Response to 19380, <SPACE> in question answering

yes, the space inconsistency will be removed in the upcoming command
language changes.   1

19393 Distribution
Richard W. Watson, Charles F. Dornbush, James E. (Jim) White, J. D.
Hopper,

Kirk, I will look into character size 0 problems as soon a I get a
chance.

19394 Distribution
    Kirk E. Kelley,

Response to 19369

Dirk, your proposed changes look ok to me, but only usage will tell
for sure.   1

19395 Distribution
  Dirk H. Van Nouhuys,

Lisp Query

Do you know how the version of the Stanford (MIT, originally, I guess
) LISP that we run at NIH is incompatible with the UCI LISP?   The
Stanford
LISP seems to be slowing breaking.   ., ... Glenn   1

19396 Distribution
    Larry M. Masinter, D. Glenn Ricart,

Notes on Martin's Line Processor Terminals Description

Martin, after reading 16952, I (CHI) have some comments on your branch (JJournal, 16952, L5): Line Processor Terminals. I am assuming here that you were describing our needs for a display to be used with the Line-Processor.

1

1. A display width of 64 or 72 characters would be quite adaquate.

1a

2. Baud rate does not need to be switch selectable. Just one of the rates we support, preferably 2400.

1b

3. Side numeric pad is of no great value and certainly is not required.

1c

8. Clear screen can be simulated by writing blanks.

1d

9. Our current program is set up to address the cursor with four characters, but we could support more verbose addressing schemes -- we must write new MCS-4 software to do it.

1e

Note: I think we can support the SUPER BEE.

1e1

10. At present, we have no need of cursor interrogate capability.

1f

11, 12. Not needed.

1g

19397 Distribution
   Martin E. Hardy, Don I. Andrews,

1

Response to 19297, Ident System Bug

Dave, sorry for the Ident system bug you reported in 19297. I blew
it   I will try to get a fix in soon, but can't promise anything
since I am exceedingly busy. -- Charles.

1

19398 Distribution
   David H. Crocker,

Response to 19295: Calculator Conversion Project

EKM, DSK,
I like the suggestions made in 19295.   I also think that an
execution function is the right way to hande the NUM/LIT at highest
parse level. I dont think it will be all that hard.   1

19399 Distribution
   Diane S. Kaye, Elizabeth K. Michael, Charles F. Dornbush,

Typescript

Jim, the implementation of your proposed typescript facility is quite
unclear to me. Do you mean this only for tty programs or DNLS also?
-- Charles 1

19400 Distribution
    James C. Norton,

1

Output Journal Mail Command

Output Journal Mail causes the printing on our Line Printer of the
same text that you would printed on your terminal using the Print
Journal command.   1

19401 Distribution
    David H. Crocker,

Connie. I'm sending this just to show a parallel Journal-sending
feature.. I input the copy of the sndmsg I sent to you and John Perry
into an NLS file and am sending it to you this way. hmmm you maynot
get this if you aren't yet a user of NLS...but....here tis. Jim N

JCN ARPA Visit 10/10- (11?)

I plan to be at ARPA next Wednesday, Oct 10....as we discussed
recently. I hope this is still a good date. I'll be in Rome, New York
Monday, Tuesday, arriving at the Marriott Key Tuesday pm 9 or so.
I'd like to discuss the ARPA use of the NLS Utility and ARPA MIS
needs related to NLS capabilities..ok? If any problems, let me know.
I plan to stay in the area Thursday and visit NSRDC, Mitre then or
Friday. If ARPA needs Thursday from me, I'll stay..otherwise let u
get on with it.. Jim

1

19402 Distribution
   Connie K. McLindon,

Emanuel, I have sent you some text usingnls - i wonder now ifyou got
it and i repeat. Just keep trying we will get on top of this. If you
use SEX type help for help. It should be easy tu use and it is up
most of the time. I have requested info on dod facilities to help in
selecting sites. hope to see you soon .jecques.   1

(J19404)   2-OCT-73 00:04;   Title: Author(s): Marshall D. Buck/MDB;
Distribution: /WJB; Sub-Collections: NIC; Clerk: MDB;

suggestions for survey

the short term history of a hosts availability would be much more
useful if a)the time of the test rather that the number of the test
were given for each test, and b) the testes were listed in reverse
order -- that is the most recent were listed first.

1

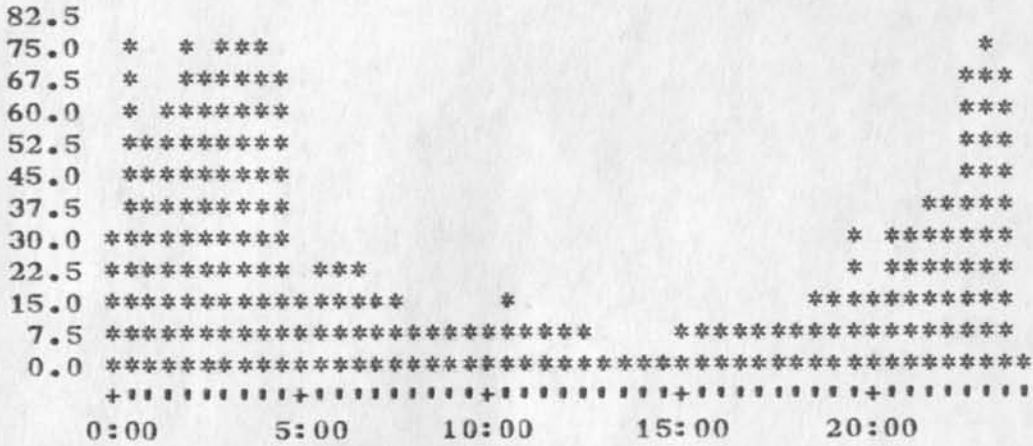19406 Distribution
   Abhay K. Bhushan,

suggestions for survey

(J19406)   2-OCT-73 07:11;   Title: Author(s): Jonathan B. Postel/JBP;
Distribution: /AKB; Sub-Collections: NIC; Clerk: JBP;

Superwatch Average Graphs for Week of 9/24/73

TIME PLOT OF AVERAGE IDLE TIME FOR WEEK OF 9/24/73
x axis labeled in units of hr:min,   xunit = 30 minutes   1

```
82.5
75.0   *   * ***                                                *
67.5   *   ******                                          ***
60.0   * *******                                           ***
52.5   *********                                           ***
45.0   *********                                           ***
37.5   ********                                          *****
30.0   **********                                   * *******
22.5   ********** ***                               * *******
15.0   ****************         *             ***********
 7.5   ****************************        *****************
 0.0   ***********************************************************
       +.........+.........+.........+.........+.........
       0:00      5:00     10:00     15:00     20:00
```
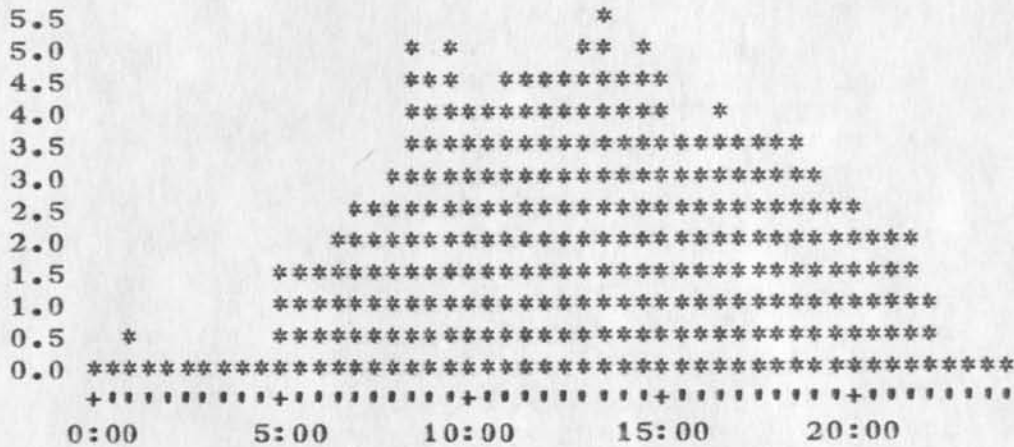   1a

TIME PLOT OF AVERAGE NUMBER OF GO JOBS FOR WEEK OF 9/24/73
x axis labeled in units of hr:min,   xunit = 30 minutes   2

```
5.5                        *
5.0                  * *      ** *
4.5                  ***  *********
4.0                  **************  *
3.5                  **********************
3.0                *********************
2.5              ****************************
2.0            ********************************
1.5          *************************************
1.0        **************************************
0.5   *    *************************************
0.0   ***********************************************************
      +.........+.........+.........+.........+.........
      0:00      5:00     10:00     15:00     20:00
```
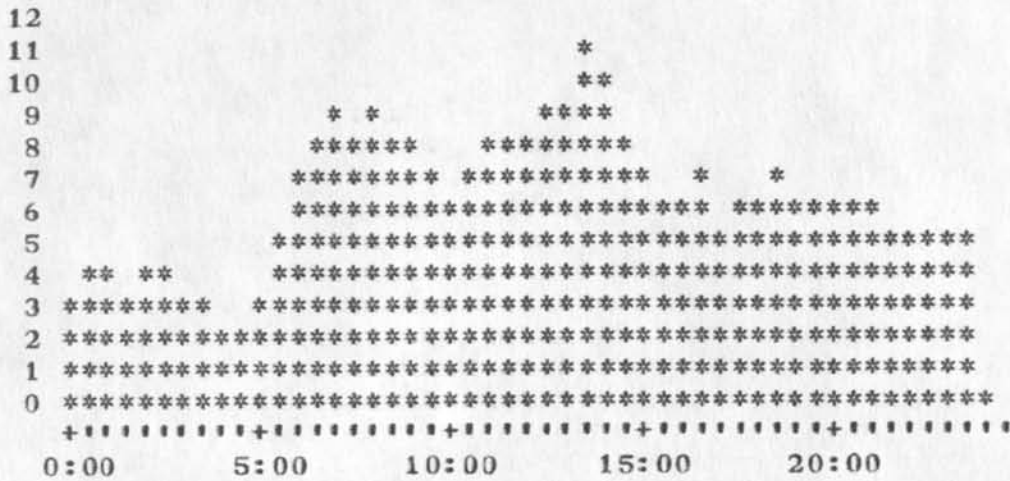   2a

1

Superwatch Average Graphs for Week of 9/24/73

TIME PLOT OF AVERAGE NUMBER OF NETWORK USERS FOR WEEK OF 9/24/73
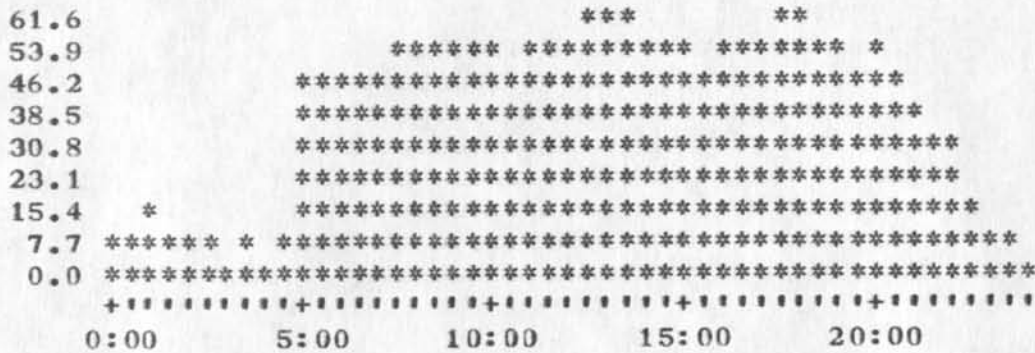x axis labeled in units of hr:min,   xunit = 30 minutes

3

```
12
11                                    *
10                                    **
 9                  * *             ****
 8                  ******       ********
 7                 ******** **********   *    *
 6                 *************************** ********
 5                 ***********************************************
 4   ** **         ***********************************************
 3 ********        ***********************************************
 2 **********************************************************
 1 **********************************************************
 0 ***************************************************************
   +''''''''''+''''''''''+''''''''''+''''''''''+''''''''''
   0:00      5:00      10:00     15:00     20:00
```

3a

TIME PLOT OF AVERAGE PER CENT OF CPU TIME CHARGED TO USER ACCOUNTS
FOR WEEK OF 9/24/73
x axis labeled in units of hr:min,   xunit = 30 minutes

4

```
61.6                      ***         **
53.9                 ****** ********* *******  *
46.2             ***********************************
38.5             **********************************
30.8             ******************************************
23.1             *****************************************
15.4    *        ***********************************
 7.7 ****** * ***********************************************
 0.0 ***********************************************************
   +''''''''''+''''''''''+''''''''''+''''''''''+''''''''''
   0:00      5:00      10:00     15:00     20:00
```
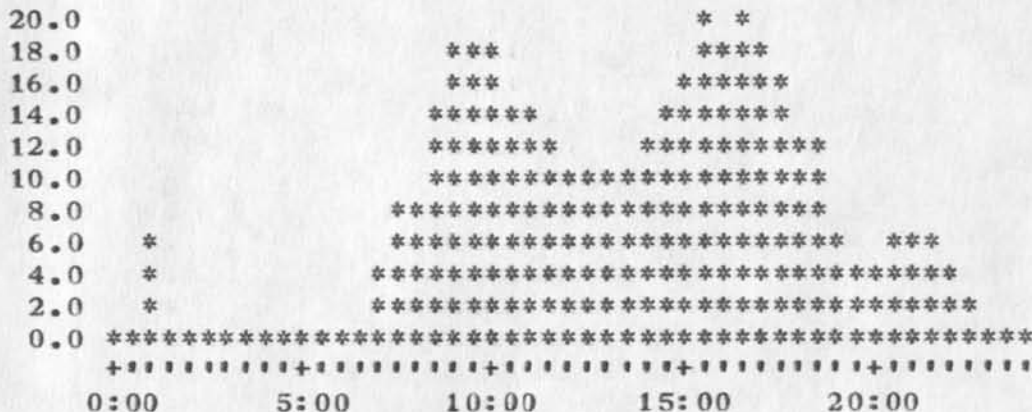
4a

Superwatch Average Graphs for Week of 9/24/73

TIME PLOT OF AVERAGE PER CENT OF SYSTEM USED IN DNLS FOR WEEK OF
9/24/73
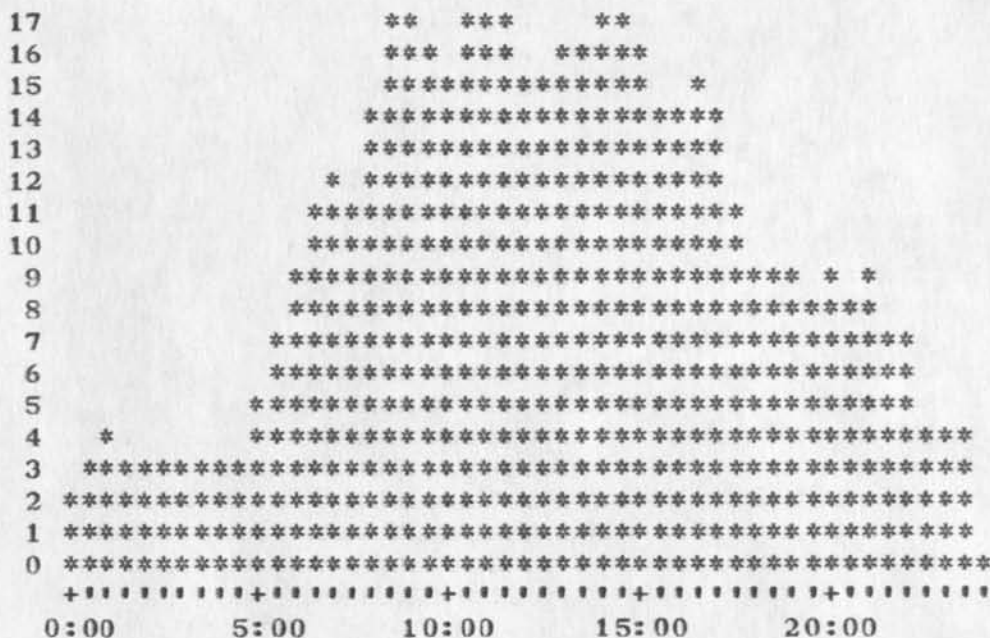x axis labeled in units of hr:min, xunit = 30 minutes   5

```
20.0                                        *  *
18.0                          ***           ****
16.0                          ***          ******
14.0                        ******        *******
12.0                        *******       **********
10.0                        **********************
 8.0                       ***********************
 6.0      *                ***********************   ***
 4.0      *                ********************************
 2.0      *                *******************************
 0.0   ***************************************************************
       +111111111+111111111+111111111+111111111+111111111
      0:00      5:00     10:00     15:00     20:00                  5a
```

TIME PLOT OF AVERAGE NUMBER OF USERS FOR WEEK OF 9/24/73
x axis labeled in units of hr:min, xunit = 30 minutes   6

```
17                          **  ***    **
16                          *** ***  *****
15                          *************   *
14                        ******************
13                        ******************
12         *            ********************
11              **********************
10              ************************
 9              ****************************  *  *
 8              *******************************
 7              *********************************
 6              **********************************
 5              ***********************************
 4      *       *************************************
 3      *****************************************************
 2   *********************************************************
 1   *********************************************************
 0   *********************************************************
     +111111111+111111111+111111111+111111111+111111111
    0:00      5:00     10:00     15:00     20:00                   6a
```

19407 Distribution
    James C. Norton, Richard W. Watson, Douglas C. Engelbart, Paul Rech,
    Donald C. (Smokey) Wallace, Jeffrey C. Peters, Dirk H. Van Nouhuys,
    Elizabeth J. (Jake) Feinler, Charles F. Dornbush, Kirk E. Kelley,
    Duane L. Stone, Beauregard A. Hardeman,

Superwatch Average Graphs for Week of 9/24/73

(J19407) 2-OCT-73 09:14;   Title: Author(s): Susan R. Lee/SRL;
Distribution: /JCN RWW DCE PR DCW JCP DVN JAKE CFD KIRK DLS BAH;
Sub-Collections: SRI-ARC; Clerk: SRL;
Origin: <LEE>WEEKGRAPHS.NLS;2, 2-OCT-73 09:09 SRL ;

Test of New Analysis Ident

There is a new ident for the analysis group which is ANALYSIS. If a
journal item is sent to it it should go to pr bah srl and into the
analysis directory's initial file. This is a test to see if it
works. If all goes well I will send a message to everyone to let
them know of the existence of this ident.

1

19408 Distribution
    A. Analysis, Paul Rech, Susan R. Lee, Beauregard A. Hardeman,

Test of New Analysis Ident

(J19408) 2-OCT-73 09:46;   Title: Author(s): Susan R. Lee/SRL;
Distribution: /ANALYSIS; Sub-Collections: SRI-ARC ANALYSIS; Clerk: SRL;

Thanks for your messages.   I tried mailing
to you at 67 but got tired and decided to use NIC.
I like your suggestion of   sending NO-OPs both
new style users and servers upon first communication.
For this to work everyone has to cooperate.   The
alternative is to bring experimental TELNET
on a different socket as as we do.
Sorry
for our server not sending GA.   We were trying the reverse
deliberately as mentioned in our RFC, ie not send GA but
do so only when requested.   After your request we have set flags
so you will receive GAs, program will negotiate for echo and suppress
GA.   try the facility on socket 69 now and report problems to me.
Thanks.   Abhay.

1

19409 Distribution
   A. Wayne Hathaway,

(J19409) 2-OCT-73 09:59; Title: Author(s): Abhay K. Bhushan/AKB;
Distribution: /AWH; Sub-Collections: NIC; Clerk: AKB;

Mose is in town

Mose Allison will be at Mandrake's on University in Berkeley from
October 3 (Wed) through the 7th (Sun). Always a fantastic show.
Advance tickets not necessary. Drop in if you're coming up. Dean   1

19410 Distribution

Donald C. (Smokey) Wallace, Richard W. Watson, Don I. Andrews,
A. Jim Blum, A. Analysis, Meredith(Reddy) E. Dively, Jeanne M.
Leavitt, Rodney A. Bondurant, Jeanne M. Beck, Mark Alexander Beach,
Judy D. Cooke, Marcia Lynn Keeney, Carol B. Guilbault, Susan R. Lee,
Elizabeth K. Michael, Charles F. Dornbush, Elizabeth J. (Jake)
Feinler, Kirk E. Kelley, N. Dean Meyer, James E. (Jim) White, Diane
S. Kaye, Paul Rech, Michael D. Kudlick, Ferg R. Ferguson, Douglas C.
Engelbart, Beauregard A. Hardeman, Martin E. Hardy, J. D. Hopper,
Charles H. Irby, Mil E. Jernigan, Harvey G. Lehtman, Jeanne B. North,
James C. Norton, Jeffrey C. Peters, Jake Ratliff, Edwin K. Van De
Riet, Dirk H. Van Nouhuys, Kenneth E. (Ken) Victor

1

Mose is in town

(J19410)   2-OCT-73 11:05;   Title: Author(s): N. Dean Meyer/NDM;
Distribution: /SRI-ARC; Sub-Collections: SRI-ARC; Clerk: NDM;

Dean-- RUNOFF documentation is on its way by U.S. Mail via MLK.
--Jim   1

19411 Distribution
   N. Dean Meyer,

RUNOFF Documentation

(J19411)   2-OCT-73 11:16;   Title: Author(s): James E. (Jim)
White/JEW; Distribution: /NDM; Sub-Collections: SRI-ARC; Clerk: JEW;

Revision tho the RCTE Revision

By Jove, I Hope we've got it

Network Working Group   D. Crocker
Request for Comments: #   4 OCT 73

NIC #

References: RFC 560, RFC 563
Categories: Protocols, TELNET, RCTE

                                                                      1

                    Corrections to RFC 560
        Remote Controlled Transmission & Echoing TELNET Option

                                                                     1a

Section 1 of the RCTE Option specification (18492,2a:gy) was supposed
to include the name and code for the option. The code was
accidentally left out. That statement should read: 2

    RCTE   7

                                                                     2a

In RFC 563 (18755,) John Davidson criticizes RCTE's apparent failure
to allow Net I/O and server computation to overlap.   3

I agree with John's criticisms and feel that the following should fix
the problem: 4

    1. Change 5.A (18492,2e1)   4a

       from: 4a1

          Overview of Interaction   4a1a

       to: 4a2

          Overview of User Terminal Printing Action & Control   4a2a

    2. Change 5.B.5.a (18492,2e2e1)   4b

from: 4b1

A Transmission character is one which REQUIRES the User Host
to transmit all text accumulated up to and including its
occurrence. (For Net efficiency, User hosts are DISCOURAGED
from sending before the occurrence of a Transmission
character).   4b1a

to: 4b2

A Transmission character is one which RECOMMENDS that the
User Host transmit all text accumulated up to and including
its occurrence. (For Net efficiency, User hosts are
DISCOURAGED from sending before the occurrence of a
Transmission character, as defined at the moment the
character is typed).   4b2a

3. Change 5.B.5.b (18492,2e2e2)   4c

from: 4c1

A Break character has the effect of a Transmission
character, but also causes the User host to stop its
print/discard action upon the User's input text, until
directed to do otherwise by another IAC SB RCTE <cmd>
command from the Serving host. Break characters therefore
define printing units. "Break character" as used in this
document does NOT mean Telnet Break character.   4c1a

to: 4c2

A Break character REQUIRES that the User host transmit all
text accumulated up to and including its occurrence and also
causes the User host to stop its print/discard action upon
the User's input text, until directed to do otherwise by
another IAC SB RCTE <cmd> command from the Serving host.
Break characters therefore define printing units. "Break
character" as used in this document does NOT mean Telnet
Break character.   4c2a

4. Change 5.B.6 (18492,2e2f)   4d

from: 4d1

    Input from the terminal is (hopefully) buffered up to the
    occurrence of a Transmission or Break character; and the
    input text is echoed or not echoed, up to the occurrence of
    a Break Character. The most recent RCTE command determines
    the echo, Transmission and Break actions.   4d1a

to: 4d2

    Input from the terminal is (hopefully) buffered into units
    ending with a Transmission or Break character; and echoing
    of input text is suspended after the occurrence of a Break
    Character and until receipt of a Break Reset command from
    the Serving host. The most recent RCTE Break reset command
    determines the Break actions.   4d2a

5. Change 5.C.4 (18492,2e3d)   4e

    from: 4e1

    to: 4e2

    Buffering Problems and Transmission vs. Printing
    Constraints: 4e2a

        There are NO mandatory transmission constraints. The
        using Using host is allowed to send a character a time,
        though this would be a waste of RCTE. The Transmission
        Classes commands are GUIDELINES, so deviating from them,
        as when the User's buffer gets full, is allowed.   4e2a1

        Additionally, the Using host may send a Break Class
        character, without knowing that it is one (as with
        type-ahead)   4e2a2

        The problem with buffering occurs when printing on the
        user's terminal must be suspended, after the user has
        typed a currently valid Break Character and until a Break
        Reset command is received from the serving host. During
        this time, the user may be typing merrily along, filling
        the printing (NOT transmission) buffer. The text being
        typed may be SENT, but may not yet be PRINTED.   4e2a3

        The more standard problem of filling the transmission
        buffer, while awaiting an ALLOC from the Serving host,
        may also occur, but this problem is well known to
        implementors and in no way special to RCTE.   4e2a4

In any case, when the buffer does fill and further text
typed by the user will be lost, the user should be
notified.

4e2a5

6. And add 5.C.5, 5.C.6, 5.C.7, 5.C.8, and 5.C.9 as follows:

4f

(5) The Serving and Using hosts must carefully synchronize
Break Class Reset commands with the transmission of Break
characters. Except at the beginning of an interaction, the
Serving host MAY ONLY send a Break Reset command in
response to the User host's having sent a Break character
as defined at that time. The Reset command may be preceded
by terminal output. This should establish a one-to-one
correspondence between then. (A <cmd> value of zero, in
this context, is interprested as a Break Classes reset to
the same class(es) as before.)

4f1

(6) Text should be buffered by the User host until the user
types a character which belongs to the transmission class
in force at THE MOMENT THE CHARACTER IS TYPED.

4f2

(7) Transmission Class Reset commands may be sent by the
Serving host at ANY TIME. If they are frequently sent
separate from Break Class Reset commands, it will probably
be better to exit from RCTE and enter regular character at
a time transmission.

4f3

(8) It is not immediately clear what the Using host should do
with currently buffered text, when a Transmission Classes
Reset command is received. The buffering is according to
the previous Transmission Classes scheme.

4f4

The Using host clearly should NOT simply wait until a
Transmission character (according to the new scheme) is
typed.

4f4a

Either the buffered text should be rescanned, under the new
scheme;

4f4b

Or the buffered text should simply be sent as a group. This
is the simpler approach, and probably quite adequate.

4f4c

(9) It is possible to define NO BREAK CHARACTERS except TELNET
control characters. This might actually be useful, as in
the case of tranmsitting on carriage-return, with the Using
host echoing.

4f5

Sending a Telnet Control Character will allow the server to
know when he may reset the Break classes, but the
mechanism is awkward and probably should be avoided.   4f5a

19413 Distribution
     Jonathan B. Postel, John Davidson,

Revision tho the RCTE Revision

(J19413) 2-OCT-73 12:19;   Title: Author(s): David H. Crocker/DHC;
Distribution: /JBP JD; Sub-Collections: NIC; Clerk: DHC;

Identifying Exactly WHAT File is Not On-Line

It's impossible to retrieve an archived Journal file, despite the
system's suggestion: 1

   File Not On-Line;
   If Archived, Use EXEC's INTERROGATE   1a

since the INTERROGATE command requires a directory name, an the user,
in general, doesn't know which one to supply.   2

It would seem there are two possible solutions: 3

   (1) Give the EXEC the capability to interrogate the Journal
   catalogs   3a

   (2) Change the NLS diagnostic to something like: 3b

      <MJOURNAL>12345.NLS Not On-Line;
      If Archived, Use EXEC's INTERROGATE   3b1

The latter seems a reasonable and easily-implemented solution.   4

19414 Distribution
    Nps Np, Richard W. Watson, Charles H. Irby,

Identifying Exactly WHAT File is Not On-Line

(J19414) 2-OCT-73 12:19;   Title: Author(s): James E. (Jim) White/JEW;
Distribution: /NP; Sub-Collections: SRI-ARC NP; Clerk: JEW;
Origin: <WHITE>NPMSG.NLS;2, 2-OCT-73 12:06 JEW ;

Checkout of TAB Fix to REL-NLS

Diane-- Is your TAB fix to REL-NLS still awaiting my checkout? If
so, I'll give it a try. Sorry for the delay. -Jim   1

19415 Distribution
   Diane S. Kaye,

Checkout of TAB Fix to REL-NLS

(J19415)   2-OCT-73 12:28;   Title: Author(s): James E. (Jim)
White/JEW; Distribution: /DSK; Sub-Collections: SRI-ARC; Clerk: JEW;

Link to HELP Feature

Dick Watson has proposed a new feature to integrate with the other "help" tools we are implementing The other tools are.   1

   - ? for immediate on-line list of choices   1a

   - automatic system prompts   1b

   - HELP system   1c

The proposed feature is for users who failed to get assistance via the other tools.   2

   In the EXEC--   2a

      Link to HELP   2a1

   In NLS--   2b

      Connect to tty HELP   2b1

   where HELP is essentially a variable name representing the username of whoever is "on duty" at the particular time.   2c

Implementation   3

   The EXEC would maintain a table or have access to a file for mapping "HELP" into a real username.   3a

   The actual LINK would then be executed.   3b

   Ken Victor estimates roughly 8 man-hours for the EXEC part of the implementation,   3c

Problems   4

   1. How do you assure that the person "on duty" would always be logged in at that time?   4a

   2. What hours, what days is the service provided?   4b

Interface to HELP   5

   The HELP system itself should crank out an appropriate message to inform users of this feature.   5a

Recommendation   6

   My personal feeling is that this appears implementable and potentially useful. As we all know, users with questions are

linking to ARCers now on a random basis and interrupting the work
of inappropriate people. And, through the use of this, we may
learn how to modify our system tools to handle the right
questions.   6a

However, our credibility gap will widen if we do this badly. We
should be sure we intend to support this service in a professional
and dependable way for an extended period of time if we advertise
it.   6b

19416 Distribution
 James C. Norton,

Link to HELP Feature

(J19416) 2-OCT-73 13:53;   Title: Author(s): Diane S. Kaye/DSK;
Distribution: /JCN(the software people are able and, apparently, willing
to implement this. Would you be willing to support it too? Please let
RWW know.); Sub-Collections: SRI-ARC; Clerk: DSK;
Origin: <KAYE>HELPLINK.NLS;3, 2-OCT-73 13:47 DSK ;

Miscellaneous Comments and Questions Answered

Some miscellaneous comments: 1

  (1) INTERRogating Journal Files   1a

    (a) As far as I can determine, document 18100 truly doesn't
    exist. It isn't on-line, it isn't archived, it doesn't appear
    in any on-line catalog, and there's no hardcopy of it in our
    files here at NIC.   1a1

    (b) In general, specifying directory <JOURNAL>, e.g.:   1a2

        INTERR <SP> <JOURNAL>18511 <CR>   1a2a

    will locate the document, regardless of the actual directory in
    which the file resides. INTERR has a list of the Journal
    directories (i.e., <AJOURNAL>, <BJOURNAL>, ...<MJOURNAL>) and
    tries each one whenever <JOURNAL> is specified.   1a3

  (2) Success of ';XNLS'   1b

    Yes, bugs do get fixed sooner or later. Hollar if any other
    problems arise.   1b1

  (3) FTPing NLS Files   1c

    Thanks for the analysis. Your suggestion of SSAVEing the file
    before transfer and GETting it afterwards is one I'd thought
    of, and in fact used before in implementing my SMFS subsystem
    for file transfer to UCSB.   1c1

    I ended up doing it that way in this case, too, and it works
    fine, though the overhead in processing time is high, and in
    general the file isn't really compressed too much, so I don't
    even benefit by decreased Network transfer time.   1c2

    Turns out I needed to make no mods to FTPSRV to accomplish the
    SSAVEs and GETs at that end; I used the general feature I
    installed for ';XNLS' [the general case is ;X <filename> /
    <parameters>, where <filename> is assumed to be a SAV file in
    <NET>). Hence, you can append ';XPACK' to a filename, which
    will compress the file if the FTP operation is RETR, and
    de-compress it if STOR.   1c3

    I was somewhat dismayed at having to write an FTP user process
    from the ground up. Seems to me it would have been appropriate
    to write the FTP subsystem in such a way that the command
    parsing routines were cleanly separable from the FTP processing
    routines. The processing routines might even have been written
    as a separate SAV file to be mapped into the subsystem's

Miscellaneous Comments and Questions Answered

address space (or that of any other user program with a need to
perform FTP work).   1c4

(4) General NLS Questions   1d

You may know about the two idents NP ('Needs and
Possibilities') and BUGS. Questions/suggestions of that type
should go there. As far as I know, there is no one appropriate
destination for questions like 'How do I do that?'.   1d1

19418 Distribution
   Robert C. Clements,

Miscellaneous Comments and Questions Answered

(J19418) 2-OCT-73 14:22; Title: Author(s): James E. (Jim) White/JEW;
Distribution: /RCC; Sub-Collections: SRI-ARC; Clerk: JEW;
Origin: <WHITE>RCCMSG.NLS;2, 2-OCT-73 14:18 JEW ;

Guidance, RADCMIS

Some additional guidance fron FJT, given verbally to ejk on 1 Oct.   1

Frank wants some decent briefing aids even though the presentation is
to the division. He wants us to get started immediately or sooner,
and to use the art shop where needed.   2

Even though the pitch is to our own people he wants it to be formal
and he wants a good job done.   3

The presentation should include a discussion of Femis. If necessary
we can use Joe Femia's services for briefings, discussions etc.   4

According to Frank, Ray Liuzzi has prepared a note on a transaction
processor that can go on line with DM-1. It can work with IDS-COBOL.
It's called WWDMS under the WWMCS. We can draft Liuzzi for
discussions etc. When WWDMS becomes viable — we can bring it into
the RADCMIS.   5

19419 Distribution
   Duane L. Stone, Roger B. Panara, Rocco F. Iuorno, Joe P. Cavano,
William P. Bethke, John L. McNamara,

Guidance, RADCMIS

(J19419) 2-OCT-73 14:33;   Title: Author(s): Edmund J. Kennedy/EJK;
Distribution: /DLS(I would have put this into your file but roger has it
locked up) RBP RFI JPC WPB(for Cap d) JLM; Sub-Collections: RADC; Clerk:
EJK;

Dispatching Users' Questions Efficiently

Why not create an ident similar to NP and BUGS, called HELP, to which
users can address questions [as opposed to suggestions or bug
reports] about use of our system [eg., 'How do I do such and such?')?
This would not only alleviate the very common problem (in my
exerience) of each person at ARC having to serve as dispatcher for
questions that he can't answer, asked of him simply because the
asking user knew his name; but it would also (I would guess) serve to
generate a data base from which holes in our user guides could be
patched.   Maybe there is such an ident already and I don't know about
it and nobody uses it (?). [Implementation Problem: There's already
a branch in the Ident File (although not an ident) called HELP.]   1

19420 Distribution
Donald C. (Smokey) Wallace, Richard W. Watson, Don I. Andrews,
A. Jim Blum, A. Analysis, Meredith(Reddy) E. Dively, Jeanne M.
Leavitt, Rodney A. Bondurant, Jeanne M. Beck, Mark Alexander Beach,
Judy D. Cooke, Marcia Lynn Keeney, Carol B. Guilbault, Susan R. Lee,
Elizabeth K. Michael, Charles F. Dornbush, Elizabeth J. (Jake)
Feinler, Kirk E. Kelley, N. Dean Meyer, James E. (Jim) White, Diane
S. Kaye, Paul Rech, Michael D. Kudlick, Ferg R. Ferguson, Douglas C.
Engelbart, Beauregard A. Hardeman, Martin E. Hardy, J. D. Hopper,
Charles H. Irby, Mil E. Jernigan, Harvey G. Lehtman, Jeanne B. North,
James C. Norton, Jeffrey C. Peters, Jake Ratliff, Edwin K. Van De
Riet, Dirk H. Van Nouhuys, Kenneth E. (Ken) Victor

Dispatching Users' Questions Efficiently

(J19420)   2-OCT-73 14:39;   Title: Author(s): James E. (Jim)
White/JEW; Distribution: /SRI-ARC; Sub-Collections: SRI-ARC; Clerk: JEW;

My Apologies

I am sorry for the collapse of the demo. Just about everything that
could go wrong seems to have. I got here about 1:05 as I thought we
were to demo at 2:00 to 2:30 and that the hour would give us time to
get set up. Our network code had gotten smashed and they had to
recycle the system. Just as the system came back the operator cut
the phone conneection. I hope the rest of the session did better.
Again my apologies to George White and yourself. Dick

1

19421 Distribution
   Jean Iseli,

My Apologies

(J19421)   2-OCT-73 14:39;   Title: Author(s): Richard W. Watson/RWW;
Distribution: /JI; Sub-Collections: SRI-ARC; Clerk: RWW;

SMFS Retrieved from Archive

Dave-- SMFSVW is back in <NEI>.   I've asked that your disk allocation
be bumped by 130 pages (the size of the file).   When that's done,
I'll copy the file over to <UCLA-NMC> and notify you.   --Jim   1

19422 Distribution
    David H. Crocker,

SMFS Retrieved from Archive

(J19422)   2-OCT-73 15:02;   Title: Author(s): James E. (Jim)
White/JEW; Distribution: /DHC; Sub-Collections: SRI-ARC; Clerk: JEW;

Reply on Billing f30602-70-c-0219

Jim relayed your question about billing for $23,000 + on
f30602-70-0219 to me and I took it up with accounting.   1

SRI cannot send its final bill on that contract until negociation of
the burden and overhead rates for 1972 is finished. The best guess
of accounting here is several months. I don't see much we can do but
let it ride until then.   2

Sorry.   3

19423 Distribution
   Roger B. Panara, Duane L. Stone, James C. Norton,

Reply on Billing   f30602-70-c-0219

(J19423) 2-OCT-73 15:40;   Title: Author(s): Dirk H. Van Nouhuys/DVN;
Distribution: /RBP DLS(fyi) JCN(fyi); Sub-Collections: RADC SRI-ARC;
Clerk: DVN;

Proposals for global/local acronyms & simple/full syntax

On Tuesday afternoon Dirk van Nouhuys and I discussed solutions to
the problems of global/local acronyms and simple/full syntax in the
command syntax presented to the user of HELP.   These questions
developed at DIRT's September 26th meeting
(Minutes--JJOURNAL,19333,).   We agreed on the following solutions
which, although further discussion may be needed, DIRT writers will
proceed to work with in writing HELP and the Command Summmary.   1

ACRONYMS   2

The following will be global acronyms, ie, they are terms which
will appear in the command syntax and which the user will learn in
the CONCEPTS branch of the HELP system.   They will not be
explained to her every time they appear in a syntax statement.   2a

STRING   2a1

STRUCTURE   2a2

LEVEL-ADJUST   2a3

VIEWSPECS   2a4

ADDRESS   2a5

TYPEIN   2a6

IDENT   2a7

OPTION   2a8

CONFIRM   2a9

The following are local acronyms; they are terms which will be
defined as part of every command syntax statement in which they
appear, and also are complex concepts which are treated in HELP's
CONCEPTS section. There will be other local acronyms which appear
one or more times in command syntax and will be defined there as
they arise.   2b

SOURCE   2b1

CONTENT   2b2

IDENTLIST   2b3

CA (Command Accept)   2b4

SIMPLE/FULL SYNTAX   3

Two versions of the syntax of each command will be offered to the
HELP user. Full syntax will include all of the options available
for that command. Simple syntax will just omit all references to
options. Options are of two types: 3a

  Ordinarily used fields which have options as alternatives; for
  example--instead of an address, sometimes you may type OPTION
  key and then type out the content.   3a1

    Note: SOURCE and CONTENT will not appear at all in simple
    syntax.   3a1a

  Fields which are merely skipped over if the option is not
  taken; for example--when copying a directory into a file, you
  may type OPTION key and then specify directory subcommands to
  modify the list; otherwise that field is simply ignored.   3a2

19424 Distribution
   Richard W. Watson, Elizabeth J. (Jake) Feinler, Harvey G. Lehtman,
   Kirk E. Kelley, Laura E. Gould, N. Dean Meyer, Jeanne M. Beck,
   Charles F. Dornbush, Dirk H. Van Nouhuys, Michael D. Kudlick, Diane
   S. Kaye, James C. Norton, Richard W. Watson,

Proposals for global/local acronyms & simple/full syntax

(J19424) 2-OCT-73 17:18; Title: Author(s): Jeanne M. Beck, Dirk H.
Van Nouhuys/JMB DVN; Distribution: /DIRT RWW(We are particularly
interested in your opinion.); Sub-Collections: SRI-ARC DIRT; Clerk: JMB;
Origin: <BECK>SYN.NLS;3, 2-OCT-73 17:02 JMB ;

Wouldn't it be nice....

It would be nice if one could choose viewspecs and statement numbers
other than "1:w" for the link the journal sends out in the mail item
referencing one's submitted file.   --Jeanne Beck   1

19425 Distribution
    Nps Np, Richard W. Watson, Charles H. Irby,

Wouldn't it be nice....

(J19425) 2-OCT-73 17:23; Title: Author(s): Jeanne M. Beck/JMB;
Distribution: /NP; Sub-Collections: SRI-ARC NP; Clerk: JMB;

Request for Account set up information

Ken: I have been leaving messages for you at ISI, but no luck, so
will use the NIC and make sure that they mail a copy. I am in need of
an account at UCSD to proceed with some development work for our ANTS
system which is being installed soon. Please let me know what
paperwork is needed, and what the rates for terminal usage will be so
I can estimate my costs. Send info to Prof. Vint Cerf, ERL 235A,
Stanford University, Stanford, Calif 94305 or call 415-321-3300 ext
365 or 364 (sec'y). Thanks much. Vint

1

19426 Distribution
   Kenneth L. Bowles, Steve D. Crocker,

Request for Account set up information

(J19426)   2-OCT-73 17:31;   Title: Author(s): Vinton G. Cerf/VGC;
Distribution: /KLB SDC2; Sub-Collections: NIC; Obsoletes Document(s): ;
Clerk: VGC;

These suggestions address particular requirements as listed in
<KUDLICK>REMNTS(2).NLS;7.   After most suggestions, statement numbers
of the related requirements are listed.

HELP Query --Implementation Suggestions

SOFTWARE CAPABILITIES   1

    I suggest that we do away with warps in the Help subsystem until
such time as they are implemented as part of the general NLS
viewspec system (3C).   1a

    Links delimited by double pound signs ## should remain and be
invisible to the user. A menu number should appear where ever a
hidden link occurs (even if there is more than one in a statement)
(3A1, 3C2A).   1b

    The viewspecs in the links should define the view when the user
takes it. Except for making links dissappear, taking a link
should not be any slower than in Locator (2H, 2H1,3C).   1c

    Should viewspecs be set back to a default before each new command?   1d

        If so, names can be turned off with viewspec capital-D in a
link, but the default setting should be capital-C (3C2).   1d1

DATABASE STRUCTURE
I propose the following structure for the HELP database.
There should be three main branches: ACCESS, COMMANDS and CONCEPTS.
In addition there should be a Thesarus branch defined below   (3A4).   2

    The ACCESS branch should be structured the same as the CONCEPTS
branch.   2a

    In the CONCEPTS branch, the definitions and conceptual networks
should be unified. Most menued links would be intersperced with
the meaningful text in the statement with the concept name (2B2,
2B2A, 2C4, 2D1, 2D2). More use should be made of the "invisible
network" (that is, the ability of the user to access any concept
by name) (2F1, 3C2, 3C2A). Candidates for this treatment would be
the global acronyms.   2b

        Substructure would be used for logical two-name searches such
as: "Link Syntax" and "Writing files"   (2C3).   2b1

        Two single nodes with their substructure might look to the user
like: 2b2

        Link:
a string of characters which begins with < or (or -- and
terminates with > or) . The ADDRESS of any character
position ahead of a link terminator will serve to address
the link. Attempting to jump to link (1.) on something that
is not a link will result in the message: ILLEGAL LINK.

However, for editing commands (2.), the syntax inside link
delimiters is ignored.   2b2a

    3. Syntax of links:
    4. Addressing   2b2a1

Writing on files
You can 1. create new files, 2. copy all or selected parts
of existing files, 3. insert text by typing into existing
files (after you've loaded them -- 4.), and 5. edit
existing text. Access for these operations may be
restricted (6.).
7. addressing points in files 8. structure of files
9. commands   2b2b

    10. Files
    11. Editing
    12. Access to Files
    13. Creation   2b2b1

Within the COMMANDS branch, there should be five main branches
(4).   2c

1) A user structured branch would access the syntax, function,
example and see-also statements for each keyword. (2B1, 2B2,
2B2A, 2I, 2J, 3C2A, 3C2B)
One view might look like this: 2c1

Copy
1. syntax 2. functions 3. examples 4. advanced commands
5. possible side effects
After specifying Copy the following options are available: 2c1a

    6. STRING
       7. Character   (2C1, 2C3)
       8. Word
       9. Visible
       10 Invisible
       11 Link
       12 Statement
    13 STRUCTURE
       14 Statement
       15 Branch
       16 Group
       17 Plex
    18 Directory
    19 Sequential   2c1a1

2) A Syntax Branch (would double as command syntax summary)
(4B1).   2c2

3) An examples branch (would double as a scenario branch).
Each statement accessed could eventually be part of a scenario
(2I, 4B1). I propose each example be allowed to include more
than one statement.   2c3

4) A Function branch (4B1)(2D).   2c4

5) A see or see also branch to contain   2c5

   unstated assumptions
   side-effects, error messages   (3C2B)
   additional concepts
   etc..   2c5a

I propose we do away with the CONFIRM statements and place this
information under function.   2c6

THESARUS
In addition to the three main branches. There should be a branch
to contain words the user might try but that are not used as names
in the database (3A4). They would contain links that define
conceptual substructure (see below) that would automatically take
the user to the appropriate place. These might include: 2d

   old commands (2B3)
   synonyms (2C2)
   antonyms
   plurals
   alternate spellings
   unclassified
   other   2d1

COMMANDS   3

In an NLS query language it would be appropriate to distinguish
two types of links each of which has two specific uses. Both
types can be found in a single statement (2H).   3a

One type defines conceptual substructure (see -- kelley, file,
conceptual). Its two uses are: 3a1

   1. formatting substructure only: contains no address, only
   viewspecs.   3a1a

   2. link to a statement that conceptually belongs in

substructure but is duplicated somewhere else: uses only
one link in a statement.   3a1b

The other type accesses information that belongs in the
addressed node, but   3a2

1. is duplicated elsewhere; or   3a2a

2. doesn't fit.   3a2b

I suggest that there be two commands to handle the display of
these two types of links. One terse command to find things
quickly in substructure (2D, 2C), and the other for showing a
verbose view of an entire branch.   3b

The terse command would use only the link that defines
conceptual substructure with a default of viewspecs ebt (one
line, one level more).   3b1

The verbose command would ignore the link that defines
conceptual substructure and would always turn viewspec s on
(all lines).   3b2

Both commands operate as Print Branch. The search algorithm
would find only one occurance unless a special character was
input (like *) or content-analyzer--set-definition type input
was made.   3b3

The invisible link defining conceptual substructure should
always be the first link in the statement.   3b4

If there are no links in the statement, the default is invoked.   3b5

I propose we use the ZOG convention of just typing what it is you
want to know followed by a command terminator. No preceeding
keyword. For the terse command, the user terminates his input
with a <CR>. A terminating questionmark specifies the verbose
view.   3c

Advantages   3d

While using Help, the user would not need to remember command
verbs (like Show). Since TENEX recognition scheme will
probably be used, I think it is a useless hassle to type SHOW
everytime.   3d1

Allows the experienced user a more flexible way of getting the
specific information she wants with the least amount of
superflous data in the way (2D, 2H, 2I).   3d2

HELP Query --Implementation Suggestions

Would be compatable with the Jump to Mouse DNLS query language
(5A).   3d3

If two commands are not allowed, the database builders should be able
to edit in DNLS the resulting Zog type view(3A5, 3A6).   (i.e., top
node all lines, substructure one line only.)   4

19428 Distribution
    Richard W. Watson, Elizabeth J. (Jake) Feinler, Harvey G. Lehtman,
    Kirk E. Kelley, Laura E. Gould, N. Dean Meyer, Jeanne M. Beck,
    Charles F. Dornbush, Dirk H. Van Nouhuys, Michael D. Kudlick, Diane
    S. Kaye, James C. Norton,

HELP Query --Implementation Suggestions

(J19428) 2-OCT-73 19:39;   Title: Author(s): Kirk E. Kelley/KIRK ;
Distribution: /DIRT ; Sub-Collections: DIRT ; Clerk: KIRK ;
Origin: <KELLEY>RQMNTS.NLS;8, 2-OCT-73 19:33 KIRK ;

Naming of the Tymshare Knowledge Workshop Utility (KWU) Computer
Facility

   Doug and Dick: Let's resolve the naming of the Tymshare AKW Utility
PDP-10 between us. I guess I've come around to the point where I'm
willing to try the KWU1-TYM   or TYM-KWU1 type thing. Alternatives
might be TYM1-NLS   NLS-TYM1... etc   I have the feeling that we'd do
better to keep the KWU first and start right off with a number....I
guess 1 is ok altho tempted to use 2 (we're no. 1) hmm. Can we
discuss this week and get on with it?   1

19429 Distribution
   Douglas C. Engelbart, Richard W. Watson,

Naming of the Tymshare Knowledge Workshop Utility (KWU) Computer
Facility

(J19429)   2-OCT-73 20:11;   Title: Author(s): James C. Norton/JCN;
Distribution: /DCE RWW; Sub-Collections: SRI-ARC; Clerk: JCN;

(superwatch) parameters of interest in superwatch   1

    $ju - percent of total used time used by job.   1a

    $su - percent of total used time used by specified subsystem.   1b

    $uu - percent of used time used by user.   1c

    %pf - percent of real time handling page faults.   1d

    %sk - percent of real time spent scheduling.   1e

    %u   - percent of real time spent running user programs.   1f

    %uu - percent of real time used by user.   1g

    &su - percent of non-idle time spent scheduling.   1h

    &u - percent of non-idle time spent running user programs.   1i

    ch   - characters per second input to system   1j

    chr - number of characters input to system per second.   1k

    fl   - frustration level : total user wait time/used time.   1l

    gj   - number of "go" or runnable jobs in system.   1m

    idl - percent of real time the system is idle.   1n

    iow - percent of real time spent ini/o wait.   1o

    rndx - response index : average of 'tgo', time jobs wait on
golist.   1p

    sko - scheduler overhead; percent real time per schedule.   1q

    tgo - time jobs wait on golist   1r

    tg'n' where n=1,2,3,4 - time jobs wait on golist from queue 'n'.   1s

19430 Distribution
    James C. Norton,

superwatch parameters

(J19430) 3-OCT-73 05:11;   Title: Author(s): Robert N. Lieberman/RLL;
Distribution: /JCN; Sub-Collections: NIC; Clerk: RLL;

tickler

(ow1) 3 October - Wednesday   1

   laboratory activity reports are due tomorrow.   1a

   Due Date - Excess Property List - ISIS & ISIM - Completed   1b

   Lt Col Wachowski - Note statement above   1c

   Due Date - ISIS/DiNitto Contract F30602-73-C-0205 - Reply by 1st
   Ind- Completed   1d

(oth1) 4 October - Thursday   2

   Laboratory Activity Reports due today: Bucciero must have them by
   1000, ISM must have them by 1100, and DOT must have them by 1600.   2a

   ISC Confessions 0830 hrs.   2b

   Due Date - ISIM/ISIS/ISC - IR&D EvaluationCompleted   2c

(of1) 5 October - Friday   3

   Re: Syracuse Contract Meeting - Concerns Col Thayer, Frank Tomaini
   and Rocco Iuorno - Meeting with Dick Ward and Dr. Seamon at 1100
   hrs.   3a

   Bobbie: Travel figures due by noon.   3b

(om2) 8 October - Monday   HOLIDAY111   4

   0830 hrs. Branch Chief's Meeting   4a

   ISIS Due Date - D. White - Final Report, Contract F30602-73-C-0062
   for technical review.   4b

(ot2) 9 October - Tuesday   5

   Due Date ISIM - Unsolicited Proposal DO 49 - 74, "Evaluation of
   File Design"   5a

(ow2) 10 October - Wednesday   6

   0830 hrs. Branch Chief's Meeting   6a

   laboratory activity reports are due tomorrow.   6b

(oth2) 11 October - Thursday   7

   0900 hrs. Lt Col Ed Hinton, Major Falk and Mr. Robert Archibald

from Wright-Patterson will be here to discuss Avionics Software -
Those to be concerned - F. Tomaini and R. Nelson   7a

Laboratory Activity Reports due today: Bucciero must have them by
1000, ISM must have them by 1100, and DOT must have them by 1600.   7b

ISF Confessions 0830 hrs.   7c

(of2) 12 October - Friday   8

Dry Run for Center - ODDRSE Briefing at 1:30 hrs. Bldg. 106 Room
A-119 - This for the Commander   8a

Inputs to Annual Revision of Project 5550 PMP are required - R.
Panara   8b

Due Date - R. Iuorno - From Col Thayer - A-Job   8c

Timecards due today.   8d

Bobbie: Travel figures due by noon.   8e

(om3) 15 October - Monday   9

Frank Tomaini and Dick Nelson will be on TDY this week. Dick
Nelson should be back Friday but Frank Tomaini shouldn't be.   9a

                                                                    9b

15 - 26 October presentations to the Commander (Dry-Runs) for the
DL Technical Review begin   9c

0830 hrs. Branch Chief's Meeting   9d

Backup Material must be submitted to DORP today for the DL
Technical Review.   9e

Due Date - Review of Documents for Revision to Distribution
Statements - Calicchia & IuornoCompleted   9f

Due Date for ISI - Military Personnel Authorizations   9g

(ot3) 16 October - Tuesday   10

Confessions are this Thursday. Topic write-ups must be collected
tomorrow.   10a

(ow3) 17 October - Wednesday   11

tickler

0830 hrs. Branch Chief's Meeting   11a

laboratory activity reports are due tomorrow.   11b

Collect topic write-ups today by noon for confessions.   11c

R & T Selection of the Month is due in ISI.   11d

(oth3) 18 October – Thursday   12

Laboratory Activity Reports due today: Bucciero must have them by
1000, ISM must have them by 1100, and DOT must have them by 1600.   12a

0830 hrs. ISI Confessions today   12b

(of3) 19 October – Friday   13

R & T Selection of the Month is due in ISM.   13a

Bobbie: Travel figures due by noon.   13b

19431 Distribution

Donna R. Robilotta, David L. Daughtry, Richard H. Thayer, Frank J. Tomaini, Mike A. Wingfield, Edmund J. Kennedy, Ray A. Liuczi, Richard Calicchia, John W. Johnson, Donald Van Alstine, Dean F. Bergstrom, William P. Bethke, Frank S. LaMonica, William E. Rzepka, Rocco F. Iuorno, Frank P. Sliwa, Thomas J. Bucciero, Robert E. Doane, David A. Luther, Roger B. Panara, John L. McNamara, Joe P. Cavano, Duane L. Stone, Marcelle D. Petell, Josephine R. Stellato, Robert K. Walker, Thomas F. Lawrence, James H. Bair,

1

tickler

(J19431) 3-OCT-73 05:39;   Title: Author(s): Frank J. Tomaini/FJT;
Distribution: /RADC; Sub-Collections: RADC; Clerk: FJT;

Dear Jeanne and Mike,
In reference to NIC   19360 and (jjournal,19376):
Nancy Neigus suggested that   there might be enough room in directory
BBN-NET for me to work on an output (to printer) version of the brief
directory so I got in there and was successful in making some
modifications. For your information, I was able to modify the Output
Processor directives in branch 1 as follows, set viewspecs to "nt",
and get reasonable output to the printer (although I used over 6
minutes CPU time in the Output Processor).
I set RM=68 and BM=57
Incidentally, my TNLS Users Guide doesn't seem to mention several of
the directives which appear in this file.
Regards,
Alex McKenzie

1

19432 Distribution
     Jeanne B. North, Michael D. Kudlick,

(J19432)   3-OCT-73 08:10;   Title: Author(s): Alex A. McKenzie/AAM;
Distribution: /JBN MDK; Sub-Collections: NIC; Clerk: AAM;