Kenneth E. Victor
Augmentation Research Center
Stanford Research Institute
Menlo Park, California 94025

To:
  Access Copy

9504

Kenneth E. Victor
Augmentation Research Center
Stanford Research Institute
Menlo Park, California 94025

reclaiming resident ddt

Here is the long promised code to reclaim resident DDT after it
has been flushed.   1

   Three routines are provided: 1a

     DDTRCL   1a1

       This is the driving routine.   1a1a

       When you wish to reclaim ddt, you go into MDDT and
execute: 1a1b

         CALL DDTRCL   1a1b1

     MAKPGU   1a2

       This is the routine that removes pages from the
swappable store.   1a2a

     OFFRQ   1a3

       This routine is used by code in SWPIN to diddle MAPs and
CSTs.   1a3a

   In addition some changes to the start-up code in PISRV and to
code in PAGEM are provided.   1b

                                                                     2
The following should be added to a swappable part of SWPMON: 3

   ;RECLAIM DDT   3a

                                                                     3b
```
GS RCADDT,1               ;SAVE ADDRESS OF SWPCOR                        3c
```

                                                                     3d
```
    EXTERN MAKPGU,DDTX                                                   3d1
```

                                                                     3e
```
DDTRCL:       MOVE 2,RCADDT              ;GET OLD SWPCOR                  3f

    CAMN 2,SWPCOR                ;GOT DDT ALREADY ?                      3f1

    JRST DDTRC3                 ;YES                                     3f2
```

reclaiming resident ddt

```
        MOVE 1,MONCOR                 ;MAKE SURE WE DONT STOP IN MIDDLE    3f3

        SETOM DDTPRS                                                       3f4

        SOS 2                                                              3f5

        CALL MAKPGU                   ;GET THE PAGES                       3f6

        MOVE 2,RCADDT                 ;STOP GARBAGE COLLECTION             3f7

        MOVEM 2,SWPCOR                                                     3f8

        HRLZ 2,MMSPTN                 ;FIXUP THE MAP AND CST'S             3f9

        HRR 2,MONCOR                                                       3f10

        HRRZ 1,MONCOR                                                      3f11

        MOVSI 3,400000                                                     3f12

        MOVSI 4,RWXB                                                       3f13

DDTRC1:        MOVEM 1,MMAP(2)                                             3g

        HLLM 4,MMAP(2)                                                     3g1

        MOVEM 3,CST0(1)                                                    3g2

        MOVEM 1,CST1(1)                                                    3g3

        MOVEM 2,CST2(1)                                                    3g4

        ADDI 1,1                                                           3g5

        CAMGE 1,RCADDT                ;DONE ALL ?                          3g6

        AOJA 2,DDTRC1                 ;NO, CONTINUE                        3g7

        MOVE 4,MONCOR                 ;GET DDT BACK FROM DISK              3g8

        SUB 4,RCADDT                                                      3g9

        HRLZ 4,4                                                           3g10

        HRR 4,MONCOR                                                       3g11

DDTRC2:        MOVE 1,RLMX0-1(4)                    ;GET DISK ADDRESS      3h
```

```
        MOVEI 2,1000              ;READ 1000 WORDS                    3h1

        MOVEI 3,0(4)             ;GET CORE ADDRESS                   3h2

        LSH 3,↑D9                                                    3h3

        DSKOP                                                        3h4

        AOBJN 4,DDTRC2           ;ALL DONE, NO TO DDTRC2             3h5

DDTRC3:        MOVE 1,[JRST DDTX]        ;UPDATE 100                 3i

        MOVEM 1,100                                                  3i1

        SETZM DDTPRS            ;INDICATE DDT PRESENT                3i2

        RET                                                         3i3
```

                                                                    4

The following two routines should be added to PAGEM (note MAKPGU
need not be resident if that is possible on your system):   5

```
    ;REMOVE A SET OF PAGES FROM THE SWAPPABLE STORE                 5a

    ;ACCEPTS IN  1: PAGE NUMBER OF FIRST PAGE TO BE REMOVED         5b

    ;            2: PAGE NUMBER OF LAST PAGE TO BE REMOVED          5c


                                                                    5d
    GS RCLPLK,1  ;LOCK TO KEEP MORE THAN 1 USER OUT OF CODE         5e

    GS BOTPGE,1  ;BOTTOM PAGE                                       5f

    GS TOPPGE,1  ;TOP PAGE                                          5g

    GS PGECNT,1  ;NUMBER OF PAGES                                   5h


                                                                    5i
    INTERN MAKPGU                                                   5i1

    EXTERN DISLE                                                    5i2


                                                                    5j
MAKPGU:        AOSE RCLPLK                ;LOCK OUT THE WORLD        5k
```

```
JRST [     MOVEI 1,RCLPLK   ;SOMEONE BEAT US HERE              5k1

     CALL DISL        ;WAIT                                    5k1a

     JRST .-1]        ;TRY AGAIN                               5k1b

MOVE 3,2             ;COMPUTE PAGE COUNT                       5k2

SUB 3,1                                                        5k3

AOS 3                                                          5k4

MOVEM 1,BOTPGE            ;SETUP BOTPGE                        5k5

MOVEM 2,TOPPGE            ;SETUP TOPPGE                        5k6

MOVEM 3,PGECNT            ;SETUP COUNT                         5k7

MOVEI 1,PGECNT            ;DISMISS UNTIL WE HAVE               5k8

CALL DISLE               ;   ALL PAGES                         5k9

SETOM RCLPLK             ;UNLOCK                               5k10

RET                                                           5k11
```

```
                                                              5l

                                                              5m

                                                              5n
OFFRQ:        SOS 4,TOTRC             ;UPDATE TOTRC           5o

SOS MAXNR          ;UPDATE MAXNR                              5o1

ASH 4,-2           ;UPDATE MAXLOK                             5o2

CAIGE 4,10                                                    5o3

MOVEI 4,10                                                    5o4

MOVEM 4,MAXLOK                                                5o5

MOVE 4,TOTRC             ;UPDATE MAXBP                        5o6

LSH 4,-3                                                      5o7
```

4

```
        CAIL  4,NBP                                              5o8

        MOVEI  4,NBP-1                                           5o9

        MOVEM  4,MAXBP                                           5o10

        SETZM  CST1(3)              ;SET CST1                    5o11

        SETZM  CST2(3)              ;SET CST2                    5o12

        SETZM  CST3(3)              ;SET CST3                    5o13

        SETZM  MMAP(3)              ;SET MMAP                    5o14

        MOVSI  4,010000             ;SET CST0                    5o15

        MOVEM  4,CST0(3)                                         5o16

        RET                                                      5o17
```

6

The code at SWPIL1 (in PAGEM) should now look as follows: 7

```
    SWPIL1:        SOS NRPLQ                                     7a

        HRRZ 3,RPLQ                  ;YES, REMOVE FROM QUEUE     7a1

        SUBI 3,CST3                                              7a2

        PIOFF                                                    7a3

        MOVE 4,CST3(3)                                           7a4

        HLLM 4,0(4)                                              7a5

        MOVS 4,4                                                 7a6

        HLRM 4,0(4)                                              7a7

        PION                                                     7a8

        SETZM CST3(3)                                            7a9

        CALL DEPG            ;RESET PREVIOUS OWNERSHIP           7a10

        SKIPN PGECNT                 ;ANY PAGES NOT TO GIVE BACK 7a11
```

reclaiming resident ddt

```
        JRST SWPILA                  ;NO                                    7a12

        CAML 3,BOTPGE                ;THIS PAGE TO BE REMOVED FROM           7a13

        CAMLE 3,TOPPGE               ;  SWAPPABLE STORE ?                    7a14

        SKIPA                        ;NO                                     7a15

        JRST [    CALL OFFRQ         ;YES, UPDATE ALL NECCESSARY SHIT        7a16

            SOS PGECNT     ;REDUCE # OF PAGES                                7a16a

            JRST SWPIN]    ;GET THE USER A PAGE                              7a16b

    SWPILA:      TLNE 1,-1                   ;NEW PAGE FROM PT OR SPT?        7b
```

                                                                            8
The code at SYSGO1 (in PISRV) should now look as follows: 9

```
    SYSGO1:      SKIPA 7,DIDSCI                                              9a

    SYSLOD:      SETZ 7,         ;CLEAR DIDSCA TO RELOAD DISK                9b

        MOVE P,PI7P                                                         9b1

        CONO APR,200000         ;RESET IO DEVICES                           9b2

        CONO PI,610000          ;RESET PI                                   9b3

        CONO 420,1B25+1         ;START THE HP CLOCK                         9b4

        MOVE 1,[XWD 5000,5000+1]                                           9b5

        SETZM -1(1)                                                         9b6

        BLT 1,SCDVE                                                         9b7

        MOVEM 7,DIDSCA                                                      9b8

        AOS INSKED                                                          9b9

        MOVE 1,[JRST BUGH9]     ;SETUP JSR DISPATCHES                       9b10

        MOVEM 1,BUGHLT+1                                                    9b11

        MOVE 1,[JRST BUGC9]                                                 9b12
```

```
    MOVEM 1,BUGCHK+1                                              9b13

    MOVE 1,SWPCOR                 ;SAVE VALUE OF SWPCOR           9b14

    MOVEM 1,RCADDT                                               9b15

    CALL PGRINI                   ;INIT DST, CST, ETC.            9b16

    IFDEF DRMCHN,<CALL DRMINI>                      ;DRUM         9b17

    IFDEF DSKCHN,<CALL DSKINI>                      ;DISK         9b18

    IFDEF DLSCHN,<CALL TTINIT>              ;TELETYPE MODULE      9b19

    CALL SCDIN                    ;SCHEDULER                      9b20

    CALL PIINIT                   ;PI MODULE - LAST INIT          9b21

    MOVE 1,[XWD CTYLIN,JOBSRT]                                    9b22

    CALL SCDRQ7                   ;INITIATE FIRST JOB             9b23
```

7

reclaiming resident ddt

(J9504) 11-MAR-72 18:11;   Title: Author(s): Kenneth E. Victor/KEV;
Distribution: Charles W. Rose, David W. Shipman, James A. Moorer, Stan
L. Mantiply, Rainer W. Schulz, Bob Van Tyul, Jeanne B. North, Robert L.
Dendy, John T. Melvin, Kenneth E. Victor, John W. McConnell, Peggy M.
Karp, Dan L. Murphy, Rod M. Fredrickson, Peter H. Lipman, Donald C.
Wallace, Carl M. Ellison, Ted R. Strollo/TUG; Sub-Collections: SRI-ARC
TUG; Clerk: KEV;
Origin: <VICTOR>RECALIM-DDT.NLS;1, 11-MAR-72 18:00 KEV ;

Martin E. Hardy
Augmentation Research Center
Stanford Research Institute
Menlo Park, California 94025

To:
Access Copy

9505

Centronics Printer

(J9505)   14-MAR-72 9:53;   Title: Author(s): Martin E. Hardy/MEH;
Distribution: Jacques F. Vallee, Diane S. Kaye, Paul Rech, Michael D.
Kudlick, Donald R. Cone, Don Limuti, William R. Ferguson, Priscilla
Lister, Robert L. Dendy, Linda L. Lane, Marilyn F. Auerbach, Walter L.
Bass, Mary S. Church, William S. Duvall, Douglas C. Engelbart,
Beauregard A. Hardeman, Martin E. Hardy, J. D. Hopper, Charles H. Irby,
Mil E. Jernigan, Harvey G. Lehtman, John T. Melvin, Jeanne B. North,
James C. Norton, Cindy Page, Bruce L. Parsley, William H. Paxton,
Jeffrey C. Peters, Jake Ratliff, Barbara E. Row, Ed K. Van De Riet, Dirk
H. van Nouhuys, Kenneth E. Victor, Donald C. Wallace, Richard W. Watson,
Don I. Andrews/SRI-ARC; Sub-Collections: SRI-ARC; Clerk: PL;

Centronics Printer

We have catalogued (as 9394) a brochure describing the Centronics
Model 101 serial USASCII line printer. Its worst case print rate
is approximately one second per line, (132 col) and costs
approximately $3,500.00. A sample printout is attached. The
materials are filed in the cave (by number).   1

Harvey G. Lehtman
Augmentation Research Center
Stanford Research Institute
Menlo Park, California 94025

To:
    Access Copy

9506

ONWARD AND UPWARD WITH NEW NLS

(J9506)   14-MAR-72 10:30;   Title: Author(s): Harvey G. Lehtman/HGL;
Distribution: James G. Mitchell, L. Peter Deutsch, Diane S. Kaye, Don I.
Andrews, Walter L. Bass, William S. Duvall, Mary S. Church, J. D.
Hopper, Charles H. Irby, Harvey G. Lehtman, John T. Melvin, Bruce L.
Parsley, William H. Paxton, Marilyn F. Auerbach/NPG MFA;
Sub-Collections: SRI-ARC NPG; Clerk: HGL;

ONWARD AND UPWARD WITH NEW NLS

Well, it looks like a bust   (See (9482,).)   Until Mimi and
Bruce finish debugging their stuff we cannot move over the
REL-NLS system. Hopefully, however, we will be able to do it by
Friday. An additional note: Mimi backed up several versions of
IOCTL because it went bad. She maintains that little (if
anything) was lost in the process. I have been unable to find
anyone who had changed IOCTL recently other than Mimi and must
thus conclude she is right. If, however, you feel some of your
valuable code has mysteriously disappeared from <REL-NLS>IOCTL
since 23 February, do something about it.....Peace, Comrade HGL   1

Richard W. Watson
Augmentation Research Center
Stanford Research Institute
Menlo Park, California 94025

To:
Access Copy

9507

Reply on Postoffice Box Suggestion

(J9507)   14-MAR-72 10:39;   Title: Author(s): Richard W. Watson/RWW;
Distribution: W. Jack Bouknight/WJB; Sub-Collections: SRI-ARC; Clerk:
RWW;

Reply on Postoffice Box Suggestion

Jack,   Thanks for the suggestion on the need for a postoffice
box.   We will figure out some way to make such a mechanism.
Dick   1

Alex A. McKenzie
Bolt Beranek and Newman Inc.
Computer Systems Division
50 Moulton Street
Cambridge, Massachusetts 02138

To:
Access Copy

9509

facilitators meeting on 18 March

(J9509)   14-MAR-72 10:50; Title: Author(s): Alex A. McKenzie/AAM;
Distribution: Jeanne B. North, Bruce A. Dolan, Alex A. McKenzie, John T.
Melvin, Robert M. Metcalfe, Robert E. Kahn, Richard B. Kalin, Jonathan B
Postel, Peggy M. Karp, James E. White, Steve D. Crocker/NF;
Sub-Collections: NIC NF; Clerk: AAM;

facilitators meeting on 18 March

this is to inform everyone that a Network Facilitators meeting
has been called for Saturday, 18 March.
The meeting will be held at BBN (50 Moulton St., Cambridge)
starting at 9:30am. Since our doors are usually
locked on weekends I am not sure how this will work out; however,
I have the assurance of the "plant
security officer" that the door closest to my office (a grey door
on an old "loading dock" close to
the beginning of Moulton St. and to the Superior Laundry
building) will be left unlocked. If it is, just
walk in; if it isn't, try ringing the bell at the 50 Moulton St.
entrance - a guard should be there to let
you in. If you get lost inside the building, pick up any
telephone and dial my extension (ext. 441). If
you need to call from outside you can try dialing 491-1851 which,
if you're lucky, will ring an extension on
the call director near my office. As a last resort, you could
call the NCC (491-0475) or my home (861-8230).
    I appologize to everyone for getting this announcement out so
late, but the availability of the BBN Prototype
TIP, the NIC computer, and the Journal System all leave something
to be desired.
    Alex McKenzie

1

Alex A. McKenzie
Bolt Beranek and Newman Inc.
Computer Systems Division
50 Moulton Street
Cambridge, Massachusetts 02138

To:
Access Copy

9510

letter (plea?)

(J9510) 14-MAR-72 11:04; Title: Author(s): Alex A. McKenzie/AAM;
Distribution: Jeanne B. North/JBN; Sub-Collections: NIC; Clerk: AAM;

letter (plea?)

Dear Jeanne,

    I realize that there's little you can do at the NIC to
help us East Coast people out when the system crashes, or
is otherwise unavailable and it's the middle of the
night to you. On the other hand, it would REALLY be
nice if you could arrange to have the "Journal System
Temporarily Unavailable" at some time other than the
East Coast morning work hours. I may be more easily
frustrated than most, but I use the NIC facilities
very little MOSTLY because my work is largely
communicating with others, and there's so much of
the day when I can't do it through the journal.
(Most meetings at BBN are in OUR afternoon, which
means i generally can 't play with the computer much
then.)
        Alex McKenzie

                                                        1

Joel B. Levin
Bolt Beranek and Newman Inc.
50 Moulton Street
Cambridge, Massachusetts 02138

To:
Access Copy

9512

TIP/NIC hang-ups

(J9512)   14-MAR-72 14:18; Title: Author(s): Joel B. Levin/JBL;
Distribution: John T. Melvin, Alex A. McKenzie/JTM AAM; Sub-Collections:
NIC; Clerk: JBL;

TIP/NIC hang-ups

I think the problem is as you surmised-- We have made no
changesto the TIP system for a while and the zero-message
allocations you have beenseeing are qutite recent, I think. I
have seen it happen within the past few minutes to me here, and I
was able to start up again as soon as I goosed my
allocate-sender. Good luck with it [To me this is independent of
the other problem I have seen--the ICP completing without the
data link opening.]   1

The following notes are a first attempt to get my ideas about
ARC demonstrations organized. I would appreciate your comments or
suggestions about them or about how to get more people into the
act.   1

INTRODUCTION   2

    ARC has had an increasing number of visitors from within SRI
and from outside organizations during the past few years.   2a

        Many of these people have come to see Doug Engelbart and
have seen the ARC augmentation system as part of his
discussion with them.   2a1

        Others have come just to see the system itself and have
been given demonstrations - some very informal and some
fairly well planned.   2a2

    Except for the casual drop-in visitor, most visits require
some preparation efforts by ARC people in advance, either in
arranging the demonstration area or in outlining, sometimes
rehearsing, the demo itself.   2b

    In response to suggestions from the PODs (9353,2:hwnyO), we
are planning to involve more people in giving demonstrations,
both to help with the increased effort now required and so
that they will have the experience of representing ARC to the
"outside world".   2c

        When ARC people reconsider the things we are developing
here so that they can tell other people not so tuned in,
the process seems to give added insight into what we really
are doing.   2c1

PREPARATION   3

There are people who really have studied presentation
techniques, some having worked up documents/courses on the
basics involved.   3a

One such person is Robert Perry, who has developed and
given presentation courses for large companies,
professional societies, and the like. Doug Engelbart has
attended one of his sessions recently and has the notes
from that session. See (9462,) - in hardcopy only right now
- for more information.   3a1

We are considering having some people (1-2?) from ARC
attend such a session, bringing back more on the techniques
involved.   3a2

Until such assistance is secured, I present ideas here,
based on my experiences to date - limited as they are.   3a3

Access to views of working files greatly aids on-the-spot
flexibility. Far less detailed preparation is needed as a
result.   3b

BUT: an outline of the main ideas you want to get across is
essential.   3c

Sometimes it is helpful to show the outline first if a
more structured demo.   3c1

We should present a balanced set of ideas - a complete range
of coverage in response to "interests" of visitors and the
message we want to get across.   3d

The main objective is to use the time to present a balanced
view of ARC/NIC with some interesting detail within the time
and interest span of the visitors.   3e

The demonstrater needs to keep tuned into the visitor
response and mood, to and adapt the presentation
accordingly during its course.   3e1

Backup help is needed for crashes. A plan for carrying on
during crashes helps. There is plenty to talk about even
without the system, although its harder and quite frustrating.   3f

4

TYPES OF VISITORS - INTERESTS   4

   There are many different kinds of visitors coming to ARC
these days. Where they come from and what they want or don't
want to see should have a bearing on the type of presentation
we give them.   4a

   Here are some of the different types of visitors: 4b

      ARC clients   4b1

         ARPA RADC ONR XEROX   4b1a

      ARPA Network participants   4b2

         TNLS course attendees   4b2a

         Other interested people DCE and other contacts   4b2b

      ARC-selected potential clients - ARC or Bootstrap
      Community (BC)   4b3

      Outside interested individuals, companies, educational
      organizations   4b4

      New media: writers, photographers   4b5

      SRI officials: Board/Council   4b6

      SRI visitors   4b7

         For ARC interests, for SRI assistance   4b7a

   Here are some of their orientations: 4c

      Some come to learn: 4c1

         To use system TNLS courses   4c1a

         To learn about Aug systems and implications of our work 4c1b

         Techniques we use in system design and implementation -
         software and other   4c1c

      Some come because they have to: their organization sent
      them.   4c2

      We need to know "where they are" before we start a

presentation if possible. If we don't we should sort of
check them out as we start the presentation.   4c3

    This can be tricky, since it can lead to lots of time
talking about where they are, leaving litle time for the
presentation. It all depends on the particular situation
at the time.   4c3a

Moods we see: 4c4

    overwhelmed - with concepts/potential or just the
detail.   4c4a

    antagonistic   4c4b

    highly responsive   4c4c

    dead quiet - bored -can't wait to get on to the next
stop   4c4d

    too quick to "see" where we are - "lots of other text
editors around"   4c4e

DEMONSTRATION SETTING   5

   Here are some ideas about the settings we have been using: 5a

   Conference room   5b

      Main console with up to about 6 slave monitors   5b1

         This has provided some view of the screen with large
groups, but really doesn't let the viewers feel
comfortable with the character size and resolution.   5b1a

         We have talked about getting a good projection TV
equipment for some time. Every large group we have here
(there were 36 people in one recently) makes the need
for a large screen more apparent.   5b1b

      Remove conference table?   5b2

      Bring in more chairs - borrow from offices   5b3

         We need 30 or 40 stackable chairs that can be brought
in and set up.   5b3a

      Clean out any junk   5b4

      Use a clock? The displayed time can be misleading in
periods of little screen activity.?   5b5

      A timer with a bell   5b6

      Audio recording setup works and has been used oncee in a
while. Many visitors mas feel uncomfortable about being
recorded if they are involved in a discussion.   5b7

      An ARC person a as monitor in the room can provide help by
the phone   5b8

   Cave   5c

      For casual dropins   5c1

      For small groups 3-4?   5c2

      Not a quiet setting   5c3

   Console area   5d

      Not preferrd for demos, unless just a friend type   5d1

This may disturb others in the area and vice-versa   5d2

AIDS FOR PRESENTATION   6

   Most valuable aid: THE SYSTEM UP   6a

   Charts   6b

   Other participants   6c

   Hardcopy materials   6d

      Journal index, documents   6d1

      NIC documents   6d 2

      Document such as report to show publishing of large
      documents   6d3

   It it fits, data about visit or visitors already online;
   makes them feel personally involved   6e

   It's like a show - at times, but should not seem rehearsed.
   Best effect is just using everyday files to tell our story -
   sometimes interacting with audience.   6f

   Show the console area, computer room, depending on the visit   6g

   Files: 6h

      Main "control point " in a file helps.   6h1

         Elements of Aug Sys? Initial file? Other files reached
         by links set up or entered as you proceed   6h1a

         Return to familiar view at intervals to restore context
         or to regain the visitors lost attention/understanding.   6h1b

         These files may be of use.   6h1c

            Baseline views, (9451,)   6h1c1

            Journal index, (8713,) (8714,) (8715,)   6h1c2

            NIC locator, (nic,locator,)   6h1c3

            TNLS Guide, (7470,)   6h1c4

            Reports,(documentation,r8457radc,)(documentation,r862
            2onr,)   6h1c5

Proposals, (7404,)   6h1c6

L10 guide, (documentation,110,)   6h1c7

Handbook guide (handbook,handbook,)   6h1c8

Tools/features: 6i

There are many more omline features in our system than can
usefully be shown to visitors in any one sitting. However,
many of them will be used by the demonstrater just to get
the various views onto the screen.   6i1

Some of these features must be explained briefly as
they are used so as not to confuse the visitors. Others,
however, are not so apparent duuring their use. To
explain everything we do takes too much time and floods
the viewers with information. A balance between
describing and just using must be found.   6i1a

Here are the basic features I have been describing: 6i2

Console (mouse, keyset,display, keyboard)   6i2a

Editing (operations and entities) - cross file edits   6i2b

File structure   6i2c

Viewspecs   6i2d

Links   6i2e

Sorts   6i2f

Split screen   6i2g

User programs - content analyzer, editing   6i2h

Output processor and printer   6i2i

TNLS if appropriate   6i2j

Tell about DEX and uses   6i2k

Systat to show ARC and Net users on, Directory to show
files   6i2l

Linking to another user if appropriate.   6i2m

Character size (use 2 when formats are ok)   6i2n

PROCEDURES FOR SETTING UP AND RECORDING VISITS   7

    Principle: as little disruption of ARC work as possible is a
main objective. It is usually best to just be in the
background, not affecting the system except as another user.   7a

      Compile and load times must be avoided unless a real
emergency exists.   7a1

      Sometimes special "service-protect" help is needed, but
this should be rare.   7a2

    DCE and JCN are the ARC central contact points for
arrangements/decisions on who demonstrates, unless casual
dropins or personal friends.   7b

      Some demonstrations may require SRI or client approvals -
before the occasion. See JCN on questions regarding this.   7b1

    Get help on setup, monitors, backup worked out well enough in
advance to assure timely help. Being ready for demonstrations
well in advance (1/2 hour?) really makes for a more relaxed,
effective presentation.   7c

    A Journal Log entry of the visit is the responsibility of the
demonstrater. JCN is developing a visitor log system to aid in
this process. (norton,visitplan,)   7d

    Clean up after demonstrations is the responsibility of the
ARC demonstrater. Not necessarily to do the cleanup, but to
see that it is done.   7e

      Return borrowed chairs, move table back in, replace extra
monitors, otherwise restore conference room to its normal
state. Jeff, Jake, and others usually help with this.   7e1

SAMPLE OUTLINES   8

First try: 8a

Intro   8a1

Time for talk - questions   8a1a

The console, mouse, keyset   8a1b

What if people could ..?   8a1c

Relation of our team's work to visitors   8a1d

Main ideas - 6 or less?   8a2

Augmentation meaning   8a2a

Elements   8a2a1

People Artifacts Languages Methodology Training   8a2a1a

Augmentation subsystems   8a2a2

DSS DPCS PBMS SDIS SEAS HAND   8a2a2a

A little history   8a2b

ARPA IPT sponsorship   8a2c

NIC and network   8a2d

Some projection   8a2e

How out to world - not product by us, except for sys
developers   8a2e1

BC idea   8a2e2

Conclusion   8a3

What to do next, if anything   8a3a

MISC NOTES   9

    A combination of professional approach, human interaction -
humor - responsiveness to ideas/questions is needed.   9a

      We don't know nearly as much about augmentation as we want
to know. We don't know much about other augmentation
systems for that matter. "Here is what we are and why" - "
here is what we do think we know" are good approaches.   9a1

    Remember that we are evolving an early part of what we
consider to be a new technology. Thus, it covers a very broad
range of ideas/possibilities/applications. It means some big
changes in the way people (including some of the visitors)
will work in the future. Future shock for some is on the way
and our contribution may even start to be apparent through our
demonstration.   9b

    Some concepts/ideas will meet with resistence - even before
they are made clear - because they are new, or because they
are not yet clear to us. Our presentation may make our lack of
knowledge all too clear.   9c

    There are frequently questions about: 9d

      The computer as a threat to society, privacy of
information, the saving of vast amounts of data, our
government funding, the complexity of our system and the
learning needed to use it, our slow progress and
unreliability, costs vs hard-to-prove increased
effectiveness.   9d1

    As a guide when describing an augmentation system, I have
displayed a branch such as this (opening up level by level):   9e

      Elements of an AUGMENTATION SYSTEM   9e1

        People,   together with: 9e1a

          Tools, artifacts   9e1a1

            Pencils, paper ..... computer, display, mouse ++ 9e1a1a

          Languages   9e1a2

            English ... command, programming, special
technical .++   9e1a2a

          Methodology   9e1a3

How we read and write   9e1a3a

    ... how we create and change and use information   9e1a3b

Training   9e1a4

    We read and write .... we use information in new
    ways,forms, speeds for problem-solving   9e1a4a

<HJOURNAL>9516.NLS;1, 15-MAR-72 7:24 JCN ;
(J9516) 15-MAR-72 7:23; Title: Author(s): James C. Norton/JCN;
Distribution: Jacques F. Vallee, Diane S. Kaye, Paul Rech, Michael D.
Kudlick, Donald R. Cone, Don Limuti, William R. Ferguson, Priscilla
Lister, Robert L. Dendy, Linda L. Lane, Marilyn F. Auerbach, Walter L.
Bass, Mary S. Church, William S. Duvall, Douglas C. Engelbart,
Beauregard A. Hardeman, Martin E. Hardy, J. D. Hopper, Charles H. Irby,
Mil E. Jernigan, Harvey G. Lehtman, John T. Melvin, Jeanne B. North,
James C. Norton, Cindy Page, Bruce L. Parsley, William H. Paxton,
Jeffrey C. Peters, Jake Ratliff, Barbara E. Row, Ed K. Van De Riet, Dirk
H. van Nouhuys, Kenneth E. Victor, Donald C. Wallace, Richard W. Watson,
Don I. Andrews/SRI-ARC; Sub-Collections: SRI-ARC; Clerk: JCN;
Origin: <NORTON>J9516.NLS;2, 15-MAR-72 7:19 JCN ; HJOURNAL="****
ROUGH DRAFT *** JCN GDT; 9516"; :   ;

Barbara E. Row
Augmentation Research Center
Stanford Research Institute
Menlo Park, California 94025

To:

Access Copy

9517

TIP Users Group

(J9517) 14-MAR-72 15:48; Title: Author(s): Barbara E. Row/BER;
Distribution: Bruce A. Dolan, Richard W. Watson, Jeanne B. North/BAD RWW
JBN; Sub-Collections: NIC; Clerk: BER;
Origin: <ROW>BAD.NLS;1, 14-MAR-72 15:46 BER ;

TIP Users Group

Dear Bruce,

I put a new group in the Identfile for you today (TIPUG), but the idents LWM, LJP, and LBP (which you had indicated should be members of this group) were not recognized.

If you would send me more information about these three people, I'll put them in the Identfile.

Thank you.

Barbara Row (BER)   1

Michael D. Kudlick
Stanford Research Institute
333 Ravenswood Ave.
Menlo Park, California 94025

To:
Access Copy

9521

ARC FILM ON NLS

(J9521) 15-MAR-72 12:45; Title: Author(s): Michael D. Kudlick/MDK;
Distribution: Jacques F. Vallee, Diane S. Kaye, Paul Rech, Michael D.
Kudlick, Donald R. Cone, Don Limuti, William R. Ferguson, Priscilla
Lister, Robert L. Dendy, Linda L. Lane, Marilyn F. Auerbach, Walter L.
Bass, Mary S. Church, William S. Duvall, Douglas C. Engelbart,
Beauregard A. Hardeman, Martin E. Hardy, J. D. Hopper, Charles H. Irby,
Mil E. Jernigan, Harvey G. Lehtman, John T. Melvin, Jeanne B. North,
James C. Norton, Cindy Page, Bruce L. Parsley, William H. Paxton,
Jeffrey C. Peters, Jake Ratliff, Barbara E. Row, Ed K. Van De Riet, Dirk
H. van Nouhuys, Kenneth E. Victor, Donald C. Wallace, Richard W. Watson,
Don I. Andrews/SRI-ARC; Sub-Collections: SRI-ARC; Clerk: MDK;

ARC FILM ON NLS

ARC FILM   1

    Friday March 17 the one-and one-half hour film of the 1969
Amer. Soc. for Information Processing (ASIS) presentation by
ARC will be shown in the conference room.   This is a
comprehensive presentation on the uses of NLS.   1a

    Time: 3:30 PM   1b

    Those who haven't seen this film are encouraged to attend the
showing.   Attendees at Dirk's TNLS course will also be
invited.   1c

    Next week (at a time to be announced) a second film, on NLS as
a text editor, will be shown.   1d

Mil E. Jernigan
Augmentation Research Center
Stanford Research Institute
Menlo Park, California 94025

To:
Access Copy

9522

Fir POD Minutes for Meeting of 14 March 1972

(J9522) 15-MAR-72 13:57; Title: Author(s): Mil E. Jernigan/MEJ;
Distribution: Jacques F. Vallee, Diane S. Kaye, Paul Rech, Michael D.
Kudlick, Donald R. Cone, Don Limuti, William R. Ferguson, Priscilla
Lister, Robert L. Dendy, Linda L. Lane, Marilyn F. Auerbach, Walter L.
Bass, Mary S. Church, William S. Duvall, Douglas C. Engelbart,
Beauregard A. Hardeman, Martin E. Hardy, J. D. Hopper, Charles H. Irby,
Mil E. Jernigan, Harvey G. Lehtman, John T. Melvin, Jeanne B. North,
James C. Norton, Cindy Page, Bruce L. Parsley, William H. Paxton,
Jeffrey C. Peters, Jake Ratliff, Barbara E. Row, Ed K. Van De Riet, Dirk
H. van Nouhuys, Kenneth E. Victor, Donald C. Wallace, Richard W. Watson,
Don I. Andrews/SRI-ARC; Sub-Collections: SRI-ARC; Clerk: MEJ;
Origin: <JERNIGAN>FIR-NOTES.NLS;2, 15-MAR-72 13:54 MEJ ;

Fir POD Minutes for Meeting of 14 March 1972

Fir Pod met at the SRI Cafeteria on 14 March 1972, 3-5 PM; attending: RWW, DCW, WRF, JFV, CP, JTM; and MEJ.   1

There was a report on PODCOM activities from the last PODCOM meeting and some discussion on goals, purposes, and directions of ARC activities as expressed by DCE in his 1962 paper and the "dinosauer paper".   2

It was pointed out again that DCE's suggestion concerning POD activities covers that, (1) PODs are asked to meet weekly for two hours for each meeting and attendance at the meetings should be unanimous, reference the PODLAUNCH paper (8651), paragraph .3a2a, "...consider that attendance and participation will be part of the 'employment conditions' for working within ARC, and thus expect to press strongly for complete and consistent attendance"; and (2) the purpose of the PODs is to discuss among themselves "personal development and organizational structures and growth".   3

Ways and means were discussed among the group in which they as individuals and as members of ARC could grow and develop. The organization of ARC was under scrutiny when time for disbanding came.   4

Barbara E. Row
Augmentation Research Center
Stanford Research Institute
Menlo Park, California 94025

To:
Access Copy

9523

New Baselines

(J9523) 15-MAR-72 14:39; Title: Author(s): Barbara E. Row/BER;
Distribution: Don I. Andrews, William S. Duvall/DIA WSD;
Sub-Collections: SRI-ARC; Clerk: PL;

New Baselines

Your baselines are ready, you lucky people.   1

Schuyler Stevenson
325 South Broadway
Boulder, Colorado 80302

To:
Access Copy

9524

letter to RAY

(J9524)   16-MAR-72 10:38;   Title: Author(s): Schuyler Stevenson/SS;
Distribution: Raynor K. Rosich, Thomas B. Gray/RKR TBG; Sub-Collections:
NIC; Clerk: SS;

letter to RAY

this is a message ro ray

Prentiss H. Knowlton
Jet Propulsion Laboratory
Mail Stop 125-109A
4800 Oake Grove Drive
Pasadena, California 91103

To:
    Access Copy

                    9525

TYPICAL MESSAGE

(J9525)   16-MAR-72 11:09;   Title: Author(s): Prentiss H. Knowlton/PHK;
Distribution: Beauregard A. Hardeman, Frank P. Mathur, Prentiss H.
Knowlton/BAH FPM PHK; Sub-Collections: NIC; Clerk: PHK;

TYPICAL MESSAGE

HELLO THERE   1

Advanced Research Projects Agency
1400 Wilson Boulevard
Arlington, Virginia 22209

To:
    Access Copy

9526

test message

(J9526)   16-MAR-72 11:10;   Title: Author(s): Advanced Research
Projects Agency/ARPA; Distribution: Steve D. Crocker/SDC2;
Sub-Collections: ARPA; Clerk: ARPA;

test message

hey steve, pam and i are having a great time here.

1

Raynor K. Rosich
U.S. Department of Commerce
OT/ITS
325 Broadway, Room 1-4528B
Boulder, Colorado 80302

To:
Access Copy

9529

another stupid message to garcia.

(J9529)   16-MAR-72 11:14;   Title: Author(s): Raynor K. Rosich/RKR;
Distribution: Raynor K. Rosich, Schuyler Stevenson, Thomas B. Gray,
Thomas B. Gray/RKR SS TBG TBG; Sub-Collections: NIC; Clerk: RKR;

another stupid message to garcia.

hi, this is another message   1

David H. Crocker
Computer Science Department
3732 Boelter Hall
University of California at Los Angeles
Los Angeles, California 90024

To:
Access Copy

9530

(J9530)   16-MAR-72 11:22;   Author(s): David H. Crocker/DHC;
Distribution: Steve D. Crocker/SDC2; Sub-Collections: NIC; Clerk: DHC;

greetings, steve;

hope your trip to england was fun. mom was upset that you hadn't tole her that you were leaving the country. it's alright, though. i didn't tell her that I had moved and she found out when she tried to call me. She got a message giving her my new number.

By the way, are you getting all my jounal messages? 'I've sent several others.

This message is brought to you courtesy of the NIC NLS class. fun.

Bye.   1

V. R. Bruffey
Seismic Array Analysis Center
813 North Royal Street
Alexandria, Virginia 22314

To:
Access Copy

9532

V. R. Bruffey
Seismic Array Analysis Center
813 North Royal Street
Alexandria, Virginia 22314

ACTIVITY SAMPLE

(J9532)   16-MAR-72 13:30;   Title: Author(s): V. R. Bruffey/VRB;
Distribution: V. R. Bruffey/VRB; Sub-Collections: NIC; Clerk: VRB;

ACTIVITY SAMPLE

TO MYSELF

ACTIVITY SAMPLE

THIS IS IT.   1

John W. McConnell
NASA Ames Research Center
Mail Stop 202-10
Moffett Field, California 94035

To:
Access Copy

9533

RJS MEETING REQUEST.

(J9533)   16-MAR-72 13:43; Title: Author(s): John W. McConnell/JWM;
Distribution: Jonathan B Postel/JBP; Sub-Collections: NIC; Clerk: JWM;

RJS MEETING REQUEST.

JON, I WOULD LIKE THE RJS PROTOCOL MEETING TO BE HELD MAR 31 IF
POSSIBLE.WOULD YOU PLEASE CONFIRM SOON IF THATS THE CASE. I WILL
BE AT   THE ILLIAC USER'S GROUP MEETING NEXT WEEK. EXPECT TO BE
BACK WED BEFORE MEETING. I'LL HAVE A TERMINAL THERE SO WILL USE
NLS TO CHECK.   1

Paul J. Zima
Ames Research Center
Mail Stop 233-13
Moffett Field, California 94035

To:
Access Copy

9534

first message

(J9534)   16-MAR-72 14:14;   Title: Author(s): Paul J. Zima/PJZ;
Distribution: Stan L. Mantiply, John W. McConnell, Paul J. Zima/SLM JWM
PJZ; Sub-Collections: NIC; Clerk: PJZ;

first message

this is my first journal message, how do you like it?????
hopefully the next one will be more meaningful.   1

V. R. Bruffey
Seismic Array Analysis Center
813 North Royal Street
Alexandria, Virginia 22314

To:
Access Copy

9536

REQUEST FROM SAAC

(J9536) 16-MAR-72 15:34; Title: Author(s): V. R. Bruffey/VRB;
Distribution: B. Michael Wilber/BMW; Sub-Collections: NIC; Clerk: VRB;

REQUEST FROM SAAC

DEAR DR WILBUR: 1

I WORK FOR VERNON BRUFFEY AT THE SEISMIC ARRAY ANALYSIS LAB IN
ALEXANDRIA , VIRGINIA.   AS YOU MAY ALLREADY KNOW, SAAC IS
EXPECTING DELIVERY OF A TIP IN LATE MAY.   WE ALSO ARE EXPECTING
DELIVERY OF A PDP-15 AT ABOUT THAT TIME.   2

SINCE SRI-AI HAS A PDP-15 INTERFACED TO AN IMP,   WE (SAAC) WOULD
LIKE TO KNOW THE COST AND SOURCE OF YOUR (SRI-AI'S)INTERFACE
HARDWARE.   3

THANK YOU VERY MUCH.   4

    BUZ OWEN(TERMORARILY USING VRB FOR IDENT)   4a

                                                                  5

                                                                  6

Michael D. Kudlick
Stanford Research Institute
333 Ravenswood Ave.
Menlo Park, California 94025

To:
Access Copy

9537

Ideas Concerning ARC Technical Seminars

(J9537) 16-MAR-72 15:44; Title: Author(s): Michael D. Kudlick/MDK;
Distribution: Jacques F. Vallee, Diane S. Kaye, Paul Rech, Michael D.
Kudlick, Donald R. Cone, Don Limuti, William R. Ferguson, Priscilla
Lister, Robert L. Dendy, Linda L. Lane, Marilyn F. Auerbach, Walter L.
Bass, Mary S. Church, William S. Duvall, Douglas C. Engelbart,
Beauregard A. Hardeman, Martin E. Hardy, J. D. Hopper, Charles H. Irby,
Mil E. Jernigan, Harvey G. Lehtman, John T. Melvin, Jeanne B. North,
James C. Norton, Cindy Page, Bruce L. Parsley, William H. Paxton,
Jeffrey C. Peters, Jake Ratliff, Barbara E. Row, Ed K. Van De Riet, Dirk
H. van Nouhuys, Kenneth E. Victor, Donald C. Wallace, Richard W. Watson,
Don I. Andrews/SRI-ARC; Sub-Collections: SRI-ARC; Clerk: MDK;
Origin: <KUDLICK>SEMINARS.NLS;7, 16-MAR-72 15:39 MDK ;

Ideas Concerning ARC Technical Seminars

Ideas re Technical Seminars   1

   Background   1a

                                                                   1a1

I (MDK) was asked by PODCOM members to write up my ideas
on how and why techical seminars ought to be handled in
ARC, in order that each POD may have the same basis for
discussion of this subject as we had in PODCOM meeting.
That's what's in this file.   1a1a

Motivation   1a2

My motivation for suggesting so-called technical
seminars is partly selfish, partly altruistic.   1a2a

The selfish part is simply that I would like to know
much more about what is going on in ARC ... present
status, future plans, who's involved.   1a2b

The altruistic part is that I believe seminars are damn
good for personal development. When one has to prepare
ahead of time for a presentation, one learns a lot about
his own subject matter. The act of delivering a seminar
to a varied audience, some of whom can inject incisive,
constructive criticisms, is a challenge. I think this
fits in with one of the concepts of PODAC very neatly.   1a2c

Mechanism   1a3

I personally believe that to rely on totally voluntary
contributions (in other words, whenever anyone feels
like giving a seminar then that's when it takes place)
just doesn't work. We've all got too much built-in
inertia.   1a3a

What works much better, in my opinion, is to have a
coordinator whose role is to solicit and generate ideas
for seminars, select persons who are the most likely to
know the subject matter, schedule the seminars, see to
it that abstracts and/or outlines are distributed ahead
of time (so that others can decide whether they want to
attend), see to it that as many different persons as
possible get a chance to give a seminar, etc.   1a3b

Format   1a4

Ideas Concerning ARC Technical Seminars

Usually a seminar would be one person presenting his
thing, and the audience participating with constructive
comments, criticisms, etc.   1a4a

Modifications of this format are easy to imagine. For
example, round-table discussions (where all prepare
ahead of time their ideas on the subject); or seminars
in which two or more persons divide the time serially to
give different aspects of the subject.   1a4b

Also, outside guests may be invited to talk (though I
think this should be done sparingly, otherwise the
personal development aspect of the whole thing suffers). 1a4c

Subject matter would most likely be the work that an
individual is doing. But it may be some paper that he
has read or conference he has attended or work he has
done elsewhere. As examples I have listed below some of
the things I would like to hear at ARC seminars.   1a4d

The main thing is first of all that some one be
responsible for coordinating the seminars, as described
above, and secondly that the person who is going to
give the seminar prepare for it, and distribute (ahead
of time) at least an outline or abstract that indicates
all the major concepts to be covered.   1a4e

Suggested Topics (for starters)   1b

TENEX Status (Smokey)   1b1

BBN Plans for Future Software   1b1a

Archive System Status   1b1b

PDP-10 Multiprocessor Status   1b1c

ARC Contributions   1b1d

Handbook (MFA)   1b2

Present Status   1b2a

Future Plans   1b2b

NIC (RWW)   1b3

Present Status   1b3a

Ideas Concerning ARC Technical Seminars

Jeanne B. North
Augmentation Research Center
Stanford Research Institute
Menlo Park, California 94025

To:
Access Copy

9538

Request to make George A Michael member of NGG

(J9538)   16-MAR-72 16:02;   Title: Author(s): Jeanne B. North/JBN;
Distribution: Albert Vezza, Richard W. Watson, John T. Melvin/AV RWW
JTM; Sub-Collections: SRI-ARC; Clerk: JBN;

Request to make George A   Michael member of NGG

Al Vezza - NIC has received a strrong expression of interest in
Network graphics from George A Michael at Lawrence Livermore Lab,
and told him we would request he be made a member of the Network
Graphics Group. He is working with Michener, who referred him to
us.   Jeanne North   1

Pam J. Klotz
Advanced Research Projects Agency
1400 Wilson Boulevard
Arlington, Virginia 22209

To:
Access Copy

9539

test message

(J9539)   16-MAR-72 16:04;   Title: Author(s): Pam J. Klotz/PJK;
Distribution: Dirk H. van Nouhuys, Richard W. Watson, Bruce A. Dolan/DVN
RWW BAD; Sub-Collections: NIC; Clerk: PJK;

test message

load file   1

Jeanne B. North
Augmentation Research Center
Stanford Research Institute
Menlo Park, California 94025

To:
     Access Copy

                    9560

Suggestion for Handling Unusual Forms of the Date in the Catalog

(J9560) 17-MAR-72 10:57; Title: Author(s): Jeanne B. North/JBN;
Distribution: Walter L. Bass, Richard W. Watson, James C. Norton/WLB RWW
JCN; Sub-Collections: SRI-ARC; Clerk: JBN;
Origin: <NORTH>DATES.NLS;1, 25-FEB-72 8:23 JBN ;

Suggestion for Handling Unusual Forms of the Date in the Catalog

This is in response to Walt's Journal Message (8944,)   1

If we are to handle bibliographic records so they are reproducible, we
must make provision for all possible forms in which dates appear.   2

This means that the date should be recorded so that it can be reproduced
in the full bibliographic record in the same form it appeared in the
document. This would seem not to be the problem.   3

In indexes, where a program must change all dates to a standard form, I
would propose we live with the last two digits of the number, ignoring
the month or season. In this way a program could pick up the last two
digits (and a dash, in the expected cases of periodical records which
normally use the date form: 1961-).   4

Michael D. Kudlick
Stanford Research Institute
333 Ravenswood Ave.
Menlo Park, California 94025

To:
Access Copy

9561

PODCOM Minutes 3/16/72

(J9561) 17-MAR-72 11:11; Title: Author(s): Michael D. Kudlick/MDK;
Distribution: Don I. Andrews, Marilyn F. Auerbach, Donald R. Cone,
Robert L. Dendy, William S. Duvall, Charles H. Irby, Michael D. Kudlick,
Barbara E. Row/DIA MFA DRC RLD WSD CHI MDK BER; Sub-Collections:
SRI-ARC; Clerk: MDK;
Origin: <KUDLICK>PODCOM.NLS;4, 17-MAR-72 8:43 MDK ;

PODCOM Minutes March 16   1

  POD Reaction   1b

      The other PODS expressed skepticism that an ARC-wide
      meeting would be fruitful. But they wanted to hear what
      Doug would have to say.   Consequently there was no flat
      refusal to accept the need for such a meeting.   1b1

  POD Comments   1c

      John Melvin reported that at their recent POD meeting,
      Smokey and Dick were able to understand each other's
      premises, attitudes, assumptions through rather lengthy
      frank discussion, and thought this was one of the best
      things to come out of their POD since the beginning.   1c1

      Paul Rech commented that the location of a POD meeting had
      an effect on the outcome --- for example, meeting in the
      park, with difficulty in hearing one another etc was less
      conducive to meaningful interaction than meeting at a round
      table where interaction was enhanced.   1c2

      John Melvin thought that the existence of personal
      friendships helped in POD meetings.   1c3

      I discussed what has been going on at REDWOOD POD meetings,
      emphasizing that the discussions have usually centered on
      ARC-oriented topics --- goals and objectives, PSO,
      technical seminars, the role of POD.   1c4

      Then I brought up the idea that PODCOM organize technical
      seminars, explaining what I meant (see my journal item
      9537).   1c5

PODCOM Minutes 3/16/72

MDK Suggestion   1d

    Walter felt that for him seminars were of limited value
technically, and were costly and had not much impact. John
disagreed. All finally (i.e., after some discussion)
agreed to have seminars, but the format etc was not hacked
out at this meeting.   DCE was expressly in favor of the
seminars as an educational experience both for individuals
and collectively within ARC.   1d1

    The discussion was concluded with the following thoughts: 1d2

        possibly let PODs organize seminars, one POD each week
        on a rotating basis.   1d2a

        possibly let PODCOM organize all seminars, or appoint
        one of its members to carry out that function.   1d2b

        definitely let PODs discuss it and we'll bring it up
        again at the next PODCOM meeting.   1d2c

CHI Suggestion   1e

    I brought up CHI's suggestion tht the ARC-wide meeting be
held as a panel discussion, PODCOM (including DCE)
constituting the panel, with someone else acting as
chairman to ensure that the meeting did not get out of
hand, via filibustering or whatever.   1e1

    Everyone agreed. Dave Hopper volunteered to be chairman.
Meeting time was set for Thursday March 23 at 10:00 AM
(there will be no PODCOM meeting that week).   1e2

    The format, though loose, will include a statement by Doug
on where he wants PODs to be going, and how well we've done
so far in getting there. This could be followed by a
statement from each POD about ITS ideas on where PODs are
at and where they should be . It was suggested that the
PODCOM representative give this statement, though that
wouldn't preclude others from commenting, of course.   1e3

DCE Attendance   1f

    Doug felt that after attending two POD meetings his
presence was an inhibiting factor on the functioning of the
PODs.   So he's now in the mode of waiting for invitations,
and will attend if invited.   But he would like to restrict
his attendance to just the first hour, so that the POD can

get some meeting time without him. Also he feels that an
hour is enough for him to contribute in.   1f1

DCE : Organization   1g

At the last PODCOM meeting Doug had stated that he was
working on some organizational changes within ARC and would
tell us about them soon. (Sorry, I forgot to note this in
the minutes I was taking last time, and didn't remember to
tell you about it.) Paul wondered when is soon. Doug
said, not yet.   1g1

                                                            1h

Jeanne B. North
Augmentation Research Center
Stanford Research Institute
Menlo Park, California 94025

To:
Access Copy

9562

Suggestion to Change Locator approach to NIC Catalogs

(J9562)   17–MAR–72 11:12;   Title: Author(s): Jeanne B. North/JBN;
Distribution: Dirk H. van Nouhuys, Richard W. Watson, James C. Norton,
Beauregard A. Hardeman/DVN RWW JCN BAH; Sub–Collections: SRI–ARC; Clerk:
JBN;

Suggestion to Change Locator approach to NIC Catalogs

Dirk - Re your month-old request for suggestions about Locator:
It would seem much neater and just as useful to change the
present views of Catalog files as reached through Locator so that
statement names and numbers are off. - Jeanne   1

John S. Perry
1400 Wilson Boulevard
Arlington, Virginia 22209

To:
Access Copy

9573

geography

(J9573) 17-MAR-72 13:43; Title: Author(s): John S. Perry/JSP;
Distribution: Pam J. Klotz/PJK; Sub-Collections: NIC; Clerk: JSP;

this is an example of the formation of the paragraphs of
a business letter.   1

Thomas B. Gray
325 South Broadway
Boulder, Colorado 80302

To:
Access Copy

9579

tomstest

(J9579) 17-MAR-72 13:57; Title: Author(s): Thomas B. Gray/TBG;
Distribution: Schuyler Stevenson, Thomas B. Gray/SS TBG;
Sub-Collections: NIC; Clerk: TBG;

tomstest

start again   1

   now we should be at 1a.   1a

      third level?   1a1

      start again   1a2

   probably a new 1b.   1b

      with luck this will become 1b1.   1b1

   not sure where this will end up.

                                1c

Robert E. Doane
Rome Air Development Center (ISF)
Griffiss Air Force Base
Rome, New York 13440

To:
    Access Copy

9582

arc

(J9582)   17-MAR-72 14:01;   Title: Author(s): Robert E. Doane/RED2;
Distribution: Frank P. Mathur, Richard W. Watson/FPM RWW;
Sub-Collections: NIC; Clerk: RED2;

arc

this is a test exedute journal command,,how many characters can
be input on a line**what willl a double asterisk do to this   1

V. R. Bruffey
Seismic Array Analysis Center
813 North Royal Street
Alexandria, Virginia 22314

To:
   Access Copy

9583

A Note from SAAC

(J9583) 17-MAR-72 14:53; Title: Author(s): V. R. Bruffey/VRB;
Distribution: Barbara E. Row/BER; Keywords: saac tip; Sub-Collections:
NIC; Clerk: VRB;
Origin: <MITRE-TIP>SAACMEMO.NLS;1, 10-MAR-72 23:19 VRB ;

a belated reply

A Note from SAAC

Content of memo: 1

    The document which I tried to order as NIC #7747, is
referenced on page 12 of NIC #7954(title: UCLA/Campus
Computing Network (CCN)/IBM 360/91), which is part of
functional document NIC #6740(title: ARPA Network Resource
Notebook)), in the last sentence of paragraph VII B.   1a

    If you can figure out what document is really meant to be
referenced, I would be interested in knowing what it is.   1b

    however, SAAC is being sent an initial users library, so I
probably do not need to order it.   1c

    Thank you very much...Buz Owen..   1d

Don I. Andrews
P.O. Box 182
Occidental, California 95465

To:
　　Access Copy

9584

Note from DIA about seminars

(J9584) 17-MAR-72 15:08; Title: Author(s): Don I. Andrews/DIA;
Distribution: Michael D. Kudlick/MDK; Sub-Collections: SRI-ARC; Clerk:
DIA;
Origin: <ANDREWS>NOTE.NLS;1, 17-MAR-72 10:51 DIA ;

Note from DIA about seminars

I think your ideas on seminars are great, and I'm willing to
participate.   1

As you may or may not know, I already gave one on how the
scheduler works. I think you have the writeup that I submitted
at that time (7845).   2

I think a talk about where the system time is going might be more
appripriate. I did a little thing on the blackboard for you and
Dick one morning and you mentioned that it would be a useful
seminar.   3

I would be willing to give an expanded version of that, perhaps
with a few details about superwatch and the changes we have
made/hope to make to the system and NLS.   4

Sorry I missed the POD last Monday. See you next Wed. at 10.   5

William R. Ferguson
Stanford Research Institute
333 Ravenswood Ave.
Menlo Park, California 94025

To:
Access Copy

9585

Proposed New Format of HCDISTFILE Print-out

(J9585) 17-MAR-72 16:08; Title: Author(s): William R. Ferguson/WRF;
Distribution: William S. Duvall, J. D. Hopper, Richard W. Watson, Jeanne
B. North, James C. Norton, Charles H. Irby/WSD JDH RWW JBN JCN CHI;
Sub-Collections: SRI-ARC; Clerk: WRF;
Origin: <FERGUSON>J-HCJOUR.NLS;2, 17-MAR-72 16:04 WRF ;

Proposed New Format of HCDISTFILE Print-out

The following is a possible new format for the print-out of
HCDISTFILE after the formtting journal job has been run.

1

    Document No. 9217   Printed 2-29-72   Ver. 5   1a

                                   Master   1b

                                   Access   1c

                                   4 copies to: 1d

                                   NWG,SGC,BLP,JCN   1e

Such a format would facilitate maintaining a current reference of
what documents should have been printed for distribution. It
would also ease keeping track of who should have received these
documents.

2

If it were discovered that a journal document was missing, such a
format would also make it possible to quickly ascertain which
text file should be reprinted.

3

David H. Crocker
Computer Science Department
3732 Boelter Hall
University of California at Los Angeles
Los Angeles, California 90024

To:
Access Copy

9587

A reaction

(J9587)   17-MAR-72 17:40;   Title: Author(s): David H. Crocker/DHC;
Distribution: Dirk H. van Nouhuys, James C. Norton, Richard W. Watson,
Beauregard A. Hardeman, Cindy Page/DVN JCN RWW BAH CXP; Sub-Collections:
NIC; Clerk: DHC;

A reaction

This is just a brief note to thank you.   That I am unaffiliated
with any of the agencies you normally deal with and yet was
provided with the opportunity to experience you system makes that
experience all te more pleasant.   Thank you.   1

Executive Management Committee (ARC)
Augmentation Research Center
Stanford Research Institute
Menlo Park, California 94025

To:
    Access Copy

9588

The Situation With CIRAD Should Be Settled

(J9588)   17-MAR-72 17:36;   Title: Author(s): Executive Management
Committee (ARC)/&EMC; Distribution: Douglas C. Engelbart/DCE;
Sub-Collections: EMC; Clerk: CHI;

The Situation With CIRAD Should Be Settled

The EMC is of the opinion that we can not at this time afford the
resources to participate with the CIRAD group in their Computer
Aided Software Maintenance contract. CHI is preparing a letter
to Dr. Overton for your consideration. Have you (or do you want
to) talk to Dr. Goodenough about this?   1

Jeanne B. North
Augmentation Research Center
Stanford Research Institute
Menlo Park, California 94025

To:
    Access Copy

9589

Explanation of TIPUG Ident Problem

(J9589)   17-MAR-72 18:02;   Title: Author(s): Jeanne B. North/JBN;
Distribution: Bruce A. Dolan, Barbara E. Row, Richard W. Watson, Jeanne
B. North/BAD BER RWW NICSTA; Sub-Collections: SRI-ARC NICSTA; Clerk:
JBN;

Explanation of TIPUG Ident Problem

Bruce Dolan — Seeing BER's message to you re the unrecognizable
idents suggested the problem, which was indeed that the printout
I gave her of your message had come from the line printer when it
was out of order and turning most J's to L's. We'll try it again
on Monday and assume the idents for JWM, JJP and JBP will be
recognized, and we'll delete LBL as a member, which was
recognized and inserted by error. — Jeanne North   1

Jonathan B Postel
University of California at Los Angeles
Computer Science Department
3732 Boelter Hall
Los Angeles, California 90024

To:
    Access Copy

9592

Response to meeting request

(J9592)   20-MAR-72 19:15;   Title: Author(s): Jonathan B Postel/JBP;
Distribution: John W. McConnell/JWM; Sub-Collections: NIC; Clerk: JBP;

Response to meeting request

It looks as if March 31 is too soon for the next meeting. Perhaps
April 7 or even April 21. It is too bad we are so busy to make
rapid progress on this problem. Do you have any comments on the
documents produced ?   1

William R. Ferguson
Stanford Research Institute
333 Ravenswood Ave.
Menlo Park, California 94025

To:
    Access Copy

9593

(J9593) 21-MAR-72 11:05; Title: .HED="FIR POD's Response to "Two
Official Suggestions from the Cedar 9""; Author(s): William R.
Ferguson/WRF; Distribution: Jacques F. Vallee, Diane S. Kaye, Paul Rech,
Michael D. Kudlick, Donald R. Cone, Don Limuti, William R. Ferguson,
Priscilla Lister, Robert L. Dendy, Linda L. Lane, Marilyn F. Auerbach,
Walter L. Bass, Mary S. Church, William S. Duvall, Douglas C. Engelbart,
Beauregard A. Hardeman, Martin E. Hardy, J. D. Hopper, Charles H. Irby,
Mil E. Jernigan, Harvey G. Lehtman, John T. Melvin, Jeanne B. North,
James C. Norton, Cindy Page, Bruce L. Parsley, William H. Paxton,
Jeffrey C. Peters, Jake Ratliff, Barbara E. Row, Ed K. Van De Riet, Dirk
H. van Nouhuys, Kenneth E. Victor, Donald C. Wallace, Richard W. Watson,
Don I. Andrews/SRI-ARC; Sub-Collections: SRI-ARC; Clerk: WRF;
Origin: <FERGUSON>FIR.NLS;6, 21-MAR-72 11:00 WRF ;

At the FIR POD meting of March 7, we discussed the
recommendations of the CEDAR POD (9354,) concerning (1)
demonstrations of the system and (2) the PSO group.   1

   The members in attendance at this meeting were: CXP, RWW, JTM,
   WRF, J Vallee.   1a

   The members of FIR POD reached the following concensus on
   Suggestion 1 (demos).   1b

      1. There should be a canned set of files available for
      anyone giving a demo. (Perhaps JCN and DVN would be
      interested in helping to build this set.)   1b1

      2. Several people should be familiar with this set of
      files, and receive some instruction in how to give a demo.
      These people could take some of the load off JCN and DCE by
      giving demos for any groups that Doug and Jim didn't have
      time to do.   1b2

      3. A video tape should be made of a good demo, and saved
      for multiple purposes. Such a tape could be used for times
      when system the is down, or when the demo should not
      require much time by any individual. Perhaps even
      important visitors should see this video tape first, and
      then receive a live demo which emphasizes or clarifies some
      aspect of the system.   1b3

      4.We should have advertised demo times, such as Tues. and
      Thurs. 3-5 pm. This would facilitate scheduling of
      visitors, as hopefully, several groups of people would plan
      on arriving together, and could all be be given a demo at
      once, rather than separately.   1b4

   Suggestion 2 (PSO) received the following consensus.   1c

      1. Hire another worker to help with the clerical work. The
      job load is presently too high to be effectively handled.   1c1

      2.This new worker should not be a TIA (Temporary Institue
      Assistent). It takes too long to train such a person, and
      they leave as soon as they have finally learned the
      procedures.   1c2

      3. We discussed the PSO scheduling problem and CXP
      indicated that there wasn't a problem (PSO had already
      worked things out).   1c3

Rilla J. Reynolds
Stanford Research Institute
Artificial Intellience Group
333 Ravenswood Avenue
Menlo Park, California 94025

To:
Access Copy

9594

New Server Site

(J9594) 21-MAR-72 13:38;   Title: Author(s): Rilla J. Reynolds/RJR;
Distribution: Charles W. Rose, David W. Shipman, James A. Moorer, Stan
L. Mantiply, Rainer W. Schulz, Bob Van Tyul, Jeanne B. North, Robert L.
Dendy, John T. Melvin, Kenneth E. Victor, John W. McConnell, Peggy M.
Karp, Dan L. Murphy, Rod M. Fredrickson, Peter H. Lipman, Donald C.
Wallace, Carl M. Ellison, Ted R. Strollo/TUG; Sub-Collections: NIC TUG;
Clerk: BER;
Origin: <ROW>RJR1.NLS;2, 21-MAR-72 13:31 BER
;.TABS=10,16,24,32,40,48,56;

New Server Site

Date: March 20, 1972   1

To: Network TENEX Sites   2

From: Rilla Reynolds (SRI-AI)   3

Subject: New Server Site   4

The SRI AI PDP-10/15 system is now available for use by other
Network TENEX sites, though at present on an intermittent basis.
Two user names have been established for Network TENEX users: 5

                    (USER)   BBN
                    (PASSWORD) NET
                    (ACCOUNT) NET   6

and   (USER)   TENAR
                    (PASSWORD) ARPA
              ,   (ACCOUNT) NET   7

for users other than Bolt, Beranek and Newman. If you would like
a unique user name for your site, please call me at 326-6200,
x4618.   8

Jonathan B Postel
University of California at Los Angeles
Computer Science Department
3732 Boelter Hall
Los Angeles, California 90024

To:
    Access Copy

9595

RJE Meeting Announcement

(J9595) 21-MAR-72 14:17; Title: Author(s): Jonathan B Postel/JBP;
Distribution: James M. Pepin, Robert E. Long, Gary R. Grossman, Mark A.
Kampe, John F. Heafner, Robert L. Fink, Robert T. Braden, James E.
White, Alex A. McKenzie, Jonathan B Postel, Steve Wolfe, Charles
Holland, John W. McConnell, John Gaffney, Steve D. Crocker/RJE SDC2;
Sub-Collections: NIC RJE; Clerk: JBP;

RJE Meeting Announcement

Remote Job Entry Protocol Meeting Announcement   1

   A meeting to discuss remote job entry protocols in the arpa
   network will be held at ucla on 21 april 72. The meeting will
   begin promptly at 0930 and will run until 1600. Participants
   are urged to confirm their attendance with Bryna Lang (213
   825-2368) as soon as possible. It is suggested that
   particpants bring their copies of the relevant documents since
   it is likely that frenquent reference will be made to these
   during the meeting.   1a

   The relevant documents are: 1b

      RJS Meeting Notes
      25 February 1972
      Alex McKenzie   1b1

      Proposed Syntax for RJE Commands
      8 March 1972
      Mark Kampe   1b2

      Chuck Holland is planning to send out a alternate proposal
      for RJE commands, which should be relevant.   1b3

   Historic documents are: 1c

      RFC's 105,122,189,217,283.   1c1

   Also the Data and File Transfer Protocols are relevent.   1d

      RFC's 264,265.   1d1