

Implemented items and rejected suggestions received by ARC feedback  
as of May 1, 1974

The following is a list of rejected suggestions and implemented items  
as of May 1, 1974,

Rejected Suggestions

JBN Suggestion for Change in Journal Hardcopy Format  
25=NOV=73 20:42 (IJOURNAL, 20492, 1:w)

KIRK NP \* DNLS NP Augmented Insert and Combined Move & Replace  
command plan,  
15=FEB=73 16:59 14453== ?? (IJOURNAL, 14453, 1:w)

KIRK Proposal for a Structural Language that Communicates  
Databases Online  
20=MAY=73 19:16 (IJOURNAL, 16347, 1:w)

KIRK AN NLS INFORMATION RETRIEVAL SYSTEM & revision of 16347  
15=JUL=73 20:39 (LJOURNAL, 17815, 1:w)

Comments: This has been reissued because of renewed interest  
in an NLS Query Language and because of changes in the  
previous version especially in the proposed TNLS command  
syntax,

Comments: This file has been formatted for easy online access  
and is not intended to "flow" if read in hardcopy. Much thanks  
to Mill Jernigan and Dirk vanNouhuys for their comments and  
suggestions,

KIRK Inside the TNLS Query Mode  
3=JUN=73 23:59 (IJOURNAL, 17012, 1:w)

HGL Reply to Kirk's (17012,) on Query  
5=JUN=73 08:56 (IJOURNAL, 17042, 1:w)

KIRK Comment on the idea of  
30=JUL=73 14:37 (LJOURNAL, 18122, 1:w)

HGL Reply to Kirk's query comment (18122,)  
31=JUL=73 09:24 (LJOURNAL, 18134, 1:w)

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KIRK Response to Harveys considerations (18134,) 2e2  
31=JUL=73 15:50 (LJOURNAL, 18151, 1:w)

KIRK Proposed system for handling links in NLS query languages, 2f  
4=JUL=73 16:40 (KJOURNAL, 17636, 1:w)

KIRK 20=FEB=74 18:00 22009  
A list of six complaints concerning the new nls  
Location: (HJOURNAL, 22009, 1:w) 2g

22=FEB=74 15:19=PDT KELLEY: newnls gripe  
Received 22=FEB=74 15:19:16 2g1

THERE IS NO WAY TO SPECIFY VIEWSPECS WITH THE LOAD FILE  
COMMAND!! 2g1a

Why doesn't the load file commad allow viewspecification as in  
the old system? 2g2

JBN would like to see a Page with END OF FILE on it at the end of  
files being printed that are not immediately followed by another  
file in the printer. This is because there is no way of telling  
when the printer stops whether it is done or not, and you have to  
push form-feed in order to get to your copy, 2h

KIRK Substitution Courtesy  
23=MAY=73 19:55 16789 Message:

If you are going to change the NLS Substitute command all around,  
the least you could do is let yourself know how many substitutions  
have been made BEFORE going ahead and making them so that you can  
abort if you got more than you intended. == A simple courtesy that  
is helplessly frustrating otherwise. Have you ever tried to undo  
a substitute that substituted too much? It's one of those things  
that keeps snow-balling. The more you try to get yourself back  
where you started, the more messed up your file becomes, 2i

KIRK DNLS top fourth of screen, 2j

If the name of the current subsystem is going to replace the  
date and time, then why move the viewspec feedback area? 2j1

I thought the date and time and maybe even the viewspec area  
was going to be accessible through the tty simulation window  
instead of being permanent areas. This was so the two line tty

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simulation window could be lengthened. If this valuable format  
is not going to happen, I would like to have the time  
underneath the subsystem name. I miss the time,

2j2

KIRK thoughts about the tty window in new DNLS  
5-FEB-74 17:53 (HJOURNAL, 21803, 1:w)

2k

When commands appear in the tty window, how about getting rid  
of viewspecs and the subsystem name. They could be readily  
available like the time and everything else. Viewspect "?"  
would display the current viewspecs, and we already have the  
"<" and ">" commands for getting the subsystem,

2k1

This would allow all but except for two lines of the screen to  
contain text,

2k2

There are certain things that should not be displayed in the  
tty window. Things like file status and other show commands.  
I don't think text insertion should show up there because you  
couldn't read two lines above what you have written and you  
couldn't have automatic backspace reformatting,

2k3

KIRK

5-FEB-74 16:14 21800 Message:

%In the Jump to File Return command. Since "Ahead" went away,  
"Return" should be a noise word instead of a Command-word so that  
you don't have to type it every time,

2l

KIRK Thoughts about I;, N;, and F;

13-JAN-74 17:15 21376 Message:

I; and maybe even N; but not F; should be reinstated as prompts.  
F; is part of the DAE so it should not be given special treatment.  
N; can be confused with one of the nouns for an editing command,  
though I think it should be used exclusively in the Journal  
subsystem. I won't push it. However, I; is at least as special  
as A;. If A; is not going to be replaced by T;, then neither  
should I;. Even though both are typed in, one refers to a place  
address, and the other refers to a person, or group of person's  
identifier(s). Both should be prompted, or a consistent reason  
should be given for prompting one, but not the other. I; is  
doubly special in that it allows other things besides Idents and  
has very special searching instructions that a user needs to  
associate with a single prompt. It is almost it's own little  
subsystem. Lets give it the recognition it's due,

2m

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KIRK Deinstitutione Seqgenerator (program) CONFIRM  
could be  
Deinstitutione Sequence (generator program) CONFIRM

2n

%only 6 characters allowed to define uniqueness sequence=  
conflicts with sequential,%

2n1

KIRK 19=JUL=73 19:35 17938  
NP for a change in the NIC Directory Generating Programs,  
Location: (LJOURNAL, 17938, i:w)

2o

Executed tasks == implemented items, fixed bugs, and answered  
questions

3

But not exactly as stated,

3a

DVN My initial file came up, I said jump to item, option, and  
typed in the name of a statement, "documentation", it went into  
exec with savage remarks like "R1/FILR\REH  
+11,,S3IFTU+22,,=300,,323135 etc, etc., Later I tried it again  
and it worked O,K,

3a1

13=DEC=73 1353=PST VANNOUHUYS: Illegal Instruction  
R1,,PSIREG+1 = 1,,232277 at R0 = 0  
Received 13=DEC=73 13:53:27

3a2

I had split the xscreen and was jumping to link inone of the  
screens; I was fumbled fingered and put in a bunch of  
characters in the address place whi it couldn't understand I  
guess because it bombed me out and said the above,

3a2a

26=FEB=74 0824=PDT VANNOUHUYS: Fatal Storage shortage error  
Received 26=FEB=74 08:24:41

3a3

I loaded my initila file, split the screen,loaded a journal  
file on the left, created a secnd file on the right, did a  
little writing, moved the boundry to dismiss the leffthand  
(journal) file, attempted to load my initial file and got  
that error message along with stuff like "R3/  
DSPBLKK+1746,,R1 = 11110,,i" etc.

3a3a

NDM 10=APR=74 14:48 22675  
Journal Number used Twice  
Message: The number 22671 was assigned both to a plex I  
submitted (now in ljournal, a private file) and to a message  
submitted by marcia!

3a4

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JDH 10-APR=74 21:43 22700  
Incorrect Journal numbers 22669=22676  
Location: (LJOURNAL, 22700, 1:w)

3a4a

Due to an error in the number system, numbers assigned  
during the evening of 4=9 and day of 4=10 were incorrect.  
Change any citations you intend to use to reflect the  
corrected numbers.

3a4a1

original number	author	corrected number	3a4a1a
22669	KIRK DVN	22689	3a4a1a1
22670	RWW	22690	3a4a1a2
22671	NDM	22691	3a4a1a3
22673	JBN	22693	3a4a1a4
22674	JEW	22694	3a4a1a5
22675	NDM	22695	3a4a1a6
22676	NDM	22696	3a4a1a7

The following people are involved as authors or  
distributees:

3a4a1b

JBN NDM DCE JCN RWW MLK JHB FDBK KIRK JEW SDC2

3a4a1b1

KIRK 20-FEB=74 18:00 22009  
A list of six complaints concerning the new nls  
Location: (HJOURNAL, 22009, 1:w)

3a5

When names are turned off, the substitute command writes in  
garbage and gives you a bad file, (CHI: Ken, this is in  
running system also. Could you investigate and find out why  
SUBSTITUTE is sensitive to statement name being on or off --  
it is probably trying to skip over the name and blowing it,  
Please fix in both systems)

3a5a

DHC 14-AUG=73 16:34 18410  
Making TNLS more widely available  
Message: The following is a suggestion from Chuck Kline (CSK),  
I almost dismissed it out of hand, but then realized that I was  
not sure of the arguments against it:

3a6

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Making TNLS, sans ident or journal systems, available as a standard Tenex subsystem. This of course assumes that NLS does not have horrible hooks furied into Tenex. I guess it would also require (perhaps) distribution of the Output Processor as well.

3a6a

Thoughts? (CHI: After XNLS is moved to be the running system to Office=1, we should be able to give it out to all tenex's.)

--Dave,

3a6b

KIRK Entering capital viewspecs from the mouse and keyset, an alternative to (20425,) (CHI: Being done)

I re-propose the following:

OXX for CONTROL CASE=SHIFT instead of XXX,

XOX for lowercase viewspecs in addition to XXO,

XXX for uppercase viewspecs (XOX + OXO),

OXO for capital-shift with all others would remain the same,

X = mouse buttons held down while a keyset chord is typed,

O = mouse buttons left up,

3a7

Comments: NOW, while the command language is being changed, is the time to again (see 18FEB--14492,) request ordering the functions of the mouse buttons in a logical way to effectively use the available alternatives and allow input of capital viewspecs. In the new language, in order to input a capital viewspec from the keyset and mouse, one must type at the least "<SP>sev" (four characters). A step backwards from the old language where typing only "v" was necessary.

3a7a

KIRK The second level command recognition key should be visible in TNLS %DCW will allow setting this character in user=options subsystems

3a8

I suggest period instead of space be used in expert recognition to get to second level commands. Besides the advantage of being visible in TNLS, it is easier to type on the keyset, easy to represent in command summaries, and consistent with the convention for second level commands (structural=relationships) in the DAE. The TNLS command that shows your position by statement number and character count could use comma instead of period. A disadvantage this is that a period is not as easy to type as space on a keyboard. I feel this fails to outweigh the advantages.

3a8a

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JMB 1-MAR-74 20:13 22167  
New TNLS problem  
Location: (HJOURNAL, 22167, 1:w)

3a9

Problems using a simple content analysis filter in New TNLS:

3a9a

In Editor, I gave the Set Filter To command, typing in  
the pattern

3a9a1

I then did Set Filter On

3a9a2

I set viewspec 1 on,

3a9a3

When I printed my branch, none of the contents were  
filtered out!

3a9a4

In programs, I did a Show Status, and it said my buffer  
indeed had the correct thing at the top of the "Stack of  
compiled programs"

"None" was printed after each ",,program for display  
area;"

3a9a5

Can you get someone to diagnose my problem fairly soon,  
since I've been trying for two weeks to do a simple  
content analysis in xnls for a specific purpose???

3a9a6

DHC 8-MAR-74 17:07 30201

USING idents

Message: what happened to the NETBAGRIPES and NETCOMMENTS  
idents??? %Have never been requested%

3a10

KIRK Viewspec b (add one level) when used while viewspec c is  
in effect (ALL levels), should work as viewspecs eb (current  
level plus one more) instead of resulting in 0 levels. I  
thought this was a bug in the old command language that would  
not be carried over in the new command language. Some bugs  
with viewspec e and 0 levels were fixed. How about changing  
this as well? If someone ever really wanted 0 levels, they  
could get there with viewspecs da. JMB points out that  
viewspec a at ALL levels should result in the equivalent of  
viewspecs ea instead of 62,

3a11

When you specify viewspecs eb, (e = the current level at the  
top of the screen, b = add one more level), the feedback  
says R+1 (why not e+1?). Sometimes it computes this level  
and places that in the viewspec feedback area and the level

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clipping stays at that value until you enter new viewspecs. At other times, R+1 stays in the viewspec feedback area and everytime you jump, it recomputes a new level. This feature is very handy, but there is no consistant way of knowing which will happen. I propose that whenever the viewspecs are specified in a Jump command, that they recompute R+1 each time until other level clipping viewspecs are added. At any other time, (i.e. Set Viewspecs command and double mouse buttons) I propose that R+1 compute the level once and remain at that level until other level clipping viewspecs are added.

3a11a

KIRK 24=JAN=74 17:28 21606

Time and &lt;control=t&gt;

Message: Having the time given with <control=t> is one of the most logical little features I've seen added except for taking away the connect time. I't makes analysis more difficult and seems unnecessary. <control=t> when one is not running a subsystem need not give the date and time. There is a separate command for that. So why not reinstate the connect time and place the Date and time like so?

PROCESSING SUSPENDED AT 164674 24=JAN=74 17:04  
LOAD 4,40, USED 0:02:57,8 IN 0:20:09

It all fits nicely in the DNLS tty window, it's easier to read, it contains all of the information associated with time, and it looks better.

3a12

Exactly as stated

(Documenters should be able to trust these items)

3b

17=DEC=73 2032=PST VANNOUHUYS: Guess  
Received 17=DEC=73 20:32:10

3b1

I just treid to use <control=i> to repeat a content searc ad it went into a loop, or so it seemed.

3b1a

DVN 7=JAN=73

Display won't recreate without doing viewspec f.

3b2

DVN 7=JAN=73

Get "Possibly fatal display error" message before refreshing display

3b3

24=JAN=74 0820=PDT VANNOUHUYS: XNLS Problem

Received 24=JAN=74 08:20:49

3b4



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When I go into xnls, my screen says editor in the upper left  
corner, and otherwise remains completely blank.

3b4a

KIRK 22-MAR-74 09:07 22466

Move Boundary Bug

Message: If you split a window vertically, and then  
horizontally, you sometimes cannot move the vertical boundary  
because it acts as if it thinks you bugged the horizontal  
boundary and moves it instead.

\*\*\*\*\*Note: \* action \* \*\*\*\*\*

3b5

HGL 27-MAR-74 09:19 22502

New NLS Jump to Link Bug

Message: Links to journal items which should go to statement 1  
go to the origin ignoring the explicit statemnt number  
specification in the link in the new NLS.

3b6

3-APR-74 1944-PDT VANNOUHUYS: New Catastrophes from the  
XOutput processr

Distribution: LEE

Received at: 3-APR-74 19:44:38

3b7

It said "ILLEGAL INSTRUCTION OPRTXT = 165601  
at "NLSLAN]ZJSEND = 413206" etc, etc and bombed me  
int exec

3b7a

KIRK 26-MAR-74 16:51 22491

Sendmail problems

Location: (JJOURNAL, 22491, 1:w)

3b8

Comments: obsoletes 22467

3b8a

%Fixed% The show status command in the Sendmail subsystem  
doesn't show all the status and leaves the user at ...

3b8b

There are no first level "r" commands.

3b8c

The Statement and Plex commands are not available for use.

3b8d

A comment more than a few (6?) lines long gets the "Exceed  
Capacity" message.

3b8e

I find I cannot use CA in the Number command to get the  
number of the item.

3b8f

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I also find I cannot determine the number of my previous  
journal item to say that this updates it,

3b8g

Interrogate in DNLS gets prompting messed up and says "not  
implemented",

3b8h

DHC 19-APR-74 17:48 30502

Nic Locator

Message: Once again, the Nic locator catalog has proved  
useless. The indices are offline and I can't even use  
Interrogate to get them back,

3b9

DVN 22-APR-74 22:03 22793

reference to undefined interpreter variable

Location: (LJOURNAL, 22793, 1:w)

3b10

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3b10a

when I treid to set case mode to upper it gave me taht error  
message,

3b10b

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3b10c

3b10d

21-MAR-74 2210=PDT KELLEY: interesting bug with transpose  
text

Distribution: LEE, wallace, irby, victor

Received at: 21-MAR-74 22:10:43

3b11

It seems to always not update one of the statements on the  
screen if

you are transposing text between two statements, (order may  
be important), Recreating the screen fixes it,

3b11a

KIRK 22-MAR-74 09:10 22467

Sendmail problems

Message: The show status command in the Sendmail subsystem  
doesn't show all the status and leaves the user at ...

\*\*\*\*\*Note: \* action \* \*\*\*\*\*

3b12

30-MAR-74 2132=PDT BECK: Xnls,sav,78

Distribution: FEEDBACK, wallace, victor

Received at: 30-MAR-74 21:32:50

3b13

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30-MAR-74 2245-PDT BECK; Further on XNLS,SAV;78  
Distribution: FEEDBACK, wallace, victor  
Received at: 30-MAR-74 22:45:04

3b13a

That SDDA Jsys error,...stuff applies to all instances of  
T:/[A]; in TNLS= - - - - THIS version of New TNLS  
unusable

3b13a1

29-MAR-74 2117-PDT VANNOUHUYS; SDDA Jsys error, CLRSEDA -  
Distribution: LEE  
Received at: 29-MAR-74 21:17:01

3b13b

I was workin in xtnls, had just come in, printed a plex,  
went to user options and turned off prompting, Tred to  
insert a statement, After the second command accept (just  
before I would have begun to put in text) it started  
printing out that wrror message, 10 times in less than a  
minute, I hit control c and sent this,

3b13b1

29-MAR-74 2120-PDT VANNOUHUYS; SDDA etc,  
Distribution: LEE  
Received at: 29-MAR-74 21:20:23

3b13c

I just returned to xnls, immediately tred to insert a  
staement at the same ppoint, and the same thing happened,  
But I made a mistake in the accound before, It happened  
when I inserted the first character of text, which was 3,

3b13c1

29-MAR-74 2122-PDT VANNOUHUYS; SDDA etc etc,  
Distribution: LEE  
Received at: 29-MAR-74 21:22:49

3b13d

I just went back and got that message when I tried to  
load file, I'M going to retuttn to plain nls, The version  
is 78

3b13d1

XNLS,SAV;78 is Buggy!!!

The errormessage:

SDDA Jsys error, CLRSEDA - T:/[A];

prints over and over again until I type <control=c> and  
Reset==

when I type ANYTHING after command=term File

and ANYTHING after command=term Show in Help subsystem,

3b13e

JMB 7-MAR-74 21:16 22357

New DNLS==Null content in Set Name Delimiters command

Message: DNLS==

Set Name Delimiters command doesn't take <control=n> for null

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content either (reference to Useroptions Control command)!  
If it never will, please let me know. Thanks, Jeanne B. (CHI:  
Ken, I thought this was fixed???)

3b14

JMB 20=DEC=73 18:00 21149  
New TNLS confusion  
Message;

- 1, I did Show File Marker list==  
and got the info for default directory
- 2, I then marked a character
- 3, I repeated Show File Marker list==  
and it showed my marker correctly
- 4, I deleted the marker
- 5, I did Show File Marker list==  
and it still shows my marker

%Fixed% [I can't tell if it really deleted it because the jump  
to marker DAE element isn't working]

3b15

DCE 7-MAR=74 17:36 22351

NLS doesn't treat my NAME=string as a Name  
Message; Dear Bughunters; Two statements, (engelbart, work,  
083:el) and 084 for some reason don't get treated right. Their  
hash codes apparently aren't set (Jump Name doesn't find them),  
and also, VSPEC D doesn't recognize them. I've tried editing  
the statement, to get NLS's attention as it were, and every  
other trick I can think of. Got any good words??

3b16

DVN 16=JAN=74 21:45 14572  
9 Little XNLS Problems  
Location; (GJOURNAL, 14572, 1:w)

3b17

When I attempted to show directory for file <journal> 11163,  
which I had loaded, by bugging the words, it said "illegal  
file name", %This requires link syntax%

3b17a

When I split the screen vertically, then jumped to item so  
that the same thing was being displayed on both sides, then  
jumped to tail on one side, and then attempted to jump to  
tail on the other side it gave me an error message about  
illegal numbers of some kind,

3b17b

KIRK 1=FEB=74 12:03 21722

BUG in the freeze statement command  
%Not a bug==viewspecs are relevant to manner in which statement  
will be displayed in frozen window, not to whether it will be

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displayed%Message: The freeze statement command in the new  
system (and old) allows a place for specifying viewspecs, but  
when I specify the viewspecs "of" the frozen statement is not  
displayed.

3b18

DVN 7-JAN-74 NEW TNLS problems  
Some viewspecs (m,I,G) carry forward, others (lines and levels)  
reset following each command, %Set viewspecs are permanent,  
viewspecs in Print are only for that print command%

3b19

DVN Since viewspecs are reset each time this is more of a  
problem than a feature.

3b19a

JMB 20-DEC-73 17:53 21148 %CHI%  
Another DAE failure  
Message: New TNLS does not recognize #marker  
in an address expression

3b20

DVN 19-MAR-74 09:12 22419  
Xnls Link Addressing Still Fails On Markers  
Message: Try, for example, (vanNouhuys,dvn,#j).

3b20a

DVN 7-JAN-74 TNLS problem!  
Show Marker List doesn't work and Markers don't work in  
addresses, %first half fixed%

3b20b

JMB 1-MAR-74 21:52 22170  
Please change spelling in <NLS>SYNTAX  
Message: In CML, for the Useroptions subsystem, would you  
please change the spelling of the command word "Herald" to  
"Herald"? Thanks

3b21

JMB 1-MAR-74 20:28 22168  
Problems with the AE in New TNLS;  
Location: (HJOURNAL, 22168, 1;w)

3b22

What do you do in an Address Expression to point to the  
second instance in the statement of " (double quote)?

3b22a

1. The following element:

"#=2c

and:

"#=3c

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all get me only the first double quote mark in the  
statement, 3b22a1

2. Doing a content search on the string of characters  
ending with the second double quote mark, thus:  
"ograms"  
is not understood by the system, 3b22a2

Can you make a suggestion? 3b22b

28=FEB=74 1328=PDT VANNOUHUYS: Quickprint bug  
Received 28=FEB=74 13:28:39 3b23

Quickprint seems to be starting at the sucesor of the  
statement at the top of the screen, 3b23a

8=JAN=74 1037=PDT VANNOUHUYS: Glad to see I can reach you  
again  
Received 8=JAN=74 10:37:39 3b24

Altmode doesn't seem to work today in load file, 3b24a

8=JAN=74 1147=PDT VANNOUHUYS: Illegal Group  
Received 8=JAN=74 11:47:15 3b25

I just attempted to substitute two visisibles in a brach and  
got that error message, It's happened before, 3b25a

10=JAN=74 0916=PDT VANNOUHUYS: No first carriage return  
Received 10=JAN=74 09:16:52 3b26

It seems to be impossilbe to put in carriage return into  
WORK as the first thing following T; 3b26a

DLS 15=JAN=74 15:29 21420  
Control B problems in New NLS  
Message; Control B at the end of insert commands acts like a  
control H, ie it backspaces a character rather than repeating  
the insert command,,,bug???? 3b27

15=JAN=74 1515=PDT VANNOUHUYS: Viewspce B  
Received 15=JAN=74 15:15:53 3b27a

It does not seem to be working in newnnls, 3b27a1

DVN 16=JAN=74 21:45 14572  
9 Little XNLS Problems

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Location: (GJOURNAL, 14572, 1:w)

3b28

Move Link doesn't seem to work right. It puts a space  
in front of the link but does not move it.

3b28a

Links that contain only viespecs do nothing. This makes  
locator very difficult to use.

3b28b

When I try to set filter to pattern it says "No existing  
block with name LOCAL".

3b28c

JMB 1-MAR-74 20:30 22169

Problems with the AE in New TNLS (the 2nd):  
message: The address element:

          ,w          (jump to word)  
takes me to the origin of my file from anywhere in that file.  
It does this also when I use a number before the w  
Makes Transpose Word, or Insert, etc, very difficult to use in  
TNLS!

3b29

15-FEB-74 1427-PDT KELLEY: Jump to Back command  
Received 15-FEB-74 14:27:47

3b30

It doesn't jump to the right statement. It's something  
random to me, I can't see any pattern to where it jumps  
except that it isn't back.

3b30a

KIRK 20-FEB-74 17:57 22008

%Other parts of this file are in the NP, implemented, and bug  
branch%The most immediate bugs from several intensive sessions  
in XNLS

Location: (HJOURNAL, 22008, 1:w)

3b31

Copy sequential says "illegal string destination"

3b31a

Insert group says "Illegal string designation" when bugging  
the group.

3b31b

The repeat character doesn't work after typein in the  
insert, replace, or append commands.

3b31c

It takes 2 CA's to get out of viewspec status mode.

3b31d

Insert Branch doesn't work when addressing the source.

3b31e

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The default address for a link containing no address, only  
viewspecs, should be the statement containing the link. The  
arc and nic locators operate on this principle. Currently  
the CM doesn't move.

3b31f

"Jump to Item <\*U> name <SP> ,1 CA CA" takes you to the  
name, but does not jump to the link contained in the named  
statement. The arc and nic locators operate on this  
principle.

3b31g

SRL 4-JAN-73 %KEV%

There seems to be some problem with numbers. When trying to  
edit a filename which happened to be a number, it said illegal  
number.

3b32

JMB 19-FEB-74 22:14 21988

TNLS Insert problems

Location: (HJOURNAL, 21988, 1:w)

3b33

Three basic problems with the Insert command in New TNLS:  
19-FEB-74

3b33a

Why won't Insert Statement let me give a <control=b> or  
<ESC> to repeat the command (I know about <control=e> and  
agree that works, but...)? It takes the RPT character  
and puts it in the text as <control=b>, and then inserts  
a repetition of the last character I input before the  
RPT!

3b33a1

Why does Insert Word insert the word at the end of the  
statement when I've given an address within the  
statement, or left the CM at the beginning?????

3b33a2

Insert STRING commands are still asking for Level !

3b33a3

KIRK 28-FEB-74 20:44 22175 %Other parts of this suggestion may  
be found in the NF and bugs branch%

Bugs or Features? II

Location: (HJOURNAL, 22175, 1:w)

3b34

A bug that stops work in the Help Database:  
Output Quick Print doesn't print the first statement. In  
the help database, that top node contains all of the crucial  
information.

3b34a

Move Link (such as: (Return)) does really wierd things.



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Like putting it in a different place from where you bug or  
saying illegal link at the destination selection,

3b34b

JI Output Processor Cue Card  
4-NOV-73 22:29 20042 Message:

This is a mini-suggestion for the construct of an Output  
Processor CUE card like the NLS cue card that was distributed  
several months ago. In using the Output Processor, I find it a  
great annoyance and real handicap to always "thumb" through the  
manual to obtain the appropriate directives. I feel sure that  
many people react the same way and would be very appreciative  
to have such a cue card constructed and made available,

Would invite your consideration of this request. The few people  
I have mentioned it to would also like to have copies if they  
were available. Thanks.....Jean

3b35

DVN We should be able to Print Lists of Archived files.  
21-MAY-73 08:28 16698 Message:

Since many directories of archived files are now past screen  
length, many past two or three screen lengths, it sure would be  
nice if lpt were a subcommand of the interrogate group or in  
some other way we could print out the files archived in a given  
directory,

3b36

KEY Established user program library  
21-FEB-73 21:37 14715 Message:

now that we have go to program get rel file we should  
establish a new directory for maintaining a library of user  
programs in rel format and the appropriate documentation,

3b37

DHC LCONNECTING NLS TO THE MAIL SYSTEM

26-JUN-73 13:06 17480 Message:

THIS HAS NO DOUBT OCCURRED TO OTHERS, BUT ...

3b38

It would be nice to be able to send a journal message to  
someone who does not have a journal ident. Probably the  
easiest way to implement this would be to specify the  
person's name and address at Distribution time,

3b38a

I recognize that the goal is to Journalize everybody (or at  
least, it would be nice) but this doesn't seem reasonable  
now. Therefore, it should be made easy to use the Workshop  
tools to talk to people not 'hard-wired' to the workshop,

3b38b

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The suggested ability seems to me to be very simple for simple enough, yet useful enough, to justify the work that would be necessary, (besides, I can't stand typewriters, now that I have been indoctrinated to nls, And licking envelopes is a drag, too),

3b38c

KEV protection of partial copies

25-APR-73 20:27 16215 Message:

partial copies ought to be created with the same protection as the file to which they belong

3b39

MDK \* Suggestion for a reset viewspecs command

14-FEB-73 7:41 14429 Message:

One comment by a person at the recent TNLS course, which I think it is worthwhile to pass on: it would be nice to have a command which resets all viewspecs to their default values. This is especially useful for beginners, who don't know all the viewspecs anyway, and also useful I think for display users (like me) who make ungodly mistakes in typing and wind up with unwanted viewspec settings, most of which I don't even know I have set,

3b40

JMB New TNLS suggestion and comment

26-DEC-73 12:38 21196 %KEV% Message:

Requested grammar change in command feedback for TNLS Trim and Undelete commands:

Make it print, "Trimmed Files are: ,,,,"

instead of, "Trimmed file are: ,,,,"

and, "Undeleted Files are: ,,,,"

not, "Undeleted File are: ,,,,"

Incidentally, I really appreciate these lists being printed for these commands,

3b41

JMB Change "Quit SUBSYSTEM" to "Quit To SUBSYSTEM"==first choices in command then would be:

3b42

Quit CONFIRM

3b42a

Quit Nls ,,,

3b42b

Quit To ,,,

3b42c

KIRK: To should not be a "noun" as stated above, it should be a noise word,

3b42d

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KIRK Jump to return from one side of a split screen to another does not put you back in the file where you left it, but instead, puts you at the origin statement, 3b43

jump return== True, A feature, (!?) Should this be changed? 3b43

24=JAN=74 0820=PDT VANNOUHUYS: XNLS Problem 3b44  
Received 24=JAN=74 08:20:49

When I go into xnls, my screen says editor in the upper left corner, and otherwise remains completely blank, 3b44a

6=FEB=74 2155=PDT VANNOUHUYS: Subsystems don't work 3b45  
Received 6=FEB=74 21:55:27

Whenever I try to go into any subsystem from XNLS, it says "subsystem stack overflow,.." 3b45a

6=FEB=74 0817=PDT VANNOUHUYS: File Numbers do not Match in Pushring 3b46  
Received 6=FEB=74 08:17:41

So I logged in te morning an read my journal mail, jumping to files and back and deleteing the statements after I read the items, Then I inserted a statement, The next thing I tried to do was delte another statement, Instead I got the error message that titlesthis report, I decided, perhaps foolishly, that update compact might help, I was suspended, I did a <control-c>, reset, am sending this message, Then I will try to log in again, Will I have an initila file? Tune in tomorrow, 3b46a

DVN 7=JAN=74 NEW TNLS prblems 3b47  
Quit puts you in TENEX OK, but with "Illegal Instruction" and a lot of location shit,

DVN 7=JAN=74 New TNLS problems 3b48  
Content analyser patterns don't seem to work in links,,,,,In a print cmmnd they yeilded the curious response: "No existing block with name LOCAL \_ A; V;" and then accepted the viewspec and printed the current statement,

11=JAN=74 1119=PDT VANNOUHUYS: Fancy Sndmsg 3b49  
Received 11=JAN=74 11:19:06

DVN 15=JAN=74 12:56 21413  
Problem with Copy Sequential  
Message: (When I treid, via various options, to copy

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ssequential on the file; VANNOUHUYS, SUSAN, TXT; 1, ) It tolde  
me "illega string designation",

3b49a

<VANNOUHUYS>SUSAN, NLS; 1, 11-JAN-74 11:16 DVN ; When I did  
work I got an NLS with the lower half of my screen blank.  
The viewspec feedback line was more useful than it has ever  
been before because it told me the viewspecs were 0 16  
hfvDP. But when I had straightened out my viewspecs,  
and tried to type in a command, it just took command  
letters (leaving them caps) indefinitely. 0  
recognition mode? I gave up via <control=c>. Later  
I got into work OK, wrote the first branch of this message,  
and tried to do output sequential on it. It said "illegal  
string designation"

3b49b

DVN 16-JAN-74 21:45 14572  
9 Little XNLS Problems  
Location; (GJOURNAL, 14572, 1;w)

3b50

I find the information about how long I've been on more  
useful than the time of day. I check the ration of CPU to  
clock tim on various occasions; I know the time of day,

3b50a

Freeze statement doesn't work,

3b50b

Move Link doesn't seem to work right. It puts a space  
infront of the link but does not move it,

3b50c

When I do jump file return and say no to the first file it  
offeres me, it gives m an error message an won't return me  
any further. Either "illegal file return ring" or, that  
loveliest of all messages, "Exceed capacity",

3b50d

When I attempted to show directory for file <kournal> 11163,  
which I had loaded, by bugging the words, it said "illegal  
file name",

3b50e

When I try to set filter to pattern it says "No existing  
block with name LOCAL",

3b50f

DVN 21-JAN-74 12:48 14571  
XNLS Doesn't Grow as Smoothly as Tulips  
Location; (GJOURNAL, 14571, 1;w)

3b51

I logged in, went into NLS, loaded three or four files in

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succession, then jumped back and forth once between the last two, when I attempted to jump file return to the third from last it would only show me the names of the last two, when I tried to load the third from last by name it said "illegal statement in return ring,"...1/21/8:30,

3b51a

I'm really glad markers work in the old way after jump to.....1/21/8:45,

3b51b

Links that contain only a marker, e.g. (#marker) don't work, The system says "#marker ?"....1/21/8:45,

3b51c

JMB 4-FEB-74 12:51 21783

problems today (Feb 4) with X-TNLS  
Message; There seem to be some bad glitches in the recognition modes for new TNLS today (Feb 4);  
I couldn't get at the Protect command in Expert; I changed to Fixed and got a different list of commands if I typed a question mark right after the herald than if I typed a space and then ?, though I couldn't get to Protect at all in either case though it was listed, I then changed to Anticipatory=as soon as I typed a "p" I got "Playback" and could get neither Print nor Protect; I also could not get out of Anticipatory mode because I couldn't do "Set Recognition"....very frustrating,

3b52

17-DEC-73 2036-PST VANNOUHUY; still trying %DIA%  
Received 17-DEC-73 20:36:48

3b53

So I tried again, This time I jumped to link and put the string of content in the link with viewspec K, "No existing block with name LOCAL" it replied and bombed me out,

3b53a

NDM 26-DEC-73 09:07 21185 %DIA%

content analyzer

Message; There is a bug in the cmmad "set Filter To" (content analyzer patterns) which displays the error message "No existing block with name LOCAL". Also, why can't you type in a content analyzer pattern from the programs subsystem "Compile Content analyzer" or some such command?

3b54

12-dec-73 %KEV% DVN - Tried to write on a file which he did not have access to; Took him to the exec with illegal instruction blap

3b55

JMB New TNLS complaint %Extention problem fixed%

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18=DEC=73 11:04 20947 Message:

Load File (in INLS) will not take anything but a complete  
filename with extension and version (gives an archive message),  
Will you fix it soon to take altmode or stars?

3b56

12=DEC=73 2056=PST VANNOUHUYS; the usual %DSK%  
Received 12=DEC=73 20:56:02

3b57

(This was preceded by a large substitute) I was working  
along quietly with split screens when when I jumped to item  
and it said something about the display truncating and  
wouldn't respond to any inpput characters until I happened  
to hit <control-o> when it began grooving again, This things  
went one smoothly for a few more jumpps until it suddenly  
said "fatal storage shoratage error" and would takes nothing  
but <control=c> That's where I am now,

3b57a

4=DEC=73 1353=PST VANNOUHUYS; xnls fuckup %DSK%  
Received 4=DEC=73 13:53:21

3b58

I went into xnls, immediately jumped on a link to a journal  
item, I got a blanks screen, After a long time I trid a  
virespec F, It replied "try nonexistent", I treid to jump to  
file return, It said "NLS display error", The I did control  
C and sent you this message,

3b58a

JMB 12=DEC=73 16:23 20864

Re Append command

Message; Append command;

Could we have some noise word to indicate what is wanted when  
the prompt (in DNLS) T;/B;/[A] appears (the second time)  
expecting an LSEL of the stuff to insert between he appendees,  
At one point in a scenario, when the prompt is B;/[A];, the  
feedback line shows "Append Statement at to"; then you give  
your bug, then the prompt changes to T;/B;/[A] but the feedback  
line still holds at "Append Statement at to", This could be  
made more clear, At this point I understood that typing  
<control-n> would be available as an alternative to SP BC, If  
this is still what's planned (it's what I've documented), it  
would be nice to have a noise word like:

"insert between (type <control-n> for null typein)"

or something shorter if necessary, appear when ready for the  
LSEL,

Thanks, Jeanne B,

3b59

JMB 20=DEC=73 17:50 21146 %CHI%

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New Nls suggestion

Message: In the new NLS the show file status command should  
print

"Try an Update File Compact command to improve % used"  
instead of

"Try an Output File ..."

3b60

DVN 7-JAN-74 NEW TNLS problem

<control=b> at the end of a command does not make the command  
repeat as in DNLS. It would be very useful in the sytem where  
you have to wait for characters to type,

3b61

JMB 26-DEC-73 12:41 21197

new tnls suggestion

Message: In TNLS, can we get Update File command to print the  
new filename?

3b62

JMB 20-DEC-73 17:53 21148 %CHI%

3b63

First level commands not available in second level

3b63a

It was my impression when the concept of typing <SP> in  
front of a command was accepted, that it was in order to  
allow the most commands available with the least amount  
of typing necessary by the user. Meaning that in expert  
mode, after a <SP> had been typed, all of the OTHER  
commands would be available with anticipatory  
recognition. Instead, I find the command I had just  
"spaced" out of is still available resulting in extra  
keys to be typed and buying me nothing. Will one of the  
recognition modes do what I originally thought would  
happen? YES

3b63a1

SRL 4-JAN-73

To get rid of the split screen you have to reset in the exec

3b64

SRL 4-JAN-73

When the screen is split and you jump to a link, you get a  
message about a problem with return ring,

3b65

23-JAN-74 13:51

3b66

<Control=Q> placement in the HELP DATABASE

3b66a

<Control=Q> before a Command verb is specified should  
take the user to the NLSCOMMANDS branch under CONCEPTS,

3b66a1

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<Control=Q> immediately after a verb should take the user  
to the Command=term in the FUNCTION branch as a show  
command, 3b66a2

<Control=Q> after a noun=type should take the user to the  
noun=type under the verb Command=term in the FUNCTION  
branch as a show command (e.g. print the path name  
including the verb), <Control=Q> at any prompt or prompt  
alternatives after the second C: should print the  
function branch and then before the welcome message,  
automatically type out! Show also SVARIABLE, Where  
VARIABLE = the name(s) of the concept(s) that define the  
prompt(s) at the point the user typed <"Q>, 3b66a3

The Help welcome message should appear after the branch  
indicated by the placement of <Control=Q> has been  
printed, 3b66a4

should it read 3b66a4a

Type ? to determine your current alternatives, 3b66a4a1

or 3b66a4a1a

Type <control=q> for help with Help, 3b66a4a2

What should ? give at this point? 3b66a4b

Show ? !to find out more!  
Quit <CR> !to return to where you typed  
<control=q>!  
< <CR> !to return to your last point in HELP!  
<Control=Q> !for a detailed explanation of  
HELP query language! 3b66a4b1

? at other points should give more commands? fewer  
comments? 3b66a4c

Careful thought from this point of view should be  
given for what <Control=q> will give at this point, 3b66a4d

8-JAN-74 1152=PDT VANNOUHUYS: Freak State of the day!  
%Resulted from DCW redoing new NLS%  
Received 8-JAN-74 11:52:49 3b66b

After the last message I sent you I typed work <cr> and  
got, an astrisk at the margin, I was not in TNLS however,  
whatever I could think of to do it would rely only "GTJFN



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Old File Required", Now I am going t try a reset, If you  
don't hear frm me I succeeded,

3b66b1

JMB 20=DEC=73 17:52 21147 %KEV%

New TNLS error

Message: I get an error message when I try to Show Disk  
space;

"Illegal String Designation"

3b66c

DVN 7=JAN=74 NEW TNLS prblems %KEV%

When I asked "Show Directory" for everything, it gaave me  
only account numbers,

3b66d

DVN 7=JAN=73 %KEV%

Did a copy directory command and it missed some files, SRL  
has a printout of the example,

3b66e

JMB 20=DEC=73 16:17 21144

New TNLS thing not working

Message: The TNLS address element for "jump to file return"  
== ,fr == was not understood, I had to reload the file,

3b66f

DVN 7=JAN=73

Keep getting the message "Illegal Return Ring ,.,." after  
changing files and doing something,

3b66g

KIRK Error message;

3b66h

"File Locking Conflict" should read

"File Modification Conflict",

3b66h1

KIRK Change the Insert STRUCTURE command to work like copy  
and move so that when bugging a SOURCE instead of typing, it  
doesn't require an extra command accept to get out of the  
LEVELADJUST,

3b66i

JMB 12=DEC=73 18:03 20868

Re Jump to Name==SUGGESTIONS

Message: (1)

In DNLS, Change prompt after Jump to Name from CA;/C; to  
B;/C; because your choice at that point is really between a  
Bug (which elsewhere is prompted B;) or one of the  
command=words Only, First, Next,

Also, I think the name read should be fed back immediately  
after you bug it (this is re choice Bug after Name)

(2) Jump to Name Only should be changed to Jump to Name Any

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if that's what it does when that name exists more than once  
in the file  
==Jeanne B,

3b66j

JMB 13=DEC=73 11:36 20879

XNLS complaint

Message: Jump to File Return locates me at a seemingly  
random address in the old file; can the old one be recreated  
exactly?

3b66k

DVN 14=DEC=73 15:57 20908

Another Way to Cut Down on the Number of Times You have to  
Hit the Option Character

Message: Following the reasoning of (20895), since I  
normally jump to statements on the screen with "jump to" and  
use "jump to item" only to reach offscreen statements, I  
would like to see address an alternative rather than an  
option following item.

3b66l

JMB Comment on links

12=DEC=73 12:09 20857 Message:

XNLS would not jump to link in one of my files; I changed  
their delimiters from anglebrackets to parentheses and then  
they worked. Comment: If there is a direct relationship  
here, it implies that I have to changes scores of links in  
many files. Surely this is not true!!??!

3b66m

13=DEC=73 0948=PST VANNOUHUYS: xtnls for a change

Received 13=DEC=73 09:48:57

3b66n

I went from Xdnls to xtnls via simulate terminal. Then I  
quit. Instead of nicely giving me TENEX in spit our stuff  
about illengal instructions, in particulr at "R1,,PSIREG  
+ = 1,232277"

3b66n1

18=DEC=73 0820=PST VANNOUHUYS: markers as links

Received 18=DEC=73 08:20:40

3b66o

In the new NLS links to markers (e.g, <,#jr> which is  
alink to a branch marked "jr" in my initial file, don't  
work. That is if you say jump too link and bug the thing  
above, it replies #jr? Even though the link iss still  
there and it works in old nls,

3b66o1

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JMB New TNLS complaint %Altmode not to be implemented for  
some time%

18-DEC-73 11:04 20947 Message:

Load File (in TNLS) will not take anything but a complete  
filename with extension and version (gives an archive  
message). Will you fix it soon to take altmode or stars?

3b66p

JMB Bug in new TNLS

17-DEC-73 11:34 20930 Message:

1. Copy Word asked me for a Level=adjust (L;)!!!!  
2. The insert visible command did the same thing.  
Note: I used both of these in TNLS.

3b66q

JMB

18-DEC-73 11:06 20948 Message:

Same TNLS bug; Move Character asked me "L;" and waited  
instead of confirming the command as it should have at that  
point.

3b66r

Output Quickprint

3b66s

JMB 18-DEC-73 11:08 %Done% 20949

Suggested change in new TNLS

message: The prompt after specifying "Print" in TNLS should  
be "OK/C;" and not "CA/C;" because you may actually end the  
command after Print with REPEAT or INSERT.

3b66t

Executed by default (feature of new CML)

3c

DVN 25-APR-74 03:36 22831

Can't Get into NewNLS

Location: (LJOURNAL, 22831, 1:w)

3c1

-----

3c1a

<rel> etc, yeilds "ILLEGAL INSTRUCTION TRAP IN EXEC

3c1b

PC 10761 ACS 400001 0 0" etc, "work" yields "ILLEG INST 0  
AT 1"

3c1c

-----

3c1d

3c1e

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JMB 20=DEC=73 16:31 21145

New TNLS confusion

Message: I was in TNLS in fixed recognition mode and assumed, when prompted Y;/N;, that my input would be interpreted as any other command word in fixed mode, so I typed "no". It wouldn't take the "o" and didn't echo anything. Which way will Yes and No work when you fix them?

3c2

12=FEB=74 1829=PDT JERNIGAN: XNLS

cc: jernigan

Received 12=FEB=74 18:29:57

3c3

Susan =

I have some questions:

3c3a

(1) I tried XNLS for the first time tonight with some rather weird results. I spent half an hour trying to find the thing. Tried all possible permutations of NLS, XNLS, <NLS>nls, <xnls>nls, <xnls>xnls, <relnls>nls, <relnls>xnls, and finally hit on <rel=nls>xnls. (Who would have thought about a hyphen in the dir name?)

3c3b

Once I got into the thing I had additional (mis?)adventures, (2) my greeting from the elusive <rel=nls>xnls was EDI C! and a lot of blank paper. My immediate thought was, "Who is EDI and is it Eddie, Edie or who...and why?" Obviously I must somehow have got in the wrong program with all my messing around, because I wanted NLS, not some sub-user program named an obscure "EDI C". However, because I had heard weird tales of the obscurity of the wording of the "new" "NLS", I hit a "?".

3c3c

(3) I promptly got about a quarter of page of printout nicely alphabetized from Accept to Split in four columns, none of which meant a damn thing to me...so I Split. Still must be in the wrong program.

3c3d

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(4) Tried it again, and "EDI" greeted me again, so somehow this must be NLS ("NLS"???) even though it bore no relationship whatever to any possible uses I might want to put it to, 3c3e

(5) I hit a "?" again, since rumors had told me that a ? would give you complete instructions... "You can't go wrong," I had been told, "all you have to do is hit a ? at any point and all your questions will be answered," Well, I carefully hit one ?... nothing else... and again... 3c3f

(6) Accept (which I was not about to do!), Create (HOW????) through Split started printing out, I had already been that route and hand't liked it the first time...sooo... 3c3g

(7) I hit a "o", which is sort of standard on any TENEX...you know a "O will (is supposed to, at least) stop the printing, Guess what? It didn't. Nothing stopped that neat printout of alphabetized enigmas, 3c3h

(8) I took my ti printout and hunted up someone...happened to be Kirk... to try to find out what had happened, Kirk sympathized and agreed with me that it was totally screwed, and told me that to find out how too load a file (which is what I was trying to find out), I had hit a space and then a ?, he could tell from the printout. He advised to go back and hit only a ? and I would get the information, 3c3i

(9) I did. Guess what? 3c3j

(10) Again, my old enemy "Accept" (still wasn't having any!) through Split printed out with me hitting "o's and "x's all over the place, but no go...like the advertisements on TV, every letter dripped like pearls off my printhead and went through the whole

Implemented items and rejected suggestions received by ARC feedback  
as of May 1, 1974

thing again.  
So I said to my self, maybe Kirk had it backwards, This  
time I will  
in fact, carefully, hit a space ?,

3c3k

(11) I did, Guess what?

3c3l

(12) At least it was different, This time enigmas (enigmas?)  
(enigmas?)  
started with "Archive, Edit, through "Sort", still nothing I  
could  
recognize as how to load a file, There were a lot of  
imitation  
TENEX EXEC commands in there,,,are we REALLY  
trying to replace BBN? At this late date? And if so, what  
are we  
still using TENEX for? And BOY!!!!can I see some problems if  
someone  
happens to accidentally hit an odd "l" somewhere in the  
middle of an  
update to old version or something of the kind,,,if you  
still have  
that,,,and if you don't how many additional disk packs did  
you buy to  
take care of frequent updates to 400 disk page files,,,and  
there are  
a LOT of them on the system baby,,,did anyone think of that?  
And  
"Disconnect", that one is a honey and if someone hits an ex  
thinking he is going to say "execute" and instead "expunges"  
his stuff  
he is about to undelete,,,wow! Atleast before there was  
this nice  
separation between the basic file handling mechanisms in  
TENEX and the  
editing in NLS whereby one couldn't easily bring the world  
down  
around hss ears by a single misstep. Do we REALLY have to  
live that  
dangerously?

3c3m

(13) I am glad I am becoming fairly proficient in TECO, SOS  
and DED  
lately, I think I just might find them very useful,

3c3n

(14) Kirk said you wanted "feedback",,,soooo,,,here it is,

3c3o

Mil

3c3p

Implemented items and rejected suggestions received by ARC feedback  
as of May 1, 1974

SRL 23=APR=74 10:46 22797

I want to send things to FDBK via sendmail  
Message: A new version of the identfile should be used in the  
experimental system so that people can use the Sendmail system  
to send things to fdbk.

3c4

DHC DNLS addressing

24=APR=73 10:57 16103 Message:

DNLS should have the same ability to use chained addresses as  
TNLS. Currently I can only enter "journal" when I would like to  
be able to enter "journal d".

This feature becomes critical if the user is attempting to  
restrict the i/o to his screen (hello imlaes)

3c5

LPD

23=JUN=73 12:30 17429 Message:

As time goes on I find the little 3-character prompts in TNLS  
more and more annoying. They actively interfere with the  
smooth flow of thought and typing. For straight composition of  
documents, I now find TNLS only marginally preferable to TECO.

3c6

LPD

14=JUN=73 19:01 17215 Message:

I find the plethora of 3-character TNLS messages quite  
objectionable. TNLS already was putting out too much garbage,  
especially when the system was slow; the constant strain of  
either waiting for slow computer responses or typing ahead and  
becoming disoriented (not to mention making non-undoable  
errors) makes TNLS quite unpleasant during the hours of heavy  
use. My personal feeling is that it should be possible and  
perhaps even the default that there should be NO computer  
feedback during specification of the command. (Cf. 940 QED)

3c7

DHC Speeding up user interaction in TNLS

24=APR=73 11:01 16104 Message:

The "by literal?" query used for replace commands is  
irritating at best. How about having "B automatically mean that  
literal text will be entered (or have "d mean that and "B mean  
to use text from elsewhere, depending on which is used most).  
Syntax becomes:

Replace word at ,1a 2w "D  
..enter replacing text.. "D

Implemented items and rejected suggestions received by ARC feedback  
as of May 1, 1974

OR;  
Replace word at ,1a 2w "B ,2b 5w "D

3c8

Jump 'Cntnt' etc 'Cmnd' Spec>            ???        ???        <NLS

3c9

Eliminate need to type 'a after Jump to Name, Jump to  
Content, Jump to Word, etc. == perhaps by letting one bug  
name register,

3c9

LPD

8=JAN=73 14:16 13741 Message:

Whatever became of the plans to allow TNLS addressing in DNLS?  
It sure would be nice to get rid of the current hodgepodge of  
Jump commands,

3c10

RWW NP \* NP SID Renumbering Command

22=FEB=73 12:16 14717 Message:

TNLS users are now using SID's extensively and liking them,  
There is a need for an easy way to get them renumbered  
sequentially after some editing has been done, users now go to  
considerable lengths to do this, by creating new files,  
replacing origin statements, copying plex as a stadad sequence,  
There ought to be a simple command resequence SID's to  
accomplish this purpose,

3c11



SRL 7-MAY-74 08:35 22906

Implemented items and rejected suggestions received by ARC feedback  
as of May 1, 1974

(J22906) 7-MAY-74 08:35; Title: Author(s): Susan R. Lee/SRL;  
Sub=Collections: SRI=ARC; Clerk: SRL;  
Origin: ( LEE, OLD,NLS;3, ), 3-MAY-74 15:45 SRL ;

Space needed in New TNLS

on new NLS; at the typewriter terminals for TNLS, there should definitely a space after the address and the next noise words or prompts, e.g., ...A;/[T]; addressThrough A;/[T]; address ....., Robert

1

Space needed in New TNLS

(J22907) 6-MAY-74 13:43; Title: Author(s): Robert N. Lieberman/RLL;  
Distribution: /FDBK( \* action \* ) ; Sub=Collections: SRI=ARC; Clerk:  
RLL;

Unneeded colons : New nls

Suggest that the multiple colons in the list of prompts (e.g., A:[T]: ) are not needed and in fact bothersome. Just simply A/[T]: would serve better. I admit that the purist might complain and that it might be more difficult to implement but from the user point of view it would look nicer. Robert

1

Unneeded colons : New nls

(J22908) 6-MAY-74 13:48; Title: Author(s): Robert N. Lieberman/RLL;  
Distribution: /FDBK( \* action \* ) ; Sub=Collections: SRI=ARC; Clerk:  
RLL;

## Semicolons in new NLS, Where are they?

Apparently the semicolons context search is not functional in New NLS. Only the ",'" can be used. This is unforatunate because when using TNL\$ to shift and hunt for the quote is not a smoth operation for most typists, if text searching within statement is be via the "=s" suffix, then may I suggest that some 'no shift' charcter be used, semicolons is a good choice - the pinky finger rests on it; also a colon mihgt be good but this varies from termnal to termnal, P.S, I thought that the semicolon, angle bracket, square bracket searches were in NEW NLS. Additional notes: an equal sign is also an uppercase charcter, Robert

1

Semicolons in new NLS, where are they?

(J22909) 6-MAY-74 14:09; Title; Author(s); Robert N. Lieberman/RLL;  
Distribution: /FDBK( \* action \* ) ; Sub=Collections: SRI=ARC; Clerk:  
RLL;

Stack no; ring yes,

I strongly urge that the link stack should not be simply a push down, pop-off stack. I have found several times that I wished to return to previous files. I flip back and forth among three files or two files. As presently implemented I lose the third file. Please let me know reasons if this is not possible. Thanks Robert

1



RLL 6-MAY-74 16:00 22910

Stack no; ring yes.

(J22910) 6-MAY-74 16:00; Title: Author(s): Robert N. Lieberman/RLL;  
Distribution: /FDBK( \* action \* ) ; Sub=Collections: SRI=ARC; Clerk:  
RLL;

ARC refusing networkers and crashes.

In the last week I have noticed that the ARC computer has ben up but did not permit access via the ARPANET, I guess this is a bug; if not I would like an explanation, Also the machine has 'gone down' severaa times to the network users (at least), This message is intended to let you know of this (If you did not already).

1

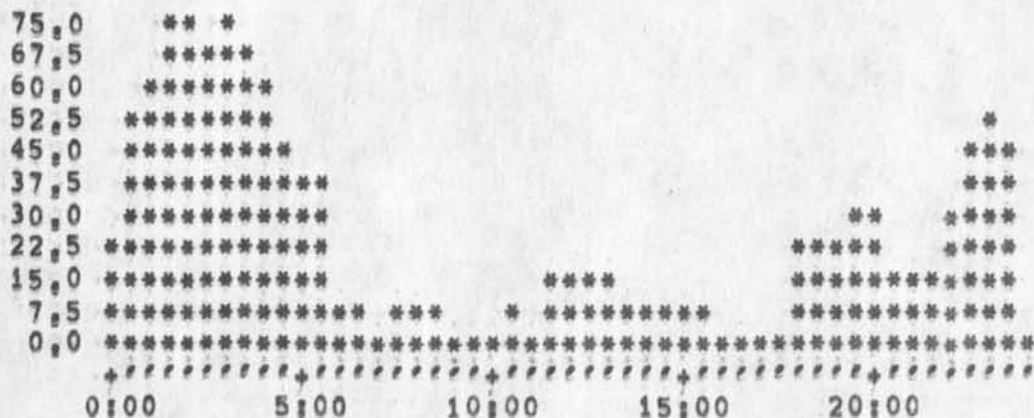
ARC refusing networkers and crashes,

(J22912) 7-MAY-74 18:11; Title: Author(s): Robert N. Lieberman/RLL;  
Distribution: /FDBK( \* action \* ) JCN( \* action \* ) ; sub=Collections:  
SRI=ARC; Clerk: RLL;

Superwatch Average Graphs for Week of 4/28/74

TIME PLOT OF AVERAGE IDLE TIME FOR WEEK OF 4/28/74  
x axis labeled in units of hr:min, xunit = 30 minutes

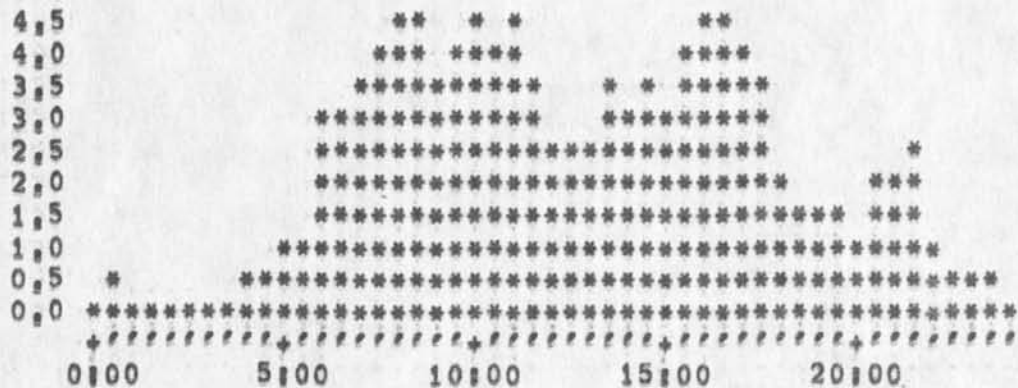
1



1a

TIME PLOT OF AVERAGE NUMBER OF GO JOBS FOR WEEK OF 4/28/74  
x axis labeled in units of hr:min, xunit = 30 minutes

2

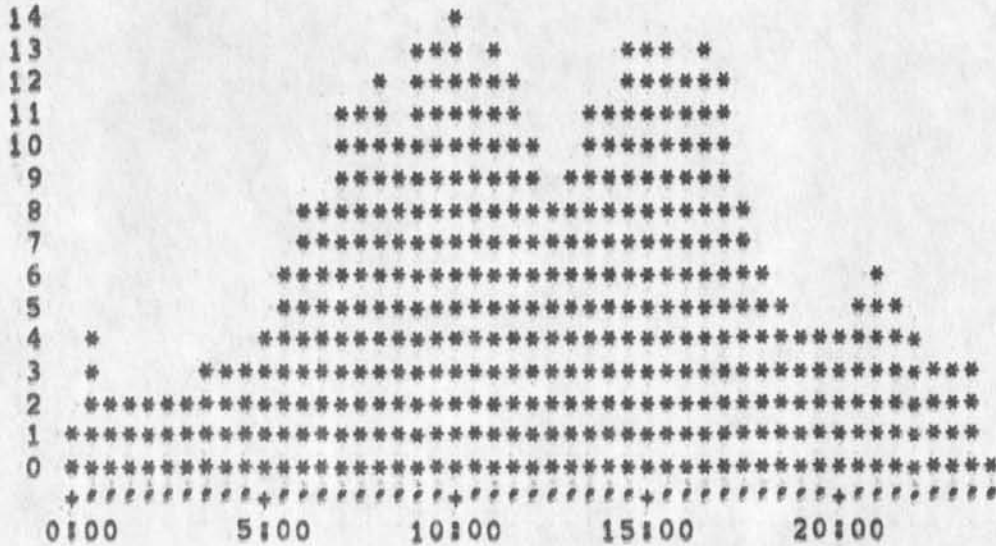


2a

Superwatch Average Graphs for Week of 4/28/74

TIME PLOT OF AVERAGE NUMBER OF USERS FOR WEEK OF 4/28/74  
x axis labeled in units of hr:min, xunit = 30 minutes

3

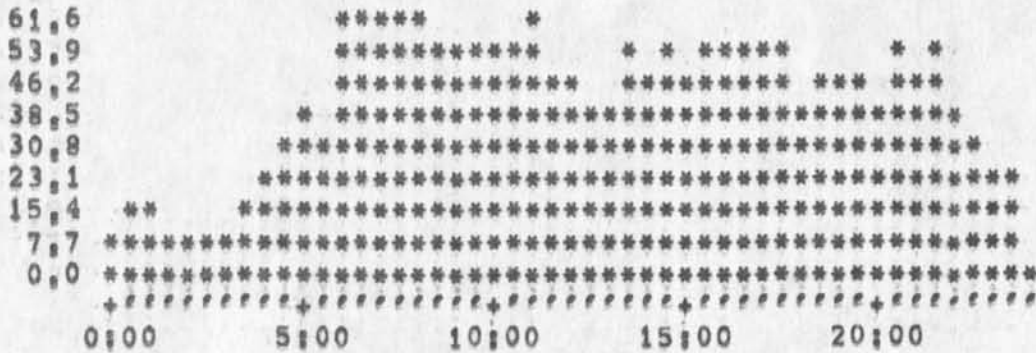


3a

TIME PLOT OF AVERAGE PER CENT OF CPU TIME CHARGED TO USER ACCOUNTS  
FOR WEEK OF 4/28/74

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

4

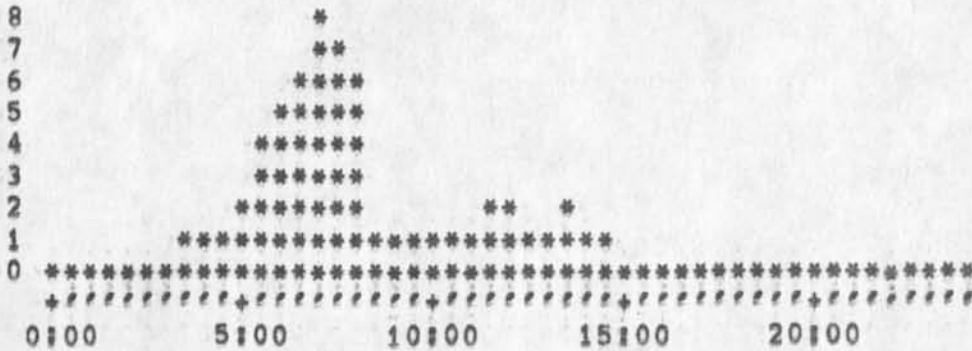


4a

Superwatch Average Graphs for Week of 4/28/74

TIME PLOT OF AVERAGE NUMBER OF NETWORK USERS FOR WEEK OF 4/28/74  
x axis labeled in units of hr:min, xunit = 30 minutes

5

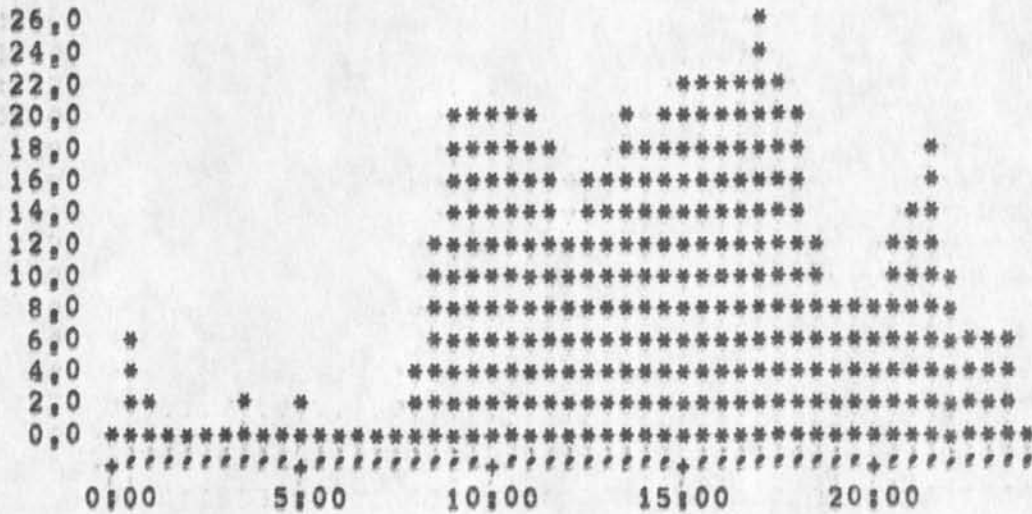


5a

TIME PLOT OF AVERAGE PER CENT OF SYSTEM USED IN DNLS FOR WEEK OF 4/28/74

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

6



6a

## Superwatch Average Graphs for Week of 4/28/74

(J22913) 8-MAY-74 08:32; Title: Author(s): Susan R. Lee/SRL;  
Distribution: /JCN( \* info-only \* ) RWW( \* info-only \* ) DCE( \*  
info-only \* ) PR( \* info-only \* ) JCP( \* info-only \* ) DVN( \* info-only  
\* ) JAKE( \* info-only \* ) DLS( \* info-only \* ) BAH( \* info-only \* ) WRF(  
\* info-only \* ) ; Sub-Collections: SRI=ARC; Clerk; SRL;  
Origin: ( LEE, WEEK4/28GRAPHS,NLS;2, ), 8-MAY-74 08:30 SRL ;####;

Response to feedback received as of 5/8/74

Specifically addressed are JAKE and RLL



Response to feedback received as of 5/8/74

Response to feedback received as of 5/8/74

Jake =

Replace from to by does seem clearer than replace at through by  
= I'll check with one of the programmers and see what the story  
is,

Robert =

Thanks for your suggestion about semicolons instead of quotes,  
fewer colons in prompts, and spaces between prompts and text.  
These user-oriented considerations will be reviewed,

We now have a link stack instead of a ring because it was felt  
it would be more intuitive to a new user. It was lengthened to  
10 to allow more room. In DNLS the place you will go is  
displayed on the screen and you are asked if that's where you  
want to go. In TNLS, I guess you would have to do a Show Link  
Status or something to know where you are going. I'll register  
your displeasure!

We have crashed a lot lately, in the future, if the computer is  
up and you can't access over the net call (415) 327-4990 and  
someone will check the net. Jeff can't do anything unless he  
knows at the time,

Response to feedback received as of 5/8/74

(J22915) 8=MAY=74 09:30; Title: Author(s): Susan R. Lee/SRL;  
Distribution: /SRI=ARC( \* info=only \* ) ; Sub=Collections: SRI=ARC;  
Clerk: SRL;

help sys: useopt

For TNLS users, useroption subsystem the help system could stand a bit of improvement, the description of 'currentcontext' command seems like the description for the reset currentcontext command. The menu items also seem to be mixed up.

1

help sys: useopt

(J22916) 8-MAY-74 10:30; Title: Author(s): Robert N. Lieberman/RLL;  
Distribution: /FDBK( \* action \* ) ; Sub=Collections: SRI=ARC; Clerk:  
RLL;

## Show directory command: comments

First, there seems to be a bug in the show directory command, try show directory <CA> "U for file filename <CA> No Protection <CA> <CA>, the message comes out 'reference to undefined interpreter variable'. I tried diffeent forms of filename (e.g., full name all the way out to version number, S in the name, just the naee without extension, ettc,) always the same message,

1

comment: the messaae is cryptic, It should be more explicit as to what is wrong, i.e., the filename, command, etc,

2

the other options for this command seem to work, namely, show directory <CCA> "U protection <CA> <CA>.

3

Comment: for protection option ther seems to be much too much information, Either eliminate the line called protection or the next three lines making the protection very explicit. My prefernce, well maybe the three line should survive, but it is a lot of lprinting, P, S, What is a grup in this sense, How does one become a memeber of a group or not a memeber?

4

Finally, for simple show directory command, one must type three (3!!!!) command accepts, that is a bit too much, I would think that a <CA> or "U would be the chose after Directory, If <CA> then that is it, Printout follows,

5

Show directory command: comments

(J22917) 8=MAV=74 11:22; Title: Author(s): Robert N. Lieberman/RLI;  
Distribution: /FDBK( \* action \* ) ; Sub=Collections: SRI=ARC; Clerk:  
RLI;

A bug with positional relations in links,

<,d> takes you down from the origin statement instead of the  
statement in which the link is located, I need to have this fixed  
asap, == KIRK

A bug with positional relations in links.

(J22918) 8-MAY-74 12:08; Title: Author(s): Kirk E. Kelley/KIRK;  
Distribution: /BUGS( \* action \* ) ; Sub=Collections: SRI=ARC BUGS;  
Clerk: KIRK;



## A Short Description of the ARPANET

About the ARPANET  
Advanced Research Projects Agency  
Department of Defense  
Computer Network

1

The ARPANET is a relatively new kind of digital communication system, a network employing wideband leased lines and message switching. The ARPANET provides for interconnecting dissimilar computers at widely separated sites via high-speed common carrier circuits. The development of the Network was sponsored by the Advanced Research Projects Agency (ARPA) of the U.S. Department of Defense,

1a

Each computer system, called a "Host", on the ARPANET is connected to the network through a communication interface called an "IMP". A maximum of four Hosts may be connected to the network through a single IMP,

1b

IMP's are small general purpose computers whose primary function is to forward data. No storage of data is accomplished at IMP's, only forwarding. Storage is accomplished at Hosts,

1c

Terminals may be connected to the network either through a Host, or directly through a special type of IMP called a "TIP",

1d

TIP's are IMP's to which has been added additional hardware and software that allows them to function as communication interfaces for terminals. Terminals may also be connected to the ARPANET through a special type of Host called "ANTS",

1e

Identical "protocols", i.e., rigidly structured and rigidly ordered data communication sequences, are programmed in all IMP's. Similarly, all TIP's have identical protocols programmed in them. In addition, new protocols are continually under development to reflect new data communication needs,

1f

The major objectives in developing the network have been:

2

1) to develop highly reliable and economic digital communications among heterogeneous computer systems and terminals, and

2a

2) to permit sharing of computer resources (hardware, software, and data) among geographically separated individuals, groups, and organizations,

2b

One of the major technological innovations used in the network is the concept of "packet switching",

3

## A Short Description of the ARPANET

Information to be transmitted over the ARPANET is segmented for transmission purposes into PACKETS (groups) of up to one thousand bits in length. Information transmitted over the the network, and hence each packet transmitted over the the network, may contain person-readable or machine-readable information or both. The length of the information that is to be transmitted is arbitrary; the length of the packet is controlled by the network switching technology,

3a

In transmitting packets over the network, transmission paths are not established in advance. Instead, each packet carries sufficient "switching" information with it. This enables each IMP on the network (which as previously mentioned is a small computer) to choose a currently operable path along which the packet can be routed or "switched" to the next appropriate IMP on its journey from source to destination. Packets are re-assembled at the destination,

3b

Information about the technical details of network technology exists in the professional literature, primarily in:

3c

- 1) May 1970 Spring Joint Computer Conference Proceedings
- 2) May 1972 Spring Joint Computer Conference Proceedings

3c1

The network currently consists of about 90 computer systems,

4

About half of these are medium to large scale computer systems referred to above as Hosts. The remaining computers function as direct interfaces to the network for a variety of computer terminals --- typewriter terminals, display terminals, high speed printers, and the like,

4a

More detailed information about the composition of the network --- its computer resources, the projects associated with it, and the uses made of it --- is presently considered to be U.S. proprietary information. This information is available only to those receiving permission from the ARPA Information Processing Techniques Office. Their address is:

4b

Advanced Research Projects Agency  
Information Processing Techniques Office  
1400 Wilson Boulevard  
Arlington, Virginia 22209

4b1

DR. J.C.R. LICKLIDER is currently the head of this Office,

4c

Foreign users of the network are not usually given access to network resources or network technological developments,

4d

## A Short Description of the ARPANET

There are three research computer systems at SRI currently attached to the network -- two in the Artificial Intelligence (AI) Laboratory, one in the Augmentation Research Center (ARC). There are also other projects at SRI which are funded by ARPA but for which no separate computer system exists, and there may be other computer systems at SRI attached to the ARPANET in the future,

5

The AI Lab is currently headed by Dr. Peter Hart. The ARC is currently headed by Dr. Douglas Engelbart. Each of these men carries out research for ARPA in conjunction with their use of the ARPA Network. Information about the nature of these research efforts should be directed either to Mr. Bonnar Cox, Executive Director of the Information Science and Engineering Division, or to Dr. Hart or Dr. Engelbart,

5a

In addition, the ARC operates the Network Information Center (NIC). The NIC's function is to collect, maintain, publish, and distribute certain summary information about the computer hardware, computer software, and individual persons involved in or associated with network-oriented research,

5b

To obtain information about the network from the NIC, one has to be a member of the network community. To be a member, one currently has to have permission from ARPA, or whomever they designate. The NIC does not have the authority to grant this permission; it is strictly a publishing and distribution center for ARPA. Once such permission is granted to an organization, all members of that organization are entitled to receive the summary information that the NIC distributes,

5c

One final aspect of these SRI ARPA-related research efforts should be noted, as it has been the source of some confusion: The ARC has established a separate computer facility that is connected to the ARPA network and physically operated at and by a commercial organization, TYMSHARE Inc. This separate facility, sometimes known simply as the "Utility", exists primarily for the purpose of furthering the research efforts of Dr. Engelbart, and any inquiries about it should be directed to him,

5d

6

A Short Description of the ARPANET

(J22919) 8-MAY-74 13:34; Title: Author(s): Michael D. Kudlick/MDK;  
Distribution: /JAKE; Sub=Collections: SRI=ARC; Clerk: MDK;  
Origin: <KUDLICK>ARPANET,NLS;3, 8-MAY-74 07:36 MDK ;

BC problem with Line Processor

[No content was specified.]

BC problem with Line Processor

(J22920) 8=MAY=74 15:35; Title: Author(s): Kirk E. Kelley/KIRK;  
Distribution: /BUGS( \* action \* ) DIA( \* action \* ) ; sub=Collections;  
SRI=ARC BUGS; Clerk: KIRK;

Maintenance, Tymshare Quote Request, PDP=10/11.

Augmentation Research Center  
Menlo Park, California 94025  
Stanford Research Institute  
8 MAY 74

Mr John Swarbrick  
Service Manager  
Tymshare  
Data Service Division  
10261 Bubb Road  
Cupertino, CA 95014

Dear Mr Swarbrick;

This is a request for a price quotation to maintain the attached lists of computer equipment. There are two lists: one our PDP=10 facility, and the other a PDP=11 system that we have not yet recieved,

If possible, please quote for each system 8, 16, 24 hour, and will-call service (5 and 7 days per week) - including replacement parts. Please include a statement stating service request response time.

In addition, we would like you to recommend, and quote, the coverage you think is necessary if we expect to reliably operate our PDP=10 as a 24 hour, 7 day a week facility, and our PDP=11 16 hours, 5 days a week.

As stated in last week's meeting, the earliest we would start these services would be July 1 for our PDP=10, and June 1 for our PDP=11.

It has been a pleasure talking with you. If you have any questions, or wish to discuss further, please do not hesitate to call me.

PDP=10 equipment

- |    |       |                                |
|----|-------|--------------------------------|
| 1, | KA10  | = arithmetic processor         |
| 2, | KM10  | = fast memory                  |
| 3, | KT10A | = dual memory protect relocate |
| 4, | TM10A | = mag tape control             |



Maintenance, Tymshare Quote Request, PDP-10/11,

5.	TD10	=	dectape control
6.	DC10A	=	data line scanner
7.	TU30B (2)	=	7 channel mag tape
8.	TU55 (2)	=	DEC tape transport
9.	DC10B	=	8 line communication group
10.	MA10 (8)	=	16K core memory
11.	ME10 (2)	=	16K core memory
12.	MC10 (40)	=	memory parts
13.	DF10 (2)	=	data channel
14.	RF10	=	disk controller
15.	RF10C	=	disk controller
16.	RP02 (6)	=	disk drive

## PDP-11 equipment

1.	11/40=BA	=	cpu with 16K memory
2.	KE11=E	=	extended instructions
3.	KW11=P	=	programmable clock
4.	MF11=U	=	16K memory w/control for additional 16K
5.	Mf11=L	=	16K memory
6.	KT11=D	=	memory management control
7.	DH11=AA	=	16 line communication multiplexor
8.	H960=DA	=	expansion cabinet
9.	DD11=A	=	Peripheral mounting module

Sincerely,

Augmentation Research Center

Martin Hardy  
 Supervisor, Computer Facility  
 (415) 326-6200 X3921

MEH/jcn  
 FWW  
 O. Courtney

Maintenance, Tymshare Quote Request, PDP-10/11,

(J22921  
) 8-MAY-74 16:57; Title: Author(s): Martin E, Hardy/MEH;  
Distribution: /JCN( \* info-only \* ) RWW( \* info-only \* ) ;  
Sub-Collections: SRI=ARC; Clerk: MEH;  
Origin: ( HARDY, TYM,NLS;23, ), 8-MAY-74 16:52 MEH ;###;

## Wrapping up Line Processor Development

## Line Processor

1

This note is to urge more haste if possible in getting the Line Processor project wrapped up and to express concern over fail safe and recovery procedures. I feel that a lot of the experiences and problems in using the Line Processor are getting lost and forgotten when changes are made. Martin please set up a problem logging mechanism. You can use the existing online feedback process (see Susan) and probably should set up a notebook at each operating system,

1a

Second there should be a meeting between hardware and software people when Don and Charles get back to straighten out any coordination problems there (please invite me).

1b

I would like Don and Martin to compile for me a brief list of known problems and developments outstanding by the end of next week,

1c

I am particularly interested in what remains or could be done to better handle errors and recover when a crash occurs. For example, for connection to TIPS are there any automatic aids to handling the TIP user protocol etc,

1c1

## Wrapping up Line Processor Development

(J22922) 8-MAY=74 16:34; Title: Author(s): Richard W. Watson/RWW;  
Distribution: /CHI( \* action \* ) MEH( \* action \* ) DIA( \* action \* )  
JCN( \* info=only \* ) DCE( \* info=only \* ) NDM( \* info=only \* ) ;  
Sub=Collections: SRI=ARC; Clerk: RWW;

Command Syntax Summary for New NLS==for online and offline viewing  
For Hardcopy, In Tenex, Copy <userguides>commands,print;\* to lpt:

SYNTAX OF NLS COMMANDS; NEW COMMAND LANGUAGE

9 MAY 74

Command Syntax Summary for New NLS==for online and offline viewing  
For Hardcopy, In Tenex, Copy <userguides>commands,print;\* to lpt:

## Definitions and Conventions

2

This document assumes that you know the meanings of the basic New NLS concepts. We here define special terms needed to understand the syntax of the command summary. See the on-line Help subsystem for general concepts. However, a conceptual map of addressing is included at the end of this document (see==Address).

2a

For the purpose of this document, each command=word begins with a capital letter, and the rest is lower case. Recognition of command=words will depend on the recognition mode set by the user. Words all in upper case are variables, which stand for certain alternatives, which are either defined below, or are denoted immediately following the command in which they appear.

2b

[...] optional elements, preceded by the OPTION character <control=u>

2c

!...! comments, not part of commands

2d

(...) noise words echoed by system; prompts are not shown

2e

### ADDRESS

a sequence (ending with an OK) of one or more of the addressing elements separated by spaces and ending with an OK. If you type only an OK, without typing any element, the prior position of the CM is taken. See the Addressing map (ADDRESS) at the end of this file.

2f

### DESTINATION;

In TNLS: DESTINATION = ADDRESS,

In DNLS: DESTINATION = BUG or OPTION ADDRESS,

When referring to Group or Text, DESTINATION needs two BUGS or two ADDRESSES.

2g

### SOURCE;

In TNLS: SOURCE = ADDRESS or OPTION TYPEIN

In DNLS: SOURCE = TYPEIN or BUG or OPTION ADDRESS,

When referring to Group or Text, two BUGS or two ADDRESSES are needed.

2h

### CONTENT;

In TNLS: CONTENT = TYPEIN or OPTION ADDRESS

In DNLS: CONTENT = TYPEIN or BUG or OPTION ADDRESS

(Same as SOURCE in DNLS),

When referring to Group or Text, two BUGS or two ADDRESSES are needed.

2i

OPTION = the <control=u> character

2j

Command Syntax Summary for New NLS==for online and offline viewing  
For Hardcopy, In Tenex, Copy <userguides>commands,print;\* to lpt:

(A field enclosed in squarebrackets==[,,,]==means that the OPTION character must precede specification of the expression,) 2j1

TYPEIN = any string of characters from the keyboard, terminated by an OK

TYPEIN has a special form when a FILEADDRESS or Ident is called for (You can tell from the noise words), 2k

LEVEL=ADJUST:

a lowercase u or d or a string of lowercase u's and d's, optionally preceded by integers, terminated by a <SP> or OK, the difference between the number of u's and d's is taken as a level adjustment value, If you only type a <SP> or OK, the level will be the same, 2l

VIEWSPECS:

type a string of any of the viewspec codes, terminated by an OK, or just type an OK if you don't want to change the viewspecs, 2m

ANSWER; y = yes; n = no

In a few commands NLS wants a yes or no answer; "yes" to proceed through the command; "no" to cycle back through some field, Type y for yes or n for no, You usually may also type OK here; the command will be immediately executed in most cases, 2n

SUBSYSTEM = Editor or Help or Programs or Readmail or Sendmail or Identification or Tenex or Useroptions or Calculator 2o

(These will be command=words) 2o1

STRING = Character OR Word OR Visible OR Invisible OR Number OR Link OR Text 2p

(These will be command=words) 2p1

STRUCTURE = Statement OR Group OR Branch OR Plex 2q

(These will be command=words) 2q1

OK = CA or INSERT or REPEAT		
default special characters:	display	teletype
	-----	-----

2r

CA: Command Accept; terminates the command and returns user to command reset mode	<"d"/CA	<"d"/CR
---	---------	---------

2r1

Command Syntax Summary for New NLS==for online and offline viewing  
 For Hardcopy, In Tenex, Copy <userguides>commands,print;\* to lpt;

INSERT: At the end of a command <"e" <"e"  
 in Editor subsystem only, exe=  
 cutes command and starts  
 "Insert Statement" defaulting  
 current CM location. User does:

2r2

INSERT LEVEL=ADJUST CONTENT OK  
 (insertion and LEVEL=ADJUST  
 is relative to CM)  
 INSERT mode continues until  
 user types CD  
 In all other cases, INSERT has  
 no special meaning; it is equi=  
 valent to Command Accept

2r2a

REPEAT: at end of any command <"b"/(<"b"/ESC/  
 terminates and repeats the ALTMODE ALT  
 command from the beginning,  
 defaulting each command=word until reaching the first field  
 not a command=word that the user can specify. User then  
 takes over the command. REPEAT mode continues until user  
 types CD

2r3

If a TYPEIN or a LEVEL=ADJUST or VIEWSPECS or an ADDRESS immediately  
 precedes OK, its terminator serves as the OK character, so if You  
 want to INSERT or REPEAT the command, terminate the TYPEIN,  
 LEVEL=ADJUST, VIEWSPECS, or DAE with the INSERT or REPEAT instead of  
 CA.

2s



Command Syntax Summary for New NLS==for online and offline viewing  
 For Hardcopy, In Tenex, Copy <userguides>commands,print;\* to lpt!

Command Summary

Universal commands available in almost all subsystems:  
 Show also: quit

Execute (command in) SUBSYSTEM

Goto (subsystem) SUBSYSTEM OK

<control=q>

A brief description of the NLS capabilities you were using  
 follows:

For help with help, type <control=q> again,

questionmark;

?

less-than;

<

greater-than;

>

semicolon;

;any comment, not to be taken as command input OK

Command Syntax Summary for New NLS==for online and offline viewing  
 For Hardcopy, In Tenex, Copy <userguides>commands,print;\* to lpt:

Editor:

3b

Archive File CONTENT [ARCHIVEOPT] OK  
 ARCHIVEOPT = Delete (Finished?) ANSWER  
           OR Do (not delete) (Finished?) ANSWER  
           OR Not (allowed) (Finished?) ANSWER  
           OR Deferred (Finished?) ANSWER  
           OR Immediate (Finished?) ANSWER

3b1

!!Another ARCHIVEOPT is expected if you type "n" for ANSWER!

3b1a

Insert:

3b2

STRING:  
 Insert STRING (to follow) DESTINATION CONTENT OK

3b2a

STRUCTURE:  
 Insert STRUCTURE (to follow) DESTINATION LEVEL=ADJUST CONTENT  
 OK

3b2b

Date:  
 Insert Date (to follow) DESTINATION OK

3b2c

Sendmail:  
 Insert Journal (submission form to follow) DESTINATION  
 LEVEL=ADJUST OK

3b2d

Time:  
 Insert Time (and date to follow) DESTINATION OK

3b2e

Show:

3b3

Archive:  
 Show Archive (directory) KEN [ADIROPT] OK  
 Show also==ADIROPT>  
 KEN = OK |directory connected to|  
       or TYPEIN  
       or [ADDRESS]

3b3a

Directory:  
 Show Directory KEN [DIROPT] OK  
 Show also==DIROPT>  
 KEN = OK |directory connected to|  
       or TYPEIN  
       or [ADDRESS]

3b3b

Disk:  
 Show Disk (space status) OK

3b3c

Command Syntax Summary for New NLS--for online and offline viewing  
 For Hardcopy, In Tenex, Copy <userguides>commands,print;\* to lpt:

File:	3b3d
Link:	
Show File Link (default directory) OK	3b3d1
Marker:	
Show File Marker (list) OK	3b3d2
Modification:	
Show File Modification (status) OK	3b3d3
Return:	
Show File Return (ring) OK	3b3d4
Size:	
Show File Size OK	3b3d5
Status:	
Show File Status OK	3b3d6
Name:	
Show Name (delimiters for statement at) DESTINATION OK	3b3e
viewspecs:	
Show Viewspecs (status) [Verbose] OK	3b3f
Set:	3b4
Case:	3b4a
STRING:	
Set Case STRING (at) DESTINATION OK	3b4a1
STRUCTURE:	
Set Case STRUCTURE (at) DESTINATION OK	3b4a2
Mode:	
Set Case Mode CASEMODE OK	
CASEMODE = Upper or Lower or Initial (upper)	3b4a3
Character:	
Set Character (size for window to) NUMBER OK	
NUMBER = TYPEIN; 0 or 1 or 2	3b4b
Filter:	3b4c
Off:	
Set Filter Off OK	3b4c1

Command Syntax Summary for New NLS==for online and offline viewing  
 For Hardcopy, In Tenex, Copy <userguides>commands,print;\* to lpt;

On:		
Set Filter On	OK	3b4c2
To:		
Set Filter To (pattern)	CONTENT OK	3b4c3
Link:		
Set Link (default for file to directory)	CONTENT OK	3b4d
Name:		
Set Name (delimiters in) STRUCTURE (at) DESTINATION (left delimiter) CONTENT (right delimiter) CONTENT	OK	3b4e
Temporary:		
Set Temporary (modifications for file)	OK	3b4f
Tty:		
Set Tty (window to window)	BUG OK	3b4g
Viewspecs:		
set Viewspecs	VIEWSPECS OK	3b4h
Reset:		3b5
Archive:		
Reset Archive (request for file)	CONTENT OK	3b5a
Case:		
Reset Case (mode)	OK	3b5b
Character:		
Reset Character (size for window)	OK	3b5c
Filter:		
Reset Filter	OK	3b5d
Link:		
Reset Link (default for file)	OK	3b5e
Name:		
Reset Name (delimiters in) STRUCTURE (at) DESTINATION	OK	3b5f
Temporary:		
Reset Temporary (modifications for file)	OK	3b5g
Tty:		
Reset Tty (window)	OK	3b5h

Command Syntax Summary for New NLS==for online and offline viewing  
 For Hardcopy, In Tenex, Copy <userguides>commands,print;\* to lpt;

Viewspecs:

Reset Viewspecs OK 3b5i

modifying=commands:

Show also, insert, create, useroptions, reset case mode, set case,  
 delete modifications, undelete modifications, 3b6

Append Statement (at) SOURCE (to) DESTINATION CONTENT OK 3b6a

Break Statement (at) DESTINATION LEVEL=ADJUST OK 3b6b

Copy: 3b6c

STRING:

Copy STRING (from) SOURCE (to follow) DESTINATION OK 3b6c1

STRUCTURE:

Copy STRUCTURE (from) SOURCE (to follow) DESTINATION  
 LEVEL=ADJUST [(Filtered;) FILTER] OK  
 FILTER = any combination of the following VIEWSPECS =  
 terminated by a CA; a, b, c, d, e, g, h, l, w, i, j, k 3b6c2

Archive:

Copy Archive (directory from) CONTENT (to follow)  
 DESTINATION LEVEL=ADJUST [ADIROPT] OK  
 Show also==ADIROPT> 3b6c3

Directory:

Copy Directory (from) CONTENT (to follow) DESTINATION  
 LEVEL=ADJUST [DIROPT] OK  
 Show also==DIROPT> 3b6c4

File:

Copy File (from) CONTENT (to) CONTENT OK 3b6c5

Sequential:

Copy Sequential (file from) CONTENT (to follow) DESTINATION  
 LEVEL=ADJUST [ALGORITHM] OK  
 ALGORITHM = Heuristic OR Justified OR Assembler 3b6c6

Delete: 3b6d

STRING:

Delete STRING (at) DESTINATION OK 3b6d1

Command Syntax Summary for New NLS==for online and offline viewing  
 For Hardcopy, In Tenex, Copy <userguides>commands,print)\* to lpt:

STRUCTURE;  
 Delete STRUCTURE (at) DESTINATION [(Filtered;) FILTER] OK  
 FILTER = any combination of the following VIEWSPECS =  
 terminated by a CA: a, b, c, d, e, g, h, l, w, i, j, k 3b6d2

All;  
 Delete All (markers) OK 3b6d3

Archive;  
 Delete Archive (file) CONTENT OK 3b6d4

File;  
 Delete File CONTENT OK 3b6d5

Marker;  
 Delete Marker (named) CONTENT OK 3b6d6

Modifications;  
 Delete Modifications (to file) OK (really?) OK 3b6d7

Edit Statement (at) DESTINATION EDITSTRING OK  
 EDITSTRING = a mixed string of the following characters:  
 <control=f>, <control=u>, <control=z>, <control=o>,  
 <control=s>, <control=g>, <control=p>,  
 <control=e>TYPEIN<control=e>, <control=h>, <control=w>,  
 <control=q>, <control=n>, <control=r>, 3b6e

Merge STRUCTURE (at) DESTINATION (into) DESTINATION OK 3b6f

Move; 3b6g

STRING;  
 Move STRING (from) SOURCE (to follow) DESTINATION OK 3b6g1

STRUCTURE;  
 Move STRUCTURE (from) SOURCE (to follow) DESTINATION  
 LEVEL=ADJUST [(Filtered;) FILTER] OK  
 FILTER = any combination of the following VIEWSPECS =  
 terminated by a CA: a, b, c, d, e, g, h, l, w, i, j, k 3b6g2

Boundary;  
 Move Boundary (from) BUG (to) BUG OK 3b6g3

File;  
 Move File (from old filename) CONTENT (to new filename)  
 CONTENT OK 3b6g4

Replace; 3b6h

Command Syntax Summary for New NLS==for online and offline viewing  
 For Hardcopy, In Tenex, Copy <userguides>commands.print;\* to lpt:

STRING;  
 Replace STRING (at) DESTINATION (by) CONTENT OK 3b6h1

STRUCTURE;  
 Replace STRUCTURE (at) DESTINATION (by) CONTENT OK 3b6h2

Sort STRUCTURE (at) DESTINATION OK 3b6i

Substitute STRING (in) STRUCTURE (at) DESTINATION (new STRING)  
 CONTENT (for old STRING) CONTENT (Finished?) ANSWER  
 [(filtered;) FILTER] OK  
 FILTER = any combination of the following VIEWSPECS =  
 terminated by a CA: a, b, c, d, e, g, h, l, w, i, j, k 3b6j

Transpose;  
 3b6k

STRING;  
 Transpose STRING (at) DESTINATION (and) DESTINATION OK 3b6k1

STRUCTURE;  
 Transpose STRUCTURE (at) DESTINATION (and) DESTINATION  
 [(filtered;) FILTER] OK  
 FILTER = any combination of the following VIEWSPECS =  
 terminated by a CA: a, b, c, d, e, g, h, l, w, i, j, k 3b6k2

Update File PAGING  
 PAGING = Old (version) OK  
 or Compact OK  
 or Rename (filename) CONTENT OK  
 or OK |defaults to update new! 3b6l

address=commands;  
 show also; syntax viewing=commands, delete marker, undelete  
 marker, reset name, set name, show file marker, show name, 3b7

Mark Character (at) DESTINATION (with marker named) CONTENT OK 3b7a

Renumber Sids (in file) OK 3b7b

TAB command;  
 <TAB> 3b7c

These 3 commands show the status of your Control Marker; 3b7d

backslash;  
 \ 3b7e

Command Syntax Summary for New NLS==for online and offline viewing  
 For Hardcopy, In Tenex, Copy <userguides>commands,print;\* to lpt;

```

period:                                     3b7f
.
slash:                                     3b7g
/

viewing=commands:
Show also; backslash, reset filter, set filter, reset viewspecs, 3b8
set viewspecs, show viewspecs, tab

Jump:                                       3b8a
  DNLS:                                     3b8a1
    BUG:
    Jump (to) BUG VIEWSPECS OK             3b8a1a
    Address:
    Jump (to) Address (relative to) BUG ADDRESS VIEWSPECS OK
                                           3b8a1b
    !Show also; ADDRESS!                   3b8a1b1
    Back:
    Jump (to) Back DESTINATION VIEWSPECS OK 3b8a1c
    Content:                                3b8a1d
      First:
      Jump (to) Content First SEARCH VIEWSPECS OK
      SEARCH = CONTENT or OKREPEAT |accept displayed one|
                                           3b8a1d1
      Next:
      Jump (to) Content Next SEARCH VIEWSPECS OK
      SEARCH = CONTENT or OKREPEAT |accept displayed one|
                                           3b8a1d2
    Down:
    Jump (to) Down DESTINATION VIEWSPECS OK 3b8a1e
    End:
    Jump (to) End (of branch) DESTINATION VIEWSPECS OK 3b8a1f
    File:                                    3b8a1g
      BUG:
      Jump (to) File BUG VIEWSPECS OK      3b8a1g1
      <SP>:
      Jump (to) File <SP> CONTENT VIEWSPECS OK 3b8a1g2
  
```



Command Syntax Summary for New NLS==for online and offline viewing  
 For Hardcopy, In Tenex, Copy <userguides>commands,print;\* to lpt:

Return:		
Jump (to) File Return CA ANSWER OK		3b8a1g3
Head:		
Jump (to) Head DESTINATION VIEWSPECS OK		3b8a1h
Item:		
Jump (to) Item DESTINATION VIEWSPECS OK		3b8a1i
Link:		
Jump (to) Link CONTENT OK		3b8a1j
Name:		
Jump (to) Name WHICHNAME VIEWSPECS OK		
WHICHNAME = BUG or Any CONTENT or First CONTENT		
or Next CONTENT or External CONTENT		3b8a1k
Next:		
Jump (to) Next DESTINATION VIEWSPECS OK		3b8a1l
Origin:		
Jump (to) Origin DESTINATION VIEWSPECS OK		3b8a1m
Predecessor:		
Jump (to) Predecessor DESTINATION VIEWSPECS OK		3b8a1n
Return:		
Jump (to) Return CA ANSWER OK		3b8a1o
Successor:		
Jump (to) Successor DESTINATION VIEWSPECS OK		3b8a1p
Tail:		
Jump (to) Tail DESTINATION VIEWSPECS OK		3b8a1q
Up:		
Jump (to) Up DESTINATION VIEWSPECS OK		3b8a1r
Word:		3b8a1s
First:		
Jump (to) word First SEARCH VIEWSPECS OK		
SEARCH = CONTENT or OKREPEAT !accept displayed one!		3b8a1s1
Next:		
Jump (to) Word Next SEARCH VIEWSPECS OK		
SEARCH = CONTENT or OKREPEAT !accept displayed one!		3b8a1s2

Command Syntax Summary for New NLS==for online and offline viewing  
 For Hardcopy, In TeXex, Copy <userguides>commands,print;\* to lpt:

```

TNLS: 3b8a2
    DESTINATION:
    Jump (to) DESTINATION OK 3b8a2a
LINEFEED 3b8b
Load File CONTENT OK 3b8c
Output: 3b8d
    Assembler:
    Output Assembler (file) CONTENT [Force (upper case)] OK 3b8d1
    Com:
    Output Com [COPYOPT] OK
    COPYOPT = File CONTENT OR Copies TYPEIN!number of copies
    wanted! 3b8d2
    Journal:
    Output Journal (quickprint) [COPYOPT] OK
    COPYOPT = File CONTENT OR Copies TYPEIN!number of copies
    wanted! 3b8d3
    Printer:
    Output Printer [COPYOPT] OK
    COPYOPT = File CONTENT OR Copies TYPEIN!number of copies
    wanted! 3b8d4
    Quickprint:
    Output Quickprint [COPYOPT] OK
    COPYOPT = File CONTENT OR Copies TYPEIN!number of copies
    wanted! 3b8d5
    Remote:
    Output Remote (printer TIP) CONTENT (port #) CONTENT (send
    form feeds?) CHOICE (wait at page break?) ANSWER (Go?) START
    CHOICE = Yes
    or No (simulate?) ANSWER
    START = Yes or OK!same as Yes!
    or No (Type <SP> when ready, CD to abort) <SP> 3b8d6
    Sequential:
    Output Sequential (file) CONTENT [Force (upper case)] OK 3b8d7
  
```

Command Syntax Summary for New NLS==for online and offline viewing  
For Hardcopy, In Tenex, Copy <userguides>commands,print;\* to lpt;

```

Terminal:
Output Terminal (send form feeds?) CHOICE (wait at page
break?) ANSWER (Go?) START
CHOICE = Yes
        or No (simulate?) ANSWER
START = Yes or OK|same as Yes!
        or No (Type <SP> when ready, CD to abort) <SP>          3b8d8

Print OK                                                         3b8e

STRUCTURE:
Print STRUCTURE (at) DESTINATION VIEWSPECS OK                  3b8e1

uparrow                                                         3b8f

file=handling:
show also: archiving commands, modifying=commands,
directory=commands, copy file, copy sequential, delete file,
delete modifications, move file, output, update file, show file
status, show file modification, set temporary, reset temporary  3b9

Create File CONTENT OK                                         3b9a

Load File CONTENT OK                                           3b9b

Protect File CONTENT CONTROLS OK
CONTROLS = Reset
        or Allow WHOM DOING (Finished?) ANSWER
        or Forbid WHOM DOING (Finished?) ANSWER
        or Private (for) WHOM
        or Set (to) 18BIT#
WHOM = Self or Group or Public
DOING = Read (access)
        or Write (access)
        or Execute (access)
        or List (access)
        or All (access)
        or Set (to) 6BIT#
18BIT# = a TYPEIN of a 18-bit TENEX protection number
6BIT# = a TYPEIN of a 6-bit TENEX protection number            3b9c

        ]!Typing n for ANSWER cycles you back to DOING!      3b9c1

Verify File OK                                                 3b9d

Undelete:                                                       3b9e

```

Command Syntax Summary for New NLS==for online and offline viewing  
 For Hardcopy, In Tenex, Copy <userguides>commands,print;\* to lpt;

Archive:		
Undelete Archive (file) CONTENT OK		3b9e1
File:		
Undelete File CONTENT OK		3b9e2
Modifications:		
Undelete Modifications (to file) OK		3b9e3
archiving=commands:		
Show also: Show Archive, Archive File, Copy Archive, Delete Archive, Expunge Archive, Reset Archive,		3b10
Retrieve File (from archive) CONTENT OK		3b10a
directory=commands:		
Show also: archiving=commands, Reset Link, set link, show file link, show disk,		3b11
Connect:		3b11a
Directory:		
Connect (to) Directory CONTENT (Password) CONTENT OK		3b11a1
Display:		
Connect (to) Display (number) CONTENT I/O OK		
I/O = Input (and output) OR Output (only)		3b11a2
Tty:		
Connect (to) Tty (number) CONTENT I/O OK		
I/O = Input (and output) OR Output (only)		3b11a3
Expunge:		3b11b
Archive:		
Expunge Archive (directory) OK		3b11b1
Directory:		
Expunge Directory OK		3b11b2
Trim Directory (No, versions to keep) CONTENT OK (really?) OK		3b11c
recording=commands:		3b12
Playback Session (from file) CONTENT OK		3b12a
Record Session (on file) CONTENT OK		3b12b

Command Syntax Summary for New NLS==for online and offline viewing  
 For Hardcopy, In Tenex, Copy <userguides>commands,print;\* to lpt:

Stop Record (of session) OK	3b12c
terminal=commands: Display, Teletype, etc, show also; syntax semicolon, syntax linefeed dnls, syntax move boundary, syntax reset, syntax set, syntax uparrow dnls,	3b13
Accept Connect (from display #) CONTENT OK	3b13a
Split Window DIRECTION OK DIRECTION = Horizontally or Vertically	3b13b
Release:	3b13c
All; Release All (frozen statements) OK	3b13c1
Frozen; Release Frozen (statement at) DESTINATION OK	3b13c2
Freeze Statement (at) DESTINATION VIEWSPECS OK	3b13d
Clear Window (at) DESTINATION OK	3b13e
Disconnect Terminal OK	3b13f
Simulate Terminal (type) TYPE OK TYPE = T1 (terminal) or Tasker or Execuport or 33-tty or 35-tty or 37-tty	3b13g
Logout OK	3b14

Command Syntax Summary for New NLS==for online and offline viewing  
For Hardcopy, In Tenex, Copy <userguides>commands,print;\* to lpt:

Help:

Show also: quit

3c

Algorithm CONTENT OK

3c1

Entrypoint OK

3c2

More OK

3c3

Show CONTENT OK

3c4

Command Syntax Summary for New NLS==for online and offline viewing  
For Hardcopy, In Tenex, Copy <userguides>commands,print;\* to lpt:

Identification:

3d

Command Syntax Summary for New NLS==for online and offline viewing  
 For Hardcopy, In Tenex, Copy <userguides>commands,print;\* to lpt;

Programs;		3e
Show also: jump, semicolon		
Attach Subsystem CONTENT OK		3e1
Compile;		3e2
Assembler;		
Compile Assembler (file at) DESTINATION (using) CONTENT (to file) CONTENT OK		3e2a
File;		
Compile File (at) DESTINATION (using) CONTENT (to file) CONTENT OK		3e2b
L10;		
Compile L10 (user program at) DESTINATION OK		3e2c
Deinstitute;		3e3
Content;		
Deinstitute Content (analyzer program) OK		3e3a
Seggenerator;		
Deinstitute Seggenerator (program) OK		3e3b
Sort;		
Deinstitute Sort (key extractor program) OK		3e3c
Delete;		3e4
All;		
Delete All (programs in buffer) OK		3e4a
Last;		
Delete Last (program in buffer) OK		3e4b
Execute (command in) SUBSYSTEM		3e5
Goto (subsystem) SUBSYSTEM OK		3e6
Institute Program CONTENT (as) PROGTYPE OK PROGTYPE = Content (analyzer program) OR Sort (key extractor program) OR Seggenerator (program)		3e7
Load Program CONTENT OK		3e8



Command Syntax Summary for New NLS==for online and offline viewing  
 For Hardcopy, In TeXex, Copy <userguides>commands,print;\* to lpt:

Process Commands (from) STRUCTURE (at) DESTINATION OK	3e9
Quit OK	3e10
Nls:	
Quit Nls OK	3e10a
To:	
Quit To SUBSYSTEM OK	3e10b
Reset:	3e11
Buffer:	
Reset Buffer (size) OK	3e11a
Nddt:	
Reset Nddt (control=h) OK	3e11b
Run Program CONTENT OK	3e12
Set:	3e13
Buffer:	
Set Buffer (size to) CONTENT OK	3e13a
Nddt:	
Set Nddt (control=h) OK	3e13b
Show Status (of programs buffer) OK	3e14

Command Syntax Summary for New NLS==for online and offline viewing  
 For Hardcopy, In Tenex, Copy <userguides>commands,print;\* to lpt;

Readmail;		
Show also: Guit		3f
Accept:		3f1
Authors:		
Accept Authors ALL/SOME OK		3f1a
]ALL/SOME = All !or! CONTENT		3f1a1
Titlewords:		
Accept Titlewords ALL/SOME CONTENT OK		3f1b
]ALL/SOME = All !or! CONTENT		3f1b1
Dates:		
Accept Dates (from) CONTENT (to) CONTENT OK		3f1c
]Note: Null date after "from" accepts everything, Null after "to" specifies today,		3f1c1
Brief (view for category) CONTENT OK		3f2
Category CONTENT OK		3f3
Delete (item number:) CONTENT (from all categories?) ANSWER OK		3f4
Expunge (all deleted items) OK		3f5
File (item number:) CONTENT (under category) CONTENT OK		3f6
Forward (item number) CONTENT (for) ACT/INFO (only to) CONTENT OK		3f7
]ACT/INFO = Action !or! Information		3f7a
Interrogate OK		
(Category:) CONTENT		
(file it?) ANSWER (category:) CONTENT		
(forward it?) ANSWER (to) CONTENT		
(delete it from this category?) ANSWER		3f8
]Note: the last three interrogations repeat for each item in the specified category,		3f8a
Next (item) OK		3f9
Omit:		3f10

Command Syntax Summary for New NLS==for online and offline viewing  
 For Hardcopy, In Tenex, Copy <userguides>commands,print;# to lpt:

Authors;		
Omit Authors ALL/SOME OK		3f10a
)ALL/SOME = All !or! CONTENT		3f10a1
Titlewords;		
Omit Titlewords ALL/SOME OK		3f10b
)ALL/SOME = All !or! CONTENT		3f10b1
Dates;		
Omit Dates (from) CONTENT (to) CONTENT OK		3f10c
)Note: Null date after "from" omits nothing, Null after "to" specifies today,		3f10c1
Output (item number;) ALL/SOME (to printer) OK		3f11
)ALL/SOME = All !or! CONTENT		3f11a
Resend (item number;) CONTENT (when?) CONTENT OK		3f12
)Note: will accept days of the week or the date after "when?",		3f12a
Show (item number;) ALL/SOME OK		3f13
)ALL/SOME = All !or! CONTENT		3f13a
Undelete (item number;) CONTENT (in all categories?) ANSWER OK		3f14
Verbose (view for category) CONTENT OK		3f15

Command Syntax Summary for New NLS==for online and offline viewing  
 For Hardcopy, In Tenex, Copy <userguides>commands,print;\* to lpt:

Sendmail;	
Show also: quit	3g
Authors CONTENT OK	3g1
Branch (at) SOURCE OK	3g2
Comments CONTENT OK	3g3
Done OK	3g4
Execute SUBSYSTEM OK	3g5
Expedite OK	3g6
File SPECIFICATION OK	3g7
DESTINATION;	
File DESTINATION OK;	3g7a
Named;	
File Named CONTENT OK;	3g7b
Goto SUBSYSTEM OK	3g8
Group (from) SOURCE OK	3g9
Hardcopy (located at) CONTENT OK	3g10
Initialize (specifications) OK	3g11
Insert;	3g12
Link;	
Insert Link (to follow) DESTINATION OK [Won't work 9APR74]	3g12a
Status;	
Insert Status (form to follow) DESTINATION LEVEL=ADJUST OK;	3g12b
Interrogate OK	
(type of source;) ITEM	
(title;) CONTENT	
(send to;) CONTENT	
(show status?) ANSWER	
(finished?) ANSWER	3g13

Command Syntax Summary for New NLS==for online and offline viewing  
 For Hardcopy, In Tenex, Copy <userguides>commands.print;\* to lpt:

]ITEM = STRUCTURE (at) CONTENT !or! File DESTINATION !or! File Named CONTENT !or! Message CONTENT !or! Hardcopy CONTENT	3g13a
Keywords CONTENT OK	3g14
Message CONTENT OK	3g15
Number SPECIFICATION	3g16
]SPECIFICATION = OK                   !to get one number or! CONTENT OK !to specify a reserved number!	3g16a
Obsoletes (item number(s)) CONTENT OK	3g17
Plex (at) SOURCE OK	3g18
Process (send=mail form at) DESTINATION OK	3g19
Reserve;	3g20
Journal:	
Reserve Journal (numbers == how many?) CONTENT OK	3g20a
Hardcopy:	
Reserve Hardcopy (numbers == how many?) CONTENT OK	3g20b
Nic:	
Reserve Nic (numbers == how many?) CONTENT OK	3g20c
Rfc:	
Reserve Rfc (number) OK (title) CONTENT (author) CONTENT (send to) CONTENT (online document?) ANSWER (show status?) ANSWER OK	3g20d
Rins:	
Reserve Rins (numbers == how many?) CONTENT OK	3g20e
Special:	
Reserve Special (numbers == how many?) CONTENT OK	3g20f
Rfc (number) CONTENT OK	3g21

Command Syntax Summary for New NLS==for online and offline viewing  
 For Hardcopy, In Tenex, Copy <userguides>commands,print;\* to lpt1

Send (for) CATEGORY (only to) CONTENT OK	3g22
]CATEGORY = Action  or  Information	3g22a
Show (status) OK	3g23
Statement (at) CONTENT OK	3g24
Subcollections CONTENT OK	3g25
Title CONTENT OK	3g26
Update (to item number(s)) CONTENT OK	3g27
Unrecorded OK	3g28

Command Syntax Summary for New NLS==for online and offline viewing  
 For Hardcopy, In Tenex, Copy <userguides>commands,print;\* to lpt:

Useroptions; 3h

Viewspecs SWITCH OK  
 SWITCH = Default VIEWSPECS  
           or On  
           or Off 3h1

Control (characters for terminal) DEVICES OK (control character)  
 CONTROLFUNCTIONS (character(s)) CONTENT (echo as) CONTENT OK  
 DEVICES = Tasker or Ti (terminal) or Nvt  
           or Lineprocessor or Imlac or Execuport  
           or 33-tty or 35-tty or 37-tty  
 CONTROLFUNCTIONS = Ca or Cd or Rpt or Insert  
                   or Bc or Bw or Bs or Litesc  
                   or Ignore or Sc or Sw or Tab 3h2

Currentcontext (length) NUMBER OK  
 NUMBER = CONTENT !of the number of characters printed! 3h3

Execute (command in) SUBSYSTEM 3h4

Feedback FEEDSPECS OK  
 FEEDSPECS = Verbose  
           or Terse  
           or Length NUMBER  
           or Indenting NUMBER  
 NUMBER = CONTENT !of the number of characters or spaces! 3h5

Goto (subsystem) SUBSYSTEM OK 3h6

Herald HERALDSPECS OK  
 HERALDSPECS = Verbose  
           or Terse  
           or Length NUMBER  
 NUMBER = CONTENT !of the number of characters printed! 3h7

Jump RINGTYPE (ring entries) NUMBER OK  
 RINGTYPE = Return !infile=return ring!  
           or Filereturn !file=return ring!  
 NUMBER = CONTENT !of number of entries in ring! 3h8

Leveladjust SWITCH OK  
 SWITCH = On  
           or Off 3h9

Command Syntax Summary for New NLS==for online and offline viewing  
 For Hardcopy, In Tenex, Copy <userguides>commands,print;\* to lpt:

Printoptions PRINTSPECS OK.  
 PRINTSPECS = Right (margin is column) NUMBER  
               or Left (margin is column) NUMBER  
               or Bottom (margin is line) NUMBER  
               or Page (size is (lines)) NUMBER  
               or Indenting (per level) NUMBER  
               or Tab (stop settings) TABTEXT  
 NUMBER = CONTENT !of a number!  
 TABTEXT = CONTENT !of one of the following forms:  
 (1) c    c    c    c        c    c    c    c        c  
       where c stands for any character except <SP>  
 (2) 8,16,24,39,.,.,.  
       where the number represents the column position (starting  
       from 1 not 0) for the next tab stop! 3h10

Prompt PMODE OK 3h11  
 PMODE = Off or Partial or Full

Quit OK 3h12

Nls:  
 Quit Nls OK 3h12a

To:  
 Quit To SUBSYSTEM OK 3h12b

Recognition (mode) RMODE OK  
 RMODE = Anticipatory  
           or Demand  
           or Fixed  
           or Expert (secondary mode) RMODE2  
 RMODE2 = Anticipatory or Demand or Fixed or Expert 3h13

Reset: 3h14

All:  
 Reset All OK 3h14a

Control:  
 Reset Control (characters for terminal) TERMINALS OK  
 TERMINALS = T1 (terminal) or Tasker or Nvt  
               or Lineprocessor or Imlac or Execuport  
               or 33=tty or 35=tty or 37=tty or All 3h14b

Currentcontext:  
 Reset Currentcontext (length) OK 3h14c



Command Syntax Summary for New NLS==for online and offline viewing  
 For Hardcopy, In Tenex, Copy <userguides>commands,print)\* to lpt:

**Feedback:**  
 Reset Feedback FEEDPARAMS OK  
 FEEDPARAMS = Mode or Length or Indenting 3h14d

**Herald:**  
 Reset Herald HERALDPARAMS OK  
 HERALDPARAMS = Mode or Length 3h14e

**Jump:**  
 Reset Jump RINGTYPE (ring entries) OK  
 RINGTYPE = Return or Filereturn 3h14f

**Leveladjust:**  
 Reset Leveladjust OK 3h14g

**Printoptions:**  
 Reset Printoptions PRINTSPECS OK  
 PRINTSPECS = Right (margin)  
               or Left (margin)  
               or Bottom (margin)  
               or Page (size)  
               or Indenting (per level)  
               or Tab (stop settings) 3h14h

**Prompt:**  
 Reset Prompt (mode) OK 3h14i

**Recognition:**  
 Reset Recognition (mode) OK 3h14j

**Viewspecs:**  
 Reset Viewspecs OK 3h14k

**Show:** 3h15

**All:**  
 Show All OK 3h15a

**Control:**  
 Show Control (characters for terminal) TERMINALS OK  
 TERMINALS = Tl (terminal) or Tasker or Nvt  
               or Lineprocessor or Imlac or Execuport  
               or 33=tty or 35=tty or 37=tty or All 3h15b

**Currentcontext:**  
 Show Currentcontext OK 3h15c

Command Syntax Summary for New NLS==for online and offline viewing  
 For Hardcopy, In Telex, Copy <userguides>commands,print;\* to lpt:

Feedback:		
Show Feedback OK		3h15d
Herald:		
Show Herald OK		3h15e
Jump:		
Show Jump OK		3h15f
Leveladjust:		
Show Leveladjust OK		3h15g
Printoptions:		
Show Printoptions OK		3h15h
Prompt:		
Show Prompt OK		3h15i
Recognition:		
Show Recognition OK		3h15j
Viewspecs:		
Show Viewspecs OK		3h15k
semicolon;		
; TYPEIN OK		3h16
Calculator:		3l

Command Syntax Summary for New NLS==for online and offline viewing  
 For Hardcopy, In TeXex, Copy <userguides>commands,print;# to lpt:

**ADDRESS;**

a description of a point in a file. It can be a sequence (ending with an OK) of one or more of the following elements separated by spaces and ending with an OK. Each element moves your Control Marker (CM) to a new position relative to the prior position of the CM if the new element points to something that is really there. Whenever you omit the ADDRESS field (by typing an OK at A:), the prior position of the CM is taken. By inserting a Link, you insert an indirect ADDRESS that you can then point to.

4

**FILEADDRESS; SITE, DIRECTORY, FILENAME,**

a filename optionally preceded by directory optionally preceded by a site in the form above. If you use FILEADDRESS in an ADDRESS, it must come first. It may include stars or Alt Mode (ALT/ESC).

4a

**Note:**

a comma is unnecessary after the FILENAME in those instances when only a FILEADDRESS is called for, not a whole ADDRESS, such as in Load File command.

4a1

**FILENAME;**

Each file in the system has a full filename which is divided into parts called fields. "," and ";" divide the fields, thus: name,extension;version=number. Each field except the number can be up to 39 characters and can be recognized one field at a time with <F>, or all fields (default extension: NLS, default version: latest except when deleting, then oldest) with ALT,. The system assigns a directory to each user in which files reside. NLS files have as their extension "NLS". Version numbers go up when you update.

4a2

**star convention;**

in order to specify more than one file in a command, a star may be placed in any field of a filename. For example, to get all the versions of a file, type <directory>name,extension;\*. Modification files have the extension ".PC;". When you use "\*" in a command it does not touch files with the extension ".PC;" unless it affects the permanent file that bears the modifications.

4a2a

Command Syntax Summary for New NLS--for online and offline viewing  
For Hardcopy, In Tenex, Copy <userguides>commands,print;\* to lpt;

**ALT: Altmode**

If you have typed enough characters in a directory or file name to differentiate it from other names, you may type <ALT> or <ESC> and the command will go on as if you had typed the whole name. Altmode calls only files with the extension "NLS," Altmode calls the highest version number except when you are deleting; then it calls the lowest. You may use \$ in a link to represent Altmode. <Control=f> works as Altmode in a filename for a single field only; then continue with the next field. Altmode works in filenames in the following commands:

4a2b

**directory field--**

If you are connected to a directory, you do not have to type the directory field of the filename in order to retrieve another file in that directory,

4a2c

**extension conventions:**

The filename's extension field for an NLS file is ,NLS;  
Other extensions denote other functions,  
,PC; designates this file as a modification file  
,TXT; represents a sequential file unloadable in NLS,  
,REL; means this file contains compiled code for a  
userprogram,

4a2d

**defaults:**

The default directory for links is determined by the Set Link default command. The default file for links is the current file. There can be no default file if the directory IS specified. The default ADDRESS is the current location of the link. The default viewspecs or filter are the current ones in effect,

4a3

**INFILEADDRESS:**

4b

**POSITION:** ,1b2c3d4e5fr6h,,, (preceded by a period in A;) move your CM in relation to its current location with the character that corresponds to the direction you wish to move. A number before any of these letters indicates the number of moves (default for number is 1),

4b1

,b	back	4b1a
,c	next occurrence of content	4b1b
,d	down	4b1c
,e	end	4b1d
,fr	file return	4b1e
,h	head	4b1f
,l	link	4b1g
,n	next	4b1h
,o	origin	4b1i

Command Syntax Summary for New NLS==for online and offline viewing  
For Hardcopy, In Tenex, Copy <userguides>commands,print;\* to lpt1

,p	predecessor	4b1j
,r	return	4b1k
,s	successor	4b1l
,t	tail	4b1m
,u	up	4b1n
,w	next occurrence of word	4b1o
STRINGPOSITION; =ic2e3f4i5l6n7v8w (preceded by plus or minus)		
Letters PRECEDED IMMEDIATELY BY A PLUS (+) mean SKIP FORWARD, BY A MINUS (-) mean SKIP BACKWARD, A number between the plus or minus and the letter indicates the number of skips,		
c	skip character	4b2a
e	skip to end (last character) of statement	4b2b
f	skip to front (first character) of statement	4b2c
i	skip invisible	4b2d
l	skip link	4b2e
n	skip number	4b2f
v	skip visible	4b2g
w	skip word	4b2h
SID; Statement Identifier: 012 4b3		
STATEMENTNUMBER; 1A2B3C4D5E,.. 4b4		
STATEMENTNAME; statementname 4b5		
NEXTNAME; *statementname (preceded by a star)		
moves you CM to the first character of the statement canonically next with that name, To search for the first name, use 0 in front of star name,		
EXAMPLE; If statement name is jonathan, type: 0 *jonathan		
If you use a statement name alone as an ADDRESS element (no *), the system will randomly search for any statement with that name, Thus NEXTNAME is slower but more predictable when two statements have the same name, show also: BRANCHNAME, ADDRESS, 4b6		
BRANCHNAME; !statementname (preceded by exclamation !)		
moves your CM to the name in the branch under the statement containing your CM,		
EXAMPLE; Typing: pigs !chauvinist		
would take you to the statement named chauvinist in the branch named pigs, 4b7		
EXTERNALNAME; &statementname (preceded by ampersand)		
moves your CM to any occurrence of the name in the SYSGD file of directory NLS if the name is not found in current file, 4b8		

Command Syntax Summary for New NLS==for online and offline viewing  
For Hardcopy, In Tenex, Copy <userguides>commands,print;\* to lpt:

CHARACTERADDRESS; \*CHARACTER (preceded by single quote)  
where CHARACTER = a single character  
A character search moves the CM to the next occurrence of that character. If the character is not found in the current statement, the search will go on to the next statement in the hierarchy, and so on to the end of the file. After you use a CHARACTERADDRESS, if you want to jump to a subsequent occurrence of that character, use the TAB command.

4b9

#### Special effects

CHARACTERADDRESS may be followed by the equal sign and a Number and a "c"

e.g., 'a=2c indicating the second occurrence of the letter a. This may be further followed by another equal sign and a Number and a "s" meaning to search only within that number of statements. A "w" can be used instead of a "c" to mean the Nth occurrence of CHARACTER as a word. (If a number is not specified it will be taken to be 1)

EXAMPLE: To search for the word "a" within the next 2 statements only, type: 'a=w=2s

4b9a

CONTENTADDRESS; "TYPEIN"=2W3S  
where TYPEIN = the content to be searched for (surrounded by quotes)

This may be followed by "=" and a Number N and a "w" indicating the Nth occurrence of TYPEIN as a word, and may be further followed by "=" and a Number N and a "s" meaning to search only within N statements. A "c" can be used instead of a "w" to mean the Nth occurrence of TYPEIN as any string. (If a number or letter is not specified it will be taken to be 1)

EXAMPLE: Type: "abit"s for an instatement content search for "abit"

4b10

word=search; e.g, "word"=w

A word search moves the CM to the next occurrence of that word. If the word is not found in the current statement, the search will go on to the next statement in the hierarchy, and so on to the end of the file. After you use a word search in an ADDRESS, if you want to jump to a subsequent occurrence of that word, use the TAB command

4b10a

Command Syntax Summary for New NLS==for online and offline viewing  
 For Hardcopy, In Tenex, Copy <userguides>commands.print;\* to lpt:

**MARKER:** #MARKER (preceded by poundsign)  
 jumps to marker of that name  
**EXAMPLE:** If marker name is signal, type: #signal  
 Markers are assigned to a particular character position and may be subsequently used as a name for that point in a file. You assign markers with the Mark command. A marker name is 1-5 alphanumeric characters (incl. hyphen & quote), and must be unique within a file. They are normally invisible when viewing your file, but you can see a list of all your file's markers with the Show File Marker list command. Marker assignments go away when you use the Delete Marker or Delete All Markers commands.

4b11

**slash:** / prints context of CM immediately  
 When a slash (/) element in an ADDRESS is reached, the location of the CM is immediately printed as a line feed break and anglebrackets, in its context of a few (default 7) characters on either side (you can control the number of characters==show 2 below). Then the next element in the ADDRESS is processed. The slash is used to determine where you have moved the CM without interrupting the ADDRESS. There is also a Slash (/) command which is not part of an ADDRESS.

4b12

**backslash:** \ prints statement containing the CM immediately  
 When a backslash (\) element in an ADDRESS is reached, the statement which now contains the CM will be immediately printed, without moving the CM, before the next element is processed. This element is used to determine at any point within your ADDRESS where your CM has moved. It is not to be confused with the Backslash (\) command, which is not used as an ADDRESS element, and which does move the CM.

4b13

Command Syntax Summary for New NLS==for online and offline viewing  
 For Hardcopy, In Tenex, Copy <userguides>commands,print;\* to lpt:

DIROPT: = a series of the following command=words;  
 [After each one you enter, you will be asked (Finished?), If you answer  
 Yes or OK the option field will be terminated; if you answer No, you may  
 then enter another command=word]

Deleted (files only) ;	5a
lists data for files deleted but not expunged	5a1
Undeleted (files only):	5b
lists data for undeleted files; this is the default	5b1
All (files):	5c
lists data for both deleted and undeleted files	5c1
For (file) CONTENT:	5d
lists only file or files associated with one name (affected by action of star convention and Altmode)	5d1
Everything:	5e
everything printable about each file	5e1
Verbose:	5f
lists size, last writer, last write date, and last read date for each file	5f1
Account:	5g
account number to which file storage is being charged	5g1
Protection:	5h
protection status of file	5h1
Last (writer):	5i
user who last opened file for write access	5i1
Number (of) Accesses:	5j
number of times file has been written and read	5j1
Number (of) Versions (to keep):	5k
lists the number of versions of each file now being kept	5k1
Dump (tape number):	5l
tape number of last dump	5l1
Archive Status:	5m
one of the following (show function Archive): already archived, don't delete after archiving; archive not allowed, archive pending; no special status	5m1
Archive Tape (numbers):	5n
lists tape numbers this file is archived on	5n1
Length ((and bytesize)):	5o
size in bytes; then byte length in parentheses	5o1
Size (in pages):	5p
size in disk pages	5p1
Miscellaneous:	5q
info such as whether it's a "long file" or permanent file	5q1
Date (of) Archiving:	5r
date the file was archived (if at all)	5r1
Date (of) Creation:	5s
date this version was created	5s1
Date (of) Last (dump):	5t



Command Syntax Summary for New NLS--for online and offline viewing  
For Hardcopy, In Tenex, Copy <userguides>commands,print;\* to lpt:

date this version of the file was last dumped on tape	5t1
Date (of) Original (version creation):	5u
date first version of this file was created	5ul
Date (of) Read:	5v
date file was last opened for read access	5vl
Date (of) Write:	5w
date file was last opened for write access	5wl
Time (and date of) Archiving:	5x
time and date the file was archived (if at all)	5x1
Time (and date of) Creation:	5y
time and date this version was created	5y1
Time (and date of) Last (dump):	5z
time and date this version of the file was last dumped on tape	5z1
Time (and date of) Original (version creation):	5a0
time and date first version of this file was created	5a01
Time (and date of) Read:	5aa
time and date file was last opened for read access	5aa1
Time (and date of) Write:	5ab
time and date file was last opened for write access	5ab1
](Note) NULL/Reverse means that you can specify the command=word	
Reverse, or that you can do nothing for this field and go on to the	
next command=word,	
Group (group by:) NULL/Reverse No (grouping):	5ac
Backs out of grouping; files will not be listed in categories; the	5ad
Sort options can still be used to sort the whole list. Whether you	
specify Reverse or omit it has no effect on this DIROPT,	5ad1
Group (group by:) NULL/Reverse Account:	5ae
Files charged to the same account number will be grouped together,	
with groups sorted highest number first for Reverse,	5ae1
Group (group by:) NULL/Reverse Archive Date:	5af
Files archived on the same date will be grouped together, with	
groups sorted most recent date first for Reverse,	5af1
Group (group by:) NULL/Reverse Archive Status:	5ag
Files with the same archive status will be grouped together,	5ag1
Group (group by:) NULL/Reverse Archive Tape:	5ah
Files stored on the same archive tape will be grouped together,	
with groups sorted highest tape number first for Reverse,	5ah1
Group (group by:) NULL/Reverse Creation (date):	5ai
Versions created on the same date will be grouped together, with	
groups sorted most recent date first for Reverse,	5ai1
Group (group by:) NULL/Reverse Deletion (status):	5aj
Separates deleted from Undeleted files if you also ask for All	
(files), with deleted files first for Reverse	5aj1
Group (group by:) NULL/Reverse Dump Date:	5ak
Files last dumped on tape on the same date will be grouped	
together, with groups sorted most recent date first for Reverse,	5ak1
Group (group by:) NULL/Reverse Dump Tape:	5al

Command Syntax Summary for New NLS==for online and offline viewing  
For Hardcopy, In Tenex, Copy <userguides>commands,print;\* to lpt:

Files dumped on the same tape will be grouped together, with groups sorted highest tape number first for Reverse,	5a11
Group (group by:) NULL/Reverse Last (writer):	5am
Files with the same last writer will be grouped together	5am1
Group (group by:) NULL/Reverse Number (of versions to keep):	5an
Files with the same number of versions being kept will be grouped together, with groups sorted highest number first for Reverse,	5an1
Group (group by:) NULL/Reverse Original (version creation):	5ao
Files whose original versions were created on the same date will be grouped together, with groups sorted most recent date first for Reverse	5ao1
Group (group by:) NULL/Reverse Protection:	5ap
Files with the same protection status will be grouped together,	5ap1
Group (group by:) NULL/Reverse Read (date):	5aq
Files with the same date of last read will be grouped together, with groups sorted most recent date first for Reverse,	5aq1
Group (group by:) NULL/Reverse Write (date):	5ar
Files with the same date of last write will be grouped together, with groups sorted most recent date first for Reverse,	5ar1
Sort (sort by:) NULL/Reverse Account:	5as
Sort WITHIN groups (or sort the whole list if it hasn't been grouped) by files charged to the same account number, with highest number first for Reverse,	5as1
Sort (sort by:) NULL/Reverse Alphabetical:	5at
Sort WITHIN groups (or sort the whole list if it hasn't been grouped) by alphabetical order of filenames (the sort will go back to this default) or, if you specify Reverse, by reverse alphabetical order of filenames,	5at1
Sort (sort by:) NULL/Reverse Archive Status:	5au
Sort WITHIN groups (or sort the whole list if it hasn't been grouped) by files with the same archive status,	5au1
Sort (sort by:) NULL/Reverse Archive Tape:	5av
Sort WITHIN groups (or sort the whole list if it hasn't been grouped) by archive tape numbers, with highest tape numbers first for Reverse,	5av1
Sort (sort by:) NULL/Reverse Archive Time (and date):	5aw
Sort WITHIN groups (or sort the whole list if it hasn't been grouped) by time archived, most recent first for Reverse,	5aw1
Sort (sort by:) NULL/Reverse Bytesize:	5ax
Sort WITHIN groups (or sort the whole list if it hasn't been grouped) by size of bytes, largest bytesize first for Reverse,	5ax1
Sort (sort by:) NULL/Reverse Creation (time and date):	5ay
Sort WITHIN groups (or sort the whole list if it hasn't been grouped) by time this version was created, most recent first for Reverse,	5ay1
Sort (sort by:) NULL/Reverse Deletion (status):	5az
Sort WITHIN groups (or sort the whole list if it hasn't been grouped) by files with the same deletion status,	5az1

Command Syntax Summary for New NLS==for online and offline viewing  
For Hardcopy, In Tenex, Copy <userguides>commands,print;\* to lpt:

Sort (sort by:) NULL/Reverse Dump Tape;	5be
Sort WITHIN groups (or sort the whole list if it hasn't been grouped) by latest dump tape numbers, with highest tape numbers first for Reverse,	5be1
Sort (sort by:) NULL/Reverse Dump Time (and date);	5ba
Sort WITHIN groups (or sort the whole list if it hasn't been grouped) by time of last dump, most recent first for Reverse,	5ba1
Sort (sort by:) NULL/Reverse Last (writer);	5bb
Sort WITHIN groups (or sort the whole list if it hasn't been grouped) by name of last writer,	5bb1
Sort (sort by:) NULL/Reverse Length (in bytes);	5bc
Sort WITHIN groups (or sort the whole list if it hasn't been grouped) by size of file in bytes, largest file first for Reverse,	5bc1
Sort (sort by:) NULL/Reverse Number (of) Accesses;	5bd
Sort WITHIN groups (or sort the whole list if it hasn't been grouped) by number of times written and read, highest number first for Reverse,	5bd1
Sort (sort by:) NULL/Reverse Number (of) Reads;	5be
Sort WITHIN groups (or sort the whole list if it hasn't been grouped) by number of times read, highest number first for Reverse,	5be1
Sort (sort by:) NULL/Reverse Number (of) Versions (to keep);	5bf
Sort WITHIN groups (or sort the whole list if it hasn't been grouped) by number of versions kept for each file, highest number first for Reverse,	5bf1
Sort (sort by:) NULL/Reverse Number (of) Writes;	5bg
Sort WITHIN groups (or sort the whole list if it hasn't been grouped) by number of times written, highest number first for Reverse,	5bg1
Sort (sort by:) NULL/Reverse Original (version creation);	5bh
Sort WITHIN groups (or sort the whole list if it hasn't been grouped) by time and date the original version of this file was created, with most recent first for Reverse	5bh1
Sort (sort by:) NULL/Reverse Read (time and date);	5bi
Sort WITHIN groups (or sort the whole list if it hasn't been grouped) by time last read, most recently read first for Reverse,	5bi1
Sort (sort by:) NULL/Reverse Size (in pages);	5bj
Sort WITHIN groups (or sort the whole list if it hasn't been grouped) by size of file in pages, largest file first for Reverse,	5bj1
Sort (sort by:) NULL/Reverse Write (time and date);	5bk
Sort WITHIN groups (or sort the whole list if it hasn't been grouped) by time last written, most recently written first for Reverse,	5bk1

Command Syntax Summary for New NLS==for online and offline viewing  
For Hardcopy, In Tenex, Copy <userguides>commands,print;\* to lpt;

(J22923) 4-MAY-74 21:38; Title: Author(s): Jeanne M, Beck/JMB;  
Distribution: /SRI-ARC( \* action \* ) ; Sub-Collections: SRI-ARC; Clerk:  
JMB;  
Origin: ( USERGUIDES, COMMANDS,NLS;105, ), 4-MAY-74 21:30 JMB ;  
####;

TENEX Advisory Committee

Jim, Dick: Copy enclosed of a message from Licklider (via Bert Sutherland) regarding the TENEX Advisory Committee. A topic in our next EMC meeting will be how to handle, among the three of us, the continuing responsibility of ARC's involvement in this Committee. It seems to have an odd mix from such as Operations, New-development Planning, Effectiveness of ARPA-Sponsored Research, etc.

Regards, Doug

-----

D30-1018 SUTHERLAND: TENEX Advisory Committee  
Distribution: ENGELBART, ARPA/ipto P,I, S, TENEX Adv Comm,  
ARPA/ipto Staff  
Sent: 30-APR-74 1314=EDT

Gentlemen:

ARPA/IPTO has formed a TENEX Advisory Committee. Lick was going to send out the letter which follows but he did not have time to do so before leaving for a long visit in Europe. I am consequently sending out the letter to you in his absence so that we can press on with the TENEX Committee work; there has already been sufficient delay.

Please consider the following letter as coming from Lick and I will ask him to send on a short confirming note when he returns. Thank you for your attention to this matter. Craig Fields has agreed that this request should go out promptly now to the P,I,S.

Bert Sutherland (SUTHERLAND@BBN)

----- (Following is from Licklider [dce])

Dear PI:

ARPA/IPTO has established a TENEX Advisory Committee as announced at the TENEX meeting held on February 25th at ARPA. The initial charter of this committee includes:

1. To provide general guidance and advice to ARPA with respect to TENEX policy.
2. To assist in the collection of and to evaluate and recommend requirements for TENEX changes and additions and to aid in selecting priorities for accomplishing designated TENEX development activities.
3. To recommend allocation of TENEX development activities to

## TENEX Advisory Committee

organizations or groups, with appropriate recognition of interest, ability, experience, and personnel available,

6c

4. To evaluate the quality and completeness (including documentation) of development work performed,

6d

5. To develop operational standards and procedures for TENEX service organizations and to evaluate the performance of designated service systems,

6e

The TENEX Advisory Committee membership is:

7

Name	Affiliation	Net Mail Address
-----		
W.R. Sutherland	BBN	SUTHERLAND@BBN
T.L. Boynton	USC=ISI	BOYNTON@USC=ISI
D.C. Lynch	SRI=AI	LYNCH@SRI=AI
F.R. Ferguson	SRI=ARC	FERGUSON@SRI=ARC
H.D. Wactlar	CMU	WACTLAR@CMU=10B
M.G. Morris	CCA	MGM@CCA

8

ARPA/IPTO resources are limited, and it is important to maximize our research results. Consequently, major driving forces behind the TENEX Advisory Committee are to ensure that TENEX support activities are promoting vital research needs, that duplicate efforts are avoided, and that the overall needs of the ARPA community are recognized in setting development priorities,

9

An initial task of the TENEX Advisory Committee will be to collect and evaluate TENEX support requirements and recommend priorities to ARPA. Each PI is requested to consider what additions and modifications to TENEX his project requires and is invited to submit in writing, over his signature, a description of his project's needs for work on TENEX. This is an opportunity to document requirements for changes to and new features for TENEX,

10

Evaluating requirements and setting priorities for TENEX support in an ARPA wide context will require data on subjects such as the following:

11

1. A description of the research need requiring the change or addition to TENEX. (what's holding up your research?)

11a

2. A statement about the benefits expected from the required support action in terms of time, capabilities, economics, etc. (How much will a TENEX fix help?)

11b

3. A consideration of alternative actions along with estimates of time penalty, costs etc. (What happens if you don't get it?)

11c

## TENEX Advisory Committee

4. An indication of your subjective priority==== measured by willingness to devote your own project resources to the support action, (How badly do you want it?)

11d

We are really trying to improve the allocation and deployment of ARPA/IPTO resources to achieve the best productivity we can. It is important to select and implement TENEX improvements very carefully because ARPA does not intend to support modifications that are not either necessary to the achievement of specific research goals or revolutionary in their impact on efficiency. Your serious consideration of this request is solicited.

12

Please send your response by May 24 to the directory <TENEX-PROJECT> @BBN-TENEX.

13

Comments, suggestions, and constructive criticisms are welcome. Send them either to ARPA or to the TENEX Advisory Committee.

14

TENEX Advisory Committee

(J22924) 6=MAY=74 15:06; Title: Author(s): Douglas C. Engelbart/DCE;  
Distribution: /RWW( \* action \* ) JCN( \* action \* ) ; Sub=Collections:  
SRI=ARC; Clerk: DCE;



strange system message

After a "update file compact" command I got a "file numbers do not match in storesring" message. The file seems ok and got no other messages, this happend Wednesday night and again Thursday (may8,9). Should I worry about the file ? Robert

1

strange system message

(J22925) 9=MAY=74 08:22; Title: Author(s): Robert N. Lieberman/RLI;  
Distribution: /FDBK( \* action \* ) ; Sub=Collections: SRI=ARC; Clerk:  
RLI;

.PROC=REP; question

Does it replace only the procedure with the same name as the filename  
? or does it replace all of the procedures in NLS with the same  
names as each of the procedures in the file?

1

.PROC=REP; question

(J22929) 9-MAY-74 11:36; Title: Author(s): Kirk E. Kelley/KIRK;  
Distribution: /KEV( \* action \* ) ; Sub=Collections: SRI=ARC; Clerk:  
KIRK;

## More universal commands

The system would be more useable for me if many more commands in addition to Execute, Goto, Quit, etc, were Universal commands available in all subsystems. In particular: Jump would be most desireable. Also, Show, Set, Reset, and Split.

1

More universal commands

(J22930) 9-MAY-74 12:28; Title: Author(s): Kirk E. Kelley/KIRK;  
Distribution: /NEWNLS( \* info=only \* ) ; Sub=Collections: SRI=ARC  
NEWNLS; Clerk: KIRK;

## Bugs and Thoughts = New CML

## Bugs: 1) When in SENDMAIL:

- a) I found in interrogate that the only way to get by an item is NULL <OK>; NULL = <character> BS = that's extremely awkward, 1a
- b) I tried CD to go by an item and got bounced out of interrogate. That does not seem right, CD should have taken me to the next item, 1b
- c) When in the middle of interrogate and trying to find out how to get by an item and then quitting, I did not return to where I was but instead ended up at the command level. Very irritating in the middle of a message, 1c
- d) Next I tried to recover MY work by inserting the status, then inserting a command form from the editor, editing my command form and quitting the editor, MY labors were rewarded with an illegal instruction message, 1d
- e) Conclusion: SENDMAIL and interrogate are still too rough, 1e

## Thoughts

## 1) Help

- a) It's still too slow getting there 2a1
- b) When there ? not very useful 2a2
- c) To be asked to do "Q" and its delays again is irritating 2a3
- d) When trying to go "back" I was prompted for text when I knew I had to hit <, a command 2a4
- e) Conclusion: It's all still quite rough 2a5
- f) In help database, on some commands you get the syntax in the menu, others not. I like getting the syntax as it may not require me to go on. Let's adopt this as the uniform convention, 2a6

## 2) Repeat

- Can't we have a more intelligent implicit way of getting out of repeat mode as in old system by having it recognize that characters being typed are illegal at that point and try to interpret them as commands? 2b1

## 3) SENDMAIL

2c

Bugs and Thoughts = New CML

I tend to use Interrogate all the time, Do others? If so why not just automatically enter interrogate when arriving in SENDMAIL, Should other fields be added like keywords and obsolete, assuming one can pass them easier than at present,

201



Bugs and Thoughts = New CML

(J22931) 9-MAY-74 13:01; Title: Author(s): Richard W. Watson/RWW;  
Distribution: /FDBK( \* action \* ); Sub=Collections: SRI=ARC; Clerk:  
SRL;  
Origin: ( LEE, SEND,NLS;1, ), 9-MAY-74 13:00 SRL ;####;

## Request for More Feedback

Thanks to all those who have submitted comments about the new command language, 1

However, I would like to encourage more people to submit their opinions. I can't believe that a user of the new CML would have no opinions pro or con, and there are several users who are not programmers who haven't submitted any comments. 2

The Analysis group needs your input in order to make reasonable suggestions to Development for future changes in the command language, especially for the MST program. 3

Any comments are welcome but the more specific you can be about things you don't like the better. For example, it is more helpful to hear, "I don't think it's necessary to confirm twice that I am ready to send a file" than "The Sendmail system is hopeless to use." 4

Request for More Feedback

(J22932) 9=May=74 14:15; Title: Author(s): Susan R. Lee/SRL;  
Distribution: /SRI=ARC( \* action \* ) ; Sub=Collections: SRI=ARC; Clerk:  
SRL;  
Origin: ( LEE, MESS,NLS;1, ), 9=May=74 12:24 SRL ;###;

Line Processor Troubles: Dialog to date

Summary of Line Processor dialog in which I have been involved,

## Line Processor Troubles: Dialog to date

8=May=74 1634=P RWW: Wrapping up Line Processor Development  
 Distribution: RWW CHI MEH DIA JCN DCE NDM  
 Received at: 8=May=74 17:37  
 Location: (MJOURNAL, 22922, 1:w)

3=May=74 0837=PDT HARDY: Lineprocessor, Bad EP Transmitter  
 Distribution: MEYER, irby, norton  
 Received at: 3=May=74 08:37:06

Dean:

We have found several of the MOS MSITransmitter chips that we are using for to transmit data to the modem are bad, We have sent you a new one via Jim Bair, It has been tested and we think is good, Would you replace it in you Lineprocessr, (It is the chip next to the transmitter chip you replaced the last time, and is the only one in there that looks like the one we sent you, To make sure, read the numbers stamped on top of the chips,) This may be a source of some of the Blow=u troubles you h e been experiencing, Let us know results, good luck  
 == martin,,

3=May=74 0819=PDT HARDY: Lineprocessor Primer  
 Distribution: MEYER, vannouhuys, norton, watson, irby  
 Received at: 3=May=74 08:19:38

Dean:

We have installed a Lineprocessor Workstation here in our Tasker Workstation area, It is connected to the TIP at Tymshare via AT&T 208A modems ust like the system there at SRI=w, We would like people here to use it, but are in need of a short Primer telling how to interact with the TIP and how to recover from typical BLOW=UPS, Could you possibly write one? we do not need anything fancy, just a first cut, something to get us started,)  
 == martin,,

29=APR=74 1026=P NDM: Line Processor Troubles: TENEX Links  
 Received at: 29=APR=74 11:51  
 Journal Message 22850

I get an Illegal Instruction crash (of course can't catch more info) whenever I get a link while line processor is recreating display,

20=APR=74 0859=PDT ANDREWS: user prog sendmes  
 Distribution: MEYER  
 Received at: 20=APR=74 08:59:52

I suspect that sendmes is doing a RESET jsys which sends a RESET command to the Line Processor == which clears the screen and reset

## Line Processor Troubles: Dialog to date

the tty window, I would say that sendmes should not do a reset, That is a rather global thing for a user program to be doing! Hayn't looked into the lpprint problem yet but it sounds strange == does it work on a simple file with just a string of text??  
Don

5a

19=APR=74 1413=P NDM: Line Processor Troubles: Blow=Ups  
Distribution: NDM CHI DIA MEH RAB  
Received at: 20=APR=74 00:16  
Journal Message 22774

6

I just had another series o3 blow-ups with the line processor, It would get in a state of receiving tons of garbage from EP and sending to display, and then occasionally (in some cases continually) sending stuff back to EP. I have a feeling it is a heat related hardware problem, because taking the cover off the LP seems to help. It is independant of whether I7m in LP or tty mode, and happened once when I wasn't even logged in but sitting at the herald. The following patterns came up (were repeatedly printed on display): "AB6B2f7" "CaB6Sr" "ROPPR6" and "\_AB6S AB6SwV". Of course I couldn't tell whe9e the beginning of the patter was, but thought they might ring a bell with someone. Systems reset on LP sometimes gave me the chance to get through to the TIP and disconnect. Reconnecting and attaching, the garbage was gone.

6a

Comments: Distribution: CHI DIA MEH RAB

6b

19=APR=74 1211=P CHI: Line Processor Troubles wit character translation  
Distribution: CHI NDM MEH DIA  
Received at: 20=APR=74 00:16  
Journal Message 22773

7

Dean, I have observed the problem you describe in 22763 but do not know what causes it. I have never noticed the correlation with the Quit command. I had assumed it was hardware. What do you think Martin and Don? == Charles,  
\*\*\*\*\*Note: \* info-only \* \*\*\*\*\*

7a

19=APR=74 1119=P NDM: Line Processor Troubles: Horizontal Split Screen  
Distribution: NDM CHI DIA  
Received at: 20=APR=74 00:16  
Journal Message 22772

8

Problems with Horizontally Split Screen: doesn't erase properly before putting up new material (<viewspec=f> works to fix up one window at a time); can't bug top line of bottom window

Line Processor Troubles: Dialog to date

(<viewspec=c allows me to do so); gets confused as to where boundary is and recreate=top=window quits early/runs into bottom area; sometimes Command Feedback area gets messed up, <viewspec=f> doesn't touch it,

8a

Comments: For the record; you probably know all this already.  
Distribution: CHI DIA

8b

19-APR-74 1013-P NDM: Line Processor Troubles: TIP intercept character

Distribution: NDM CHI DIA  
Received at: 20-APR-74 00:16  
Journal Message 22769

9

Charles: Thank you for your response to my bug reports, I'm just journalizing a message as I separate each new problem instead of compiling a file. It's more convenient for me if it's cool with you guys, I have been using <control=p> instead of @ as TIP intercept character,

9a

Comments: I did one journal submission, then started this one without quitting, resetting LP, and continuing. The way the journal left it it also sometimes leaves a bunch of characters out of the first word in the Command Feedback line, Command still scrolling up,

9b

19-APR-74 1007-P NDM: Line Processor Troubles: Name Area

Distribution: NDM DIA CHI  
Received at: 20-APR-74 00:16  
Journal Message 22768

10

When I type in something that echoes in the name area (old NLS) and overrun the space provided, the Command Feedback line scrolls down a line as if it's trying to make room to wrap around. It does not wrap around and from then on the command feedback line tends to scroll down (it leaves something messed up), <viewspec=f> does the right thing but does not fix whatever has been messed up internally,

10a

Comments: Distribution: DIA CHI

10b

19-APR-74 0834-P CHI: LP problems

Distribution: CHI NDM DIA  
Received at: 19-APR-74 09:46  
Journal Message 22764

11

Dean, Due to the large number of applicants and visitor this week, I have had virtually no time to debug know LP problem, I will try the Journal Distribution list stuff and determine what is wrong,

## Line Processor Troubles: Dialog to date

Yes, we will try to make it solid with old nls. The business with the TIP intercept character is quite bothersome news. What have you been using instead of @? -- Charles  
 \*\*\*\*\*Note: \* info-only \* \*\*\*\*\*

11a

Comments: Re: 30496 and 30494, Sent to NDM, DIA

11b

19-APR-74 0812=P NDM: Line Processor Troubles  
 Distribution: NDM DIA CHI  
 Received at: 19-APR-74 09:46  
 Journal Message 22763

12

This has happened to me both on ARC and Office-1. I have quit (old) NLS and found myself in a state where a lower case letter is interpreted as a control character (I type "t" and get "LOAD,," or "c" and get a <control=c>. Breaking my TIP connection, re-establishing a connection, then attaching seems to cure it.

12a

18-APR-74 1436=P NDM: Line Processor Troubles  
 Distribution: NDM CHI DIA JCN  
 Received at: 18-APR-74 16:08  
 Journal Message 30496

13

When I specify a distribution list in the Journal subsystem (standard NLS), what I type in appears at the bottom of a blanked screen, then when I'm done it recreates the display. But from then on the LP is confused; <control=t> REPLACES the command feedback line and sometimes the command feedback line scrolls up like a teletype. I have to quit and reset the line processor, do Xanother terminal type anothe9 TERMINAL TYPE IS LINEPROCESSOR command and then continue. I don't know if this happens in the new NLS (ARC is down now).

13a

Comments: Don't tell me the LP is "not guaranteed for old NLS." We have to be able to use it on Office-1. That's the point of its being here.

13b

18-APR-74 1421=P NDM: Line Processor through TIP  
 Distribution: NDM DIA CHI KEV  
 Received at: 18-APR-74 16:08  
 Journal Message 30494

14

I think I may have discovered one cause of grief with the Line Processor. Somehow the TIP intercept character gets set back to at=sign. I found that if it intercepts an "i" followed by anything but a number and a carriage return, it says "BAD" and THEN RESETS THE INTERCEPT CHARACTER TO AT-SIGN. This could happen due to noise going one way or the other. Of course that leaves me in a bad situation and things then become virtually impossible. I



## Line Processor Troubles: Dialog to date

am running in the intercept none mode now, but that scares me because if for any other reason things blow up, all I can do is watch, Suggestions?

14a

Comments: Distribution: CHI DIA KEV

14b

18=APR=74 0953=PDT MEYER(NDM) at SRI=ARC: Line Processor Troubles  
Distribution: MEYER, ANDREWS, IRBY  
Received at: 18=APR=74 09:53:21

15

The user program SENDMES seems to screw up the Line Processor in its RETURN. It blanks the screen, puts up the viewspecs and command feedback line, then runs them up a few lines and leaves it in a mode where error messages scroll from the bottom (I think even after a <viewspec=f>. Perhaps you could discover some of the cause of my troubles and this thing's sensitivity by looking into that. Also as I type this (an INPUT TEXT in the SENDMES program) it does NOT blank a new line in the literal feedback area, but blanks each character as it goes,,,sometimes,

15a

18=APR=74 0947=PDT MEYER(NDM) at SRI=ARC: LPPRINT,REL;4  
Distribution: MEYER, ANDREWS, IRBY  
Received at: 18=APR=74 09:47:07

16

<ANDREWS>LPPRINT,REL;4 turns status light zero on, then off, then it strats shaking my screen (Xs DISMES would) and nothing comes out either place,

16a

18=APR=74 0925=PDT VANNOUHUYS: Line Processor User's Guide  
Distribution: MEYER  
Received at: 18=APR=74 09:25:46

17

Yes, The drsft is unfinished in (vannouhuys,lineguide,) at arc. Don Thinks its too low level but I intend to finish it up this way. I had not heard of Ken's progam but will ask him about it. Your thoughts an comments are welcome since you are now the most experienced field user, I hope to finish next week,

17a

9=APR=74 2202=PDT ANDREWS: LP and the mouse  
Distribution: MEYER, irby, hardy  
Received at: 9=APR=74 22:02:24

18

Gentlemen, I have just discovered something very interesting: I wrote a microprogram which graphically displays the bouncing of the mouse buttons (or keyset buttons), from which I see:

18a

1) The bouncing lasts about 1 ms., never longer than 1.5 ms, which tells me how fast I can read the buttons without getting in trouble, (Not of particular interest to you),

18a1

Line Processor Troubles; Dialog to date

2) I found I could cause mechanical bounce at will by hitting the buttons with the right force and speed. Typically the button would be down about 8 ms, then up 10 ms, then down AGAIN for a period of time depending on how I hit it. This is the source of all the undefined input's and etc, we are getting on lineprocessor terminals, I believe. I think this happens mostly when two mouse buttons are being used together,

18a2

An interesting thing is that I could not get my keyset to do a similar thing.

Question: for Martin, do you know anything about this?

For Charles: what is the feasibility of the NLS input routine detecting some of the 'undefined input' patterns and treating them as no=ops.

For Dean: Try hitting your mouse buttons firmly but softly and see if some of your problems go away.

18b

Thanks...

Don

18c

5=APR=74 1441=P NDM;  
Distribution: NDM DIA MEH JCN EKV  
Journal Message 22632

19

We are constantly over=running the TIP input buffer (currently 10) with the Line processor. Don, could you make some decision as to what it SHOULD be, and then either tlak to or have Ed or someone talk to BBN (Joe Malman) about having it increased. (When it runs over, it seems to blow out the LP and all kinds of weird problems arise.)

19a

4=APR=74 1219=PDT JOHNSON: oscular proclivities of seafoam status  
Distribution: MEYER, johnson  
Received at: 4=APR=74 12:19:20

20

well, well, well there you are back on the other fringe, sending you some (6) proms for delta data line processor, martin can tell you more after you are in receipt, send the six old ones back these have, according to DIA, the o's and i's in the right places, a giant eagle was sitting on my car this morning when i came out to drive to wherever i am now, very strange. There ain't no stewardesses on th astral plane . . . see you in st. louis, xx  
Holly Cost,

20a

29-MAR=74 0739=P NDM: Terminette as printer in EPAC  
Distribution: NDM MEH RAB EKV JCN CHI  
Journal Message 22527

21

We will use the Terminett terminal as a printer off the

## Line Processor Troubles; Dialog to date

Lineprocessor, Can we put an extension cord between the Lineprocessor and the terminal? How long? Can it be a 20' cord? If yes, can we fabricate for me to carry back next wednesday? 21a

Comments; Would it be possible to switch between Lineprocessor and Acoustic coupler? 21b

28-MAR-74 0924=P DIA; Delta Data bells  
Distribution: DIA NDM MEH DVN JCN JMB  
Received at: 28-MAR-74 11:31  
Journal Message 22514 22

Be advised that the bell also rings when a "end variable (underline)" code is send when the cursor is at a character that is NOT variable (underlined). This is a pain also, SOP so far has been to tun off the bell,.. Thanks for the note about bells, Don 22a

28-MAR-74 0745=P NDM; Modifications to Delta Data  
Distribution: NDM MEH DVN CHI JCN RAB EKV DIA  
Journal Message 22513 23

Our Delta Data repairman say that it is a fairly simple fix to disconnect the repeat function on the keyboard, and will do so (presumably for some nominal charge) on his next visit. The bell (and alarm light) is activated for three reasons: 1) when the cursor gets to or past column 66? or so, 2) when the terminal's memory begins to overflow and lines are lost off the top, and 3) when the terminal receives the bell character (<control=g>?) from the computer. Of course we can only use the bell if it is restricted to the later. This is an engineering change which can be made on existing terminals for some charge or specified with the order of new terminals for some lesser charge. I suggest we specify that with all future Delta Data orders, 23a

26-MAR-74 1441=P DIA; Rough Line Processor User Manual  
Distribution: DIA DVN NDM CHI  
Received at: 26-MAR-74 18:49  
Location: (JJOURNAL, 22487, 1;w) 24

20-MAR-74 1050=P NDM; Shipping Line Processor to SRI-Washington  
Distribution: NDM JCN CHI DIA MEH EKV  
Journal Message 22430 25

Marvin Hall of C&P Telephone says our data line from here to MITRE will be installed and operational on April 4. Arlie Capps is hoping to hostt a meeting here which he expects will include a demo on the following day. Can we have the line processor etc, here before then? 25a

Line Processor Troubles: Dialog to date

(J22933) 9-MAY-74 14:34; Title: Author(s): N, Dean Meyer/NDM;  
Distribution: /FDBK RWW JCN DIA CHI; Sub=Collections; SRI=ARC; Clerk:  
NDM;

viewspec m bug

viewspec m does not seem to work, when in file (feedback,fdbk) and  
jump to origin with m viewspec all that came on was numbe for  
statement 1

1

viewspec m bug

(J22935) 9-MAY-74 16:05; Title: Author(s): Richard W. Watson/RWW;  
Distribution: /FDBK( \* action \* ) ; Sub=Collections: SRI=ARC; Obsoletes  
Document(s): g; Clerk: RWW;

did you journalize (victor,talk,)? If not, please notify me before  
you delete it. == KIRK,

1

(J22936) 9=MAY=74 16:09; Title: Author(s): Kirk E. Kelley/KIRK;  
Distribution: /KEV( \* action \* ) ; Sub=Collections: SRI=ARC; Clerk:  
KIRK;



## Y/N Problem

in sendmail and interrogate mode the conventions of <SP> for N and <CA> for yes do not seem to be operating consistently or correctly, for example when you get to done and it says Y/N and you hit <CA> you end up at the command level, while if you then say done and it says Y/N and you hit <CA> it works,

1

Y/N problem

(J22937) 9-MAY-74 16:09; Title: Author(s): Richard W. Watson/RWW;  
Distribution: /FDBK( \* action \* ) ; Sub=Collections: SRI=ARC; Clerk:  
RWW;