To: John Iseli, MITRE; John, This isto let you know that I will be leaving CACI as of the first of the year. Dr. Janice Fain will be taking over from me as "coordinator" of Netrelated activity here. We would certainly appreciate any help you can give as Dr. Fain learns the system. Many thanks. MiKe Leavitt

1

(J21213)   27-DEC-73 06:25;   Title: Author(s): M. R. Leavitt/MRL;
Distribution: /JI JF4 WRP; Sub-Collections: NIC; Clerk: MRL;

To: Dave Walden, TIP Users Group Coordinator;   Dave, since I will be leaving CACI (and Network related activities), I would greatly appreciate it if you could replace me (mrl) as a member of the TIPUG by Dr. Janice Fain (JF4).   Many thanks, Mike Leavitt   1

(J21214)   27-DEC-73 06:31;   Title: Author(s): M. R. Leavitt/MRL;
Distribution: /DCW3 JF4 WRP; Sub-Collections: NIC; Clerk: MRL;

Emulating Command Form in SNDMSG

There are a number of occasions where we would like to send
notifications of meetings, general administrative stuff, etc. to
various groups of people. These might be working groups, or chain of
command type groups. The command form in the Journal could be used,
except the content of the messages is not worth cluttering up the
Journal, and immediate delivery is desirable. Hence the sndmsg
subsystem seems to be best. The problem comes in typing out all the
names of the recipients each time--basically we are poor typists and
lazy   1

   I know the sndmsg subsystem will take a ↑B and file name at the
   "Subject" and "Message" levels, but it will not accept this type
   of input at the "Users" level. Is there anyway we can create a
   sequential file with various addressees in it and have the "Users"
   level in the sndmsg subsystem accept it? The response I get now
   when trying this is: 1a

      ∂[sndmsg]
      Type ? for help
      Users: [↑B] (Insert file: [chain.txt;1]...EOF)
      ? FILE INPUT TERMINATED
                                                                      1a1

   If I then hit another carriage return (or any other character) I
   get the response: 1b

      DURING EPHEMERON:
      ILLEG INST 0 AT 3
      ∂   1b1

   From my limited observations, it may terminate the file input,
   because "Users" is expecting just directory names, whereas the ↑B
   also inserts the file header data. Is there any easy way we could
   get around this from a user standpoint?   1c

Emulating Command Form in SNDMSG

(J21215) 27-DEC-73 07:23; Title: Author(s): Duane L. Stone/DLS;
Distribution: /WRF DVN JHB EJK; Sub-Collections: RADC; Clerk: DLS;
Origin: <STONE>SNDMSG.NLS;1, 27-DEC-73 07:19 DLS ;

L-10 Documentatin and Person Weeks

The goals set forth in <mjournal,21195,1a are admirable and Dean a
good man to do them. The estimate in <mjournal,21195,1b1b> however
is too low if the job is to be done right.   1

L-10 Documentatin and Person Weeks

(J21216) 27-DEC-73 08:49; Title: Author(s): Dirk H. Van
Nouhuys/DVN; Distribution: /NDM CHI DCW RWW; Sub-Collections: SRI-ARC;
Clerk: DVN;

Kirk, can you add to your definition of "Link"
(documentation,help,0742:w) what a link really IS, i.e., points to a
location in some file with a particular view; especially important is
that it can address ANY FILE. I need this to make a smooth
transition from other concepts which call it. Thanks, Jeanne   1

(J21217)   27-DEC-73 11:59;   Title: Author(s): Jeanne M. Beck/JMB;
Distribution: /KIRK; Sub-Collections: SRI-ARC; Clerk: JMB;

A bug in sending BELL, sometimes

The TENEX message which says "you will be logged out in five minutes if you continue to do nothing" has BELLS sent before and after it. When these come through the network, however, they come as the two characters ↑G rather than the single character control-G. Other parts of the system (like command recognition) seem to be able to send BELLS correctly.

1

A bug in sending BELL, sometimes

(J21218)   27-DEC-73 12:54;   Title: Author(s): Alex A. McKenzie/AAM;
Distribution: /BUGS; Sub-Collections: NIC BUGS; Clerk: AAM;

A bug in sending BELL, sometimes

i encourage the implementation of compatible telnet programs, that is
telnet programs that speak both the old and new languages, as
indicated by abhay it is not difficult. my position on ftp is that
old ftp uses old telnet and new ftp uses new telnet. also i am
concerned that new ftp does not include any provision for mail, one
of the crucial user services. all in all i thought your answer to
tafts note was well done.
--jon.   1

(J21219)   27-DEC-73 13:03;   Title: Author(s): Jonathan B. Postel/JBP;
Distribution: /AWH; Sub-Collections: NIC; Clerk: JBP;

co.l thayer' messages

col thyer's messages journalized to save space

co.l thayer' messages

(MESSAGES) 1

20-OCT-73 0143-PDT THAYER: for de conde
Received 20-OCT-73 01:43:02 1a

bon giorno, Welcoe abord, Now that youknow how to do it. to
get the man's mail, go to NLS<CR>. and thentype <pj>. If that
dn't do it we ar in the qrog bsiness 1a1

20-OCT-73 0144-PDT THAYER: short messGES
cc: kennedy
Received 20-OCT-73 01:44:11 1b

SHIT 1b1

23-OCT-73 1434-PDT KENNEDY: msg for agatha
cc: kennedy
Received 23-OCT-73 14:34:33 1c

If it is now approximately 0830 on 24 oct. youre ok kid if not
-you are in big trouble. If I can help you let me know.
Remember the next thing to do is to type <nls> wait for the '*'
and then type <pj> and stand back. To sen some one a message
you must be in the tenex as shoen by the litlle 'at' sign.
type <snd> followe by a caraaige return and filll in the
blanks. when you are done conclude with a <↑z> (that's
shorthand for control z) 1c1

24-OCT-73 1309-EDT kennedy at RADC-TIP: Message for Agatha
Received 24-OCT-73 10:09:41 1d

The ARC-TENEX is not responding so I am sending this message to
you using the Bolt Beranek and Newman exec which is also on the
ARPAnet. This may look a little dumb because I am geting my
shift keys and my return keys mixed up since I am on another
machine again. 1d1

25-OCT-73 1258-PDT KENNEDY: system use
Received 25-OCT-73 12:58:08 1e

1. when the thing tells you no new logins allowed you can wait
for some other time or type 'elog thayer rht<CR> this is
express log and gives you 5 minutes to read your mess etc. 2.
If you make a mistake in typing either ignore it or use the
backspce, as many as you need, or you can delete the last word
with a control w. To review what you have left type a control
s. 3. to get a list of these type ?. 1e1

co.l thayer' messages

25-OCT-73 1603-EDT kennedy at RADC-TIP: sending messages
   Received 25-OCT-73 13:00:18   1f

   4. yes your messages have been getting through.   1f1

25-OCT-73 1612-EDT kennedy at RADC-TIP: system use
   Received 25-OCT-73 13:09:09   1g

   4. you can send a message using the sri-arc even though you are
not logged in. you should however tell people who its from. I
can tell its you because of the uppercase and the lousy typing.
Other people may not. 5. 5. an alternative is to get on to
another system ans sen a message. The best is the bb&n. to get
them insted of l2 use n. safter that it is virtually identical
except for the address. to address you for example I had to
type thayer %sri-arc. (no space) 6. Torepeat. WHEN YOU NEED
INFO ALL YOU HAVE TO DO IS TO TYPE A QUESTION MARK>..... ie. ?
just like that ?   ok?   1g1

25-OCT-73 1446-PDT KENNEDY: flow of mess's
   Received 25-OCT-73 14:46:02   1h

   when you type mess ust stand back and relax. short of breaking
it just keeps coming til they end..Why would you want to stop
them anyway? If you have a few minutes I can fix you up so
that you can read them at alater time, annd at yur liesure. If
you are referrring to a whole batch of journal mail then type a
control o to abort the one it is trying to shove at you. The
system will then go on to the next item, Or you can hit two or
three control o's to stop the whole process. Again you can do
things so that they don't automatically pop out at you, but
theat's one of the features of the system.   1h1

26-OCT-73 0648-PDT MCNAMARA: MCI
   Received 26-OCT-73 06:48:15   1i

   I have not heard anything lately on the center of expertise bit
down here.I do know from chatting with Col O,Keefe that he does
not understand what radc needs to feel as though they have a
role in life.He does not understand AFSC i would guess since he
has been in SAC his entire career.I would recommend that you
discuuss with him next week the whole bit when he is up for the
program review.It seems to me that we have to get him
emotionally involved with our programs so he can guide his
people to use our stuff or piece us out areas where we do the
whole bit.In either case he needs to be read in as he does not
understand us at all I think i may be able to help while i am
here in some discussions with him.The follow on to the BCMA
study is a good case in point.Some guy in XR is planning the

co.l thayer' messages

folloow on without any regard to radc.O.Keefe has to be
convinced that kind ofthing has to stop if we are to work
together.I don,t know if Pete talked to Larsen or not.I will
stay in touch and let you know if i here anything.   1i1

26-OCT-73 1444-PDT KENNEDY: fun?
Received 26-OCT-73 14:44:32   1j

You only think you don't need more help. Wait until you learn
more, then you'll want to learn more. Then you'll be hooked,
just like heroin, maybe worse. In addition to your typing we
have a small problem of mismatch. You type in caps and my
machine uses other things besides capsie. your capital . come
out on my machine as >. BUT, I can beat your game. I can
convert my message file into a file in my initials file using a
small program. Once there I can convert the whole thing to
lower case and read what your message reallly says. As for
competition, glas to hear it. Incidently the time sharing
system has a teaching or rather practise routine for typing if
you have a lot of time to waste sometime you can get directions
from me (?) or from Bob Walker who's scouts wrote the programs.   1j1

26-OCT-73 1453-PDT KENNEDY: your message'FUN'
Received 26-OCT-73 14:53:22   1k

,1)   1k1

26-OCT-73 1456-PDT KENNEDY: you message 'FUN' in lower case (on
my machine)
Received 26-OCT-73 14:56:59   1l

,1)   1l1

26-OCT-73 1500-PDT KENNEDY: Upper
Received 26-OCT-73 15:00:17   1m

case in nls (hit the bs instead of the shift key) When you are
in upper case in NLS the view specs are not what they should be
namely most of them dont work. This means that you get the
default condition. This in turn means that everything
EVERYTHING gets printed out. With viewspecs you can look
selectively such as - just the first line, or just the first
level. Need help???   1m1

29-OCT-73 1501-PST : work
Received 29-OCT-73 15:01:03   1n

I told you I could get moore done at home. In there I can't
even get on the system. By the way when you send messages,

3

co.l thayer' messages

Tomaini is a legitimate addressee. ie the OKeefe and other
msgs. ejk   1n1

30-OCT-73 0110-EST kennedy at RADC-TIP: test msg
Received 29-OCT-73 22:11:50   1o

this message is being sent to you using the bb&n exec. to use
it type 'n' instead of 'l 2'. when the system responds, just
type 'snd'<cr> and follow the simple directions. this isvery
useful if the other system is down. Good nite tis 0110 and i'm
pooped.   1o1

30-OCT-73 1300-PST THAYER:
Received 30-OCT-73 13:00:55   1p

TEST: YYYYY   YYYYY   1p1

30-OCT-73 1303-PST THAYER:
Received 30-OCT-73 13:03:15   1q

YYYYYYYYYYYYYYYYYYYY   1q1

31-OCT-73 1349-PST RZEPKA: Need for HIS-6180 Computeer Time
   cc: Tomaini, Iuorno
Received 31-OCT-73 13:49:43   1r

     Under Air Force Data Services Center Multics Plan(you
sshould be reeiving a final copy for signature any day now)
RADC/IS has 3 commitments   (1)   FORTRAN Validation
due date 1 Jan 1974   (2) GCOS Encapsulation Study   due
date 1 April 1974   (3) Secure Tape I/O   due date
15 June 1974 that require use of a HIS-6180/Multics(Cimmitment
#2 also requires use of a HIS-6050/GCOS). Considering these
dates and the fact that IS ddoes not yet have the machines gets
me concerned. I have to know what IS's plans are for
6180/6050; specifically, when will they arrive? Otherwise, I
must get the required macchine time(approximately 6 2-shift
days worth) elsewhere. The most likely candidate is at Data
Services . RSVP Bill Rzepka   1r1

31-OCT-73 1402-PST CAVANO: April Defense Research Group Seminar
Received 31-OCT-73 14:02:47   1s

 For the last few months I have been writing a paper entitled
"Generation of an Information System". Many of my ideas have
come about from the actual experience of designing and
implementing an integrated database for the ISI branch.
Although this work was based on IDS, these conclusions apply
directly to the WWMCCS community because IDS is forming the

basic foundation for WWDMS. I will give Mitzi a current copy
for your perusal and will supply you with an abstract shortly.
Briefly, what I am trying to do is to formulate a comprehensive
description of what an MIS is all about; what components make
it up, what its capabilities should be, what its functions are
(both from a user and a system viewpoint). Finally, I talk
about how an MIS should be generated and designed. My long
range goal with this paper is to work toward a system that
would approach self-sufficiency by having people form all
levels in the organization work on the same system. Then as
data is created and used, it can automatically be incorporated
into the database for use by other people. Incidently, some
parts of this current paper are slanted toward the proposal we
are working on for the Center MIS.   1s1

1-NOV-73 0616-PST TOMAINI: minimize
   cc: stone, cavano, kennedy, rzepka, bethke, mcnamara
   Received 1-NOV-73 06:16:51   1t

In case you didn't get the work, MINIMIZE is off...Bobbie   1t1

5-NOV-73 0633-PST MCNAMARA: MCI
   Received 5-NOV-73 06:33:39   1u

I have not had a chance to talk with o ,keefe yet but will try
to place our position in perspective as best I can.I do see
where our problem is truly Mitre.It is not that they are bad
guys,it is just that they have a strong coporate image of
technical expertise much like any other company and they do not
see any need for radc expertise ,this coupled with new peopple
involved in programs who do not know the structure of AFSC
results in a complete dependence on Mitre and no role for
RADC.The current BCMS follow on is a classic example,RADC took
part in the study,has all kinds of expertise in comminciation
as well as computers and yet a new Col in XR is merrily going
ahead with a plan drawn up by Mitre which has little or no
involvement of RADC.He is new does not know about AFSC probably
let alone RADC and as result depends entirely on Mitre.Well
thats is my positon statement for the day.Of interest is that
General Robbins will be here next friday 15 Nov to get a status
report on the study.I am to brief on the status on the
technology studies.   1u1

7-NOV-73 0815-PST TOMAINI: confessions
   cc: cavano, stone, kennedy, mcnamara, iuorno, rzepka,
lamonica,
   Received 7-NOV-73 08:15:24   1v

co.l thayer' messages

- - - - This is to let you know that Confessions will be held
on Wednesdays now instead of the usual Thursdays   ...Bobbie   1v1

7-NOV-73 0842-PST : your Problem
Received 7-NOV-73 08:42:13   1w

Col Thayer, I printed out your initials file and whoever set it
up for you got kind of messed up. Anyways,you should move your
new journal mail that is located in No. 1 and put it in No.
6   If you want to see what your file looks, I will show it to
you and how for you to move it   ...Bobbie   1w1

12-NOV-73 1138-PST KENNEDY: Col hill visit on 13 Nov
    cc: iuorno, tomaini, stone, kennedy
Received 12-NOV-73 11:38:22   1x

I am fully aware of the visit and I know that I am the OPR. As
I understand it, the visitors wil first be given a tour of the
facility (C M Breece) and then will be turned over to us for a
demo. It is my intention to input a number of goodies to the
sytem this afternoon and evening, so that they can be printed
out tomorrow. If you want to contact meat any time the system
is the most effivient way. At least four people have told me
that the colonel wants to see me.   1x1

12-NOV-73 1454-PST KENNEDY: reply to lawrence message stating
that TIP will be down until 1300 on 13 Nov.
    cc: lawrence, kennedy, iuorno, stone
Received 12-NOV-73 14:54:56   1y

Wehave avery important demonstration coming up at 1330 on 13
Nov. This leaves only a 30 minute breathing space. If the
TIP is not up and working at 1330 this leaves us in an
unfortanate situation. The demo can be a vital part of RADC's
becoming the prototype of a wired city. The alternatives are
1) give them a precanned demonstration, 2) Put off the demo
until later in the day, 3) Hold the standdown on the TIP until
Wednesday. I am proceeding on the basis of a precanned pitch.   1y1

13-NOV-73 1411-PST STONE: col hill visit
    cc: tomaini, iuorno
Received 13-NOV-73 14:11:30   1z

as of this instant I have no informattion on the visitors,
except that instead of ccoming to us they went to bldg 240.
The staff is gone, the troops hhave been dismissed and I am
resigning as focal point.   1z1

13-NOV-73 1416-PST STONE: msg on col hill visit

6

co.l thayer' messages

cc: tomaini, iuorno
Received 13-NOV-73 14:16:29   1a@

the message referenced and tthis message are both from kennedy.   1a@1

14-NOV-73 1210-PST KENNEDY: messages from and to
radc-dor@usc-isi
cc: radc-dor at USC-ISI
Received 14-NOV-73 12:10:57   1aa

Apparently we now have two way communications between runninger
and the rest of the people at radc who are on the sri-arc
system. Unfortunately this is only for messages. The Journal
mail still doesn't work I7 ll check to see if we can do that.   1aa1

15-NOV-73 1309-PST RADC-DOR at USC-ISI: AFSC(ACDO 131630ZNOV)
MSG,AFSC USE OF ARPANET FACILITIES
cc: RADC-DOR, TOMAINI at SRI-ARC, LAWRENCE at SRI-ARC,
Received 15-NOV-73 13:09:21   1ab

- - - - I AM THIS DATE IN RECEIPT OF THE SUBJECT MESSAGE WHICH
I QUOTE. "1 A DECISIONTO PROCEED WITH AFSC USAGE OF ARPANET
COMMUNICATIONS FACILITIES FOR ENHANCING AFSC ADP SUPPORT
CAPABILITY HAS BEEN MADE. THE REQUIREMENT FOR EARLY DEFINITION
OF AN AFSC PLAN TO ENTER AND USE FACILITIES OF ARPANET RESULTS
IN THE NEED FOR POTENTIAL PARTICIPANTS TOASSIST IN DEVELOPMENT
OF THE MASTER PLAN. THE PLAN WILL ADDRESS REQUIREMENTS FOR
HARDWARE, SOFTWARE AND COMMUNICATIONS, TIME PHASED FROM FY74
THGOUGH FY78 , AND WILL REFLECT COST AND EFFECTIVENESS.
ACCORDINGLY, AN AWARENESS OF ANTICIPATED WORK LOADS,
APPLICATIONS AND REQUIREMENTS IS NECESSARY. FY74 FUNDING AND
FY75 BUDGET REQUIREMENTS MUST BE IDENTIFIED AND DEFENDED BY NLT
7 DEC 73. 2.REQUEST THAT ONE OF TWO REPRESENTATIVES FROM YOUR
ORGANIZATIONS, KNOWLEDGEABLE OF SUPPORT REQUIREMENTS AND
IMPLICATIONS OF JOINING THE ARPANET, BE MADE AVAILABLE THE WEEK
OF 26 NOV 73 FOR ASSISTING IN DEVELOPMENT OF THE MASTER PLAN.
3. LT COL ERNEST MADRIL, AUTOVON 858-6400, PROJECT OFFICER,
WILL RENDER ASSISTANCE AS REQUIRED" END OF QUOTE. I WILL BE
FORWARDING THE ORIGINAL OF THIS MESSAGE TO IS FOR ACTION. IT
SEEMS ONLY APPROPRIATE TO USE THE NET TO LET YOU KNOW ABOUT IT,
ESPECIALLY SINCE IT HAS BEEN IN DO SINCE YESTERDAY. GOOD LUCK
J. RUNNINGER   1ab1

15-NOV-73 1310-PST THAYER: problems
cc: kennedy
Received 15-NOV-73 13:10:19   1ac

19 I have created a branch in your initials file called
haveread, and moved your old journal mail into it. To read

your old journal mailall you need do is to type pb.haveread\<cr\>
and then give the mw viewspec. 2)If you type half while you are
logging in you get the gibberish to cover your password. If
you do not type half you do not get the garbage AND your
password does not print out. 3) I don't know what problems you
have been having with sending messages. But the procedure is
spelled out out like this - a. type snd\<cr\> b. When it
responds, either type ? for help or type the users last name,
separate usernames with a comma do not use any spaces then type
\<cr\> c. When it asks for subject type in subject\<cr\> d. When it
asks for text type in the message. when you are finished type
in ʲz. e. if sri is down and you want to send a message type
the at sign folowed by n. this will connect you to the rsexec
at bb&n. When it finishes typing, you type snd\<cr\> and answer
the questions. 4) If you have a few minutes some time I'll
check you out on some of these procedures. from kennedy logged
in as thayer   1ac1

16-NOV-73 0700-PST TOMAINI: terminals
    cc: cavano, daughtry, liuzzi, lamonica, kennedy, panara,
stone,
    Received 16-NOV-73 07:00:01   1ad

- - - - Please be advised ISF/Marilyn Rossi/X7009 is focal
point for maintenance of all terminals in ISI. Any problems
with your machine, give her a call. dAlso, Lou
Comito/ISF/X2242 is now responsible for ordering the paper for
our terminals...Bobbie   1ad1

16-NOV-73 0714-PST PANARA: Journal main
    Received 16-NOV-73 07:14:48   1ae

Col Thayer - Your have journal mail regarding ESD/Project
5550/General Shiely funding and action to be taken on Glocal
Weather Contro D&F.   1ae1

21-NOV-73 0325-PST STONE: NLS training
    Received 21-NOV-73 03:25:54   1af

I am receiving bad vibations. I perceive that your training in
the use of NLS has been less than satasfactory..to saay the
least   It is dificult to get started, because there is so
much garbage associated with the terminal, network, and TENEX.
There's really no way around it at this time, but I would like
to chat with you sometime and here the specifics. One very
real alternative is for us to train Mizi and/or Aggie. This
should be possible now, since the Utility will be available in
the next week or so; which will relieve some of the limitations

on # of users and file space. If you're interested, give me a
cal X3857 and/or send me a message.   1af1

21-NOV-73 0650-PST CARRIER: directory
Received 21-NOV-73 06:50:56   1ag

Col Thayer, This is the third time arojnd to try to get this
message to you. I keep getting detached. Anyways, I now have
my own directory but I will still be taking care of Frank's
also. This is for your info.   1ag1

20-OCT-73 0143-PDT THAYER: for de conde
Received 20-OCT-73 01:43:02   1ah

bon giorno, Welcoe abord, Now that youknow how to do it. to
get the man's mail, go to NLS<CR>. and thentype <pj>. If that
dn't do it we ar in the qrog bsiness   1ah1

20-OCT-73 0144-PDT THAYER: short messGES
cc: kennedy
Received 20-OCT-73 01:44:11   1ai

SHIT   1ai1

23-OCT-73 1434-PDT KENNEDY: msg for agatha
cc: kennedy
Received 23-OCT-73 14:34:33   1aj

If it is now approximately 0830 on 24 oct. youre ok kid if not
-you are in big trouble. If I can help you let me know.
Remember the next thing to do is to type <nls> wait for the '*'
and then type <pj> and stand back. To sen some one a message
you must be in the tenex as shoen by the litlle 'at' sign.
type <snd> followe by a caraaige return and filll in the
blanks. when you are done conclude with a <↑z> (that's
shorthand for control z)   1aj1

24-OCT-73 1309-EDT kennedy at RADC-TIP: Message for Agatha
Received 24-OCT-73 10:09:41   1ak

The ARC-TENEX is not responding so I am sending this message to
you using the Bolt Beranek and Newman exec which is also on the
ARPAnet. This may look a little dumb because I am geting my
shift keys and my return keys mixed up since I am on another
machine again.   1ak1

25-OCT-73 1258-PDT KENNEDY: system use
Received 25-OCT-73 12:58:08   1al

co.l thayer' messages

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for some other time or type 'elog thayer rht<CR> this is
express log and gives you 5 minutes to read your mess etc. 2.
If you make a mistake in typing either ignore it or use the
backspce, as many as you need, or you can delete the last word
with a control w. To review what you have left type a control
s. 3. to get a list of these type ?.   1al1

25-OCT-73 1603-EDT kennedy at RADC-TIP: sending messages
   Received 25-OCT-73 13:00:18   1am

4. yes your messages have been getting through.   1am1

25-OCT-73 1612-EDT kennedy at RADC-TIP: system use
   Received 25-OCT-73 13:09:09   1an

4. you can send a message using the sri-arc even though you are
not logged in. you should however tell people who its from. I
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them insted of l2 use n. safter that it is virtually identical
except for the address. to address you for example I had to
type thayer %sri-arc. (no space) 6. Torepeat. WHEN YOU NEED
INFO ALL YOU HAVE TO DO IS TO TYPE A QUESTION MARK>..... ie. ?
just like that ?   ok?   1an1

25-OCT-73 1446-PDT KENNEDY: flow of mess's
   Received 25-OCT-73 14:46:02   1ao

when you type mess ust stand back and relax. short of breaking
it just keeps coming til they end..Why would you want to stop
them anyway? If you have a few minutes I can fix you up so
that you can read them at alater time, annd at yur liesure. If
you are referrring to a whole batch of journal mail then type a
control o to abort the one it is trying to shove at you. The
system will then go on to the next item, Or you can hit two or
three control o's to stop the whole process. Again you can do
things so that they don't automatically pop out at you, but
theat's one of the features of the system.   1ao1

26-OCT-73 0648-PDT MCNAMARA: MCI
   Received 26-OCT-73 06:48:15   1ap

I have not heard anything lately on the center of expertise bit
down here.I do know from chatting with Col O,Keefe that he does
not understand what radc needs to feel as though they have a
role in life.He does not understand AFSC i would guess since he
has been in SAC his entire career.I would recommend that you

co.l thayer' messages

discuuss with him next week the whole bit when he is up for the
program review.It seems to me that we have to get him
emotionally involved with our programs so he can guide his
people to use our stuff or piece us out areas where we do the
whole bit.In either case he needs to be read in as he does not
understand us at all I think i may be able to help while i am
here in some discussions with him.The follow on to the BCMA
study is a good case in point.Some guy in XR is planning the
folloow on without any regard to radc.O.Keefe has to be
convinced that kind ofthing has to stop if we are to work
together.I don,t know if Pete talked to Larsen or not.I will
stay in touch and let you know if i here anything.   1ap1

26-OCT-73 1444-PDT KENNEDY: fun?
Received 26-OCT-73 14:44:32   1aq

You only think you don't need more help. Wait until you learn
more, then you'll want to learn more. Then you'll be hooked,
just like heroin, maybe worse. In addition to your typing we
have a small problem of mismatch. You type in caps and my
machine uses other things besides capsie. your capital . come
out on my machine as >. BUT, I can beat your game. I can
convert my message file into a file in my initials file using a
small program. Once there I can convert the whole thing to
lower case and read what your message reallly says. As for
competition, glas to hear it. Incidently the time sharing
system has a teaching or rather practise routine for typing if
you have a lot of time to waste sometime you can get directions
from me (?) or from Bob Walker who's scouts wrote the programs.   1aq1

26-OCT-73 1453-PDT KENNEDY: your message'FUN'
Received 26-OCT-73 14:53:22   1ar

  ,1)   1ar1

26-OCT-73 1456-PDT KENNEDY: you message 'FUN' in lower case (on
my machine)
Received 26-OCT-73 14:56:59   1as

  ,1)   1as1

26-OCT-73 1500-PDT KENNEDY: Upper
Received 26-OCT-73 15:00:17   1at

case in nls (hit the bs instead of the shift key) When you are
in upper case in NLS the view specs are not what they should be
namely most of them dont work. This means that you get the
default condition. This in turn means that everything
EVERYTHING gets printed out. With viewspecs you can look

co.l thayer' messages

> selectively such as - just the first line, or just the first
> level. Need help???   1at1

29-OCT-73 1501-PST : work
Received 29-OCT-73 15:01:03   1au

> I told you I could get moore done at home. In there I can't
> even get on the system. By the way when you send messages,
> Tomaini is a legitimate addressee. ie the OKeefe and other
> msgs. ejk   1au1

30-OCT-73 0110-EST kennedy at RADC-TIP: test msg
Received 29-OCT-73 22:11:50   1av

> this message is being sent to you using the bb&n exec. to use
> it type 'n' instead of 'l 2'. when the system responds, just
> type 'snd'<cr> and follow the simple directions. this isvery
> useful if the other system is down. Good nite tis 0110 and i'm
> pooped.   1av1

30-OCT-73 1300-PST THAYER:
Received 30-OCT-73 13:00:55   1aw

> TEST: YYYYY   YYYYY   1aw1

30-OCT-73 1303-PST THAYER:
Received 30-OCT-73 13:03:15   1ax

> YYYYYYYYYYYYYYYYYYYY   1ax1

31-OCT-73 1349-PST RZEPKA: Need for HIS-6180 Computeer Time
   cc: Tomaini, Iuorno
Received 31-OCT-73 13:49:43   1ay

> Under Air Force Data Services Center Multics Plan(you
> sshould be reeiving a final copy for signature any day now)
> RADC/IS has 3 commitments   (1) FORTRAN Validation
> due date 1 Jan 1974   (2) GCOS Encapsulation Study   due
> date 1 April 1974   (3) Secure Tape I/O   due date
> 15 June 1974 that require use of a HIS-6180/Multics(Cimmitment
> #2 also requires use of a HIS-6050/GCOS). Considering these
> dates and the fact that IS ddoes not yet have the machines gets
> me concerned. I have to know what IS's plans are for
> 6180/6050; specifically, when will they arrive? Otherwise, I
> must get the required macchine time(approximately 6 2-shift
> days worth) elsewhere. The most likely candidate is at Data
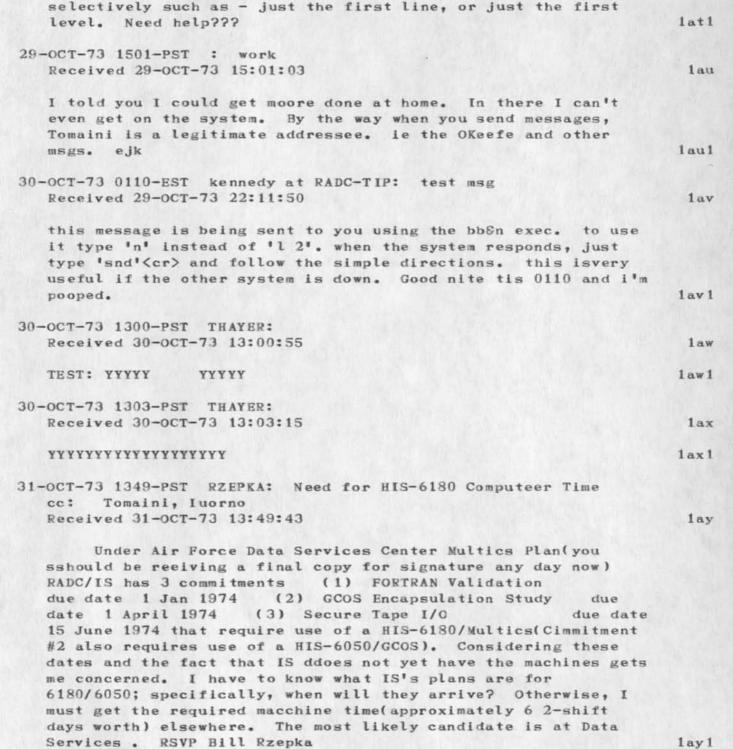> Services . RSVP Bill Rzepka   1ay1

co.l thayer' messages

31-OCT-73 1402-PST CAVANO: April Defense Research Group Seminar
Received 31-OCT-73 14:02:47   1az

20-OCT-73 0143-PDT THAYER: for de conde   1b@

bon giorno, Welcoe abord, Now that youknow how to do it. to
get the man's mail, go to NLS<CR>. and thentype <pj>. If that
dn't do it we ar in the qrog bsiness   1b@1

20-OCT-73 0144-PDT THAYER: short messGES
cc: kennedy   1ba

SHIT   1ba1

23-OCT-73 1434-PDT KENNEDY: msg for agatha
cc: kennedy   1bb

If it is now approximately 0830 on 24 oct. youre ok kid if not
-you are in big trouble. If I can help you let me know.
Remember the next thing to do is to type <nls> wait for the '*'
and then type <pj> and stand back. To sen some one a message
you must be in the tenex as shoen by the litlle 'at' sign.
type <snd> followe by a caraaige return and filll in the
blanks. when you are done conclude with a <↑z> (that's
shorthand for control z)   1bb1

24-OCT-73 1309-EDT kennedy at RADC-TIP: Message for Agatha   1bc

The ARC-TENEX is not responding so I am sending this message to
you using the Bolt Beranek and Newman exec which is also on the
ARPAnet. This may look a little dumb because I am geting my
shift keys and my return keys mixed up since I am on another
machine again.   1bc1

25-OCT-73 1258-PDT KENNEDY: system use   1bd

1. when the thing tells you no new logins allowed you can wait
for some other time or type 'elog thayer rht<CR> this is
express log and gives you 5 minutes to read your mess etc. 2.
If you make a mistake in typing either ignore it or use the
backspce, as many as you need, or you can delete the last word
with a control w. To review what you have left type a control
s. 3. to get a list of these type ?.   1bd1

25-OCT-73 1603-EDT kennedy at RADC-TIP: sending messages   1be

4. yes your messages have been getting through.   1be1

25-OCT-73 1612-EDT kennedy at RADC-TIP: system use   1bf

4. you can send a message using the sri-arc even though you are
not logged in. you should however tell people who its from.   I
can tell its you because of the uppercase and the lousy typing.
Other people may not. 5. 5. an alternative is to get on to
another system ans sen a message. The best is the bb&n. to get
them insted of l2 use n. safter that it is virtually identical
except for the address. to address you for example I had to
type thayer %sri-arc. (no space) 6. Torepeat. WHEN YOU NEED
INFO ALL YOU HAVE TO DO IS TO TYPE A QUESTION MARK>..... ie. ?
just like that ?   ok?   1bf1

25-OCT-73 1446-PDT KENNEDY: flow of mess's   1bg

when you type mess ust stand back and relax. short of breaking
it just keeps coming til they end..Why would you want to stop
them anyway? If you have a few minutes I can fix you up so
that you can read them at alater time, annd at yur liesure.   If
you are referrring to a whole batch of journal mail then type a
control o to abort the one it is trying to shove at you.   The
system will then go on to the next item, Or you can hit two or
three control o's to stop the whole process. Again you can do
things so that they don't automatically pop out at you, but
theat's one of the features of the system.   1bg1

26-OCT-73 0648-PDT MCNAMARA: MCI   1bh

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down here.I do know from chatting with Col O,Keefe that he does
not understand what radc needs to feel as though they have a
role in life.He does not understand AFSC i would guess since he
has been in SAC his entire career.I would recommend that you
discuuss with him next week the whole bit when he is up for the
program review.It seems to me that we have to get him
emotionally involved with our programs so he can guide his
people to use our stuff or piece us out areas where we do the
whole bit.In either case he needs to be read in as he does not
understand us at all I think i may be able to help while i am
here in some discussions with him.The follow on to the BCMA
study is a good case in point.Some guy in XR is planning the
folloow on without any regard to radc.O.Keefe has to be
convinced that kind ofthing has to stop if we are to work
together.I don,t know if Pete talked to Larsen or not.I will
stay in touch and let you know if i here anything.   1bh1

26-OCT-73 1444-PDT KENNEDY: fun?   1bi

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more, then you'll want to learn more. Then you'll be hooked,
just like heroin, maybe worse. In addition to your typing we

co.l thayer' messages

have a small problem of mismatch. You type in caps and my
machine uses other things besides capsie. your capital . come
out on my machine as >. BUT, I can beat your game. I can
convert my message file into a file in my initials file using a
small program. Once there I can convert the whole thing to
lower case and read what your message reallly says. As for
competition, glas to hear it. Incidently the time sharing
system has a teaching or rather practise routine for typing if
you have a lot of time to waste sometime you can get directions
from me (?) or from Bob Walker who's scouts wrote the programs.   1bi1

26-OCT-73 1453-PDT   KENNEDY: your message'FUN'   1bj

    ,1)   1bj1

26-OCT-73 1456-PDT   KENNEDY: you message 'FUN' in lower case (on
my machine)   1bk

    ,1)   1bk1

26-OCT-73 1500-PDT   KENNEDY: Upper   1bl

case in nls (hit the bs instead of the shift key) When you are
in upper case in NLS the view specs are not what they should be
namely most of them dont work. This means that you get the
default condition. This in turn means that everything
EVERYTHING gets printed out. With viewspecs you can look
selectively such as - just the first line, or just the first
level. Need help???   1bl1

20-JUL-73 1205-PDT   STONE: TYCOM terminals
    cc: kennedy, mcnamara, tomaini   1bm

The two TYCOM terminals which were scheduled for delivery this
week will not arrive until next week. The company called today
to inform me that they were built and ready to ship, but that
the individual that was to have delivered them is sick.
Expected delivery date is now 23 JULY...providing he recovers.   1bm1

21-JUL-73 0742-PDT   STONE: ARPA Funding of Utility
    cc: bair, kennedy, mcnamara, tomaini   1bn

<STONE>MESS.NLS;1, 21-JUL-73 07:35 DLS ; Date: 20-JUL-73
1424-PDT From: NORTON Re: arpa orders - - - - Al Blue ARPA
says tht the Utility ARPA order is signed (7/18) by Mr.
Tachmindji and that the 817k ARC extension was signed 7/11 by
Steve Lukasik. I assume they are on their way to RADC for fast
action. Could you check next week to see if they got to the
RADC contracting people?? Particularly the 817k extension. I

need it bad. Thanks........ (I recieved this message from Jim
Norton. It looks like the Utility buy will go as planned from
ARPA's standpoint. Procurement may have difficulty in
starting a contract by 1 SEP, but we should now have a D&F on
which to hang our portion of the Utility buy. The 817K is to
complete funding of the existing ARPA contract with SRI...D.
Stone)   1bn1

23-JUL-73 0829-PDT MCNAMARA: Sliwa
   cc: tomaini   1bo

As i understand it we need Col Thayer to make a phone call to F
DiMaggio asking to have F Sliwa to make the pitch to the
steering committee on the DMS modeling program on the 15 or 16
of August.   1bo1

23-JUL-73 1348-PDT BAIR: ARPA Net Access
   cc: stone, kennedy, mcnamara, bair, bethke   1bp

TO Stone, others for information and/or action if appropriate.
Today we experience the first of what will be an increasingly
servere problem: all TIP telephone lines in use. This has
been the case for the greater part of the day. The problem
does not reside in the Vadic line switcher, and thus is
probably due to other people external to the AHI users tieing
up lines. I have expressed my opinion to you before, but let
reiterate: Those who come into the TIP are welcome IF they get
their own lines, rather than pirating those acquired for the
specific purpose of accessing the SRI/ARC. Their are over 17
users for the ten lines now available, consequently there are
nonw to spare, particularly in the AM. Please comment.   1bp1

24-JUL-73 0616-PDT MCNAMARA: john johnson
   cc: tomaini, iuorno   1bq

What is the word on john in terms of a potential hire.He really
could help particluary on the IDS job which we have plans for
not only in relation to our GDMS program but AKW as well .We
are going to stuck without him and will have to divert some one
else if the program is to continue.   1bq1

24-JUL-73 0620-PDT MCNAMARA: DM-1
   cc: tomaini   1br

Dean Bergstrom got a call from a Lt Carlson(a hot shot computer
nut at data services)who said that ACD has formally asked
them,Data services to evaluate Dm-1 for their enviornment.Lt
Carlson had been pushing for something of this nature as he is
reasonably impressed with the design goals of the system.He

co.l thayer' messages

will be formaulting a plan and wants to come up here to
actually get on the system.   1br1

24-JUL-73 1036-PDT KENNEDY: terminet 300 and the sri/arc
    cc: mcnamara, kennedy   1bs

I am on the system in lou comito's room with nary a problem in
the world.The machine and the modem are both on full-duplex,
the all-caps and the auto l.f. keys are both to the left and i
used the standard instructions to get on.   1bs1

25-JUL-73 0735-PDT MCNAMARA: WWMC,S os releases
    cc: tomaini   1bt

Dave Daughtry recieved a call from a Mr towns at ESD who
advised him that he was working on a amendment to the contract
so RADC will become a member of the WWMC bit and recieve future
upgrades to the OS.It will be in effect for a year and should
be signed in a month.   1bt1

25-JUL-73 0816-PDT KENNEDY: access to ARPAnet   1bu

if you do not get this message or if you are unable to read it
please let me know.   1bu1

26-JUL-73 1000-PDT THAYER: in basket   1bv

read your mail from mitzi   1bv1

27-JUL-73 1034-PDT THAYER: SNDMSG
    cc: KENNEDY, MCNAMARA, STONE   1bw

WHERE THE HELL ARE ALL MY MESSAGESTHAT YOU GUYS PROMISED TO
SEND ME   1bw1

27-JUL-73 1355-PDT STONE: NLS login procedures   1bx

L OGIN PROCEDURES

<STONE>LOGIN.NLS;2, 27-JUL-73 13:52 DLS ; This file will
contain login proceedures. Prior to logging in, one should check
the switches under the cover of the Terminet-300. They should be
st to "full" and to "30". The coupler should be set to "full".
Turn the power on. The switch on the Terminet-300 is located in
the back on the right side. Turn on the power to the coupler.
The switch postion varies from coupler to coupler. Take the phone
off the hook and press it into the rubber mounts on the coupler.
Make sure that the phone cord is in the position indicated on the
coupler. Dial any of the following numbers: 4172   4173
4174   4175   4176   4177   4293   2073   4777   2884 The
phone has answered when the green READY light on the front of the
coupler comes on. If it does not come on after a reasonable wait
(30 seconds) then try anothr number. AT THIS POINT YOU ARE
CONNECTED TO THE TIP (TERMINAL INTERFACE PROCESSOR) IN THE
COMPUTER FACILITY VIA THE BASE TELEPHONE SYSTEM. You are now
ready to try for a connection to SRI via the ARPANET. Logging
into ARPANET: Hit the "e" key on the Terminet-300 to "wake up"
the TIP.   You may have to hit it several times.   The TIP
should respond with HELLO 315   You should now tell the TIP to
insert extra padding after   transmitting a carriage return to
your terminal. This is   done to avoid losing characters which
might be transmitted   during the return of the print head. You
do this by   typing @ d c 37 and hiting the "line feed" key.
This key   is marked "lf" and is in the lower right hand part of
the   main keyboard on the Terminet-300. Make sure when typing
to separate each character with a space by hitting the   "space
bar" (except 37).   Now type @ i l"lf" This tells the TIP to
Insert Linefeed   after each carriage return that you type in.
It will   1bx1

prevent the terminal from typing over top of a previous
line of text.   The third thing you have to tell the TIP is where
(to what   computer facility in the ARPANET) you wish to be
connected. Each site has an unique number. SRI's number   is
2.   You type @ l 2 "lf". You are asking the TIP please   log me
into site 2's computer. Again be sure to separate   each
character with a space.   The TIP should respond with LOGGER.
This means that   the TIP's trying to make a onnection to SRI
for you.   Very shortly after the TIP should respond further
with   T OPEN R OPEN. This means that the TIP has been
successful in opening both a Transmit and a Receive   channel
between RADC and SRI.   The SRI system should then send a
message which   indicates that it is ready to receive
commands. The   message should look something like
ARC-TENEX 1.29.00   14-JUN-72 ARC EXEC 1.38.00   @
The "@" character is your signal that you can start
giving commands to SRI's system. YOU ARE NOW READY TO LOG INTO
SRI'S EXECUTIVE SYSTEM You should type in "half" "cr". You must
identify youself to SRI's system so that they can make sure you
are a legitimate user of the system. You do this by typing:
thayer "cr" where "cr" stands for cairrage return.   the system
should then say (PASSWORD) and print a bunch of   garbage to
conceal your password.   Type your initals (rht) for the password
and hit "cr".   The system will then type (ACCOUNT #) You should
reply   with a "cr"   The system should then respond with
JOB 7 ON TTY45 17-OCT-72 8:29   The job number, tty number,
date, and time will of   course change from one login to the
next. You may   receive other messages at this time. Wait
until you   get an @.   ******if the system is
echoing, ie if your name is   printed as TTHHAAYYEERR ,
type @ e n"lf".******   1bx2

L OGIN PROCEDURES

If one of the messages said YOU HAVE A MESSAGE, just type mess "cr" and any messages you have received will be printed out. If you wish to send a message to someone, type snd"cr"....and you will be prompted on how to send a message. Another command used often is dir"cr" which will print your directory of files. To get a complete listing of all TENEX commands available over the network, just type a ? and they will be listed for you. Try several of these out. If you need further instruction, just type sys "cr" and see who at RADC is on the system. Then type link "space" and the person's last name and "cr". Your terminals will then be linked together, and you can ask questions by typing a ;...the text of your question..."cr". ******NOTE******you may receive a message like AUTOLOGOUT-----, This is sent when the potential user fails to login during the first 2 minutes after making contact with SRI. If this happens, just type c while holding down the control key. This will get the attention of the executive system at SRI and you can start again with the @thayer etc proceedure. YOU ARE NOW READY TO LOG INTO NLS NLS stands for "On Line System" and is the system that we are trying to reach. To call up this system simply type nls"cr" The system should respond with a few lines and finally give you a * It may say You Have Journal Mail CONGRATULATIONS YOU HAVE MADE IT TO NLS You can now exercise any of the commands available in NLS. One of the first things you should do each morning is to check your initials file to see if anyone has sent you a Journal message or file during the previous day. To do this type pj"cr". You are telling NLS to print Journal mail. One command you may want to use is the one that allows complete feedback from the computer whenever you type in a   1bx3

command. This is gained by typing: e v f c 30 "cr" "cr"
"cr"   What you are actually telling the computer is:
Execute Viewchange   Feedback   Characters   The
computer will respond with 0 at this point which   means you
are currently receiving zero feedback. By   typing in 30 (or
some other large number) you are   changing the feedback
characters from 0 to 30. You   must then hit several "cr"s
to get out of the Execute   Viewchange mode. (look for the *
which always means   that NLS is waiting for you to give it
another   command).   Type ? if you want to see all the
NLS commands   avaiable.   When you are finished with NLS
and ready to logout type   the command: e l "cr"
which means execute logout.   The computer will print
something like: KILLED JOB 12, USER BETHKE, ACCT 30, TTY47,
AT 11/13/72   1423 USED 0:0:40 IN 0:19:20   This means
that your job (number 12, account 30, TTY   47) was
terminated at 2:23 (pacific standard time)   on the 13th
of november, and that you used 40 sec of   CPU time in the
19 minutes and 20 seconds that you   were connected to
SRI.   You now should log off the ARPANET by typing: a
c"lf" which means close the connection to SRI.   The TIP
should respond with T CLOSED R CLOSED which   means that the
transmit and receive channels to SRI   have been closed. You
may now hang up the phone and   turn off the terminal.
REVIEW The printout on the terminal should look something like
this (the computer generated print is in CAPS and the characters
you have to put in are in lower case). e HELLO 315 a d c 37"lf" a
i l"lf" a l 2"lf" LOGGER T OPEN R OPEN ARC-TENEX 1.29.00
14-JUN-72 ARC EXEC 1.38.00 athayer"cr" (PASSWORD) #############
rht"cr" (ACCOUNT #)"cr" JOB 7 ON TTY46 17-OCT-72 8:35
amess"cr".....link......snd......sys....dir....?...etc anls"cr"
                                                          1bx4

* *pj"cr" ev   f   c = 0 30"cr""cr""cr" *pPrint bBranch
.2"cr"mw"cr" ::::::::::::other work in NLS:::::::::: *eExecute
lLogout "cr" KILLED JOB 12, USER THAYER, ACCT 30, TTY47, AT
11/13/72 1423 USED 0:0:40 IN 0:19:20 a c"lf" T CLOSED R CLOSED
                                                          1bx5
27-JUL-73 1519-PDT KENNEDY: stone, mcnamara, tomaini   1by

part 2 (continued from previous message) so i took the $50,000 and
left.   1by1

1-AUG-73 0645-PDT MCNAMARA: on line conferencing
cc: stone, kennedy, bethke   1bz

4

L OGIN PROCEDURES

I read recieved a call from a Dr Valle frome the Institute for the
future in menlo park.I met them on my last trip to menlo.They are
sponsered heavily by ARPA to explore the entire area of on line
computer aided conferencing and technoligical forecasting.They now
have a system avaible for trail use on the NET .It is called FORUM
and he invited us to use it for exposure etc.He said that all one
had to do was call him the first time we tried to recieve some aid
in the log in bit and use .They have emphazied ease of use and
pride them selves on this point.The system is on the ISI
compute(UNCAFERS)in LA.He staed they were using it constantly for
their staff meet.He mentioned Balzer at ISIwho is the big gun in
aids to programmers.Suggest soome of us try it when we get a
chance Maybe part of our section first and then if it is
intersting some larger set of the org.   1bz1

1-AUG-73 0649-PDT MCNAMARA: ColMcginnis
cc: tomaini, bethke   1c@

I have told Dean Bergstrom to interact with mac on what he needs
etc.We do have a file of rogers in nls called uo which does
describe the efforts within and overcieling.Also the form 30,s
shoe the money.I don,t know at this time when he needs the
briefing material by.Will keep you posted .   1c@1

6-AUG-73 1152-PDT KENNEDY: Training Session   1ca

I got my terminal and it doesn't work   I hope I can get one of
the new terminals that are coming in next month.Bobbie is trying
to teach me the machine in the meantime(this is Bobbie typing
it)...Dave Craig   1ca1

7-AUG-73 0759-PDT MCNAMARA: Retirement party   1cb

I have got trapped by the ESD troops but am now loose and intend
to go like mad on the lists and the letters.   1cb1

7-AUG-73 0809-PDT MCNAMARA: NLS   1cc

I see you are on ,welcome and be assured that all will go better
with time.I noticed you do not know how to get rid of journal mail
you have read which is important since you get tired of seeing the
saeme thing.Essentially all you do is move the stuff to the next
branch in your inials file.in this way it will still be there but
you will not be told you have new jounal mail.Just do the
following type mp and the system will say where,then type
.4carraige return and it will then say frome where type say
.3acarriage return it will then ask at what level by saaying L:
type d carriage reurn and it will now be in branch 4 of your
intials file which is used for journal mail which one has read.I
see I may have ran .3a and carriage return together .I meant it as
it sounds .3a and then hit a carriage return.   1cc1

17-AUG-73 0946-PDT   KENNEDY: help in the use of nls
    cc: bethke   1cd

    do you have or do you want command summaries, userguides, or
    personal assistance?? i am at your disposal virtually anytime
    between 0900 and 1800. please snd msg.   1cd1

17-AUG-73 1326-PDT   MCNAMARA: MPS
    cc: bethke   1ce

    D Stone had a chat with T Lawerence and he indicated that to his
    surprise that MPS is of warmed over version of many of the
    features allready resolved in the ARPA net and that their version
    was not to warm.They had never heard of the net for instance.I
    would suggest a debriefing for Tom since he is kind of quite and
    one might not hear this kind of infor if he isn,t asked directly.
                                                             1ce1

20-AUG-73 1405-PDT   PANARA: D&F Plasma Display P5550
    cc: bethke   1cf

    Lt Col McGinnis called me at 1630, 20Aug73 and informed me that
    the D&F was signed on 17Aug73. Please relay to Mr Loreto.   1cf1

20-AUG-73 1423-PDT   THAYER: loginprocedures
    cc: kennedy   1cg

    if you can read this then you dont7 need to. to login you must use
    rht not rht2   1cg1

21-AUG-73 0654-PDT   MCNAMARA: retirement party   1ch

We are to meet with the committee today t finalize the list of
dignataries.The lettes are written so they should then go
quickly.We have the list of commanders so are ready to go on
those.This is a neat way to keep you involved or abreast on the
party so I will continue to send you messages etc.I don,t think we
have talked to bb on the date.Are you going to or if you can not
who should?   1ch1

21-AUG-73 0703-PDT MCNAMARA: messages to all ID,s   1ci

There is no way in Tenex level to send a message to all ID,s other
than type all last names.Tenex deals in last names not ID,s. In NLS
however there is a way which can be done .We will have to make it
part of ypur course.   1ci1

24-AUG-73 0756-PDT : messages   1cj

a cute little twerp from samoa had a cock of one inch and no moa.
it was good for keyholes   and debutantes' peeholes but not worth
a damn on a whoa.   1cj1

27-AUG-73 1359-PDT : reward for login   1ck

There once was a girl named Priscilla Whose vagina was flavored
vanilla.   The taste was so fine   Man and beast stood in line
(Including a stud armadilla).   1ck1

28-AUG-73 0710-PDT CAVANO: Farewell Party for James Bair
cc: bethke   1cl

 Friday, August 31, there will be a noontime luncheon for Jim Bair
at Patty's Stagecoach Inn. Cost is $3 and that includes tip and
gift and food. I hope you will be able to attend. Please contact
me, however, one way or another ASAP. Thanks...JPC   1cl1

28-AUG-73 0808-PDT THAYER: cumulation of frustration - partial cure
cc: mcnamara   1cm

this is from ejk logged in as thaayer. ref your several messages:
to get help in the send message mode of the tenex, you can type
'?' at three phases; 1) when it tells you at the beginning when it
asks for users: 2) when it asks for the subject.3) when it asks
for message.   1cm1

28-AUG-73 0814-PDT THAYER: journal mail
cc: mcnamara   1cn

L OGIN PROCEDURES

from ejk logged in as thayer: i have taken care of your journal
mail. in addition i have taken the liberty of constructing for you
an initials file which can be useful when you finally get around
to it. it can serve as a master file of things that you need
access to quickly and in the absence of help ie. saturday nite. to
see what i mean, log on, then after you have a job number type
'nls'. when you get the asterisk type 'p' 'p'.1, followed by two
carriage returns. i remain available at your convenience to lead
you further into the labyrinth — and out the other side.   1cn1

28-AUG-73 0827-PDT THAYER: blown messages
cc: mcnamara   1co

MESSAGE.TXT;T i inadvertantly printed out your message file — this
is an attempt to replicate.   1co1

28-AUG-73 0835-PDT THAYER: broadcasting messages
cc: mcnamara   1cp

the best way to reach everyone is by means of the journal system.
in order to this, you must first be in NLS. then type 'E' 'J' for
execute journal, then 'S' 'M' for submit message,(both of these of
course followed by 'cr' as in carrieage return. then type 'I' as
in interrogate and the system will ask qquestions for you to
answer. when it asks you for I= just type'RADC' followed by 'CR'.
when in doubt just sue the carriage return. IF YOU WANT HELP SEE
ME or CALL ME. EJK   1cp1

29-AUG-73 1229-PDT KENNEDY: help on nls
cc: mcnamara   1cq

for rht I have been thinking about your statement to the effect
that you would like about four hours training on Saturday nite. If
you let me know in advance I can be available this Sat or Sun
afternoon or evening to give you some personalized instruction.
please advise prior to 1800 on 31 aug. If you have other plans any
other weekend will do it.   1cq1

31-AUG-73 1447-PDT : reward for login
cc: bethke   1cr

A physical fellow named fisk could screw at a rate very brisk.
so fast was his action the Fitzgerald contraction would shrink up
his rod to a disk.   1cr1

7-SEP-73 0614-PDT TOMAINI: tickler
cc: kennedy, mcnamara, cavano, stone, bethke, rzepka, bergstrom,
                                                                  1cs

- - - - I sent everyone via journal the tickler file of the week
for 10sep. Please ignore it as the info is incorrect. Will get
another one to you ASAP. Sorry about that   Bobbie   1cs1

7-SEP-73 1320-PDT KENNEDY: help   1ct

I sent you a primer via journal mail, if you want it, I can come
in and help you Sat pm. Call me at 337-5162. Give me about an
hour leadtime.   1ct1

11-SEP-73 1041-PDT MCNAMARA: mcnamara
      cc: tomaini, bethke, stone, kennedy   1cu

Guess what i am hear is sunny Boston.I got into the net on the
first try which must be some kind of omen.i also notice that i am
running out of paper and left the extra rolls at 12
Chestnut,Clinton which is intersting.i hope Major Schell has some
with his terminal.I will crete a file on the study and send you
updates as things progress.the file name will be sadpr 85
(original thinking on my part)I did not recieve any mail which
makes me lonsome allready,so don,t forget the irishman down here
in Boston.   1cu1

12-SEP-73 0544-PDT MCNAMARA: radc mis   1cv

I have not heard any feedback on your and al,s pitch to the
commander,How did you make out?I an now on the sytem in fact will
probably be able to be on it more here than at home.   1cv1

13-SEP-73 1446-PDT KENNEDY: another one
      cc: mcnamara, bethke   1cw

a bather whose clothing was strewed by breezes that left her quite
nude,   saw a man come along   and, unless i am wrong, you
expected this line to be lewd.   1cw1

2-OCT-73 0758-PDT MCNAMARA: MCI
      cc: tomaini   1cx

For your info i guess,I went to a beer and clam blast this past
weekend down here and found that MCI is all excited about the fact
they have some where around 40 to 8+slots.They are going to hire
in increments and will fill them on a 50-50 bases.It sure does not
sound to exciting to me though i really don,t know what it means
to me.I just thought it was worth passing on.I have a plan about
worked out or i should say in the system which i will send to you
in the next day or two which wll show who is doing whaat to who.
                                                               1cx1
3-OCT-73 1436-PDT GUEST: BSA   1cy

     from Stinson I need the names and telephone numbers of your
     cubmaster and committee chairman   1cy1

     9-OCT-73 0559-PDT   MCNAMARA: HELP   1cz

     Glad to see you recieved the message.I will be at radc this
     thursday and friday to renew aquiatances .Hope to see you then
                                                                         1cz1
     11-OCT-73 0814-PDT   THAYER: sex
        cc: kennedy   1d@

     happy hour is at five   this is the time
     ....mmjuioop``poiuytrewq:;lkjhgfdsa.,mnbvcrftguikmil   1d@1

     11-OCT-73 1500-PDT   KENNEDY: Welcome   1da

ARCLOCATOR fix

Thanks for (21184,) about ARC LOCATOR and TENEX documentation. I
have made the corrections, but currently Jeanne Beck is responsible
for maintaining ARCLOCATOR.   1

21221 Distribution   1
    Douglas C. Engelbart, Dirk H. Van Nouhuys, Jeanne M. Beck,   1a

ARCLOCATOR fix

(J21221) 27-DEC-73 13:49; Title: Author(s): Kirk E. Kelley/KIRK;
Distribution: /DCE DVN(fyi) JMB (fyi); Sub-Collections: SRI-ARC; Clerk:
KIRK;

Request for information about termicettes (and something to watch out
for in replacements for termicettes).

Martin,
I would like to know if the termicettes can be made to stop on a
common character such as "e". If this were possible, it would
greatly simplify Transcription DEX. People would no longer have to
type a god damn carriage-return and a line-feed at the end of each
line nor, what is almost as bad, explain what happens to that
carriage-return line-feed, why it is necessary, etc. Also, it would
open the way to eliminate the need for a special character at the end
of each statement. It might just make DEX useable.   1

Request for information about termicettes (and something to watch out for in replacements for termicettes).

(J21222)   27-DEC-73 14:11;   Title: Author(s): Kirk E. Kelley/KIRK; Distribution: /MEH; Sub-Collections: SRI-ARC; Clerk: KIRK;

Offer to create a group ident: SCHOLAR

I would like to help the SCHOLAR group establish a group ident:
SCHOLAR for Journal distribution and cataloging conveniences. This
would make it easier, for example, to send ARC-NIC CAI items of
interest to the people in SCHOLAR. Also, the group ident SCHOLAR
could be added to the list of members in the ARPANET Computer Based
Instruction Group (CBIG). In this way, every member of SCHOLAR would
automatically receive Journal documents distributed to CBIG. If you
have any objections, or suggestions for a name other than SCHOLAR, or
suggestions for the coordinator (AMC or MCG?), or names of people who
should be on the membership list, please let me know. Currently I
have the following candidates for membership: LEG, MCG, AMC, and
JJP2.   1

21223 Distribution   1
    Laura E. Gould, Mario C. Grignetti, Allan M. Collins, Joseph J.
    Passafiume, Dirk H. Van Nouhuys, Computer Based Instruction Group ,
                                                                              1a

Offer to create a group ident: SCHOLAR

(J21223)   27-DEC-73 14:33;   Title: Author(s): Kirk E. Kelley/KIRK;
Distribution: /LEG MCG AMC JJP2 DVN &CBIG; Sub-Collections: SRI-ARC
CBIG; Clerk: KIRK;

DSS: New Journal Features under Consideration

Dialog Support System: New Journal Features Under Consideration   1

  SYSTEM-DETERMINED DELIVERY MODE   1a

    I propose letting the system decide whether a submission gets
    delivered directly into the recipient's initial file or gets
    stored away as a separate file. The system will make the
    distinction by size in NLS characters.   1a1

  SUBMISSION -   1a2

    The system will set the special message/file/hardcopy flag
    in JWORKIDENT to indicate direct delivery if the submission
    is <= <variable> characters. I suggest we start with
    variable = 1000. If greater than that size, indirect
    (citation only) delivery will be done.   1a2a

  DELIVERY -   1a3

    The system will handle messages as "plexes" rather than
    single statements. (They will still be placed in the usual
    message files.)   1a3a

    The citation will look just like a normal file citation with
    the text inserted as the plex below it.   1a3b

  UNRECORDED SUBMISSION   1b

    I propose a simple implementation of unrecorded message or file
    submissions.   1b1

    SUBMISSION -   1b1a

      A new sub-command from the user: UNRECORDED.   1b1a1

      The submission code then drops out the usual <tejournal>
      file but with a number = "00000".   1b1a2

      NOTE: If the submitted item exceeds the system standard
      maximum size for direct initials file (message) delivery,
      the user will be informed and will have to choose to have
      recorded or not send it at all. Eventually, we can
      expand this to handle unrecorded FILE submission with
      indirect delivery. (Currently, there are problems we
      haven't solved in this area.)   1b1a3

    DELIVERY -   1b1b

      On detection of the special number, the system bypasses

number assignment, the copy into a permanent file, and
the cataloging.   1b1b1

When building DISTFILE, the system creates a branch in
DISTFILE having a special name and containing a link to
the <tejournal> file instead of to a <Journal> file.
Delivery consists of copying the <tejournal> file
directly into the initials file as the subplex to a
citation which has no "Location:" line. This is similar
to long messages.   1b1b2

Provision has to be made for the <tejournal> file staying
around indefinitely if delivery is postponed due to a
busy initials file.   1b1b3

While immediate delivery is extremely desirable, we still need
to go through the background job given our current state of
development, thus causing unrecorded mail to be "deferred" just
as recorded is now.   1b2

EXAMPLES   1b3

Example of recorded citation for a file (this will not
change)   1b3a

    HGL 6-JUN-73 15:49   17069
    NLS File Structure: Documentation
    Location: (GJOURNAL, 17069, 1:w)

                                                         1b3a1

        Comments: This document was sent recorded and was too
        long for direct delivery.   1b3a1a

                                                         1b3a2

Example of recorded citation for direct delivery   1b3b

    HGL 6-JUN-73 15:49   17470
    NLS File Structure: Documentation
    Location: (JOURNAL, JRNL12, J17470:wg)   1b3b1

    plex here is text of document   1b3b1a

        plex here is text of document   1b3b1a1

    plex here is text of document   1b3b1b

        Comments: This document was sent recorded and was
        short enough for direct delivery, but you now have a

good link for viewing the message if you wish to take
it.   1b3b1c

                                                                 1b3c

Example of unrecorded citation (direct delivery only)   1b3d

HGL 6-JUN-73 15:49   unrecorded
NLS File Structure: Documentation
                                                                 1b3d1

NLS files...   1b3d1a

    First of all...   1b3d1a1

Besides which...   1b3d1b

In conclusion, it...
                                                                 1b3d1c

Comments: This document was sent without recording.   1b3d1d

21224 Distribution   1
   Charles H. Irby, Richard W. Watson, J. D. Hopper, James E. (Jim)
   White, Douglas C. Engelbart, Donald C. (Smokey) Wallace,   1a

DSS: New Journal Features under Consideration

(J21224) 27-DEC-73 15:34; Title: Author(s): Diane S. Kaye/DSK; Distribution: /CHI RWW JDH(comments?) JEW DCE DCW; Sub-Collections: SRI-ARC; Clerk: DSK; Origin: <KAYE>UNRECORDED.NLS;9, 27-DEC-73 15:31 DSK ;

Visitlog 10 DEC 73, Fred Lakin

I'd be interested in your reaction to this little tidbit.

Visitlog 10 DEC 73, Fred Lakin

Visitlog 10 DEC 73   1

    Fred Lakin, 218 Waverly St., Apt. C, Palo Alto,   Phone: 328-8213,
    in Group Display Research   1a

    Fred Lakin was refered to me by DCE for a demonstration and tour
    of ARC. He received the demo, but was more interested in the use
    of any kind of display device, whether computer driven or simply a
    blackboard. He photographed all the grease boards, bullitin
    boards, charts, wallhangings, etc. he could find. Although he
    emphasized people at displays, I got the feeling that large,
    relatively static "windows" were his concern rather than small
    highly dynamic "windows" such as NLS provides.   1b

    Although unemployed at the moment, he combined an interesting
    backround in history and then art at Stanford (MA) into the
    practical exploitation of graphic arts for flexible, large scale
    displays. He has one technique using wax backed paper cards to
    represent ideas which can be displayed in a relational framework,
    and a compendium of display techniques. He left 3 wax cards.
    (Note: he had been to ARC some 2 years earlier.)   1c

James C. Norton, Douglas C. Engelbart, Richard W. Watson, Dirk H. Van
Nouhuys, Michael D. Kudlick, Paul Rech,   1a

Visitlog 10 DEC 73, Fred Lakin

(J21225) 27-DEC-73 15:38;   Title: Author(s): James H. Bair/JHB;
Distribution: /JCN DCE RWW DVN MDK PR; Sub-Collections: SRI-ARC; Clerk:
JHB;

Telelog, 30 Nov. Utility interest: Zanner

Catching up on logging....

Telelog, 30 Nov. Utility interest: Zanner

Telecon received   1

    30 Nov., John Zanner, AFSC Data Automation, Andrews AFB, (301)
981-6400 (or Lt Col Madril). He talked to John Islei, and was
very interested in accessing the Net and ARC. He asked about
Utility rates and how billing is determined, and ports; had a
question about baud rates higher than 9600; Was going to try to
get one of RADC's slots into the Utility. I discouraged this
idea, and suggested that he consider buying a slot, to which there
was a positive response. He seemed satisfied with the info. and
mentioned collaboration with ESD and RADC.   1a

Telelog, 30 Nov. Utility interest: Zanner

(J21226) 27-DEC-73 15:52;   Title: Author(s): James H. Bair/JHB;
Distribution: /DCE JCN; Sub-Collections: SRI-ARC; Clerk: JHB;

DEC 16-22, 1973: A WEEK IN REVIEW

WEEKLY ANALYSIS REPORT: 1

2

WEEK: DEC 16 - 22, 1973 (24 HOURS/DAY) 3

4

TOTAL SYSTEM CPU: 49.173 5

6

(ARC)	CPU HRS	CON HRS	CPU/CON	% SYS	CON/CPU:1	6a
						6a1
(DOC)						6a2
(JMB)	.905	26.903	.034	1.840	29.727	6a2a
(NDM)	1.137	37.369	.030	2.312	32.866	6a2b
AUERBACH	.002	.041	.049	.004	20.500	6a2c
CAT	-	-	-	-	-	6a2d
DOCB	-	-	-	-	-	6a2e
DOCUM	.161	4.360	.037	.327	27.081	6a2f
	-----	-----		-----		6a2g
TOTAL	2.205	68.673	.032	4.483		6a2h
						6a2i
(FAC)						6a3
(RAB)	.004	.092	.043	.008	23.000	6a3a
(MEH)	.719	25.490	.028	1.462	35.452	6a3b
(JCP)	2.000	44.644	.045	4.067	22.322	6a3c
(JR)	.001	.272	.004	.002	272.000	6a3d
(EKV)	-	-	-	-	-	6a3e
HRDWRE	.012	.377	.032	.024	31.417	6a3f

DEC 16-22, 1973: A WEEK IN REVIEW

OPRATR	.312	7.752	.040	.634	24.846	6a3g
	-----	-----		-----		6a3h
TOTAL	3.048	78.627	.039	6.197		6a3i
						6a3j
(NIC)						6a4
(JDC)	.141	4.151	.034	.287	29.440	6a4a
(EJF)	.774	18.872	.041	1.574	24.382	6a4b
(CBG)	.011	.242	.045	.022	22.000	6a4c
(MDK)	.837	18.951	.044	1.702	22.642	6a4d
(MLK)	.398	18.126	.022	.809	45.543	6a4e
(JBN)	.299	9.110	.033	.608	30.468	6a4f
NETINFO	.002	.026	.077	.004	13.000	6a4g
NIC-WORK	-	-	-	-	-	6a4h
	-----	-----		-----		6a4i
TOTAL	2.462	69.478	.035	5.006		6a4j
						6a4k
(PRO)						6a5
(DIA)	.138	4.605	.030	.281	33.370	6a5a
(WRF)	1.957	8.415	.233	3.980	4.300	6a5b
(JDH)	.679	29.211	.023	1.381	43.021	6a5c
(CHI)	.426	16.665	.026	.866	39.120	6a5d
(DSK)	.525	23.065	.023	1.068	43.933	6a5e
(HGL)	1.528	16.175	.094	3.107	10.586	6a5f
(EKM)	.049	3.634	.013	.100	74.163	6a5g
(KEV)	.032	.940	.034	.065	29.375	6a5h

DEC 16-22, 1973: A WEEK IN REVIEW

(DCW)	1.314	60.408	.022	2.672	45.973	6a5i
(JEW)	.842	16.196	.052	1.712	19.235	6a5j
	-----	-----		-----		6a5k
TOTAL	7.490	179.314	.042	15.232		6a5l
						6a5m
(PSO)						6a6
(JML)	.139	7.821	.018	.283	56.266	6a6a
(BAH)	.617	19.485	.032	1.255	31.580	6a6b
(MEJ)	1.269	76.214	.017	2.581	60.058	6a6c
(KIR)	1.376	37.113	.037	2.798	26.972	6a6d
	-----	-----		-----		6a6e
TOTAL	3.401	140.633	.024	6.917		6a6f
						6a6g
(STA)						6a7
(JHB)	.102	4.871	.021	.207	47.755	6a7a
(DCE)	.664	33.473	.020	1.350	50.411	6a7b
(SRL)	.416	8.940	.047	.846	21.490	6a7c
(JCN)	.237	6.128	.039	.482	25.857	6a7d
(DVN)	.954	22.870	.042	1.940	23.973	6a7e
(PR)	.203	6.779	.030	.413	33.394	6a7f
(RWW)	.071	3.335	.021	.144	46.972	6a7g
	-----	-----		-----		6a7h
TOTAL	2.647	86.396	.031	5.382		6a7i
						6a7j
(GROUP) TOTALS						6a8

DEC 16-22, 1973: A WEEK IN REVIEW

GROUP	CPU HRS	CON HRS	CPU/CON	% SYS		
						6a8a
						6a8b
(DOC)	2.205	68.673	.032	4.483		6a8c
(FAC)	3.048	78.627	.039	6.197		6a8d
(NIC)	2.462	69.478	.035	5.006		6a8e
(PRO)	7.490	179.314	.042	15.232		6a8f
(PSO)	3.401	140.633	.024	6.917		6a8g
(STA)	2.647	86.396	.031	5.382		6a8h
	-----	-----		-----		6a8i
TOTAL	21.253	623.121	.034	43.217		6a8j
						6a8k

(STATS)   6a9

HIGHEST CPU: JCP 2.000 hrs   LOWEST CPU: JR   .001
hrs   6a9a

HIGHEST CON: MEJ 76.214 hrs   LOWEST CON: RAB   .092
hrs   6a9b

HIGHEST CPU/CON: WRF   .233   HIGHEST CON/CPU:1: JR 272.000   6a9c

                                                                                 6a9d

	CPU HRS	CON HRS	CPU/CON	% SYS	CON/CPU:1	
						6b
(NET)						6c
						6c1
TOTAL	7.729	387.612	.020	15.718		6c2
						6c3
TOP FIVE						6c4
--------						6c5
UCLA-NMC	1.031	43.384	.024	2.097	42.080	6c6

GUEST	.980	56.670	.017	1.993	57.827	6c7
UCSB	.918	23.464	.039	1.867	25.560	6c8
MITRE-TIP	.703	33.091	.021	1.430	47.071	6c9
UK-ICS	.576	30.087	.019	1.171	52.234	6c10
	-----	-----		-----		6c11
TOTAL	4.208	186.696	.023	8.558		6c12
						6c13
(SYS)						6d
SYSTEM	9.335	400.111	.023	18.984	43.478	6d1
PRINTER	6.222	150.412	.041	12.653	24.174	6d2
BACKGROUND	2.582	149.265	.017	5.251	57.810	6d3
	-----	-----		-----		6d4
TOTAL	18.139	699.788	.026	36.888		6d5
(WOR)						6e
						6e1
ENERGY	.166	11.464	.014	.338	69.060	6e2
GILBERT	-	-	-	-	-	6e3
JIMB	.093	3.468	.027	.189	37.290	6e4
MARRAH	.004	.147	.027	.008	36.750	6e5
MARTINEZ	.029	2.067	.014	.059	71.276	6e6
	-----	-----		-----		6e7
TOTAL	.292	17.146	.017	.594		6e8
						6e9
(XOX)						6f
						6f1

DEC 16-22, 1973: A WEEK IN REVIEW

(LPD)DEUTSCH	.038	.486	.078	.077	12.789	6f2
(CMG)GESCHKE	-	-	-	-	-	6f3
(JGM)MITCHELL	.006	.205	.029	.012	34.167	6f4
(EHS)SAT-WTE	.006	.123	.049	.012	20.500	6f5
(RES)SWEET	.002	.057	.035	.004	28.500	6f6
	-----	-----		-----		6f7
TOTAL	.046	.871	.053	.105		6f8
						6f9
(RAD)						6g
						6g1
NAME	CPU HRS	CON HRS	CPU/CON	% SYS	CON/CPU:1	DIR	6g2
							6g3
BERGS	.040	1.312	.030	.081	32.800	70	6g4
CARRI	.120	5.224	.023	.244	43.533	22	6g5
CAVAN	.234	11.053	.021	.476	47.235	124	6g6
DAUGH	.085	4.971	.017	.173	58.482	53	6g7
IUORN	.067	3.561	.019	.136	53.149	38	6g8
KENNE	.091	4.132	.022	.185	45.407	72	6g9
LAFOR	.026	2.002	.013	.053	77.000	27	6g10
LAWRE	.121	3.982	.030	.246	32.909	91	6g11
LIUZZ	.187	8.235	.023	.380	44.037	76	6g12
MCNAM	.027	1.334	.020	.055	49.407	95	6g13
PANAR	.130	7.987	.016	.264	61.438	103	6g14
STONE	.483	22.608	.021	.982	46.807	167	6g15
THAYE	.052	3.808	.014	.106	73.231	8	6g16

DEC 16-22, 1973: A WEEK IN REVIEW

TOMAI	.041	1.158	.035	.083	28.244	25	6g17
WINGF	.002	.095	.021	.004	47.500	10	6g18
	-----	-----		-----		-----	6g19
TOTAL	1.706	81.462	.021	3.468		981.000	6g20

(PER CENT TOTAL DISK CAPACITY)   2.014%   6g21

                                                                  6g22

                                                                    7

Susan R. Lee, Beauregard A. Hardeman, Douglas C. Engelbart, Don I. Andrews, Charles F. Dornbush, Elizabeth J. (Jake) Feinler, Martin E. Hardy, J. D. Hopper, Mil E. Jernigan, Diane S. Kaye, Kirk E. Kelley, Michael D. Kudlick, Elizabeth K. Michael, Jeanne B. North, James C. Norton, Jeffrey C. Peters, Paul Rech, Dirk H. Van Nouhuys, Kenneth E. (Ken) Victor, Richard W. Watson, James E. (Jim) White, Duane L. Stone, Thomas F. Lawrence, James H. Bair, L. Peter Deutsch, James G. Mitchell,   1a

DEC 16-22, 1973: A WEEK IN REVIEW

(J21227) 27-DEC-73 16:33; Title: Author(s): Beauregard A. Hardeman/BAH; Distribution: /WAR; Sub-Collections: SRI-ARC WAR; Clerk: BAH;

Cost Estimate for ARC Support of DEIS Teams

The following cost estimate for ARC participation in support of the DEIS project is based on the assumption that two main DEIS Project Control Centers are being established--one at SRI-Menlo Park and one at SRI-Washington-- with a third, smaller unit to operate from ARPA's NMRO office.

ARC STAFF TO PARTICIPATE

ARC will provide a Senior Professional (half time) to coordinate the overall ARC support effort. He will be deeply involved in all aspects of the NLS workshop support and in the development of appropriate methodology for its use as needed by the DEIS staff and NMRO.

We will place an experienced ARC Professional in each of the two main Centers together with one or two NLS-trained typists to provide service to the DEIS staff at each Center.

We will also provide assistance at a two-man Professional level from our ARC staff located in Menlo Park for procedure development, training, documentation and other tasks.

INITIAL SUPPORT SERVICES

We will initially provide support in the following areas:

DIALOG SUPPORT

We will assist the DEIS staff in making more effective use of the TENEX Sndmsg system and will introduce combined Sndmsg and NLS Journal user methodology.

This will include production of frequent NLS Journal indexes to the recorded DEIS dialog.

WEEKLY REPORT PREPARATION ASSISTANCE

We will assist DEIS staff in preparation of status reports to NMRO and to the DOD Committee.

LINKED CONFERENCES - SHARED SCREENS WITH SPEAKERPHONES

We will assist the separated DEIS and NMRO staffs in holding online, speakerphone-augmented conferences through provision of appropriate terminal equipment and will provide proficient NLS system users who can operate the terminals during such conferences where appropriate.

Cost Estimate for ARC Support of DEIS Teams

REPORT PRODUCTION

We will work with DEIS staff at each Center who are engaged
in report production from early draft stages through final
production, using NLS-based features and methods appropriate
to the effort.

CATALOGING OF HARDCOPY AND INDICES

When the foregoing services appear to be operating
smoothly, we will consider providing special cataloging
services for hardcopy and other material including the
production of indices to that database as it evolves.

Some very useful features already exist in NLS that will
aid in this effort. The methods to be used in their
application to DEIS staff needs will need developing and
documenting as we go along.

This is a particularly intriguing area for us and seems to
offer much potential for real help to the DEIS staff. It
would also serve as a relevant and useful example of a
potential service of a special-interest Community
Information Center.

COMPUTER SERVICE

Computer service to support this effort will be provided from the
ARPA-funded "OFFICE-1" PDP-10 TENEX computer facility connected to
the ARPANET through the Tymshare-TIP in Cupertino, California.

The number of available simultaneous job slots for this
service will be coordinated between the ARC, NMRO, and IPT
offices.

EQUIPMENT TO BE PROVIDED

We will provide appropriate terminal equipment (on a staged
basis) for effective use and demonstration of NLS technology.

This will include Delta Data displays (3), each with mouse
and keyset, T-I typewriter terminals (3) with Termicette
Magnetic tape recording features (permitting offline text
preparation for more effective use of the Utility job slots),
and Terminet terminals (2) to serve as printers for higher
quality hardcopy output than is available from the T-I
terminals.

In addition we will provide "slave" TV monitors (2) for use

Cost Estimate for ARC Support of DEIS Teams

with the displays so that larger groups of DEIS staff and their
visitors can participate in online conferencing between the
Centers.

We expect that speakerphones and telephones will be provided
by the DEIS project at each center to further augment this
online conferencing capability.

Cost Estimate for ARC Support of DEIS Teams

COST SUMMARY: Jan   6 thru June 30, 1973

    Staff   (7 people) with pb oh fee: $ 88630

        Fee included in the following:

    Equipment   22912

    Travel   9095

    Supplies   1060

    Shipping   530

    Living expenses   1749

    Subsistence   1166

    Communications   2120

    Total   incl fee   127262

Cost Estimate for ARC Support of DEIS Teams

ARC PEOPLE SUPPORT $ 88630   Jan 6 thru June 30, 1973

    ARC Staff Professional   68211

    ARC Staff Clerical   20419

    People (FT=full time)

        Professional (FT) SRI-Wash   (Meyer)

        Professional (FT) SRI Menlo Park   (van Nouhuys)

        ARC Project Management (1/2T)   (Norton,some Engelbart,Watson)

        ARC Technical Assistance (2 FT) (North,Bair,Feinler,Hardeman)

        Secretary-typist ¤[ft] sri menlo Park

        Secretary-typist (FT) SRI Menlo Park

        Secretary-typist (FT) SRI-Wash

          Secretary-typist (FT) SRI-Wash (assume furnished by DEIS)

Cost Estimate for ARC Support of DEIS Teams

EVENT SEQUENCE: First rough cut

```
Week of: Jan          Feb          Mar              Apr        May>>>>>Jun
         >> 13 20 27  3 10 17 24  3 10 17 24 31  7 14 21 28   5 >>>>> 30
```

SERVICES:

```
Dialog
Help    xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx>>>>>>>>
```

```
ARC Professionals at both
Centers    xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx>>>>>>>>>
```

```
Initial setup of
Centers    xxxxxxxx
```

```
Typing
Service    xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx>>>>>>>>>
```

```
NMRO, DEIS, ARC Meeting
at SRI          X
```

```
Information organization
Assistance        xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx>>>>>>>>>
```

```
Report Preparation
Assistance        xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx>>>>>>>>>
```

```
Bibliographic and Index
Service              xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx>>>>>>>>>
```

FACILITY:

```
T-I terminals
in use    xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx>>>>>>>>>
```

```
Terminet printer terminals
in use        xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx>>>>>>>>>
```

```
TTY mode
Displays (2) xxxxxxxxxxxxxx
```

```
Mouse-keyset
Displays     (1)>xxxxxxx(2)>xxxxxxxxxxxxx(3)>xxxxxxxxxxxxxx>>>>>>>>>
```

```
TV Monitors               ? xxxxxxxxxxxxxxxxxxxxxxxxxxx>>>>>>>>>
```

```
         >> 13 20 27  3 10 17 24  3 10 17 24 31  7 14 21 28   5 >>>>> 30
Week of: Jan          Feb          Mar              Apr        May>>>>>Jun
```

(J21228) 3-JAN-74 10:05;   Title: Author(s): James C. Norton/JCN ;
Distribution: /dce (backup data to be filed separately soon) rww jcn ;
Sub-Collections: SRI-ARC; Clerk: JCN ;
Origin: <NORTON>AENERGYPLAN.NLS;1, 31-DEC-73 14:16 JCN ;

How Ready is Documentation for the New NLS and What is Needed to
Finish.

Documenation for the NEW NLS at present consists of
<documentation,help,>   1

<documentation,Help> is about 3/4 operational. We are at the moment
beginning to put the links in the correct format to respond to query
language. When all the lniks are revised it will be open for rough
use as XNLS is now.   2

    It's roughness will lie in: 2a

      The need for editing,   2a1

      The need to fill in certain holes in the information,   2a2

        The commands have not been established in certain
subsystems, most notably the jouranl.   2a2a

        For all other subsystems the descriptions of command
functions <documentation,Help,2c> and the examples
<documentation,Help,2d> are complete.   2a2b

        There are a few other holes in the concepts section.   2a2c

      The need to adapt it to displlay NLS.   2a3

      Bugs we don't know about.   2a4

In October I wrote a detailed breakdown of the work to be done on
documentation (journal,19671,3). In terms of that breakdown we have
finished round 1 except for: 3

    parts off 3a6, and 3a1 and 3a2,   3a

    except for 3a10,   3b

    and except for parts of the language that remain undefined or
have lost definition in the mean time.   3c

I figure there is about a person-month of work to a fully operational
help data base. How long that will take on the calendar depends on
who is available and in what proportion of their time.   4

    Jeanne Beck is now workiing full time, but will be on vacation for
the next two weeks and on something like half time thereafter.
Kirk and I have each been working half time. I don't see any one
around who could help who would be free to help. Any further
reduction in the force would cause serious delays.   4a

How Ready is Documentation for the New NLS and What is Needed to
Finish.

At that time I guessed we could derive a userguide from the data base
in 16 person-weeks. I still think that,   5

How Ready is Documentation for the New NLS and What is Needed to
Finish.

DVN 28-DEC-73 10:22   21229

2

21229 Distribution   1

How Ready is Documentation for the New NLS and What is Needed to
Finish.

(J21229) 28-DEC-73 10:22; Title: Author(s): Dirk H. Van Nouhuys/DVN;
Distribution: /DIRT; Sub-Collections: SRI-ARC DIRT; Clerk: DVN;
Origin: <VANNOUHUYS>DOCSTATE.NLS;1, 28-DEC-73 10:18 DVN ;

Statement of Agreement NCA/AFCS/RADC (DRAFT)

FROM: ISIM   1

SUBJECT: Statement of Agreement between NCA and AFCS, and RADC   2

TO: AFCS/EPSR   3

This office is in general agreement with the "Statement of Agreement"
generated by AFCS. A number of points in the statement should,
however, be clarified.   4

   This agreement should be looked at as an experiment and it does
   not commit RADC in supporting AFCS for operational computer needs.   4a

   The technical assistance to be provided by RADC in this first
   relationship will be minimal. There will be no support given to
   change or modify the FEMIS software. The system, as observed by
   AFCS personnel on 29-29 Nov 1973, will be loaded for their use.
   It should be made clear that if Hq AFCS requires modifications to
   the software at some later date, AFCS will be responsible to
   provide the necessary resources.   4b

        In response to a request from NCA/DO - Projecct SORT, dated 20
Dec 1973, the RADC R&D Computer facility will provide the combined
AFCS/NCA resources requested. The resources consist of the following
items: 5

   One each - Disk Pack Drive   @ $489/Month   5a

   One each Disk Pack w/1200 links   @ $20/Month   5b

   Disk Pack Drive Maintenance   @ $72/Month   5c

   Two each High Speed Channels   @ $130/Month   5d

   Four each Modems 202C2   @ $360/Month   5e

   Projected Computer Usage   @ $3000/Month   5f

      TOTAL COST $4071/MONTH   5g

NCA/AFCS will use the software system caled "FEMIS" for their
Management Information System experiments. FEMIS is an experimental
system and therefore the RADC R&D Computer Faccility cannot guarantee
its operational status. The RADC Facility recommends that NCA/AFCS
schedule an in-house (NCS) FEMIS support programmer. This service
will be most effective during the early stages of experimentation
because that is the time when most of the software problems will
occur.   6

Statement of Agreement NCA/AFCS/RADC (DRAFT)

RADC is looking forward to working with AFCS in the solution of their
long range information processing requirements. This relationship,
which is not covered in the subject agreement will be pursued in the
form of a preliminary RADC plan for assisting AFCS in the development
of an up to date informations system.   7

(For DO signature.)   8

21230 Distribution   1
   Richard H. Thayer, Frank J. Tomaini, Rocco F. Iuorno, John L.
   McNamara,   1a

Statement of Agreement NCA/AFCS/RADC (DRAFT)

(J21230) 28-DEC-73 12:27;   Title: Author(s): Edmund J. Kennedy/EJK;
Distribution: /RHT2 FJT RFI JLM; Sub-Collections: RADC; Clerk: EJK;

Re: 21218; BELL

Alex, the bell problem is a result of the fact that user programs can
(and do) control what translations happen to control characters. The
next release of nls will allow the bell code to come through
unchanged, but I can do little about other subsystems which might
screw with it. -- Charles.   1

21231 Distribution
    Alex A. McKenzie,

Re: 21218; BELL

(J21231)   28-DEC-73 12:32;   Title: Author(s): Charles H. Irby/CHI;
Distribution: /AAM; Sub-Collections: SRI-ARC; Clerk: CHI;

Request

Please look in (UCLA-NMC,rfclynn,) and let me have any comments you
have.   Lynn Rossiter suggested H for holes relating to cards punched.
Thanks.   1

Request

(J21232)   28-DEC-73 12:34;   Title: Author(s): David H. Crocker/DHC;
Distribution: /JBP; Sub-Collections: NIC; Clerk: LYNN;