test

do you understand this message? 1

17308 Distribution
    Joseph J. Passafiume,

test

(J17308)   19-JUN-73 10:43;   Title: Author(s): Joseph J.
Passafiume/JJP2; Distribution: /JJP2; Sub-Collections: NIC; Clerk: JJP2;

worthless message

This is a test. You have been chosen as the lucky recipient of my first archived journal message. As more people take this tnls course, perhaps the nic will gradually fill up. In 100 years, who is going to findd this profundity? read and enjoy.   1

17309 Distribution
    Nancy J. Neigus, Joel B. Levin, Nancy W. Mimno,

1

worthless message

(J17309)   19-JUN-73 10:43;   Title: Author(s): Nancy W. Mimno/NWM;
Distribution: /NJN JBL NWM; Sub-Collections: NIC; Clerk: NWM;

A Message Conveying a Greeting

This greeting is conveyed as part of a research project designed to explore the ramifications of on-line personalized greetings.

A Message Conveying a Greeting

Hello.   1

17310 Distribution
    William E. Merriam, Eleanor H. Warnock,

A Message Conveying a Greeting

(J17310) 19-JUN-73 10:45; Title: Author(s): William E. Merriam/WEM;
Distribution: /WEM EHW2; Sub-Collections: NIC; Clerk: WEM;

typeout bug

 There appears to be a bug in the typeout (on my TI anyway) of the
system response "next ident" which types out as "next itent". This
happened at least 3 times and is not likely to be the network/tip
doing it.   1

17311 Distribution
    Diane S. Kaye, Harvey G. Lehtman, Charles H. Irby,

typeout bug

(J17311)   19-JUN-73 10:48;   Title: Author(s): Nancy W. Mimno/NWM;
Distribution: /BUGS; Sub-Collections: NIC BUGS; Clerk: NWM;

PRINT Complaint

Received your message.   Agree completely about movement of cursor
during prints.   1

17312 Distribution
    Eleanor H. Warnock,

PRINT Complaint

(J17312)   19-JUN-73 13:41;   Title: Author(s): Paul R. Johnson/PRJ;
Distribution: /EHW2; Sub-Collections: NIC; Clerk: PRJ;

Another Hello Message

Hi Mort.   Sorry I missed you at NCC, but I will be out to California
this fall.   Today is learn how to use NLS day.   I sure wish that Bob
had an ident on the ARPA Network, since it is easier to use the
Network than Ma Bell.   MY regards to the old gang.   Sonya Shapiro   1

Another Hello Message

17313 Distribution
    Morton I. Bernstein,

Another Hello Message

(J17313)   19-JUN-73 12:32;   Title: Author(s): Sonya Shapiro/SRS;
Distribution: /MIB; Sub-Collections: NIC; Clerk: SRS;

datalanguage reference

still don't know what the read flowers are.

still don't know what the read flowers are.

datalanguage reference

get a hold of a copy of rfc 515, nic 16446, "Datalangage" for
richard.
--jon.   1

17318 Distribution
  Eric Manning,

datalanguage reference

(J17318)   19-JUN-73 14:52;   Title: Author(s): Jonathan B. Postel/JBP;
Distribution: /EM2; Sub-Collections: NIC; Clerk: JBP;

distribution request

could you please send a copy of rfc 515 on datalanguage to eric
manning [em2] at university of waterloo, thanks
--jon.   1

17319 Distribution
    Marcia Lynn Keeney,

distribution request

(J17319)   19-JUN-73 14:54;   Title: Author(s): Jonathan B. Postel/JBP;
Distribution: /MLK; Sub-Collections: NIC; Clerk: JBP;

A partial Novice/Expert Review Team (EKM, CHI, DSK) met 6/19 as
announced and approved the material in this document.

DNLS Full Command Feedback

FULL FEEDBACK for NEW COMMAND LANGUAGE   1

   (a Novice-Expert Project)

                                                                         1a

The Novice/Expert Team has proposed three major system additions to
assist DNLS users on-line. See(Gjournal, 17085, 1:w).   2

This document is based on information taken from the Proposed Command
Language: (Ijournal,17052,). Its purpose is to expand on the
"Command Status Diplay Window" proposed in (gjournal, 17085, 1:w).
We want to incorporate CHI's suggestion of combining the command
feedback/prompt information with the arrow in one line beneath the
Command Feedback Line.

                                                                         3

Accessing the Full Feedback Feature   4

   We have considered the possible ways of turning this prompt off
   and on, and would like to have all of the ways described below.   4a

      a) By commands.   4a1

         In DNLS only: Set Feedback Full and Reset Feedback   4a1a

                         Set Feedback Terse (less than the current
                         standard — for future definition and
      implementation)   4a1b

         (Formerly referred to as Set Novice, etc.)   4a1c

      b) Automatically, if you are flagged in the ident file as
      desiring verbose (formerly called "novice") feedback. ChI says
      this may be implementable as a special keyword in the comments
      field.   4a2

      c) By a control character, possibly ↑G, acceptable at any time
      to toggle verbose command feedback to on or off.

                                                                         4a3

The actual feedback which we propose for the new command language
appears below. We insist that whatever feedback we use be
specifyable right along with other aspects of syntax, and therefore
easily modifyable as well. The description below shows three
categories of prompts.

                                                                         5

The following list of frequently occuring command options shows user
choices on the left and proposed system prompts on the right.

Specific parameter names are taken from CHI's Proposed Command
Language definitions.   6

                                                                        6a

Where choices are--	proposed feedback is--	6b
SSEL	Source	6b1
DSEL	Destination	6b2
VIEWSPECS	View Specs	6b3
FILENAME	File Name	6b4
LEVADJ	Level	6b5
LIT, LSEL	Text	6b6
DAE(occurs after OPTION typed at SSEL, DSEL or LSEL)	Address	6b7
Confirmation	Confirm	6b8

                                                                        7

The following list shows some less common situations for which
special categories can be defined internally. The word in
parentheses indicates the command in which the state occurs--
"proposed feedback" shows a new internal syntax category.   8

Where choices are--	Proposed Feedback is--	8a
display/tty	Device Name	8a1
NUMBER	Number	8a2
Command (execute/command reset)	Command	8a3
SUBSYSTEM-NAME/NLS (quit/execute)	Subsystem-Name or NLS	8a4
all question situations (including Jump to Return, etc.)	Yes or No	8a5
ASSEMBLER-NAME	Assembler Name	8a6
SUBSYSTEM-NAME	Subsystem Name	8a7

Finally, there is a general category, KEYWORDS, which sometimes
includes another category, EDIT ENTITY, and which for some commands
contains few (i.e. displayable) options, and for others has too many
options to display. We propose that the implementer look at each
specific case and choose one of the feedback methods designated in
the list below. (It seems safe to leave a few of these items to the
"implementer" so that we can review them on-line and easily make
whatever changes we find desirable.)   9

    System feedback is--- When actual situation is---   9a

       Keyword   too many keywords to show,
                             and they are not edit entities.   9a1

       Edit Entity   all possibilities are edit entities.   9a2

       Edit Entity...   possibilities include edit entities,
                             among other types of keywords.   9a3

       actual parameter(s) few enough keywords to show,
                             and they are not edit entities.

                                                    9a4

Handling OPTIONs   10

We propose showing an asterisk (example: Edit Entity*) to indicate
the existence of option(s) available via the OPTION character.
Our purpose is to avoid confusing new users and to indicate
possibilites which anyone may see displayed in full by simply
typing "?".

                                                   10a

EXAMPLES   11

    1) Prompts for Insert Statement   11a

       Reset
       ↑Command   11a1

       Insert
            ↑Edit Entity...   11a2

       Insert Statement at
                 ↑Destination   11a3

       Insert Statement
                 ↑Level   11a4

Insert Statement
⬆Text   11a5

Insert Statement
⬆Confirm   11a6

2) Possible prompts for Connect Display to Terminal   11b

Connect
⬆Device Name   11b1

Connect Display to terminal
⬆Number   11b2

(Assume the user enters a number, displayed in the Name
Area.)   11b2a

Connect Display to terminal
⬆Input/Output or Output Only   11b3

Connect Display to terminal Input and Output
⬆Confirm   11b4

Command Feedback Display Area   12

We propose moving the Name Area up one line (flush with Date/Time)
and extending the 2-line Command Feedback Area out to the right
margin. Even so, we will probably need to build an automated
mechanism for breaking large commands into smaller display units.   12a

17320 Distribution
   Richard W. Watson, Michael D. Kudlick, Elizabeth K. Michael, Charles
   H. Irby, James E. (Jim) White, Charles F. Dornbush, Dirk H. Van
   Nouhuys,

(J17320) 19-JUN-73 15:10;   Title: Author(s): Diane S. Kaye/DSK;
Distribution: /RWW MDK EKM CH1 JEW CFD DVN; Sub-Collections: SRI-ARC;
Clerk: DSK;
Origin: <KAYE>O.NLS;7, 19-JUN-73 15:06 DSK ;

A Thank You

Thanks for the going-away-to-get-married festivities and gift.   The
wedding is Saturday in Indiana.   Vicki and I are renting a car and
driving (at a leisurely pace we hope) up to Niagra Falls and then on
through Canada to Montreal (if we make it that far).   We'll dump the
rent-a-car there and fly back to San Francisco.   We'll be living in
an apartment in Barron Park in Palo Alto where I've been living the
last couple of months.   Expect to be back in California about July
4th.   See you in a couple of weeks.   Thanks again.   --Jim   1

17321 Distribution

Donald C. (Smokey) Wallace, Richard W. Watson, Don I. Andrews,
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, Augmentation Research Handbook, Kirk E.
Kelley, N. Dean Meyer, Kay F. Byrd, James E. (Jim) White, Diane S.
Kaye, Paul Rech, Michael D. Kudlick, Ferg R. Ferguson, Linda L. Lane,
Marilyn F. Auerbach, Walt Bass, 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,
William H. Paxton, Jeffrey C. Peters, Jake Ratliff, Edwin K. Van De
Riet, Dirk H. Van Nouhuys, Kenneth E. (Ken) Victor

1

A Thank You

(J17321)   19-JUN-73 15:20;   Title: Author(s): James E. (Jim)
White/JEW; Distribution: /SRI-ARC; Sub-Collections: SRI-ARC; Clerk: JEW;

Jwork andd ICP

Jwork is a work file crdated by the journal. There is no use deleting
it because the journal will just recreate it whne it needds it. You
can find ICP in the NIC Journal Author Index under Postel. You can
find the author index through Locator.   1

17322 Distribution
    Gary L. Bockweg, James C. Norton,

Jwork andd ICP

(J17322)   20-JUN-73 06:03;   Title: Author(s): Dirk H. Van
Nouhuys/DVN; Distribution: /JLB JCN; Sub-Collections: NIC SRI-ARC;
Clerk: DVN;

Phone Log, 19 Jun 73, Don Atkinson, Bell of Canada, to visit ARC 28 Jun 73

To discuss Utility subscription with DCE and JCN (Office Application)

Phone Log, 19 Jun 73, Don Atkinson, Bell of Canada, to visit ARC 28
Jun 73

I called to follow up, generally, on the question of their
subscribing to the Workshop Utility. He will be in the Bay Area
anyway next week -- the early part on other business. He'll call us
on Monday or Tuesday (25 or 26 Jun) to arrange a specific time to
visit us, probably on Thursday.d   1

About their status with respect to the Utility subscription: He
said that he is proceding as thought the matter is approved. Has
questions about the way to provide communiations; he had been trying
to find a 50 kbaud link. I told him that 2400 baud would be quite
good to start, and 4800 should be very good. These bandwidths would
be much easier for them to manage. More about this when he is here.   2

17323 Distribution
    James C. Norton, Richard W. Watson, Bonnar Cox, David R. Brown,

Phone Log, 19 Jun 73, Don Atkinson, Bell of Canada, to visit ARC 28
Jun 73

(J17323) 19-JUN-73 18:44;   Title: Author(s): Douglas C. Engelbart/DCE
; Distribution: /jcn rww   bc   drb ; Sub-Collections: SRI-ARC; Clerk:
DCE   ;

BB&N changed to BBN in the Glossary

Thank you Eleanor, for your suggestion.   1

17324 Distribution
Eleanor H. Warnock,

BB&N changed to BBN in the Glossary

(J17324) 19-JUN-73 18:45; Title: Author(s): Kirk E. Kelley/KIRK;
Distribution: /EHW2; Sub-Collections: SRI-ARC; Clerk: KIRK;

This is final checkout under SYSJOB

Hope it works ok.

17325 Distribution
    James E. (Jim) White,

This is final checkout under SYSJOB

(J17325)   19-JUN-73 18:49;   Title: Author(s): James E. (Jim)
White/JEW   ; Distribution: /JEW   ; Sub-Collections: SRI-ARC; Clerk: JEW;
.SNF=HIRM;

Visit Log: Wayne Girard, Tektronix

Trying to locate people within Tektronix interested in Workshop
Utility participation

Visit Log: Wayne Girard, Tektronix

Wayne Girard is the local Tektronix Application Engineer. I had had
a brief discussion with him earlier, see (16792,).   1

In this meeting described briefly the Utility system that we re
coming up with, and the community of exploratory-application users we
are aiming to develop. It would seem that Tektronix would be a
likely participant, both for them to get perspective on the future
market that an Augmeted Knowledge Workshop represents, and to begin
thinking seriously about their own internal evolution in this
direction.   2

Gave Wayne two each copies of   3

   (14724,) NCC, AKW paper   3a

   (14851,) NCC, Design considerations for AKW terminals   3b

   (3954,) FJCC68   3c

   (13537,) SRI-IPT summary   3d

   (8277,) RADC71 report   3e

He will scan these documents, and try to contact the appropriate
people in Beaverton. We'll wait to hear from him. Would be glad to
have them visit   4

17326 Distribution
    Richard W. Watson, James C. Norton, Michael D. Kudlick, Charles H.
    Irby, Martin E. Hardy, Don I. Andrews,

Visit Log: Wayne Girard, Tektronix

(J17326) 19-JUN-73 18:53;   Title: Author(s): Douglas C. Engelbart/DCE
; Distribution: /rww jcn mdk chi meh dia ; Sub-Collections:
SRI-ARC; Clerk: DCE ;

Network Journal Submission is Here

This message is brought to you by Network Journal Submission.

See you in a couple of weeks.

    ..Jim

17327 Distribution
Donald C. (Smokey) Wallace, Richard W. Watson, Don I. Andrews, James
E. (Jim) White,
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, Augmentation Research Handbook, Kirk E.
Kelley, N. Dean Meyer, Kay F. Byrd, James E. (Jim) White, Diane S.
Kaye, Paul Rech, Michael D. Kudlick, Ferg R. Ferguson, Linda L. Lane,
Marilyn F. Auerbach, Walt Bass, 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,
William H. Paxton, Jeffrey C. Peters, Jake Ratliff, Edwin K. Van De
Riet, Dirk H. Van Nouhuys, Kenneth E. (Ken) Victor

1

Network Journal Submission is Here

(J17327) 19-JUN-73 19:33;   Title: Author(s): James E. (Jim) White/JEW
; Distribution: /SRI-ARC JEW ; Sub-Collections: SRI-ARC; Clerk: JEW;
.SNF=HIRM;

Network Journal Submission is Up and Running

Hope you don't have problems that can't behandled while I'm gone.
See you in a couple of weeks.   --Jim

Network Journal Submission is Up and Running

Network Journal Submission is up and running; so is Network Journal
Delivery. The following is provided to help document this stuff for
users, and help troubleshoot things if necessary. It's unfortunate
that I'll be gone for a couple of weeks just as this thing comes up,
but...   1

This is a hastily written combination of material for user
documentation, and trouble-shootng material. It's not well proofed,
but hopefully will be useful.   2

   This document plus the design document (16926,) are probably
   sufficient to generate some user documentation which can be
   distributed via RFC.   2a

Network Journal Submission and Delivery   3

   SUBMISSION   3a

      Implementation   3a1

         (1) Driver running under SYSJOB   3a1a

            FTPSRV SHOULD be running under SYSJOB but he's not. The
            problem was the following: 3a1a1

               NLS (which FTPSRV starts up as an inferior fork) hangs
               when FTPSRV runs detached. There seem to be pieces of
               code somewhere in NLS which assume the existence of a
               controlling teletype -- code that isn't NOPed by
               setting the AUTOSTRT flag to TRUE (which I tried
               unsuccessfully).   3a1a1a

            No solution seemed forthcoming that met my time
            constraint. Hence the following (this is a cludge
            designed to suffice till my return, but it works fine and
            doesn't degrade system performance):   3a1a2

               I wrote a FAIL program whose source is <NET>FTPDRV.NLS
               which connects to NETSER via the NET (as if it were
               the TELNET subsystem), logs itself in as WHITE,
               refuses links, and runs <SYSTEM>FTPSRV.SAV.   3a1a2a

               It then sits there, effectively monitoring the Network
               connections by hanging in a BIN, prepared to dismiss
               for awhile and redo the whole thing should the Network
               connections die.   3a1a2b

               THIS LITTLE DRIVING PROGRAM is what runs under SYSJOB;

it's SAV file is <SYSTEM>FTPDRV.SAV. I modified
<SYSTEM>SYSJOB.RUN appropriately.   3a1a2c

So, what you should see all the time is WHITE logged
in over a Network connection, with the subsystem name
either NTNLS (as set by NLS) or FTPSRV.   3a1a2d

(2) Modifications to FTPSRV   3a1b

Fairly extensive modifications (i.e., a few splices here
and there, and one big addition).   3a1b1

The modified source is <NET>FTPSRV.MAC; the unmodified
back-up file is <NET>FTPSRV.OLDMAC (or get it if you
need it from BBN).   3a1b1a

The modified (running) SAV file is <SYSTEM>FTPSRV.SAV;
the back-up SAV file is <SYSTEM>FTPSRV.OLD.   3a1b1b

(3) Dispatcher front-end for invoking the NLS module   3a1c

This is an instance of Ken Victor's short program.
FTPSRV assumes it to exist as <NET>NLS.SAV, and it is
this pgm that FTPSRV runs beneath it to do Journal
submission.   3a1c1

The source for this little pgm is <NET>NLSSRT.NLS.   3a1c1a

This little pgm serves to dispatch NLS at an offset of 6
in it's entry vector (a newly added entry).   3a1c2

<NET>NLS.SAV currently loads NLS from <REL-NLS>XNLS.SAV.
This is because the mods described in (4) are yet to be
installed in the 'running' version of NLS.   3a1c3

As soon as possible, the mods should be propagated to the
running NLS, and then <NET>NLS.SAV changed so that it
invokes that version of the system. Until this is done
FTP and normal, terminal users of NLS will be running
different copies of NLS, hence a degradation in system
performance.   3a1c4

(4) Modifications to NLS -- the following files: 3a1d

[None of these changes are in the running version of
NLS.]   3a1d1

INTNLS   3a1d2

An addition to SEFVEC, adding another entry point to
NLS (offset = 6).   3a1d2a

The front-end code invoked though it.   3a1d2b

DATA   3a1d3

Length of ENTVEC bumped by one.   3a1d3a

[This file hasn't been compiled (therefore, isn't
reflected in <REL-NLS>XNLS.SAV). No problem. Just
be sure to compile it for the running system when
the switch is made.]   3a1d3a1

SEQFIL   3a1d4

Addition of Dean Meyer's new 'heuristic' Insert
Sequential program.   3a1d4a

JOCTL   3a1d5

Code which interacts with FTPSRV (NLS's superior fork)
to accomplish Journal submission.   3a1d5a

How it is used by the user   3a2

The implementation is exactly as described in the design
document (see -- 16926,), with the following exceptions: 3a2a

(1) The header which begins with '- - - -', and the
trailer '-------' added to the text of messages
Journalized via SNDMSG is not stripped off (didn't have
time for this).   3a2a1

My personal feeling is that BBN should be imposed upon
to modify SNDMSG so that it cans that stuff for the
case of Journal submission.   3a2a1a

(2) Title (signalled by 're:', 'title:', or 'subject:')
is searched for ONLY in the first statement of the
message text, not in the first dozen lines. If found,
the rest of that statement (beginning with the first
non-blank character following the label) is taken as the
Journal title, and the statement (actually the branch)
containing the title info is deleted from the file.   3a2a2

Note that the title search occurs after the file has
been converted to NLS format.   3a2a2a

(3) I've taken the first Author ident (there may, as
spec-ed, be more than one) to be also the Clerk.   3a2a3

(4) I've allowed the sender to specify the algorithm by
which his sequential message file is to be converted to
NLS format.   This choice is made by inserting: 3a2a4

'; <character>   3a2a4a

anywhere in the 'user name' field (e.g., 'jew/mdk
rww;s').   Legal values for <character> are: 3a2a5

a -- Insert Assembler with structure   3a2a5a

m -- Insert Assembler without structure   3a2a5b

s -- Insert Sequential   3a2a5c

h -- Dean Meyer's heuristic Insert Sequential, without
right justification in the source file   3a2a5d

See Dean if problems arise with this routine, or
for info about its algorithm.   3a2a5d1

j -- Dean Meyer's heuristic Insert Sequential, with
right justification in the source file   3a2a5e

(5) The submission is equivalent to 'Submit Message' if
the NLS file (after the title statement -- if any -- has
been deleted) has only one statement in it besides the
origin statement; and is equivalent to 'Submit File'
otherwise.   3a2a6

The user invokes Network Journal submission via his FTP mail
subsystem (whatever that is).   All he has to know is the
format of the 'user name' field (i.e., authors, slash,
recipients, optional conversion algorithm), the fact that
the text of the message may contain the specification of a
title which then will not appear in the text of the recorded
item, and that the rest of the mail text is the Journal item
text.   3a2b

If you're a TENEX user, you can do it with any of the
following subsystems: 3a2c

(1) SNDMSG   3a2c1

This works fine, except that the header and trailer
balonie isn't stripped off (as stated elsewhere).   3a2c1a

     (2) FTP   3a2c2

       Goes like this (for short messages):   3a2c2a

```
FTP <CR>
CONN <SP> NIC <CR>
QUO <ALT> MAIL JEW/MDK RWW <CR>
(pause)
QUO <ALT> line one of the message <CR>
QUO <ALT> line two of the message <CR>
...
QUO <ALT> .<CR>
(completion message)
DISC <CR>
QUIT <CR>
```
                            3a2c2a1

      Or like this for longer ones: 3a2c2b

```
FTP <CR>
CONN <SP> NIC <CR>
MAIL <ALT> sequentialfilename <CR>
JEW/MDK RWW <CR>
(wait for completion reply)
DISC <CR>
QUIT <CR>
```
                            3a2c2b1

       [I happen to like this one very much.]   3a2c2b1a

     (3) TELNET (for short messages only)   3a2c3

```
TELNET <CR>
CONN <SP> NIC <SP> FTP <CR>
MAIL JEW/MDK RWW <CR>
line one of message <CR>
line two of message <CR>
...
. <CR>
(wait for completion reply)
DISC <CR>
QUIT <CR>
```
                            3a2c3a

  Things that should be done   3a3

    (1) NLS doesn't successfully run detached for some reason.
    This problem should be found.   3a3a

    (2) The Journal submission code in NLS doesn't delete the
    JWORK file in the user's directory (true too when Journal
    submission is invoked in the normal manner -- from a

terminal). A number of these files will accumulate (NOT one
per submission, since they're reused, but maybe as many as
half a dozen). The Journal might be changed to delete this
file as it should. See Dave Hopper.   3a3b

   The files will accumulate in the directory in which
   FTPSRV runs -- WHITE.   3a3b1

DELIVERY   3b

  Implementation   3b1

    (1) Online Journal Delivery   3b1a

      As modified by Dave Hopper.   3b1a1

    (2) MAILER   3b1b

      We haven't touched this program; straight from BBN.   3b1b1

      It's been blowing up with an illegal instruction return
      from GTJFN.   3b1b2

  Things that should be done   3b2

    (1) Find the bug in MAILER that causes him to blow-up
    regularly in GTJFN. Network Delivery looses big (of course)
    until this is fixed. The source for MAILER is
    <NET>MAILER.MAC; the running SAV file is <SYSTEM>MAILER.SAV
    (he runs under SYSJOB).   3b2a

    (2) Quite a few responses to my request for Network mailbox
    addresses (RFC 510, see -- 16400,) have been received so
    far. All of them are recorded in <WHITE>MLBXLST.NLS. The
    indicated changes should be made to the Ident file. Not
    many people will actually be getting Network Journal
    delivery until this info gets into the system.   3b2b

      Someone may want to read my SNDMSG and Journal mail while
      I'm gone, since these are the media through which further
      responses to my request will arrive. They can be added
      to the Ident file as soon as they arrive.   3b2b1

17328 Distribution

Donald C. (Smokey) Wallace, Kenneth E. (Ken) Victor, Michael D.
Kudlick, Richard W. Watson, Charles H. Irby, J. D. Hopper, James E.
(Jim) White, Richard W. Watson, J. D. Hopper, Diane S. Kaye, Walt
Bass, L. Peter Deutsch, James C. Norton, Michael D. Kudlick, Charles
H. Irby,

Network Journal Submission is Up and Running

(J17328) 19-JUN-73 19:38;   Title: Author(s): James E. (Jim)
White/JEW; Distribution: /DCW KEV MDK RWW CHI JDH JDDT JDRT;
Sub-Collections: SRI-ARC JDDT JDRT; Clerk: JEW;
Origin: <WHITE>NJSDOC.NLS;5, 19-JUN-73 19:30 JEW ;

reply to 17306: Print Complaint

Eleanor, several people have suggested that the print command should
not move the Control Marker. Do you think it should get moved if the
user stops the printing by typing ↑O[which usually means the user
saw something which needed changing)?? by the way, doing a SPACE r
CR will put you back where you were. -- Charles.   1

17329 Distribution
    Eleanor H. Warnock,

reply to 17306: Print Complaint

(J17329)   19-JUN-73 22:27;   Title: Author(s): Charles H. Irby/CHI;
Distribution: /EHW2; Sub-Collections: SRI-ARC; Clerk: CHI;

Itent typeout glitch

The typeout error you reported (Itent) is really NLS. Sorry. Will
fix soon. -- Charles.   1

17330 Distribution
    Nancy W. Mimno,

Itent typeout glitch

(J17330)   19-JUN-73 22:32;   Title: Author(s): Charles H. Irby/CHI;
Distribution: /NWM; Sub-Collections: SRI-ARC; Clerk: CHI;

nls observations

hello, how are you ?   i'm at bbn; where are you ?   1

now to try something else.   will this work as stated in the primer ?   2

it is ashamed that so much paper is wasted.   3

i can't think of anything else to say at this point.   4

this is so different than multics. i wonder how you enter a long
statement, i.e. more than one line ? very interesting.   5

17332 Distribution
   J. C. R. Licklider,

nls observations

(J17332) 20-JUN-73 08:31; Title: Author(s): Guest O. ARC/ARCG;
Distribution: /JCRL; Sub-Collections: SRI-ARC; Clerk: ARCG;
Origin: <GUEST>NOTE.NLS;1, 20-JUN-73 08:25 ARCG ;

Transmittal to Station Agents -- 91   NIC   17337
Jeanne North   4 JUL 73   1

                                                                            1a

        Enclosed: 1b

            NIC 15716 *NWG/RFC #499   HARVARD'S NETWORK RJE; Bradley A.
                Reussow.   1b1

            NIC 16819 *NWG/RFC #520   MEMO TO: FTP Group; John Day.   1b2

            NIC 17161 *NWG/RFC #525   MIT-MATHLAB MEETS UCSB-OLS;
                William Parrish, John R. Pickens (UCSB).   1b3

            NIC 17163 *NWG/RFC #527   ARPAWOCKY;
                R. Merryman (RGM) (UCSD-CC).   1b4

                                                                            1c

        *sent to Liaisons   1d

        MLK/kk   1e

                                                                             2

(J17337) 3-JUL-73 16:31;   Title: Author(s): Jeanne B. North/JBN ;
Distribution: /SA   MDK   JEW ; Sub-Collections: NIC ; Clerk: KIRK   ;

TRANSMITTAL TO: Eric Manning

TRANSMITTAL TO: Eric Manning
                   University of Waterloo
                   Department of Computer Science
                   Waterloo, Ontario, CANADA

FROM: Marcia Keeney (NIC)
                   Station Agent   1

At the request of John Postel, I am sending RFC 515.   1a

MLK/kk   1b

TRANSMITTAL TO: Eric Manning

(J17341) 27-JUN-73 18:17;   Title: Author(s): Marcia Lynn Keeney/MLK
; Distribution: /SA ; Sub-Collections: NIC ; Clerk: KIRK ;

TRANSMITTAL TO: Steve D. Crocker

TRANSMITTAL TO: Steve D. Crocker
                   Advanced Research Projects Agency
                   1400 Wilson Boulevard
                   Arlington, Virginia 22209

FROM: Marcia Keeney (NIC)
                   Station Agent   1

Edward Feigenbaum of SU-HP has requested that Joshua Lederberg be put
on general distribution (presumably List B, Network Associates).
Lederberg's address is as follows: 1a

    Joshua Lederberg
    Genetics Dept,
    Stanford School of Medicine
    Stanford, California 94305   1a1

Let me know if he can be added.   1b

MLK/kk   1c

TRANSMITTAL TO: Steve D. Crocker

(J17342) 27-JUN-73 18:19;   Title: Author(s): Marcia Lynn Keeney/MLK
; Distribution: /SA ; Sub-Collections: NIC ; Clerk: KIRK ;

TRANSMITTAL TO: John E. Kohl

TRANSMITTAL TO: John E. Kohl
                  USAF AFDSC/SFP
                  The Pentagon
                  Washington, D.C. 20330

FROM: Marcia Keeney (NIC)
                  Station Agent   1

I am enlosing a copy of the NLS User Guide (NIC 7590), Primer and
Scenario for using TNLS, and 5 copies of the TNLS Quick Reference
Card (NIC 14796).   1a

TRANSMITTAL TO: John E. Kohl

(J17343) 27-JUN-73 18:10;   Title: Author(s): Marcia Lynn Keeney/MLK
; Distribution: /SA ; Sub-Collections: NIC ; Clerk: KIRK ;

TRANSMITTAL TO: Edward A. Flinn

TRANSMITTAL TO: Edward A. Flinn
                   Alexandria Laboratories
                   Teledyne Geotech
                   P.O. Box 334
                   Alexandria, Virginia   22814

FROM: Marcia Keeney (NIC)
                   Station Agent   1

I am enlosing a copy of the NLS User Guide (NIC 7590), Primer and
Scenario for using TNLS, and 5 copies of the TNLS Quick Reference
Card (NIC 14796).   1a

TRANSMITTAL TO: Edward A. Flinn

(J17344) 27-JUN-73 18:14;   Title: Author(s): Marcia Lynn Keeney/MLK
; Distribution: /SA ; Sub-Collections: NIC ; Clerk: KIRK ;

TRANSMITTAL TO: Jerry D. Burchfiel

TRANSMITTAL TO: Jerry D. Burchfiel
                  Bolt Beranek and Newman Inc.
                  50 Moulton Street
                  Cambridge, Massachusetts 02138

FROM: Marcia Keeney (NIC)
           Station Agent   1

At your request, I am sending NIC 17069 and 16824.   1a

MLK/kk   1b

TRANSMITTAL TO: Jerry D. Burchfiel

(J17346)   27-JUN-73 18:22;   Title: Author(s): Marcia Lynn Keeney/MLK
; Distribution: /SA   ; Sub-Collections: NIC ; Clerk: KIRK ;

TRANSMITTAL TO: L. Peter Deutsch

TRANSMITTAL TO: L. Peter Deutsch
                  Xerox PARC
                  3180 Porter Drive
                  Palo Alto, California 94304

FROM: Marcia Keeney (NIC)
                  Station Agent   1

At your request, I am sending the following documents: 1a

    NIC 4757
    NIC 7147
    NIC 7545   1a1

MLK/kk   1b

17347 Distribution
      Station Agent,

TRANSMITTAL TO: L. Peter Deutsch

(J17347) 17-JUL-73 18:46;   Title: Author(s): Marcia Lynn Keeney/MLK
; Distribution: /SA ; Sub-Collections: NIC ; Clerk: KIRK ;

TRANSMITTAL TO: Leonard B. Fall

TRANSMITTAL TO: Leonard B. Fall
                   Wright-Patterson Air Force Base
                   4950/ADDO
                   Ohio 45433

FROM: Marcia Keeney (NIC)
                   Station Agent   1

Enclosed is your copy of the ARPA Network Resources Notebook (NIC
6740). This should complete your set of five functional documents.
You will receive updates to all five documents as they are issued.   1a

TRANSMITTAL TO: Leonard B. Fall

(J17348) 27-JUN-73 18:20;   Title: Author(s): Marcia Lynn Keeney/MLK
; Distribution: /SA ; Sub-Collections: NIC ; Clerk: KIRK ;

TRANSMITTAL TO: David Hsiao

TRANSMITTAL TO: David Hsiao
                   Ohio State University
                   2024 Neil Ave.
                   Columbus, Ohio 43210

FROM: Marcia Keeney (NIC)
                   Station Agent   1

Enclosed is your copy of the ARPA Network Resources Notebook (NIC
6740). This should complete your set of five functional documents.
You will receive updates to all five documents as they are issued.   1a

TRANSMITTAL TO: David Hsiao

(J17349)   27-JUN-73 18:21;   Title: Author(s): Marcia Lynn Keeney/MLK
; Distribution: /SA ; Sub-Collections: NIC ; Clerk: KIRK ;

TRANSMITTAL TO: Dewayne Hendricks

TRANSMITTAL TO: Dewayne Hendricks
                   Mental Health Research Institute
                   205 Washtenaw Place
                   University of Michigan
                   Ann Arbor, Michigan   48104

FROM: Marcia Keeney (NIC)
                   Station Agent   1

Steve Crocker of ARPA has suggested that you use the copy of ARPA
documentation that the MERIT computer Network has on hand. The
address is: 1a

   University of Michigan
   1037 North University Bldg.
   Ann Arbor, Michigan   48104   1a1

The representative there is E. M. Aupperle.   His phone is (313)
764-9423.   1b

I apologize for the delay in answering your letter.   1c

17350 Distribution
    Station Agent,

TRANSMITTAL TO: Dewayne Hendricks

(J17350) 17-JUL-73 18:49;   Title: Author(s): Marcia Lynn Keeney/MLK
; Distribution: /SA ; Sub-Collections: NIC ; Clerk: KIRK ;

Exercise File for Text Editing (Local Version)

This exercise is most useful as it appears when printed through
output device teletype.   1

    SYNTAX: SP.0 CA
        o[utput] d[evice] t[eletype] CA   1a

Conventions of this exercise: 2

    In commands, what the system echos is in square brackets,
    e.g., [echo].   2a

    Statements printed with their left margin in the center of the
    page are comments.   2b

    On most machines CA=↑D or CR; CDOT=↑B or ESC; SP=spacebar.   2c

    For further details of character and syntax conventions, see
    the TNLS User Guide (nic,locator,2j3:xbb)   2d

n[ull file F:] NEWNAME CA   3

i[nsert] s[tatement after A:] CA
[L:] CA
[T:] Leave your stepping stones behind, now something calls for
you. CDOT [@]
[L:] d CA   4

                                  The cdot allows you to enter a
                                  series of statements without
                                  repeating the first part of
                                  the insert command. The d
                                  enters the following statement
                                  one level lower in the
                                  hierarchy. Otherwise each
                                  statement enters at the level
                                  of the previous statement.   5

[T:] But whatever you want to keep, you'd better grab it fast.
CDOT [@]   6

                                  Following [L:] you may use
                                  SP instead of CA.   7

[L:] SP
[T:] Yonder stands your orphan with a gun. CDOT [@]   8

[L:] SP
[T:] Crying like a fire in the sun. CDOT [@]   9

Exercise File for Text Editing (Local Version)

[L:] SP
[T:] Lookout boy, things are coming through. CDOT [@]   10

[L:] SP
[T:] It's all over now, Baby Blue. CA   11

                                        To   see what you have.   12

p[rint] p[lex A:] .1 CA
[V:] CA   13

Leave your stepping stones behind, now something calls for you.   14

    But whatever you want to keep, you'd better grab it fast.   14a

    Yonder stands your orphan with a gun.   14b

    Crying like a fire in the sun.   14c

    Lookout boy, things are coming through.   14d

    It's all over now, Baby Blue.   14e

                                        If you   wanted to duplicate
                                        this branch, you would: 15

c[opy] b[ranch to follow A:] .1 CA
[from A:] .1 CA
[L:] CA   16

                                        If you want to see what you
                                        have: 17

p[rint] b[ranch A:] .0 CA
[V:] m CA   18

                                        The "m" between the CA's makes
                                        statement numbers print out.   19

<USERNAME>FILENAME.NLS;# Date Time IDENT;   20

1 Leave your stepping stones behind, now something calls for you.   21

    1A But whatever you want to keep, you'd better grab it fast.   21a

    1B Yonder stands your orphan with a gun.   21b

2

Exercise File for Text Editing (Local Version)

1C Crying like a fire in the sun.   21c

1D Lookout boy, things are coming through.   21d

1E It's all over now, Baby Blue.   21e

2 Leave your stepping stones behind, now something calls for you.   22

2A But whatever you want to keep, you'd better grab it fast.   22a

2B Yonder stands your orphan with a gun.   22b

2C Crying like a fire in the sun.   22c

2D Lookout boy, things are coming through.   22d

2E It's all over now, Baby Blue.   22e

You could get rid of the
duplicate branch by deleting
it as a branch, but, for the
sake of exercise, let's
dispose of it piecemeal.   23

d[elete] g[roup from A:] .2a CA
[(to) A:] .2c CA
[ok?] CA   24

p[rint] b[ranch A:] .2 CA
[V:] CA   25

TNLS will keep printing out
statement numbers with the
text until you command it to
stop.   26

2 Leave your stepping stones behind, now something calls for you.   27

2A Lookout boy, things are coming through.   27a

2B It'a all over now, Baby Blue.   27b

Note TNLS has renumbered the
remaining statements.   28

Exercise File for Text Editing (Local Version)

d[elete] p[lex at A:] .2b CA
[ok?] CA   29

                                              The address 2a would have
                                              specified the same plex.   30

p[rint] b[ranch A:] .2 CA
[V:] CA   31

 2 Leave your stepping stones behind, now something calls for
you.   32

d[elete] s[tatement at A:] .2 CA
[ok?] CA   33

p[rint] s[tatement A:] .2 CA
 [.2?   A:] ↑x (command delete)   34

                                              It questions you because there
                                              is now no statement 2.   35

                                              The last four lines of branch
                                              one make sense as a stanza by
                                              themselves. If you   wanted to
                                              set them up that way.   36

c[opy] g[roup to follow A:] .1 CA
[from A:] .1b CA
[(to) A:] .1e CA
[L:] CA   37

p[rint] p[lex A:] .1 CA
[V:] CA   38

1 Leave your stepping stones behind, now something calls for you.   39

  1A But whatever you want to keep, you'd better grab it fast.   39a

  1B Yonder stands your orphan with a gun.   39b

  1C Crying like a fire in the sun.   39c

  1D Lookout boy, things are coming through.   39d

  1E It's all over now, Baby Blue.   39e

2 Yonder stands your orphan with a gun.   40

Exercise File for Text Editing (Local Version)

3 Crying like a fire in the sun.   41

4 Lookout boy, things are coming through.   42

5 It's all over now, Baby Blue.   43

                                            Note that the system enters
                                            the group starting at the next
                                            available statement number
                                            below the address you entered.   44

                                            You might want to handle this
                                            short stanza by a special name
                                            that would stay with it as the
                                            numbering changes.   45

r[eplace] c[haracter at A:] .2 CA
[by T:] (shorty) SP Y CA   46

                                            We will discuss the commands
                                            that affect characters further
                                            below.
                                                                                     47

p[rint] s[tatement A:] .shorty CA
[V:] CA   48

2 (shorty) Yonder stands your orphan with a gun.   49

                                            To   arrange the lines
                                            following the first line as
                                            substatements, move the group
                                            "down":   50

m[ove] g[roup to follow A:] .shorty CA
[from A:] .3 CA
[(to) A:] .5 CA
[L:] d CA   51

                                            Now they form a branch with
                                            the source .2 (or "shorty").   52

p[rint] b[ranch A:] .shorty CA
[V:] CA   53

Exercise File for Text Editing (Local Version)

2 (shorty) Yonder stands your orphan with a gun.   54

  2a Crying like a fire in the sun.   54a

  2b Lookout boy, things are coming through.   54b

  2c It's all over now, Baby Blue.   54c

                    Note that to move some entity,
the system first copies it and
then deletes the original.   55

                    These two stanzas are now two
branches that can be
transposed.   56

t[ranspose] b[ranch at A:] .1 CA
[and A:] .shorty SP CA   57

p[rint] p[lex A:] .shorty   CA
[V:] CA   58

1 (shorty) Yonder stands your orphan with a gun.   59

  1a Crying like a fire in the sun.   59a

  1b Lookout boy, things are coming through.   59b

  1c It's all over now, Baby Blue.   59c

2 Leave your stepping stones behind, now something calls for you.   60

  2a But whatever you want to keep, you'd better grab it fast.   60a

  2b Yonder stands your orphan with a gun.   60b

  2c Crying like a fire in the sun.   60c

  2d Lookout boy, things are coming through.   60d

  2e It's all over now, Baby Blue.   60e

                    You might want to replace a
line or a stanza with
something else. In the

Exercise File for Text Editing (Local Version)

                                            simplest case you would
                                            replace one statement with
                                            another.   Such replacement is
                                            equivalent to a delete and
                                            copy: 61

r[eplace] s[tatement at A:] .1a CA
[by T:] CDOT [@A:] .1c CA   62

p[rint] p[lex A:] .1a CA
[V:] CA   63

    1a It's all over now, Baby Blue.   63a

    1b Lookout boy, things are coming through.   63b

    1c It's all over now, Baby Blue.   63c

                                            You might prefer however to
                                            replace the line with one of
                                            your own. In that case you
                                            take the yes approach.   64

r[eplace] s[tatement at A:] .1a CA
[by T:] Looking for his mother in law. CA   65

p[rint] b[ranch A:] .shorty CA
[V:] CA   66

1 (shorty) Yonder stands your orphan with a gun.   67

    1a Looking for his mother in law.   67a

    1b Lookout boy, things are coming through.   67b

    1c It's all over now, Baby Blue.   67c

                                            Note that if you replace a
                                            branch, plex, or group with
                                            Lit, the Lit must appear as
                                            one statement.   68

r[eplace] p[lex at A:] .1a CA
[by T:] Let's get rid of this mess. CA   69

p[rint] b[ranch A:] .shorty CA
[V:] CA   70

1 (shorty) Yonder stands your orphan with a gun.   71

Exercise File for Text Editing (Local Version)

1a Let's get rid of this mess.   72

> We can get back to the
> original form of (shorty) by
> replacing .1a with the intact
> statements now in branch 2.
> Note that to move a group you
> have to put a double address
> in both parts of the command.   73

r[eplace] g[roup from A:] .1a CA
[(to) A:] .1a CA
[T:] CDOT [@A:] .2c CA
[(to) A:] .2e CA   74

p[rint] b[ranch A:] .shorty CA
[V:] CA   75

1 (shorty) Yonder stands your orphan with a gun.   76

  1A Crying like a fire in the sun.   76a

  1B Lookout boy, things are coming through.   76b

  1C It's all over now, Baby Blue.   76c

> The most powerful single
> command for editing text is
> substitute.   77

s[ubstitute] t[ext]
[New: T:] x CA
[For Old: T:] SP CA
[Finished?] Y[es]
[In] S[tatement A:] .1 CA

[substitutions = 7]   78

1 (shorty)xYonderxstandsxyourxorphanxwithxaxgun   79

> Note that the entity named in
> the substitute command is the
> range over which it operates
> character by character.   80

s[ubstitute] t[ext]

Exercise File for Text Editing (Local Version)

```
[New: T:] E CA
[For Old: T:] e CA
[Finished?] Y[es]
[In] P[lex A:] .1a CA
[substitute in progress]
[substitutions = 6]                                          81

p[rint] p[lex A:] .1a CA
[V:] CA
                                                             82

1a Crying likE a firE in thE sun.                            83

1b Lookout boy, things arE coming through.                   84

1c It's all ovEr now, Baby BluE.                             85
```

                                    The alternative at "Go?"
                                    allows you to make more than
                                    one substitution at a sweep.   86

```
s[ubstitute] t[ext]
[New: T:] SP CA
[For Old: T:] x CA
[Finished?] N[o]
[New: T:] e CA
[For Old: T:] E CA
[Finished?] Y[es]
[In] b[ranch A:] .1 CA
[Substitute in Progress]
[Substitutions =13]                                          87

p[rint] b[ranch A:] .1 CA
[V:] CA                                                      88

1 (shorty) Yonder stands your orphan with a gun.             89

   1a Crying like a fire in the sun.                         89a

   1b Lookout boy, things are coming through.                89b

   1c It's all over now, Baby Blue.                          89c
```

                                    In editing, it is often
                                    useful to substitute longer
                                    strings.   89d

```
   s[ubstitute] t[ext]
   [New: T:] flower CA
```

Exercise File for Text Editing (Local Version)

```
    [For Old: T: ] gun CA
    [Finished?] N[ o ]
    [New: T: ] shower CA
    [For Old: T: ] sun CA
    [Finished?] Y[ es ]
    [In] b[ ranch A: ] .1 CA
    [Substitute in Progress]
    [Substitutions=2 ]                                          89e
```

```
p[ rint ] b[ ranch A: ] .1 CA
[ V: ] CA                                                       90
```

1 (shorty) Yonder stands your orphan with a flower.   91

   1A Crying like a fire in the shower.   91a

   1B Lookout boy, things are coming through.   91b

   1C It's all over now, Baby Blue.   91c

                        To consider other methods of
editing smaller than
statements, let us begin by
making a statement wherein
changes show up easily.   92

```
r[ eplace ] b[ ranch A: ] .shorty CA
[ by T: ] abc, def, ghi, jkl, mno. CA                          93
```

```
p[ rint ] s[ tatement A: ] CA
[ V: ] m CA                                                     94
```

1 abc, def, ghi, jkl, mno.   95

1 abc, def, ghi, jkl, mno.   96

```
/<
    >abc, def                                                  97
```

```
i[ nsert ] c[ haracter after A: ] .1 SP +1 CA
[ T: ] P CA
                                                               98
```

1 abPc, def, ghi, jkl, mno.   99

Exercise File for Text Editing (Local Version)

In editing commands, a "word"
differs from a character,
text, or visible, in that the
system arranges the
non-alphabetic characters to
preserve the strings
identified as a word.   100

i[nsert] w[ord after A:] .1 SP + 1 CA
[T:] P CA   101

1 abPc P, def, ghi, jkl, mno.   102

When you inserted a "word" the
system set it up with proper
spacing in the first available
spot.   103

c[opy] s[tatement to follow A:] CA
[from A:] CA
[L:] CA   104

p[rint] g[roup from A:] .1 CA
[(to) A:] .2 CA
[V:] CA   105

1 abPc P, def, ghi, jkl, mno.   106

2 abPc P, def, ghi, jkl, mno.   107

The delete command handles
words and characters the same
way the insert command does.   108

d[elete] c[haracter at A:] .2 SP 'P CA
 [ok?] CA   109

2 abc P, def, ghi, jkl, mno.   110

d[elete] w[ord at A:] .2 SP [P] CA
[ok?] CA   111

2 abc, def, ghi, jkl, mno.   112

Or, since <> specifies search
for a word.   113

d[elete] w[ord at A:] .1 SP <P> CA
[ok?] CA   114

1 abPc, def, ghi, jkl, mno   115

Note the spacing and the comma
in statement 1 have been taken
care of.   116

Insert text turns out to be
exactly like insert character
because the system again makes
no provision for spacing.   117

i[nsert] t[ext after A:] .1 SP 'd CA
[T:] text CA   118

1 abPc, dtextef, ghi, jkl, mno.   119

Delete text, however, requires
an address to point to each
end of the text.   120

d[elete] t[ext from A:] .1 SP 1w SP 1c CA
[(to) A:] .1 SP [xt] CA [ok?] CA   121

1 abPc, def, ghi, jkl, mno.   122

Like transpose group,
transpose text requires a
total of four adresses, one
for each end of each string: 123

t[ranspose] t[ext from A:] .1 CA
[(to) A:] .1 SP ', CA
[and from A:] .2 SP 'm CA
[(to) A:] .2 SP > CA   124

p[rint] g[roup from A:] .1 CA
[(to) A:] .2 CA
[V:] CA   125

Exercise File for Text Editing (Local Version)

1 mno. def, ghi, jkl, mno.   126

2 abc, def, ghi, jkl, abPc,   127

                                    The replace command may bring
                                    in either text or the content
                                    of a statement address. To
                                    bring in text: 128

r[eplace] w[ord at A:] .2 SP > CA
[by T:] last word CA   129

2 abc, def, ghi, jkl, last word   130

                                    Note that the comma at the end
                                    of 2 did not confuse the
                                    system. To replace with the
                                    content of a statement
                                    address: 131

r[eplace] w[ord at A:] .1 SP +21 CA
[by T:] CDOT [@A:] .3e CA   132

1 mno. def, ghi, jkl, It.   133

                                    Since the command named a
                                    word, it picked up a word from
                                    the source text. When the
                                    command names text, you have
                                    to supply an address consonat
                                    with text.   134

r[eplace] t[ext from A:] .1 SP 'I CA
[(to) A:] .1 SP > CA
[T:] CDOT [@A:] .3e CA
[(to) A:] .3e SP > CA   135

1 mno. def, ghi, jkl, It's all over now, Baby Blue.   136

                                    Copy and move work like
                                    insert. They differ only in

Exercise File for Text Editing (Local Version)

                                        whether they leave behind the
                                        original   137

m[ove] w[ord to follow A:] .1 SP 'd CA
[from A:] .1 CA   138

1 . def mno, ghi, jkl, It's all over now, Baby Blue.   139

c[opy] w[ord to follow A:] .2 SP [st] CA
[from A:] .1 SP > CA   140

p[rint] g[roup from A:] .1 CA
[(to) A:] .2 CA
[V:] CA   141

1 . def mno, ghi, jkl,   It's all over now, Baby Blue.   142

2 abc, def, ghi, jkl, last Blue. word
                                                                                    143

The table below shows a partial matrix of TNLS editing commands.
The commands may also be applied to the entities invisible, link,
and number. This file exercises the forms x'd. All the options
work except those marked with dashes.
                                                                                    144

	'stmnt	brnch	plex	group	charc	word	text	
insert	' x	-----	-----	-----	x	x	x	146
print	' x	x	x	x	-----	-----	-----	147
delete	' x		x	x	x	x	x	148
copy	' x	x		x		x		149
move	'					x		150
transps	'	x				x		151
replace	' x	x	x	x	x	x	x	152
	'							153

Exercise File for Text Editing (Local Version)

(J17351) 26-JUN-73 14:48; Author(s): Susan R. Lee/SRL;
Sub-Collections: SRI-ARC; Clerk: SRL;
Origin: <LEE>11311.NLS;6, 26-JUN-73 14:16 SRL ; Title: Author(s):
Dirk H. van Nouhuys/DVN; Sub-Collections: NIC TU; Clerk: BER;
Origin: <NIC>XED.NLS;9, 26-JUN-72 16:49 DVN ;

Exercise File for Text Editing (Network Version)

This may help review some of the things you learned, if you have
any trouble, get in touch.

Exercise File for Text Editing (Network Version)

This exercise is most useful as it appears when printed through
output device teletype.   1

    SYNTAX: SP.0 CA
          o[utput] d[evice] t[eletype] CA   1a

Conventions of this exercise: 2

    In commands, what the system echos is in square brackets,
    e.g., [echo].   2a

    Statements printed with their left margin in the center of the
    page are comments.   2b

    On most machines CA=↑D or CR; CDOT=↑B or ESC; SP=spacebar.   2c

    For further details of character and syntax conventions, see
    the TNLS User Guide (nic,locator,2j3:xbb)   2d

n[ull file F:] NEWNAME CA   3

i[nsert] s[tatement after A:] CA
[L:] CA
[T:] Leave your stepping stones behind, now something calls for
you. CDOT [@]
[L:] d CA   4

                                  The cdot allows you to enter a
                                  series of statements without
                                  repeating the first part of
                                  the insert command. The d
                                  enters the following statement
                                  one level lower in the
                                  hierarchy. Otherwise each
                                  statement enters at the level
                                  of the previous statement.   5

[T:] But whatever you want to keep, you'd better grab it fast.
CDOT [@]   6

                                  Following [L:] you may use
                                  SP instead of CA.   7

[L:] SP
[T:] Yonder stands your orphan with a gun. CDOT [@]   8

[L:] SP
[T:] Crying like a fire in the sun. CDOT [@]   9

Exercise File for Text Editing (Network Version)

[L:] SP
[T:] Lookout boy, things are coming through. CDOT [@]   10

[L:] SP
[T:] It's all over now, Baby Blue. CA   11

                                To see what you have.   12

p[rint] p[lex A:] .1 CA
[V:] CA   13

Leave your stepping stones behind, now something calls for you.   14

    But whatever you want to keep, you'd better grab it fast.   14a

    Yonder stands your orphan with a gun.   14b

    Crying like a fire in the sun.   14c

    Lookout boy, things are coming through.   14d

    It's all over now, Baby Blue.   14e

                                If you wanted to duplicate
                                this branch, you would: 15

c[opy] b[ranch to follow A:] .1 CA
[from A:] .1 CA
[L:] CA   16

                                If you want to see what you
                                have: 17

p[rint] b[ranch A:] .0 CA
[V:] m CA   18

                                The "m" between the CA's makes
                                statement numbers print out.   19

<USERNAME>FILENAME.NLS;# Date Time IDENT;   20

1 Leave your stepping stones behind, now something calls for you.   21

    1A But whatever you want to keep, you'd better grab it fast.   21a

    1B Yonder stands your orphan with a gun.   21b

1C Crying like a fire in the sun.   21c

1D Lookout boy, things are coming through.   21d

1E It's all over now, Baby Blue.   21e

2 Leave your stepping stones behind, now something calls for you.   22

2A But whatever you want to keep, you'd better grab it fast.   22a

2B Yonder stands your orphan with a gun.   22b

2C Crying like a fire in the sun.   22c

2D Lookout boy, things are coming through.   22d

2E It's all over now, Baby Blue.   22e

                              You could get rid of the
                              duplicate branch by deleting
                              it as a branch, but, for the
                              sake of exercise, let's
                              dispose of it piecemeal.   23

d[elete] g[roup from A:] .2a CA
[(to) A:] .2c CA
[ok?] CA   24

p[rint] b[ranch A:] .2 CA
[V:] CA   25

                              TNLS will keep printing out
                              statement numbers with the
                              text until you command it to
                              stop.   26

2 Leave your stepping stones behind, now something calls for you.   27

2A Lookout boy, things are coming through.   27a

2B It'a all over now, Baby Blue.   27b

                              Note TNLS has renumbered the
                              remaining statements.   28

d[elete] p[lex at A:] .2b CA
[ok?] CA   29

                                        The address 2a would have
                                        specified the same plex.   30

p[rint] b[ranch A:] .2 CA
[V:] CA   31

  2 Leave your stepping stones behind, now something calls for
you.   32

d[elete] s[tatement at A:] .2 CA
[ok?] CA   33

p[rint] s[tatement A:] .2 CA
 [.2? A:] ↑x (command delete)   34

                                        It questions you because there
                                        is now no statement 2.   35

                                        The last four lines of branch
                                        one make sense as a stanza by
                                        themselves. If you wanted to
                                        set them up that way.   36

c[opy] g[roup to follow A:] .1 CA
[from A:] .1b CA
[(to) A:] .1e CA
[L:] CA   37

p[rint] p[lex A:] .1 CA
[V:] CA   38

1 Leave your stepping stones behind, now something calls for you.   39

   1A But whatever you want to keep, you'd better grab it fast.   39a

   1B Yonder stands your orphan with a gun.   39b

   1C Crying like a fire in the sun.   39c

   1D Lookout boy, things are coming through.   39d

   1E It's all over now, Baby Blue.   39e

2 Yonder stands your orphan with a gun.   40

Exercise File for Text Editing (Network Version)

3 Crying like a fire in the sun.   41

4 Lookout boy, things are coming through.   42

5 It's all over now, Baby Blue.   43

                              Note that the system enters
                              the group starting at the next
                              available statement number
                              below the address you entered.   44

                              You might want to handle this
                              short stanza by a special name
                              that would stay with it as the
                              numbering changes.   45

r[eplace] c[haracter at A:] .2 CA
[by T:] (shorty) SP Y CA   46

                              We will discuss the commands
                              that affect characters further
                              below.
                                                               47

p[rint] s[tatement A:] .shorty CA
[V:] CA   48

2 (shorty) Yonder stands your orphan with a gun.   49

                              To   arrange the lines
                              following the first line as
                              substatements, move the group
                              "down":   50

m[ove] g[roup to follow A:] .shorty CA
[from A:] .3 CA
[(to) A:] .5 CA
[L:] d CA   51

                              Now they form a branch with
                              the source .2 (or "shorty").   52

p[rint] b[ranch A:] .shorty CA
[V:] CA   53

2 (shorty) Yonder stands your orphan with a gun.   54

    2a Crying like a fire in the sun.   54a

    2b Lookout boy, things are coming through.   54b

    2c It's all over now, Baby Blue.   54c

                              Note that to move some entity,
                              the system first copies it and
                              then deletes the original.   55

                              These   two stanzas are now two
                              branches that can be
                              transposed.   56

t[ranspose] b[ranch at A:] .i CA
[and A:] .shorty SP CA   57

p[rint] p[lex A:] .shorty CA
[V:] CA   58

1 (shorty) Yonder stands your orphan with a gun.   59

    1a Crying like a fire in the sun.   59a

    1b Lookout boy, things are coming through.   59b

    1c It's all over now, Baby Blue.   59c

2 Leave your stepping stones behind, now something calls for you.   60

    2a But whatever you want to keep, you'd better grab it fast.   60a

    2b Yonder stands your orphan with a gun.   60b

    2c Crying like a fire in the sun.   60c

    2d Lookout boy, things are coming through.   60d

    2e It's all over now, Baby Blue.   60e

                              You   might want to replace a
                              line or a stanza with
                              something else.   In the

simplest case you would
replace one statement with
another.   Such replacement is
equivalent to a delete and
copy: 61

r[eplace] s[tatement at A:] .1a CA
[by T:] CDOT [@A:] .1c CA   62

p[rint] p[lex A:] .1a CA
[V:] CA   63

    1a It's all over now, Baby Blue.   63a

    1b Lookout boy, things are coming through.   63b

    1c It's all over now, Baby Blue.   63c

                        You might prefer however to
                        replace the line with one of
                        your own. In that case you
                        take the yes approach.   64

r[eplace] s[tatement at A:] .1a CA
[by T:] Looking for his mother in law. CA   65

p[rint] b[ranch A:] .shorty CA
[V:] CA   66

1 (shorty) Yonder stands your orphan with a gun.   67

    1a Looking for his mother in law.   67a

    1b Lookout boy, things are coming through.   67b

    1c It's all over now, Baby Blue.   67c

                        Note that if you replace a
                        branch, plex, or group with
                        Lit, the Lit must appear as
                        one statement.   68

r[eplace] p[lex at A:] .1a CA
[by T:] Let's get rid of this mess. CA   69

p[rint] b[ranch A:] .shorty CA
[V:] CA   70

1 (shorty) Yonder stands your orphan with a gun.   71

Exercise File for Text Editing (Network Version)

1a Let's get rid of this mess.   72

                                  We can get back to the
original form of (shorty) by
replacing .1a with the intact
statements now in branch 2.
Note that to move a group you
have to put a double address
in both parts of the command.   73

r[eplace] g[roup from A:] .1a CA
[(to) A:] .1a CA
[T:] CDOT [∂A:] .2c CA
[(to) A:] .2e CA   74

p[rint] b[ranch A:] .shorty CA
[V:] CA   75

1 (shorty) Yonder stands your orphan with a gun.   76

   1A Crying like a fire in the sun.   76a

   1B Lookout boy, things are coming through.   76b

   1C It's all over now, Baby Blue.   76c

                                  The most powerful single
command for editing text is
substitute.   77

s[ubstitute] s[tatement at A:] .1 CA
[New: T:] x CA
[For Old: T:] SP CA
[Go?] Y[es]

[substitutions made = 7]   78

1 (shorty)xYonderxstandsxyourxorphanxwithxaxgun   79

                                  Note that the entity named in
the substitute command is the
range over which it operates
character by character.   80

s[ubstitute] p[lex at A:] .1a CA
[New: T:] E CA

Exercise File for Text Editing (Network Version)

[For Old: T:] e CA
[Go?] Y[es]

[substitute in progress]
[substitutions made = 6]   81

p[rint] p[lex A:] .1a CA
[V:] CA
                                                                     82

1a Crying likE a firE in thE sun.   83

1b Lookout boy, things arE coming through.   84

1c It's all ovEr now, Baby BluE.   85

                                    The alternative at "Go?"
                                    allows you to make more than
                                    one substitution at a sweep.   86

s[ubstitute] b[ranch at A:] .1 CA
[New: T:] SP CA
[For Old: T:] x CA
[Go?] N[o]
[New: T:] e CA
[For Old: T:] E CA
[Go?] Y[es]

[Substitute in Progress]
[Substitutions made =13]   87

p[rint] b[ranch A:] .1 CA
[V:] CA   88

1 (shorty) Yonder stands your orphan with a gun.   89

   1a Crying like a fire in the sun.   89a

   1b Lookout boy, things are coming through.   89b

   1c It's all over now, Baby Blue.   89c

                                    In editing, it is often
                                    useful to substitute longer
                                    strings.   89d

   s[ubstitute] b[ranch at A:] .1 CA
   [New: T:] flower CA
   [For Old: T:] gun CA

Exercise File for Text Editing (Network Version)

        [Go?] N[o]
        [New: T:] shower CA
        [For Old: T:] sun CA
        [Go?] Y[es]

        [Substitute in Progress]
        [Substitutions made =2]   89e

p[rint] b[ranch A:] .1 CA
[V:] CA   90

1 (shorty) Yonder stands your orphan with a flower.   91

    1A Crying like a fire in the shower.   91a

    1B Lookout boy, things are coming through.   91b

    1C It's all over now, Baby Blue.   91c

                                To consider other methods of
                                editing smaller than
                                statements, let us begin by
                                making a statement wherein
                                changes show up easily.   92

r[eplace] b[ranch A:] .shorty CA
[by T:] abc, def, ghi, jkl, mno. CA   93

p[rint] s[tatement A:] CA
[V:] m CA   94

1 abc, def, ghi, jkl, mno.   95

1 abc, def, ghi, jkl, mno.   96

/<
    >abc, def   97

i[nsert] c[haracter after A:] .1 SP +1 CA
[T:] P CA
                                                                  98

1 abPc, def, ghi, jkl, mno.   99

                                In editing commands, a "word"

Exercise File for Text Editing (Network Version)

                                        differs from a character,
                                        text, or visible, in that the
                                        system arranges the
                                        non-alphabetic characters to
                                        preserve the strings
                                        identified as a word.   100

i[nsert] w[ord after A:] .1 SP + 1 CA
[T:] P CA   101

1 abPc P, def, ghi, jkl, mno.   102

                                        When you inserted a "word" the
                                        system set it up with proper
                                     ' spacing in the first available
                                        spot.   103

c[opy] s[tatement to follow A:] CA
[from A:] CA
[L:] CA   104

p[rint] g[roup from A:] .1 CA
[(to) A:] .2 CA
[V:] CA   105

1 abPc P, def, ghi, jkl, mno.   106

2 abPc P, def, ghi, jkl, mno.   107

                                        The delete command handles
                                        words and characters the same
                                        way the insert command does.   108

d[elete] c[haracter at A:] .2 SP 'P CA
 [ok?] CA   109

2 abc P, def, ghi, jkl, mno.   110

d[elete] w[ord at A:] .2 SP [P] CA
[ok?] CA   111

2 abc, def, ghi, jkl, mno.   112

Or, since <> specifies search
for a word.   113

d[elete] w[ord at A:] .1 SP <P> CA
[ok?] CA   114

1 abPc, def, ghi, jkl, mno   115

Note the spacing and the comma
in statement 1 have been taken
care of.   116

Insert text turns out to be
exactly like insert character
because the system again makes
no provision for spacing.   117

i[nsert] t[ext after A:] .1 SP 'd CA
[T:] text CA   118

1 abPc, dtextef, ghi, jkl, mno.   119

Delete text, however, requires
an address to point to each
end of the text.   120

d[elete] t[ext from A:] .1 SP 1w SP 1c CA
[(to) A:] .1 SP [xt] CA [ok?] CA   121

1 abPc, def, ghi, jkl, mno.   122

Like transpose group,
transpose text requires a
total of four adresses, one
for each end of each string: 123

t[ranspose] t[ext from A:] .1 CA
[(to) A:] .1 SP ', CA
[and from A:] .2 SP 'm CA
[(to) A:] .2 SP > CA   124

p[rint] g[roup from A:] .1 CA
[(to) A:] .2 CA
[V:] CA   125

Exercise File for Text Editing (Network Version)

1 mno. def, ghi, jkl, mno.   126

2 abc, def, ghi, jkl, abPc,   127

The replace command may bring
in either text or the content
of a statement address. To
bring in text: 128

r[eplace] w[ord at A:] .2 SP > CA
[by T:] last word CA   129

2 abc, def, ghi, jkl, last word   130

Note that the comma at the end
of 2 did not confuse the
system. To replace with the
content of a statement
address: 131

r[eplace] w[ord at A:] .1 SP +21 CA
[by T:] CDOT [@A:] .3e CA   132

1 mno. def, ghi, jkl, It.   133

Since the command named a
word, it picked up a word from
the source text. When the
command names text, you have
to supply an address consonat
with text.   134

r[eplace] t[ext from A:] .1 SP 'I CA
[(to) A:] .1 SP > CA
[T:] CDOT [@A:] .3e CA
[(to) A:] .3e SP > CA   135

1 mno. def, ghi, jkl, It's all over now, Baby Blue.   136

Copy and move work like
insert. They differ only in

Exercise File for Text Editing (Network Version)

                                        whether they leave behind the
                                        original   137

m[ove] w[ord to follow A:] .1 SP 'd CA
[from A:] .1 CA   138

1 . def mno, ghi, jkl, It's all over now, Baby Blue.   139

c[opy] w[ord to follow A:] .2 SP [st] CA
[from A:] .1 SP > CA   140

p[rint] g[roup from A:] .1 CA
[(to) A:] .2 CA
[V:] CA   141

1 . def mno, ghi, jkl,   It's all over now, Baby Blue.   142

2 abc, def, ghi, jkl, last Blue. word
                                                                         143

The table below shows a partial matrix of TNLS editing commands.
The commands may also be applied to the entities invisible, link,
and number. This file exercises the forms x'd. All the options
work except those marked with dashes.
                                                                         144

	'stmnt	brnch	plex	group	charc	word	text	
insert	' x	-----	-----	-----	x	x	x	146
print	' x	x	x	x	-----	----	----	147
delete	' x		x	x	x	x	x	148
copy	' x	x		x		x		149
move	'					x		150
transps	'	x				x		151
replace	' x	x	x	x	x	x	x	152
	'							153

Line 145 header: 'stmnt brnch plex group charc word text — 145

Exercise File for Text Editing (Network Version)

(J17352) 26-JUN-73 14:53;   Author(s): Susan R. Lee/SRL; Distribution:
/GLB PK2 PJK; Sub-Collections: SRI-ARC; Clerk: SRL;
Origin: <LEE>N11311.NLS;3, 26-JUN-73 14:22 SRL ;   Title: Author(s):
Dirk H. van Nouhuys/DVN; Sub-Collections: NIC TU; Clerk: BER;
Origin: <NIC>XED.NLS;9, 26-JUN-72 16:49 DVN ;

TRANSMITTAL TO: Gary Blunck

TRANSMITTAL TO: Gary Blunck
                  Commanding Officer
                  Rock Island Arsenal
                  SWERR-R
                  Attn: Gary A. Blunck
                  Rock Island, Illinois   61201

FROM: Marcia Keeney (NIC)
                  Station Agent   1

At your request, I am sending the following documents: 1a

     NIC 15573
     NIC 16468
     NIC 16470
     NIC 16471
     NIC 16515
     NIC 16520
     NIC 16521
     NIC 16525
     NIC 16526   1a1

MLK/kk   1b

TRANSMITTAL TO: Gary Blunck

(J17354) 27-JUN-73 18:23;   Title: Author(s): Marcia Lynn Keeney/MLK
; Distribution: /SA ; Sub-Collections: NIC ; Clerk: KIRK ;

17352 Distribution
   Gary L. Bockweg, Paula Kazanjian, Pam J. Klotz Cutler,

1

TRANSMITTAL TO: Michael H. Smith

TRANSMITTAL TO: Michael H. Smith
                  Bldg. 114 Room 122
                  Jet Propulson Laboratory
                  4800 Oakgrove Drive
                  Pasadena, California 91103

FROM: Marcia Keeney (NIC)
                  Station Agent   1

At the request of Steve Coles, I am sending basic documentation on
the ARPA Network: 1a

   NIC 11626
   NIC 11681
   NIC 12324   1a1

MLK/kk   1b

17355 Distribution
    Station Agent,

1

TRANSMITTAL TO: Michael H. Smith

(J17355)   17-JUL-73 18:48;   Title: Author(s): Marcia Lynn Keeney/MLK
; Distribution: /SA ; Sub-Collections: NIC ; Clerk: KIRK ;