------|----------|
| Prof | 223 hrs. | | |
| Clerical | 25 hrs. | | |
| Total Direct Labor | | 1,799 | |
| Payroll Burden @ 28% * | | 504 | |
| Total Labor and Burden | | 2,303 | |
| Overhead @ 107% * | | 2,464 | |
| Total Personnel Costs | | | \$ 4,767 |

Direct Costs

| | | | |
|-------------------------------------|-----|----------|-----------|
| Travel | | \$ 1,624 | |
| 1 trip Wash DC @ 335 = | 335 | | |
| 4 Days Subsistence @ 31= | 124 | | |
| 2 trips Boston @ 367 = | 734 | | |
| 10 Days Subsistence @ 28= | 280 | | |
| Auto Rental 10 days @ 15 | 150 | | |
| Communications | | 200 | |
| Equipment | | 4,040 | |
| Total Direct Cost | | | \$ 5,834 |
| Total Estimated Cost | | | 10,630 |
| Fixed Fee | | | 744 |
| TOTAL ESTIMATED COST PLUS FIXED FEE | | | \$ 11,374 |

* see following Schedules

SRI Proposal ISU 74-52 - Knowledge Workshop Support for the ARPA Seismic
Data Management System

Cost Schedules:

SRI Proposal ISU 74-52 - Knowledge Workshop Support for the ARPA Seismic Data Management System

SCHEDULE A
DIRECT LABOR

Direct labor charges are based on the actual salaries for the staff members contemplated for the project work plus a judgmental factor applied to base salary for merit increases during the contract period of performance. Frequency of salary reviews and level of merit increases are in accordance with the Institute's Salary and Wage Payment Policy as published in Topic No. 505 of the SRI Administration Manual and as approved by the Defense Contract Administration Services Region.

SCHEDULE B
OVERHEAD AND PAYROLL BURDEN

These rates have been found acceptable by the Department of Defense for billing and bidding purposes for the calendar year of 1974. We request that these rates not be specifically included in the contract, but rather that the contract provide for reimbursement at billing rates acceptable to the Contracting Officer, subject to retroactive adjustment to fixed rates negotiated on the basis of historical cost data. Included in payroll burden are such costs as vacation, holiday and sick leave pay, social security taxes, and contributions to employee benefit plans.

SCHEDULE C
TRAVEL COSTS

Air fare is based on prices for travel to Washington D.C. at \$335 and to Boston at \$367 round trip tourist established in the Official Airline Guide dated January 1, 1974.

Domestic subsistence rates and travel by private auto are established standards based on cost data submitted to and approved by DCAA.

SRI Proposal ISU 74-52 - Knowledge Workshop Support for the ARPA Seismic
Data Management System

SCHEDULE D

EQUIPMENT COSTS

DISPLAY TERMINAL AND MONITOR

| | | |
|----------------------------------|-----------------|----------|
| 1 Delta Data terminals @ 220/mo | = 2 mo @ 220/mo | = \$ 440 |
| 1 Line Processor + Mouse, Keypad | @ 2500 | = 2,500 |

TYPEWRITER TERMINALS

| | | |
|--------------------------|-----------------|-----|
| 2 T-I's Portable @ 150 = | 2 mo @ 300/mo = | 600 |
|--------------------------|-----------------|-----|

MAG TAPE RECORDER TERMINALS

| | | |
|---|-----------------|-------|
| 2 Termicettes (IPC) @ 100 = | 2 mo @ 200/mo = | 400 |
| One time installation charges and maintenance | | = 100 |

| | | |
|-----------------|--|------------|
| TOTAL EQUIPMENT | | = \$ 4,040 |
|-----------------|--|------------|

SRI Proposal ISU 74-52 - Knowledge Workshop Support for the ARPA Seismic
Data Management System

JCN 8-MAR-74 19:02 21883
SRI Proposal ISU 74-52 - Knowledge Workshop Support for the ARPA Seismic
Data Management System

9 MAR 74
SRI-ARC 21883

Proposal For Research
SRI No. ISU 74-52

KNOWLEDGE WORKSHOP SUPPORT
FOR THE ARPA SEISMIC DATA MANAGEMENT SYSTEM

Part One---Technical Proposal

Prepared for:

Defense Advanced Research Projects Agency
1400 Wilson Boulevard
Arlington, Virginia 22209

Attn: Col. David C. Russell

Prepared by:

James C. Norton, Assistant Director
Augmentation Research Center

Approved:

Douglas C. Engelbart, Director
Augmentation Research Center

Bonnar Cox, Executive Director
Information Science and Engineering Division
Stanford Research Institute

SRI Proposal ISU 74-52 - Knowledge Workshop Support for the ARPA Seismic
Data Management System

9 MAR 74
SRI-ARC 21883

Proposal For Research
SRI No. ISU 74-52

KNOWLEDGE WORKSHOP SUPPORT FOR THE
ARPA SEISMIC DATA MANAGEMENT SYSTEM

Part Two: Contractual Provisions

Prepared for:

Defense Advanced Research Projects Agency
1400 Wilson Boulevard
Arlington, Virginia 22209

Attn: Col. David C. Russell

SRI Proposal ISU 74-52 - Knowledge Workshop Support for the ARPA Seismic
Data Management System

(J21883) 8-MAR-74 19:02; Title: Author(s): James C. Norton/JCN ;
Distribution: /dce rww pr dcr2 jsp ckm ; Sub-Collections: SRI-ARC;
Clerk: JCN ;
Origin: <NORTON>SEISMIC.NLS;5, 1-MAR-74 19:08 JCN ;

Bugs at Office-1

Nancy ... Thanks for pointing out two problems for us.

1

Substitute Command.

2

We tried to bring up exactly the same system that Net users had been using at ARC.. But we inadvertently forgot that there were two versions of the substitute command in the system, one for Network users, one for ARC users. The distinction was made on the basis of line no. at ARC, which isn't a valid distinction at OFFICEL. So you got the new substitute command. It's better than the old one. Having goofed we've decided to just leave it the new way with a log-in message to explain the use of the new command.

2a

I too had hoped we had learned not to change things without ample warning; but this was simply an oversight in the general crunch to get transitioned to officel.

2b

On-Line Files

3

The two journal systems are supposed to work as follows, with respect to files created at either OFFICEL or SRI-ARC:

3a

Any journal item submitted through one journal system is supposed to be sent automatically to the other system for simultaneous on-line storage at both systems. There currently is a bug in this automatic procedure, as you discovered when looking for <GJOURNAL>21624. We're working on that. Nevertheless, there inevitably will be a time delay, hopefully small, even when the automatic file transfer works wholly correctly.

3b

Another bug recognized by Jim White upon receipt of your message, is that Journal items that originate at office-1 nevertheless have Hostname SRI-ARC in the pathname. Jim will correct that so that the pathname states the Host-of-Origin. This will make retrieval independent of the time-lag associated with transferring a copy to the non-originating Journal system.

3c

Incidentally, archived files can be recovered at either office-1 or sri-arc via the interrogate command, regardless of where the archived file physically resides.

3d

Hope that helps, Nancy. Please bear with us, and let us know what else you find. These transitions no matter how well planned inevitably contain bugs. ... Mike

4

Bugs at Office-1

(J21884) 13-FEB-74 15:32; Title: Author(s): Michael D. Kudlick/MDK;
Distribution: /NJN JEW JAKE; Sub-Collections: SRI-ARC; Clerk: MDK;
Origin: <KUDLICK>NEIGUS.NLS;2, 13-FEB-74 15:30 MDK ;

orgzn types

two questions about the "Organization Type" field in the Identfile

orgzn types

Harvey ... I got your journal note a few weeks ago that you were changing the identfile to include a "TYPE" field within "organizations" , contents to be SERVER USER, TIP, ASSOCIATE, INDEPENDENT. A belated but sincere thanks! Two questions:

1

1) Is there a corresponding command in the identsystem to allow input and change and deletion of the TYPE data

1a

2) Does the identsystem automatically update the respective "groups" TIPG, SERVERG, USERG, ASSOCG so that these groups are up-to-date ?

1b

orgzn types

(J21885) 13-FEB-74 15:45; Title: Author(s): Michael D. Kudlick/MDK;
Distribution: /HGL; Sub-Collections: SRI-ARC; Clerk: MDK;

Visit Log: 13 Feb 74, Henry Moll, Lawrence Livermore Labs

Henry Moll, Lawrence Livermore Labs, visited CHI for a brief time, and DCE for an hour. He has written an editor for LLL's CDC 6600/7600 systems. Been in use for several years; now weighing its experience, looking around for other ideas, and considering upgrading that editor.

1

Gave him some DNLS demo, and described the AKW notions, the Utility servie, our Bootstrap Community hopes, etc. H'd be the kind that could be a good architect. Unfortunately, LLL's security provisions preclude running lines in from outside sytems, otherwise they would probably be a promising Utility prospect. When our system is mobile (can be put into one of their operating systems), or when they have enough spare TENEX power, or change their policy about outside lines, we should get in touch.

2

Gave him literature:

3

D. C. Engelbart, COORDINATED INFORMATION SERVICES for a DISCIPLINE- OR MISSION-ORIENTED COMMUNITY, paper presented at the Second Annual Computer Communications Conference, San Jose, California, 24 January 1973. (Journal, dated 12 Dec 72 -- 12445.)

3a

Augmentation Research Center, "Output Processor Users' Guide," 23 Aug 73, (Journal -- 12209,)

3b

D. C. Engelbart, R. W. Watson, J. C. Norton, THE AUGMENTED KNOWLEDGE WORKSHOP, paper presented at the National Computer Conference, New York City, June 1973. (Journal -- 14724.)

3c

Visit Log: 13 Feb 74, Henry Moll, Lawrence Livermore Labs

(J21886) 13-FEB-74 16:10; Title: Author(s): Douglas C. Engelbart/DCE
; Sub-Collections: SRI-ARC; Clerk: DCE ;

Draft of Announcement of the Utility Feedback Mechanism

This is designed to further reinforce the use of th Feedback dir at Office-1. Its rough and I really want you all to review and comment before I send it out. Thanks, Jim

Draft of Announcement of the Utility Feedback Mechanism

THE UTILITY FEEDBACK MECHANISM: DRAFT proposed!!

1

User Development has as part of its function insuring that the Utility Subscribing community has a mechanism whereby it can voice complaints, comments, problems, suggestions, etc. To that end we are coordinating efforts with Analysis for special idents, files, responsibilities, and responses to users.

2

The Directory FEEDBACK and the ident FEED are set up at the Utility to provide a common repository for the user feedback that is not handled by Tymshare operations. (see "Announcement of the Move to the Utility", -- GJOURNAL, 21585, 1h:w) and "Office-1 Phone Number for Operations Problems" -- HJOURNAL, 21847, 1:w)

2a

All subscribing users (hereafter referred to as just users) will be asked to send their comments to the ident FEED, or for more urgent items to sendmsg FEEDBACK, unless it is a problem that can be solved by the computer operator at Tymshare.

2a1

User Development

2a2

User Development will read the Journal Branch in the ident file (FEED) and a daily basis (if possible) and move those items that require explanation (user edification) or problem solution by the Utility Staff to a branch named "UTILITY".

2a2a

The messages will also be moved from Tenex to a branch named MESSAGES. Those that fall into the category described above will be moved to "UTILITY". This reordering is important because it will be used to indicate that action has been taken.

2a2a1

User development will be responsible to see that each communication received is answered.

2a2a2

Analysis

2a3

Analysis will be responsible for responding to all the those communications not intended for Utility Operations. As the items are responded to, they should be moved to a branch called ANALYSIS thus indicating that they have been acknowledged. This includes comments, suggestions, long range complaints, praise, uses of the system, and the like. An announcement asking for this kind of feedback has been sent out (see "Proposed Methodology for Data Collection of Feedback from Workshop Utility Users" (HJOURNAL, 21844, 1:w)

2a3a

Proposed

2a3b

Draft of Announcement of the Utility Feedback Mechanism

Analysis could peruse the entire file to determine the relevance of any of the items to their study. Those that provide some information (most will) will become part of the data base that is to be structured, synthesized, and reported upon, primarily for the purpose of providing guidance to Development.

2a3b1

The Architects (If your cite does not have an architect, disregard this section)

2a4

The Architects will receive a great deal of feedback that will not be sent through this feedback mechanism. In these cases, it should be the Architect's responsibility to provide a response, either answering the question or solving the problem and to send both the initial communication and the disposition response to FEED. In the case of oral inquiries, the Architects should record the item and send it to FEED, along with the disposition. It would then become part of the data base for Analysis.

2a4a

The Architect may have the option of responding for U.D. or may make a note that U.D. should respond directly to the user. Those items that are sent to the Architect directly become his responsibility. Those that are sent to both the Architect and FEED will require special coordination.

2a4b

KWAC: Knowledge Worker Architect Community.

2a5

The ident KWAC will permit any item describing an experience or problem to be shared by an Architect with all the Architects and the coordinators on the ARC staff. At present, it is not quite clear what exactly should be shared with all the members of the community, but the only way to find out is to share it.

2a5a

For non-Architects, items to be shared must be sent to your local Architect first, where it should be handled if it can.

2a5b

All users are invited to read the feedback file to ascertain the current status of their feedback item and to get some indication of the experiences of other users, see (feedback,feed,1:m) at Office-1.

3

Draft of Announcement of the Utility Feedback Mechanism

(J21887) 13-FEB-74 16:58; Title: Author(s): James H. Bair/JHB;
Distribution: /JCN SRL PR WRF MDK RWW(); Sub-Collections: SRI-ARC;
Clerk: JHB;
Origin: <BAIR>FEED.NLS;3, 13-FEB-74 16:49 JHB ;

Visit Log: 13 Feb 74, Nat Rochester, IBM

Nat is experimenting with extensions of one-hand, chorded keyset input. Brought with him a Stenograph machine, which is a standard Stenotype, machine-shorthand, hard-copy printing device used by court reporters for very-high speed transcription. 1

A number of people over the past decade have turned such devices into online input terminals; with some modification of the Stenotype encoding they can do computer translation. This provides very fast input keyboarding. A local outfit has a system, with proprietary translation software, and runs a transcription support service. 1a

On his machine, NAT has isolated 14 keys that can be operated with the right hand, and has a grouping arrangement that gives him some 8 cases times 975 chords, or a total of 7800 distinct chord combinations (effectively, 13 bits, from the 14 keys). 2

He has a tentative encoding scheme, and is fixing a special lab setup to study the use. (Online computer, display). Has a nice design and plan paper that he left with me -- see XDOC (nnn,) 2a

He plans to experiment with different coding; training some subjects, measuring learning rates and performance. Expects to do some of that experimenting with our keyset and code, also. Will experiment with shape, travel, tension, etc. of keys, too. 2b

Miscellaneous Note: He says that IBM has developed a line of totally silent keys; the keyboard designs are installin a small speaker that emits an artificia click just to keep the operators happy. The only product so far on the market with these keys is the 3604 bank teller's terminal, which isn't standard typewriter configuration. 3

I asked if he could provide us with some -- I would really like to have either or both a silent keyset and a silent keyboard. I'd like to be able to enter notes while other people are talking (in my office or in a meeting. He will see what he can do, 3a

He is making some small displays using LED's. Says that Monsanto, on some military contract, has produced some very small chips, including an array of LEDs small enough to display cap characters at typewriter-character size (lower case planned). He hopes to make a very small (limied capacity) character display that could fit on his spectacles, to give him some minimal feedback and display capacity when working in an enironment without a full-size display. He feels that the technology will be able to make smaller and higher-resoluton LED displays than this. 3b

I and/or other ARC guys should stop by to visit him in Cambridge

Visit Log: 13 Feb 74, Nat Rochester, IBM

some time. By May, he should have something running in his "keyboard lab".

4

Visit Log: 13 Feb 74, Nat Rochester, IBM

(J21888) 13-FEB-74 17:04; Title: Author(s): Douglas C. Engelbart/DCE
; Distribution: /rww jcn chi meh ; Sub-Collections: SRI-ARC; Clerk:
DCE ;

Application possibility in Navy logistics, and Utility cost analysis need

Notes from visit with Robert Lierberman, Sat 5 Jan 74:

1

Logistics program at NSRDC seems a good prospect, if developed. A natural application area (for what is desired of their project); they have an established project, already funded.

2

Note regarding attitudes on cost that prevail at NSRDC: Bob said that there are a number of people who are supporters of NLS, but who think that the \$40 K/yr cost of a slot is too high, and feel that their management is right in not buying it for them, even though they may be petitioning for it.

3

Needed -- an analysis of the exploratory venture, from point of view of a large organization, that puts this cost into perspective (either for us, or for them, to change....)

3a

Application possibility in Navy logistics, and Utility cost analysis
need

(J21889) 13-FEB-74 17:13; Title: Author(s): Douglas C. Engelbart/DCE
; Distribution: /jcn rww ; Sub-Collections: SRI-ARC; Clerk: DCE ;

Planned Agenda and Reference Files for ARC/IPT Review Meeting
2/11-12/74

The following information is collected here for filing for future reference. It is from several files used in the ARC/IPT meetings that were held at SRI February 11-12, 1974. These are NOT notes from the meeting.

SUGGESTED AGENDA FOR IPTO REVIEW OF ARC PROGRAM, 11-12 Feb 74

Participants: For ARPA -- Licklider, Fields, and Perry of IPTO, and Clements of BBN; For ARC -- Engelbart, Watson, Norton, Kudlick, Irby, Rech.

Host, and general chairman of meeting: Engelbart. The agenda to be open for change as required to meet ARPA needs for information.

Note: The agenda was changed to the following schedule, although at some points actual time periods were moved a bit. jcn

Mon. Feb 11

9:00 to 9:30 Introduction

ARPA's Objectives for the Meeting

ARC's Objectives for Meeting

Distinction between ARC and NIC

Applications, Analysis, Development, Operations

Review of Agenda and adjustment if desired

9:30 to 12:00 Watson/Norton: Review of Major NLS Features

An overview of NLS will be presented and detailed discussion can be driven by MST documents of Perry/Fields (mmmm,), and ARC menu of topics (mmmm,).

12:00 to 12:30 Watson/Irby: Control Meta Language, Frontend Plans

Emphasis here on ease with which we can put different frontends on basic NLS functions and ease of movement to PDP 11.

Remote Machine Access for ARC: Problems and time frame in which ARC might obtain its Tenex computer support from a Network Service site.

12:30 to 1:30 Lunch (I-Bldg buffet)

1:30 to 2:00 Irby: NLS/Tenex interaction

1

2

2a

3

3a

3a1

3a2

3a3

3a4

3a5

3b

3b1

3c

3c1

3c2

3d

3e

Planned Agenda and Reference Files for ARC/IPT Review Meeting
2/11-12/74

| | |
|--|------|
| Topics to be discussed here to be indicated by ARPA | 3e1 |
| possibilities might be: | 3e1a |
| Software connection between NLS and Tenex | 3e1b |
| NLS on other Tenex systems, technical, documentation, training issues, experience with NLS on PARC and BBN. | 3e1c |
| Multi-site Journal Plans as example of issues for MST | 3e1d |
| After general discussion CHI, DCW and BBN representative can step out for more detailed discussions if desired. | 3e2 |
| 2:00 to 2:40 Engelbart: Review of ARC long-term planning framework -- application communities, core knowledge workshop evolution, bootstrapping approach, workshop architects, etc. etc. | 3f |
| 2:40 to 3:40 Norton: Applications Department | 3g |
| Status of Utility, Present plans for Support of Bell, RADG, Seismic, DEIS etc. | 3g1 |
| Experience with Outside Usage | 3g2 |
| Experience at RADG | 3g2a |
| Experience with other Network Users | 3g2b |
| 3:40 to 3:50 Break | 3n |
| 3:50 to 4:50 Rech: Analysis Department | 3i |
| Review of Analysis Studies to date | 3i1 |
| Perspective on Analysis in ARC | 3i1a |
| System Evaluation and Control | 3i1b |
| Analysis of Applications | 3i1c |
| User Needs | 3i1d |
| Economic Analysis: Usage and Costs | 3i1e |
| Plans | 3i2 |
| Analysis of User Needs | 3i2a |

Planned Agenda and Reference Files for ARC/IPT Review Meeting
2/11-12/74

| | |
|---|------|
| Analysis of Application System | 3i2b |
| Analysis of Behavioral Aspects of User Interface | 3i2c |
| System Evaluation and Control | 3i2d |
| Organizational Research | 3i2e |
| 4:50 to 5:30 Summation and discussion | 3j |
| Any topics to be returned to, adjustments in next days agenda etc. | 3j1 |
| Tues. Feb 12 | 4 |
| 9:00 to 11:00 Kudlick: Discussion of the NIC | 4a |
| Current Status of the NIC (1 hour) | 4a1 |
| Background | 4a1a |
| Funding | 4a1b |
| Resources Used | 4a1c |
| Services Provided | 4a1d |
| Discussion of the NIC's Future (1 hour) | 4a2 |
| Funding Picture | 4a2a |
| Analysis of Information Service Needs in the Network Community | 4a2b |
| Development of Distributed, Modularized NIC Staff and Services | 4a2c |
| Short Range, On-going Services | 4a2d |
| 11:00 to 12:30 Review: IPTO plans for KW support systems; where ARC likely to participate; action plan for fixing IPTO planning and ARC's role. | 4b |
| 12:30 to 1:30 Lunch | 4c |
| 1:30 to 2:30 NIC, continued | 4d |
| 2:30 to 3:30 Plans for Remainder of this Fiscal Year | 4e |

Planned Agenda and Reference Files for ARC/IPT Review Meeting
2/11-12/74

| | |
|--|--------|
| Budgets, Tasks and Plans | 4e1 |
| Task-oriented rundown for current ARC budget | 4e2 |
| Plans, schedule and projected costs for the rest of this fiscal year | 4e3 |
| Specific list with costs of the tasks proposed for the coming fiscal year. | 4e4 |
| 3:30 to 5:00 Concluding Discussion | 4f |
| Includes feedback from ARPA on two days impressions, future meetings needed to clarify any issues left outstanding etc. | 4f1 |
| Need detailed interaction on proposed time table and form for next proposal. | 4f2 |
| Discussion aids: | 5 |
| NLS Watson | 5a |
| Application Notes: | 5b |
| (utility) | 5b1 |
| (transfers) | 5b1a |
| All NIC, RADC users hve been moved to the OFFICE-1 facility as of Saturday Feb 9th. This first week will give Utility staff a first look at the system under a heavy userload. | 5b1a1 |
| JHB 23-JAN-74 16:56 21585 Announcemnt of Transfer to the Utility for RADC Location: (GJOURNAL, 21585, 1:w) | 5b1a1a |
| (load) | 5b1b |
| Hope to serve 20 users at once.. very hard to tell how it will work without experience. | 5b1b1 |
| (architects) | 5b1c |
| Architects Meeting has been held online conferences also | 5b1c1 |
| JHB 8-JAN-74 15:58 21331 | |

Planned Agenda and Reference Files for ARC/IPT Review Meeting
2/11-12/74

AGENDA For the Architect's Seminar, Jan 10 - 15
Location: (GJOURNAL, 21331, 1:w) 5b1c1a

(announcement) 5b1d

A New ARPANET Subscription Service: The Workshop Utility
at OFFICE-1 28-JAN-74 (21645,
1:xbnhz)
Also in February Issue of the ARPANET News 5b1d1

(plans) plans for Support of Bell, RADG, Seismic, DEIS 5b1e

(bell) concentrating on documentation production, 5b1e1
dialog

7 people heavy writing, publishing 5b1e1a

(radg) dialog, office-work, management, forms/database 5b1e2
interface

20 people growing use plans to double 5b1e2a

(seismic) Dave Russell, Dick LaCoss LL planning now 5b1e3

may start information center, dialog, management of
tasks system 5b1e3a

(deis) Now serving DEIS staff 2 centers NDM DEO 5b1e4

SRI DEIS staff: maybe 8 people growing NMRO
interface DEO 5b1e4a

(arpa) NMRO to use CKM starting IPTO? CBI? MST? NSW?
+? 5b1e5

(expansion) 5b1f

AS more subscribers appear, we will add memory, drum,
CPU, perhaps go to KI TENEX, etc as appears appropriate.
We need to learn much more than we now know about the
order and increments of such changes. 5b1f1

(usage) 5b2

Experience at RADG 5b2a

Evaluation and Analysis of an Augmented

Planned Agenda and Reference Files for ARC/IPT Review Meeting
2/11-12/74

| | |
|--|----------|
| Knowledge Workshop, Final Report 8-FEB-74 (21849, 1:xbnhz) | 5b2a1 |
| Experience with other Network Users | 5b2b |
| MITRE-TIP Iseli On-Line, ARPANET News Collaboration | 5b2b1 |
| SDAC-TIP Owen, Hill IMLAC DNLS Proficient | 5b2b2 |
| NSRDC Lieberman survey papers | 5b2b3 |
| UCLA-NMC Crocker and staff | 5b2b4 |
| CASE-10 Calvin Teleconferencing, collaboration | 5b2b5 |
| BBN MacKenzie Journal | 5b2b6 |
| NBS Cotton heavy writing | 5b2b7 |
| other use summarized: (21624,) | 5b2b8 |
| In the last year, 5439 Journal items were distributed through the Journal; of these approximately 4800 were also sent hardcopy | 5b2b8a |
| (budgets) | 5b3 |
| Budgets, Tasks and Plans | 5b3a |
| Task-oriented rundown for current ARC budget (21792,1:xb) | 5b3a1 |
| PRESENT AND NEW STAFF PRIME ASSIGNMENTS | 5b3a1a |
| DIRECTOR - 1 | 5b3a1a1 |
| Engelbart | 5b3a1a1a |
| ANALYSIS - 3 | 5b3a1a2 |
| Lee | 5b3a1a2a |
| New man | 5b3a1a2b |
| Rech | 5b3a1a2c |
| DEVELOPMENT - 9 | 5b3a1a3 |

Planned Agenda and Reference Files for ARC/IPT Review Meeting

2/11-12/74

| | | |
|------------------------|----|----------|
| Andrews | | 5b3a1a3a |
| Dornbush (replacement) | | 5b3a1a3b |
| Irby | | 5b3a1a3c |
| Kaye (replacement) | | 5b3a1a3d |
| Lehtman | | 5b3a1a3e |
| Michael | | 5b3a1a3f |
| Wallace | | 5b3a1a3g |
| Watson | | 5b3a1a3h |
| White | | 5b3a1a3i |
| NIC - | 7 | 5b3a1a4 |
| Cooke | | 5b3a1a4a |
| Feinler | | 5b3a1a4b |
| Guilbault | | 5b3a1a4c |
| Keeney | | 5b3a1a4d |
| Kudlick | | 5b3a1a4e |
| Leavitt | | 5b3a1a4f |
| North | | 5b3a1a4g |
| OPERATIONS - | 14 | 5b3a1a5 |
| Beach | | 5b3a1a5a |
| Bondurant | | 5b3a1a5b |
| Ferguson | | 5b3a1a5c |
| Hardeman | | 5b3a1a5d |
| Hardy | | 5b3a1a5e |
| Jernigan | | 5b3a1a5f |

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| | | |
|---|-------------|-----------|
| Kelley | | 5b3a1a5g |
| Meyer | | 5b3a1a5h |
| Peters | | 5b3a1a5i |
| Ratliff | | 5b3a1a5j |
| Johnson | | 5b3a1a5k |
| Van de Riet | | 5b3a1a5l |
| Victor | | 5b3a1a5m |
| van Nouhuys | | 5b3a1a5n |
| UTILITY - | 5 | 5b3a1a6 |
| Bair | | 5b3a1a6a |
| Hopper | | 5b3a1a6b |
| New Documentation | | 5b3a1a6c |
| New Manager | | 5b3a1a6d |
| Norton | | 5b3a1a6e |
| Total - | 39 | 5b3a1a7 |
| Plans, schedule and projected costs for the rest of this fiscal year | | 5b3a2 |
| Cost Estimate: from the current extension proposal | | 5b3a2a |
| (for the period from 2/8/74 to 6/30/74) | | 5b3a2a1 |
| Personnel Costs | | 5b3a2a2 |
| | | 5b3a2a2a |
| Proj Supv | 435 hrs. | 5b3a2a2a1 |
| Senior Prof | 840 hrs. | 5b3a2a2a2 |
| Prof | 12,330 hrs. | 5b3a2a2a3 |

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| | | | |
|-------------------------------------|----------------|------------|----------------|
| Technical | 1,260 hrs. | | 5b3a2a2a4 |
| Clerical | 1,680 hrs. | | 5b3a2a2a5 |
| Total Direct Labor | | 112,600 | |
| Payroll Burden @ 28.0% * | | 31,528 | 5b3a2a2b |
| Total Labor and Burden | | 144,128 | 5b3a2a2c |
| Overhead @ 105% * | | 151,334 | 5b3a2a2d |
| Total Personnel Costs | | \$ 295,462 | 5b3a2a2e |
| | | | 5b3a2a2f |
| | | | 5b3a2a2g |
| Direct Costs | | | 5b3a2a3 |
| Travel | | \$ 4,590 | |
| | | | 5b3a2a3a |
| 10 trips East @ 336 = | 3,360 | | 5b3a2a3a1 |
| 30 Days Subsistence @ 31= | 930 | | 5b3a2a3a2 |
| 20 Days Car Rental @ 15= | 300 | | 5b3a2a3a3 |
| Facility * | | 157,915 | |
| | | | 5b3a2a3b |
| Report Costs | | 2,133 | |
| | | | 5b3a2a3c |
| Total Direct Costs | | \$ 164,638 | |
| | | | 5b3a2a4 |
| Total Estimated Cost | | \$ 460,100 | 5b3a2a5 |
| Fixed Fee | | 27,606 | |
| | | | 5b3a2a6 |
| TOTAL ESTIMATED COST PLUS FIXED FEE | | \$ 487,706 | |
| | | | 5b3a2a7 |
| | | | FACILITY COSTS |
| | | | 5b3a2b |
| SUMMARY: | | | 5b3a2c |
| \$ 145,246 | Equipment Cost | | 5b3a2d |

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| | | |
|---------------------------------|---------------------------|--------------|
| 12,699 | Maintenance and Operation | 5b3a2e |
| ----- | | 5b3a2f |
| \$ 157,915 | Total Facility Costs | 5b3a2g |
| DETAILS: | | 5b3a2h |
| Base Facility Support Details | | 5b3a2i |
| Total Equipment Costs | \$ | |
| 145,246 | | 5b3a2il |
| Computer Facility | \$ | |
| 129,010 | | 5b3a2ila |
| PDP-10 lease costs: | | 5b3a2ilal |
| Monthly: 4.75 Mo. @ \$ 27,160 | | |
| (P.O. B13477) consisting of: | | |
| Basic Facility (*) | \$ 13,986 | |
| DEC Disk Pack Equipment (**) | 6,514 | |
| DEC ME10 Memory (16k) Addition | 1,250 | |
| DEC Maintenance | 5,410 | |
| | ----- | |
| TOTAL | \$ 27,160 | 5b3a2ilala |
| | | 5b3a2ilalb |
| (*) Includes leased from DEC: | | 5b3a2ilalc |
| KA10 Arithmetic Processor | | 5b3a2ilalc1 |
| KM10 Fast Register | | 5b3a2ilalc2 |
| KT10A Dual Mem Protect Relocate | | 5b3a2ilalc3 |
| TM10A Mag Tape Control | | 5b3a2ilalc4 |
| TD10 DECTape Control | | 5b3a2ilalc5 |
| DC10A Data Line Scanner Control | | 5b3a2ilalc6 |
| TU30-B 7-Channel Mag Tape (two) | | 5b3a2ilalc7 |
| TU55 DECTape Transport (two) | | 5b3a2ilalc8 |
| DC10B 8-Line Group Unit | | 5b3a2ilalc9 |
| MA10 Core Memory (eight) | | 5b3a2ilalc10 |
| MC10 Memory Ports (24) | | 5b3a2ilalc11 |
| (**) Includes: | | 5b3a2ilald |
| DF10 Data Channel (two) | | |

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RPO2 Disk Controller (two)
RPO2 Disk (six)

5b3a211ald1

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| | | | |
|---|---------------------|----|---------------|
| Other leased equipment | 4.75 months | \$ | |
| 9,514 | | | 5b3a211b |
| Dataphones (7) | \$ 257 (329-8220-6) | | |
| Couplers (8) | 120 (B94707) | | |
| Cassette Recorders (6) | 687 (B55739) | | |
| T-I Terminals (9) | 939 (B94691) | | |
| | ----- | | |
| Total monthly rate | \$ 2,003 | | 5b3a211b1 |
| Telephone expenses | | \$ | |
| 6,722 | | | 5b3a211c |
| Lines to remote sites | \$ 2,532 | | 5b3a211c1 |
| Voiceline 4.75 months @ | 365 /mo = 1,734 | | 5b3a211c1a |
| (PR 1KP1179) | | | 5b3a211c1a1 |
| Voiceline 4.75 months @ | 168 /mo = 798 | | 5b3a211c1b |
| (PR 1KP1861) | | | 5b3a211c1b1 |
| NIC service | \$ 4,190 | | 5b3a211c2 |
| Fixed cost 4.75 months @ | 132 /mo = 627 | | 5b3a211c2a |
| | | | 5b3a211c2a1 |
| including | | | 5b3a211c2a2 |
| PA Answering Service @ \$40 /mo | | | 5b3a211c2a2a |
| (B77425) | | | 5b3a211c2a2a1 |
| Enterprise Service @ \$92 /mo | | | 5b3a211c2a3 |
| (SRI 23-70) | | | 5b3a211c2a3a |
| Toll calls 4.75 months at | 750 /mo = 3,563 | | 5b3a211c2b |
| (based on operating experience with NIC costs) | | | 5b3a211c2b1 |
| | | | 5b3a211d |
| Maintenance and Operation | | \$ | |
| 12,669 | | | 5b3a212 |
| Maintenance Materials | \$ 3,350 | | 5b3a212a |
| | | | 5b3a212a1 |
| Such as: | | | 5b3a212a1a |
| Picture tubes 6 @ 75= | 450 | | 5b3a212a1b |
| (P.O.64901) | | | 5b3a212a1b1 |
| Vidicons 6 @ 150= | 900 | | 5b3a212a1c |
| (P.O.66508) | | | 5b3a212a1c1 |
| Other | 2,000 | | 5b3a212a1d |
| (Actual components and costs will depend upon the results of further design work. This estimate is based upon previous experience in the field.) | | | 5b3a212a1e |
| | | | 5b3a212a1f |
| Other Operating Costs | \$ 9,319 | | 5b3a212b |
| | | | 5b3a212b1 |

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| | | | |
|---|-------------|-------|-------------|
| Mag tape | 40 @ \$15 @ | 600 | 5b3a2i2bla |
| (SRI Comp Center) | | | 5b3a2i2blal |
| NIC mailing costs = | | 2,969 | 5b3a2i2blb |
| Paper tape, printer | | | 5b3a2i2blc |
| paper, etc. = | | 1,000 | 5b3a2i2bld |
| Xerox for NIC dist | | 4,750 | 5b3a2i2ble |
| (These estimates are based upon initial and anticipated experience in NIC.) | | | 5b3a2i2blel |

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5b3a2i2b2

Specific list with costs of the tasks proposed for the
coming fiscal year.

5b3a3

Personnel List: (with part time % shown)

5b3a3a

| | | |
|------------------------|----|----------|
| Andrews | | 5b3a3a1 |
| Bair | | 5b3a3a2 |
| Beach | | 5b3a3a3 |
| Bondurant | | 5b3a3a4 |
| Cooke | 80 | 5b3a3a5 |
| Dornbush (replacement) | | 5b3a3a6 |
| Engelbart | | 5b3a3a7 |
| Feinler | | 5b3a3a8 |
| Ferguson | | 5b3a3a9 |
| Guilbault | 37 | 5b3a3a10 |
| Hardeman | | 5b3a3a11 |
| Hardy | | 5b3a3a12 |
| Hopper | | 5b3a3a13 |
| Irby | | 5b3a3a14 |
| Jernigan | | 5b3a3a15 |
| Johnson (new) | | 5b3a3a16 |
| Kaye (replacement) | | 5b3a3a17 |
| Keeney | | 5b3a3a18 |
| Kelley | | 5b3a3a19 |
| Kudlick | | 5b3a3a20 |
| Leavitt | | 5b3a3a21 |

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| | | |
|---|-------------------|----------|
| Lee | | 5b3a3a22 |
| Lehtman | | 5b3a3a23 |
| Lieberman (new) 4/74 on | | 5b3a3a24 |
| Meyer | (50 after 9/74) | 5b3a3a25 |
| Michael | | 5b3a3a26 |
| North | | 5b3a3a27 |
| Norton | | 5b3a3a28 |
| Peters | | 5b3a3a29 |
| Ratliff | | 5b3a3a30 |
| Rech | | 5b3a3a31 |
| Van de Riet | 60 leaves 6/15/74 | 5b3a3a32 |
| Victor | 75 | 5b3a3a33 |
| Wallace | | 5b3a3a34 |
| Watson | | 5b3a3a35 |
| White | | 5b3a3a36 |
| van Nouhuys | | 5b3a3a37 |
| (facility) (hardy, fac-c, l:xbn) | | 5b4 |
| Documents for online and hard-copy, hands-on access | | 5c |
| Proposals, | | 5c1 |
| 1971 IPTO: General | | |
| (7404,1:xh) (7405,1:xh) (7406,1:xh) (7407,1:xh) (7408,1:xh) | | |
| (7409,1:xh) (7410,1:xh) (7411,1:xh) | | 5c1a |
| 1974 IPTO: Utility | | |
| (14946,1:xh) | | 5c1b |
| 1973 IPTO: General | | |
| (18368,1:xh); | | 5c1c |

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| | |
|--|-------|
| 1974 IPTO: General, modified extension (21708,1:xh); | 5c1d |
| 1974 NMRO: DEIS basic applic support (21447,1:xh) | 5c1e |
| 1974 NMRO: DEIS, special DEO support, Draft (Norton, DEISPROP,1:xh) | 5c1f |
| HELP data base (Documentation, Help,1:xhz) (Documentation, Help, plex:geb) | 5c2 |
| HELP-project dialogue (Kelley, DIRT, 1:xhz) | 5c3 |
| Journal Indices | 5c4 |
| JULY 1973 TO PRESENT (:ebtzd) | 5c4a |
| (JAUT) AUTHOR INDEX (CATALOG, NARCJAINCNL, 1:zxnh) (CATALOG, NARCJAINCNL, 1;;SNP CH "WI";izxnh) (CATALOG, NARCJAINCNL, Engelbart:zxrnh;["Meyer"]);) | 5c4a1 |
| (JNUM) NUMBER INDEX [12568 up] (catalog, narcjnincnl, 1:zxnh) (catalog, narcjnincnl, N12568:zxnh) | 5c4a2 |
| (JTITAF) A-F TITELWORD INDEX (catalog, narcjtafincnl, 1:zxnh) (catalog, narcjtafincnl, keyword:zxnh) | 5c4a3 |
| (JTITGO) G-O TITELWORD INDEX (catalog, narcjtgoincnl, 1:zxnh) (catalog, narcjtgoincnl, Hitachi:xhz) | 5c4a4 |
| (JTITPZ) P-Z TITELWORD INDEX (catalog, narcjtpzincnl, 1:xhz) (catalog, narcjtpzincnl, keyword:xhz) | 5c4a5 |
| JULY 1972 TO JULY 1973 (:XBBF) | 5c4b |
| AUTHOR INDEX (catalog, arcjaincnl, 1:zxnh) (catalog, arcjaincnl, Engelbart:zxnh) | 5c4b1 |

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| | |
|---|-------|
| NUMBER INDEX (catalog, arcjnincnl, 1:zxnh) (catalog, arcjnincnl, N12568:zxnh) | 5c4b2 |
| A-F TITLEWORD INDEX (catalog, arcjtafincnl, 1:zxnh) (catalog, arcjtafincnl, keyword:zxnh) | 5c4b3 |
| G-O TITLEWORD INDEX (catalog, arcjtgoincnl, 1:zxnh) (catalog, arcjtgoincnl, keyword:zxnh) | 5c4b4 |
| P-Z TITLEWORD INDEX (catalog, arcjtpzincnl, 1:zxnh) (catalog, arcjtpzincnl, keyword:zxnh) | 5c4b5 |
| To JULY 1972 (:f) | 5c4c |
| AUTHOR INDEX (kjjournal, 11163, 0:zxnh) (kjjournal, 11163, Engelbart:zxnh) | 5c4c1 |
| NUMBER INDEX (kjjournal, 11162, 1:zxnh) (kjjournal, 11162, N12568:zxnh) | 5c4c2 |
| A-L TITLEWORD INDEX (kjjournal, 11164, 1:zxnh) (kjjournal, 11164, keyword:zxnh) | 5c4c3 |
| M-Z TITLEWORD INDEX (kjjournal, 11165, 1:zxnh) (kjjournal, 11165, keyword:zxnh) | 5c4c4 |
| NEWEST.... (Journal, TJCAT, 1:mywhi) | 5c4d |
| Any Header text: \$NP '(["(s)"] ["/"] "JCP"; | 5c4d1 |
| Author IDENT: \$NP '(["(s)"] ["/"] "JCP"; | 5c4d2 |
| NIC Locator (NIC, Locator, 2:xhbx) | 5c5 |
| ARC Locator (userguides,arclocator,0:xnz) | 5c6 |
| From the menu file: | 6 |

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ARC:

6a

Philosophy, goals

6a1

Philosophy: Centered about the Augmented Knowledge Workshop (AKW), aimed at maximizing the effectiveness of human organizations in dealing with complex problems. Strong belief that there are potentially very dramatic gains to be made in this effectiveness.

6a1a

and that exploration and pursuit of these limits are ...

6a1a1

Approach is to augment the basic information-handling capabilities, and to re-design appropriately the concepts, processes, conventions, methods, organizational structures, etc. used to do their knowledge work.

6a1a2

Take seriously a whole-system view of AKW. Believe that the end Workshop systems will be very large: huge selection of service functions; very large working vocabularies in constant use by many knowledge workers to evoke the service transactions in support of their everyday work; very significant changes in the concepts and methods associated with their work, and in the organizational structures and working relationships among co-workers.

6a1a3

Prime Goal: Maximally contributing to growth and utilization of Augmented Knowledge Workshop

6a1b

Top-level explicit objective: Building, supporting Bootstrap Community

6a1c

Current principle objective: Get the system-evolution process to the takeoff point -- establish large, healthy Application community, and full-strength Analysis activity, to balance the experienced Development activity.

6a1d

Subordinate objectives:

6a1d1

Develop effective service-delivery capability -- computer services, instruction, application guidance; target toward steady reduction in service costs (cut by 50%/yr);

6a1d2

Develop effective service-marketing capability -- promote exploratory-application activity, structuring

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| | |
|---|-------|
| service packages to fit evaluation and evolution needs of client in mutually beneficial way; | 6a1d3 |
| Build an active, knowledgeable, professionally oriented group of "Knowledge-Workshop Architects," distributed among the application clientele. These are user-representative specialists, who become as knowledgeable as possible within the "architectural" (higher-level) aspects of their knowledge workshops, and guide the evolution of their workshops' augmentation. | 6a1d4 |
| Strong emphasis on collaborative support for distributed community | 6a1e |
| Three-part, formally organized, system-evolution approach: | 6a2 |
| Development | 6a2a |
| Application | 6a2b |
| Within ARC, for NIC, at RADG, extended clientele via Workshop Utility | 6a2b1 |
| Analysis | 6a2c |
| Analyses of NLS use, utility of NLS to user groups encountered so far. | 6a2c1 |
| Budgets, Tasks and Plans | 6a3 |
| Task-oriented rundown for current ARC budget | 6a3a |
| Plans, schedule and projected costs for the rest of this fiscal year | 6a3b |
| Specific list with costs of the tasks proposed for the coming fiscal year. | 6a3c |
| Analysis: | 6b |
| (rech,agenda,) | 6b1 |
| NLS: | 6c |
| Old and New versions of NLS | 6c1 |
| General | 6c2 |

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| | |
|--|--------|
| Virtual, coherent tool system | 6c2a |
| Range of work-mode interfaces: DNLS, TNLS, Query, DEX, ..., NLSa, NLSb, etc. | 6c2b |
| DNLS -- unique two-dimensional work mode | 6c2b1 |
| Configuration/software/implementation of NLS, | 6c3 |
| Current: | 6c3a |
| File system: | 6c3a1 |
| Structured form, hierarchical with cross linkage -- conceived as domain suitable to map concept structures onto | 6c3a1a |
| Altering/updating of files | 6c3a1b |
| On-line, Archive, BSYS, | 6c3a1c |
| Implementation framework: TM, LLO, CML, interpreter, Core NLS, File structure, | 6c3a2 |
| NLS-TENEX interaction | 6c3a3 |
| Future: | 6c3b |
| General availability of other Net services on a "reach-through" basis while working within a cohernet NLS environment. | 6c3b1 |
| Extensive HELP system | 6c3b2 |
| Working-mode profile, privately tailored for individual users | 6c3b3 |
| File system: remote store tertiary | 6c3b4 |
| Front end, distr NLS, other op systems, MPS | 6c3b5 |
| Remote machine access for ARC people and the need or terminals (.5 hours) | 6c3b6 |
| NLS functions could be moved to mini's (.5 hours) | 6c3b7 |
| NLS User Features | 6c4 |

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| | |
|--|--------|
| Core set for composing, studying, modifying | 6c4a |
| Editing of text and structure (including cross-file) | 6c4a1 |
| Matrix of Entities (nouns) and operations (verbs) | 6c4a1a |
| Statement breaking, appending | 6c4a1b |
| Getting around: (watson,menu,l:wi;["Generator"]); | 6c4a2 |
| Relative-Structure Jumping; | 6c4a2a |
| Jump to Location, Name, SID; Links; | 6c4a2b |
| Jump to Content (Jump word, | 6c4a2c |
| Return stacks (Intra file, inter file) | 6c4a2d |
| Viewing | 6c4a3 |
| View-generation parameters (esp. level clipping and statement truncation, | 6c4a3a |
| Split-screen "windows" Application | 6c4a3b |
| Content analyzer | 6c4a3c |
| Sequence Generator | 6c4a3d |
| Character size choices | 6c4a3e |
| Statement "freezing" | 6c4a3f |
| Special: | 6c4a4 |
| Markers | 6c4a4a |
| Assimilate | 6c4a4b |
| Sort and Merge | 6c4a4c |
| Collaboration | 6c4b |
| Dialogue Support | 6c4b1 |
| Messages | 6c4b1a |
| Journal | 6c4b1b |

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| | |
|--|---------|
| Linking | 6c4b1c |
| Telephone/Coupled-screen | 6c4b1d |
| XDOC | 6c4b2 |
| Catalog management system: indexing, online, .. | 6c4b3 |
| Special Subsystems or Tools | 6c4c |
| Calculator | 6c4c1 |
| User Programs | 6c4c2 |
| User Options | 6c4c3 |
| Help | 6c4c4 |
| FTP (FTP commands executable from within NLS) | 6c4c5 |
| TENEX (Tenex Exec commands executable from within NLS) | 6c4c6 |
| System | 6c4c7 |
| NIC Query | 6c4c8 |
| Compiler and Assembler I/O | 6c4c9 |
| Measurements | 6c4c10 |
| Superwatch | 6c4c10a |
| NLS command Frequency Counts | 6c4c10b |
| NDDT | 6c4c11 |
| Output Processor, COM | 6c4c12 |
| Documentation | 6c5 |
| Online Documentation | 6c5a |
| ARC Locator | 6c5a1 |
| Help Data Base | 6c5a2 |
| Offline Documentation | 6c5b |

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| | |
|---|-------|
| Cue Cards | 6c5b1 |
| Primer | 6c5b2 |
| Scenarios | 6c5b3 |
| Reference Manual | 6c5b4 |
| Terminals Supported | 6c6 |
| Tasker | 6c6a |
| Line Processor | 6c6b |
| IMLAC | 6c6c |
| DEX Typewriters | 6c6d |
| Network Virtual Typewriters | 6c6e |
| ASCII Terminals Uppercase only and Upper-lowercase | 6c6f |
| Network Graphics Protocol and DNLS | 6c6g |
| Community Knowledge-Work Support | 6d |
| NIC | 6d1 |
| ACIGs | 6d2 |
| Architects, KWAC | 6d3 |
| General: Coordinated Info Services for a Discipline- or Mission-Oriented community (cf -- 12445,) | 6d4 |
| Application Thrusts / Technology Transfer | 6e |
| Utility | 6e1 |
| See: | 6e1a |
| SRI-ARC jcn 28-JAN-74 15:33 A New ARPANET Subscription Service: The Workshop Utility at OFFICE-1 (GJOURNAL, 21645, 1:xbbb) | 6e1a1 |
| See maybe...?: | 6e1b |

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JHB 8-JAN-74 15:58 21331
AGENDA For the Architect's Seminar, Jan 10 - 15
(GJOURNAL, 21331, 6e1b1
1:xbb)

JCN 8-JAN-74 07:53 21319
ARCHITECTS' INTENSIVE SEMINAR AT ARC JANUARY 10 THROUGH
JAN 15 (GJOURNAL, 21319, 6e1b2
1:xbbb)

Training 6e1c

NIC: 6e2

Background, funding, resources used/services provided,
plans for provision of services at lower cost, analysis of
needs for/use of NIC services, recommendations for NIC
future activities. 6e2a

See: 6e2a1

MDK 21-Nov 73 (or has it been updated? jcn)
Network Information Center: Goals, Problems,
Requirements
(20439, 1:w) 6e2a1a

support to various groups -- present and future -- including
DEIS, seismic, Bell, RADC, etc. 6e3

For instance, see Proposals 6e3a

DEIS: (norton=@deisproposal,3:xbbbnz) to be 21447 6e3a1

RADC: (15263,2:wgny) 6e3a2

ARPA: (14946,2:wgny) 6e3a3

Bell: (19250,2:wgny) now offline--jcn 6e3a4

note: The old VELA Proposal was: (19251,2:wgny) 6e3a5

Improvements on the way 6f

New user interface -- same vocabulary and basic control
principles; made more self consistent; extensive user-help
facilities; more readily extensible; 6f1

Planned Agenda and Reference Files for ARC/IPT Review Meeting
2/11-12/74

| | |
|---|-----|
| "Reach-through" support, of other-system services, e.g.: DataComputer, Data Analysis, decision analysis, graphic generation and manipulation, AI processes, simulation and modelling, etc. | 6f2 |
| Cheap DNLS | 6f3 |
| Mini front end (cheaper, better response) | 6f4 |
| NLS modularized, with standardized interfaces, enabling other people's computer systems to harness any of the modules. | 6f5 |
| Improvements awaiting launching | 6g |
| Special versions of NLS, for special applications | 6g1 |
| NLS mapped into other operating systems (using mini front end, many other TTS's besides TENEX could adequately support NLS). | 6g2 |
| Graphics | 6g3 |
| Micro-form subsystem | 6g4 |
| Speech-string entities | 6g5 |
| | 6g6 |

Planned Agenda and Reference Files for ARC/IPT Review Meeting
2/11-12/74

(J21890) 13-FEB-74 18:39; Title: Author(s): Douglas C. Engelbart,
Richard W. Watson, James C. Norton/DCE RWW JCN; Distribution: /DCE RWW
JCN PR CHI MDK; Sub-Collections: SRI-ARC; Clerk: JCN;
Origin: <NORTON>NOTES.NLS;1, 13-FEB-74 18:36 JCN ;

Date: 14-FEB-74 0924-EDT

From: VICTOR at BBN-TENEX

Re: SNDMSG TO JBN AND ISC WITH A FILE

- - - - -

THIS MESSAGE TESTS TRANSMISSION OF A MESSAGE BY SNDMSG WITH NO
CARRIAGE RETURNS AND INCLUDING A FILE. THIS IS ANOTHER TEST TO SEE
WHETHER

THE MESSAGE IS A MESSAGE OR A FILE

IT IS FOUR LINES LONG LIKE THE SAME FROM ISI

. I HAVE ADDED THIS LAST PARAGRAPH.

1
2
3
4
5
6
7
8
9
10

JBN 14-FEB-74 06:22 21891

(J21891) 14-FEB-74 06:22; Title: Author(s): Jeanne B. North/JBN ;
Distribution: /JBN ISC ; Sub-Collections: SRI-ARC ISC; Clerk: JBN;

Costs Associated With NIC Mail Activity, 1973

As a supplement to (GJOURNAL, 21624,1:wy) on the NIC's 1973 Mail Distribution Activity, Marcia Keeney has put together the following data on the cost of doing that work.

1

NOTE THIS DOES NOT INCLUDE NEW ARPANET DIRECTORY.

1a

Total cost

2

\$ 41 K non-labor

\$ 15 K labor

\$ 56 K total cost of 1973 mail activity

2a

Non-Labor breakdown

3

\$ 9,571/yr ... SRI report services *

14,123/yr ... xerox costs (approx 3.5 cents per page)

16,978/yr ... postage costs

\$40.672/yr or \$3389/month

3a

3a1

* Report services breakdown:

3a1a

\$ 1217 Arpanet News

1432 Resource Notebook

2134 Old Directory

995 Catalog

228 Bulletins

158 Indexes

1583 Protocol Updates

731 Old User Guides

611 New User Guides

205 L10 User Guide

287 AKW Papers

\$ 9571

3a1b

Labor breakdown

4

\$ 15,000/yr ... approx 1 man-year

4a

This table gives data in units of man-hours per month.

Note that 173 man-hours per month = one man-month.

The totals below add up to 168 man-hours per month.

That's where the one-many-year figure comes from.

4b

computer xeroxing mailing

4c

Costs Associated With NIC Mail Activity, 1973

| | | | | |
|--------------------------------|-------|--------|------|----|
| RFC'S | 1 | 9 | 17 | |
| Group Notes | - | 11 | 11 | |
| Other Journal Items | - | - | 8.5 | |
| Identfile Maintenance | 55 | - | - | 4d |
| Functional Document Front pgs | 3 | 3 | 6 | |
| Status of Revision Notices | 0.5 | 1 | 2 | |
| Arpanet News | - | - | 4 | |
| NIC Bulletin | - | - | 4 | 4e |
| Misc Document Requests | 15 | 2.5 | 2 | |
| Misc Other Requests | - | 2 | - | |
| Network Mail Correspondence | 10.5 | - | - | 4f |
| | ----- | --- -- | --- | |
| Total person-hours per month = | 85 | 28.5 | 54.5 | 4g |

MDK 14-FEB-74 08:16 21899

Costs Associated With NIC Mail Activity, 1973

(J21899) 14-FEB-74 08:16; Title: Author(s): Michael D. Kudlick/MDK;
Distribution: /SRI-ARC; Sub-Collections: SRI-ARC; Clerk: MDK;
Origin: <KUDLICK>MAILCOSTS.NLS;2, 11-FEB-74 19:24 MDK ;

ARPANET Directory: Cost of First Issue

| | | | |
|---|--------------|-------------------|----|
| ARPANET DIRECTORY COSTS (for the first issue) | | | 1 |
| Non Labor \$2000. | | | 2 |
| Art Work | \$ 123 | | |
| Photo | 9 | | |
| Press | 1,384 | | |
| Labels | 91 | | |
| Mail | 342 | | |
| | ----- | | |
| | \$ 1,949 | < \$1.75 per copy | 2a |
| Labor | \$ 20,000 | (0.5 my) | 3 |
| non-recurring costs | .4 my | | |
| recurring costs | .1 my | | 3a |
| Computer Time | not measured | | 4 |

MLK MDK 14-FEB-74 08:21 21900

ARPANET Directory: Cost of First Issue

(J21900) 14-FEB-74 08:21; Title: Author(s): Marcia Lynn Keeney,
Michael D. Kudlick/MLK MDK; Distribution: /SRI-ARC; Sub-Collections:
SRI-ARC; Clerk: MDK;
Origin: <KUDLICK>DIRCOSTS.NLS;2, 11-FEB-74 19:33 MDK ;