<pre>C HARDY, LPPROT, NLS;1, >, 24-0CT-74 13:08 MEH ;;; < HARDY, LPPORT, NLS;2, >, 24-0CT-74 12:43 MEH</pre>	1
Protocol for TENEX <=> Line Processor interactions	1 a
NOTICE:	1 a 1
This document is not yet cast is concrete. We don't expect sweeping changes of any kind but we reserve the right to change our minds about how some things should be done. Send your comments or reactions to this protocol to	iaia
Don Andrews, NIC ident DIA	ialai
ARPANET address ANDREWS@SRI=ARC	1a1a2
Augmentation Research Center	18183
Stanford Research Insitiute	1a1a4
Menlo Park, California 94025	1a1a5
Introduction	182
This document is a detailed description of the Line Processor protocol. It is intended to serve as a guide to anyone wishing to impliment the Line Processor protocol as well piece of documentation for the Line Processor.	1a2a
It should be pointed out here that the Line Processor contains a very small, slow microcomputer with little read/write memory. For this reason the protocol is terse and error reports and/or recovery non=existant. The Line Processor terminal is treated more as a hardware device than an intelligent terminal.	1a2b
Conventions	1a3
Coordinates designate character positions. For example (1,1) is the second character on the second line up from the bottom.	1a3a
The origin is at the lower left corner of the screen.	1a3b
As components of the protocol, coordinates are passed as one byte of X and one of Y and always have 40B added to them to get them in the printing character range. This limits the	
max coordinate value to 1378 which is 95.	1a3c

In TTY simulation, scrolling always takes place on a line feed (LF) not a carriage return (CR), Carriage return does the obvious thing and no more,	1a3d
When inside a protocol string, RUBOUT is NOT ignored. When outside, it is ignored.	1a3e
When outside a protocol string, all control characters (0 thru 37B) are ignored by the Line Processor, except:	1a3f
When the cursor is being tracked:	1a3f1
*G which rings a bell if possible	1a3f1a
CR and LF which do the right thing	1a3f1b
Notice that backspace character (TH) is not implimented in TTY simulation (i.e. when the cursor is being tracked). We have no immediate use for this, but it may be implimented later,	1a3f2
When the cursor has been positioned:	1a3£3
"G which rings a bell if possible	1a3f3a
*H which does a backspace cursor	1a3f3b
From Line Processor to TENEX (mouse input etc.)	1a4
Communication in this direction will adhear generally to the IMLAC protocol as outlined in (IJOURNAL, 14345,).	1a4a
In particular:	1a4b
Keyboard characters 40B thru 177B are unescorted,	1a4b1
Keyboard characters 0 thru 37B are sent as:	1a4b2
34B, 43B, char+140B, X+40B, Y+40B	1a4b2a
Mouse button changes are send as:	1a4b3
34B, 43B, buttons+100B, X+40B, Y+40B	1a4b3a
where buttons is the binary immage of button positons	1a4b3b
Keyset Strokes 1 thru 32B are send as:	1a4b4
stroke+140B (e.g. 1 => a)	1a4b4a

keyset strokes 33B thru 37B are sent as:	1a4b5
33B -> 54B (,)	1a4b5a
34B => 56B (,)	1a4b5b
35B => 73B (;)	1a4b5c
36B => 77B (?)	1a4b5d
37B => 40B (space)	1a4b5e
when not in coordinate mode the mouse buttons are ignored and keyboard control characters (0 thru 378) are sent in unescorted fashion.	1a4c
NOTICE: Current implimentation of coordinate mode in TENE requires the escape character to be 33B, not 34B as specified above. For now, use 33B; we expect this to be changed to 34B sometime in the future,	1a4a
From TENEX to the Line processor	1a5
The following functions are sent by the applications progrand performed by the Line Processor. All codes, except the escape (34B) should be printing characters. Padding characters should be RUBOUTS (177B). The baud rate factor (f) and the delete line time (Del) are obtained by the applications program from TENEX via the RLPMD JSYS.	ne
Note:	1a5a1
The cursor is generally used to track the mouse. Some commands stop the tracking and allow the cursor to be used for display manipulation. "Tracking moderates to whether the mouse is being tracked by the cursor or not.	8 11
position cursor and stop tracking mouse.	1a5a2
Send(34B, 40B, X', Y')	1a5a2a
X' = X coord (0 thru Xmax) + 40B	1a5a2a1
Y' = Y coord (0 thru Ymax) + 40B	1a5a2a2
result:	1a5a2b

stops until a "resume tracking" or a reset is received. Any unescorted characters will be writt on the screen and the cursor will be advanced one after each character. Writing beyond the end of the line is not advised as the result depends on	
the terminal manufacturer and model.	1a5a2b1
specify (small) TTY simulation window	1a5a3
Send(34B, 41B, top, bottom)	1a5a3a
top = Y' for top line of window	1454341
bottom = Y' for bottom line of window	1a5a3a2
result:	1a5a3b
Invokes a small TTY simulation window of specific size and location. This window will be used until new one is specified or a reset is received. This	a
does not change the tracking mode.	1a5a3b1
reset	1a5a4
Send(34B, 51B)	1a5a4a
result:	1a5a4b
screen cleared	1a5a4b1
TTY simulation window set to full screen	1a5a4b2
bug selection stack reset	1a5a4b3
resume tracking (see)	1858404
padding:	1a5a4c
send pads as for clear screen.	1a5a4c1
resume tracking mouse	1a5a5
Send(34B, 42B)	1a5a5a
result:	1a5a5b
The cursor is used to track the mouse. Any unescorted characters will go into the TTY simulation window currently in use.	1a5a5b1

write string of blanks	1a5a6
Send(34B, 43B, N°)	1a5a6a
N' = number of blanks to be written.	1a5a6a1
result:	1a5a6b
The specified number of blanks are written starti at the current cursor position. The cursor is leat the character position following the last blan Assumes the cursor has been positioned appropriately beforehand.	ft
	1dodon's
This command is a nomop if N° is not IN [41B, 177B].	1a5a6b2
padding:	1a5a6c
This command must have N/f padding characters following it.	1454601
push bug selection	1a5a7
Send(34B, 46B, X*, Y*)	1a5a7a
result:	1a5a7b
The coordinates are pushed on a stack and the character at that location is somehow brought to the user's attention, but not obliterated. The stack will hold a maximum of 8 selections. This command includes a resume tracking.	1a5a7b1
padding:	1a5a7c
This command must have 8/f padding characters following it.	1a5a7c1
pop bug selection	1a5a8
Send(34B, 47B)	1a5a8a
result:	1a5a8b

empty, this command is a no-op. This command includes a resume tracking.	1a5a8b1
padding:	1a5a8c
This command must have 8/f padding characters following it.	1a5a8c1
delete selected line	1a5a9
Send(34B, 44B)	1a5a9a
result:	1a5a9b
The cursor position selects a line to be removed from the screen. All following lines are moved up one line. The contents of the last line are undefined. The X coordinate should be zero, otherwise the results are undefined.	1a5a9b1
padding:	1a5a9c
This command requires Del/f padding characters (De is obtained from TENEX).	1 1a5a9c1
insert selected line	1a5a10
Send(34B, 45B)	1a5a10a
result:	1a5a10b
The line which the cursor is on, and all following lines, are moved down one line. The cursor is not moved, and hence is on a blank line. Lines above the cursor are not altered. The last line (before the execution of this command) should be considere "lost." The X coordinate should be zero, otherwis the results are undefined.	d
clear screen	1a5a11
Send(34B, 50B)	1a5a11a
result:	1a5a11b
The entire screen is cleared. The cursor position is not generally known. The TTY simulation window location and the bug selection stack are not altered. The tracking mode is not changed.	1a5a11b1

padding: 1a5a11c
This command requires Del/f pad characters; 1a5a11c1
Interrogate line processor 1a5a12
Send(34B, 55B) 1a5a12a
result: 1a5a12b
A response to the interrogate command is sent as a protocol string of this form: 1a5a12b1
34B, 46B, Xmax+40B, Ymax+40B, LPtype, Del, Rate 1a5a12b1a
Where la5a12b1b
Xmax is the maximum x coordinate 1a5a12b1b1
ymax is the maximum y coordinate 1a5a12b1b2
LPtype is in [40B=177B] and designats type 1a5a12b1b3 The least significant four bits of LPtype
designate display terminal type (call it DItype) 1a5a12b1b3a
Currently defined are: 1a5a12b1b3a1
(1) Delta Data 5200 1a5a12b1b3a1a
(2) Hazeltine H2000 1a5a12b1b3a1b
The most significant three bits designate Line Processor type (call it Type) 1a5a12b1b3b
Currently defined are: 1a5a12b1b3b1
(2) Line Processor with Mouse, Keyset, Printer 1a5a12b1b3b1a
Del is the number of "pad" characters (RUBOUT) needed to delay while a delete line takes place. 1a5a12b1b4
Rate indicates the Line Processor receive baud rate: 1a5a12b1b5
300 buad: 100B, f=32 decimal 1a5a12b1b5a

1a5a14b

result:

600 baud: 60B, f=16	1a5a12b1b5b
1200 baud: 50B, f=8	1a5a12b1b5c
2400 baud: 44B, f=4	1a5a12b1b5d
4800 baud: 42B, f=2	1a5a12b1b5e
9600 baud: 41B, f=1	1a5a12b1b5f
The baud rate factor, f _ Rate=40B;	1a5a12b1b5g
Note: LPtype is not generally used by applications programs but should allow discovery of the true nature of the Line Processor terminal. LPtype should be assigned by ARC personel for best result see DIA or CHI @SRI=ARC.	
The responce back to the TEN is not visible to user. TENEX grabs it, but the info is availabuser programs via JSYS RLPMD. The interrogate be sent by the EXEC when the user sets his ter type to Line Processor. This command does not change the tracking mode.	ie to will
Turn off coordinate mode	1a5a13
Send(348, 608)	1a5a13a
result:	1a5a13b
Turns off the coordinate mode in the Line Processor. This does not change the tracking m Mouse buttons become inactive, Keyboard contro	1a5a13b1
characters sent to main computer without proto formating.	
Turn on coordinate mode	1a5a14
Send(348, 618)	1a5a14a

Turns on the coordinate mode in the Line Processor. 1a5a14b1 This does not change the tracking mode.

1a5a19a

1a5a20

Mouse buttons become active, Keyboard control characters are sent in input protocol format.	1a5a14b2
Begin standout mode	1a5a15
Send(34B, 56B)	1a5a15a
result:	1a5a15b
All following text written on the screen will be altered is some way from "normal" text. This unfortunately includes characters which go into TTY simulation window also, so don't leave the 1 processor in this state indefinitely. Does not change the tracking mode.	the
End standout mode	1a5a16
Send(34B, 57B)	1a5a16a
result:	1a5a16b
Subsequent text written on the screen will be in "normal" mode. Does not change the tracking mode	. 1a5a16b1
TENEX RESTARTING	1a5a17
The Line Processor will detect a TENEX restart, by looking for the ten 34B's it sends out at startup time. At that time it will place itself in a state though the hardware reset button had been pushed.	as 1a5a17a
start coord tracking	185818
not implemented.	1a5a18a
we may impliment a "mouse linking" feature in the future using this and the two following commands. Line Processor could then be asked to send protocol strings that indicate the mouse movement. It will also plot an "extra" mouse tracking spot, given a stream of tracking coordinates. This will enable tusers to see each other's tracking spots.	
stop coord tracking	185819

not implemented.

linked tracking location (X, Y)

not implimented.

1a5a20a

open Printer

1a5a21

Send(34B, 53B)

1a5a21a

Result:

1a5a21b

Opens the printer for output. Protocall to the printer must be observed: (1) open it. (2) wait for protocol string "request" (below). (3) send strings in response to requests. (4) close it. 1a5a21b1

"Request" string, sent back to the main computer:

1a5a21b1a

34B, 47B, Dev, Count

1a5a21b1a1

Dev is a device code, normally 40B for the printer. 1a5a21b1a1a

Count is the number of characters to send, +40B.

Note: The count indicates the Line Processor storage allocated for the next printer string. Sending a longer string will result in a "receive error" (error light on panel).

1a5a21b2

elose printer

1a5a22

Send(34B, 54B)

1a5a22a

Result:

1a5a22b

Closes the printer. Actual close will not take place until all characters in the output buffer are printed. That is, the close may follow the last string of characters immediately. It is possible (but very unlikely) that a "request" protocol string may be sent to the main computer after the close is sent to the Line Processor.

1a5a22b1

printer string

1a5a23

Send(34B, 52B, Dev, Count+40B, <characters>)

1a5a23a

Result:

1a5a23b

The Dev is normally 40B and is ignored by Line
Processors with one printer. The Count must not be
greater than the sum of the counts in all "request"
protocol string not already fulfilled. It may be
less. The actual character string may contain any
characters. They will be send to the printer
without translation or special handling.

1a5a23b1

local input string collection and echo

185824

We will soon release and document a set of commands enabling the main computer to request that the Line Processor collect and echo input text from the user, up to any of a set of "break" characters.

1a5a24a

Application notes:

1a5b

Avoid writing text (or "string of blanks") beyond the end of a line; the display may insert an unwanted line or drop the extra characters.

1a5b1

Avoid positioning the cursor to any x>Xmax or y>Ymax.

1a5b2

Avoid doing an insert line on the last line: the display may scroll the entire screen.

1a5b3

Delta Data (DItype=1) must be treated as a special case in the following respect:

1a5b4

when writing text at (x,y) on a line which does not already have text on it up to position x (e.g. after a clear screen or insert line), the applications program must send x/f pad characters after the first character written at position (x,y). The display takes that long to move a CR symbol into the proper display memory location. (Our thanks to Delta Data).

1a5b4a

NOTE:

1a5c

The Line Processor has a reset button on it (which will be used only on rare occations). After power up or a hardware reset, the following state prevails:

1a5c1

The screen is clear, the mouse tracking in operation.

iascib

The bug selection stack is empty.

1a5c1c

1a5cla

The full screen TTY simulation is in effect.

Coordinate mode is NOT in effect.

1a5c1d

Printer is closed

1a5c1e

All TTY simulation windows currently work as follows:
Text is inserted in the last line and "scrolling" occurs
on each line feed (i.e. it does not start on the top line
of the window as you may prefer). A CR moves the cursor
to left margin, a LF effects a line break. Typing beyond
the last character of the line causes a line "wrap" =
i.e. new text replaces the old line, starting from the
left margin, The only way to clear a small TTY window is
to send N line feeds into it, where N is the number of
lines in the window.

1a5c2

The usual sequence from the applications program will be to position the cursor and perform some function, or write text, or both. It must end such a sequence with a "resume tracking" command. Any broadcast messages, links, etc. that come down the line between the cursor position and the "resume tracking" will go wherever the cursor happens to be.

1a5c3

Normally, broadcast messages and the like will go into the TTY simulation window. The difference being that they are not preceded by a position cursor command.

1a5c3a

We are modifying the TENEX SOUT (string output) JSYS so that the entire string will be placed in the output buffer in one piece. This will allow the applications program to construct strings so that the cursor is always being tracked when miscellaneous text (e.g. system wide messages) happen to be sent to the Line Processor, and the screen will never be messed up.

1a5c3b

REENTER code in NLS will clear and repaint the entire screen

1a5c4

Mouse tracking will be done by the Line Processor under the following conditions:

1a5c5

IF the terminal has received a "resume tracking" command since the last position cursor command, AND

1a5c5a

IF there is no input from the TEN, AND

1a5c5b

the mouse coords have changed since the last mouse tracking operation, or the cursor has been moved since the last mouse tracking operation.

1a5c5c

Tracking stops under the following conditions: A position cursor command comes from the TEN. 1a5c6

1a5c6a

Line Processor Protocol

(J24313) 24=OCT=74 14:01;;; Title: Author(s): Martin E. Hardy/MEH; Distribution: /JBP([ACTION]); Sub=Collections: SRI=ARC; Clerk: JBP;

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25.3, SPADE Group, Computer Networks Research Project, Computer Science Department, University of California, Los Angeles, California, January 1972.

1p1

Reference List for ARPA Book Consideration

(J24314) 24-OCT-74 14:34;;; Title: Author(s): Jonathan B. Postel/JBP; Distribution: /JAKE([ACTION]) JBP([ACTION]); Sub-Collections: SRI-ARC; Clerk: JBP;

lets let each user specify the format that she wishes to receive her journal citations in. this can be done fairly simply by letting each user specify 1 (or 6?) templates using a simple meta language for the	
citation format.	1
(Possibly one template for each of the following:	18
articles authored by this user	1a1
articles sent to this user for action	1a2
articles sent to this user for info	1a3
messages authored by this user	1a4
messages sent to this user for action	1a5
messages sent to this user for info)	1a6
These templates should exist someplace that the user has easy acces to, so that the user can change them at will, they could exist in defined named branches in the initial file or their address could exist as user options (so several users can share ditation formats).	2
the following is an example of the level that i am talking about with an example of a template and the citation it would produce.	3
sample:	4
A[L/*,SG+*,N+*,]*:S T <cr> L["1:wy"] SS D[DDD/ SS DD *= MMM+ *= YY SS HH *: NN *=ZZZ+] <cr> "To: " C <cr> "cc: " B[I=S]</cr></cr></cr>	4a
M	4a1
would yield:	5
Victor, K.E.: Sample citation < LJOURNAL, 11234, 1:wy > Thu 24=CCT=74 13:01=PDT	
To: SRI=ARC cc: chi dia	5 a
this would be the message body	5a1
META-LANGUAGE	6
alternatives are either stacked vertically or separated by slashes	6a

EMPL	ATE ::= FIELD / TEMPLATE FIELD	6b
IELD	11=	60
*A	[BQUAL]	601
	author; BQUAL will be applied to each author; if BQUAL is not specified it defaults to: [*I+S] to yield upper case idents separated by spaces	6c1a
	IF this filed were: A[L/*,SG+*.N+*.2S] this would result in: Victor, K.E. Irby, C.H.	6c1b
*B	(BQUAL)	602
	info distribution list; BQUAL will be applied to each person in the distribution list; if BQUAL is not specified it defaults to: ['I+S] to yield upper case idents separated by spaces	6c2a
*c	(BQUAL)	6e3
	action distribution list; BQUAL will be applied to each person in the distribution list; if BQUAL is not specified it defaults to: ['I+S] to yield upper case idents separated by spaces	6¢3a
*D	[DQUAL]	604
	sent time and date	6C4a
*L	[LQUAL]	6¢5
	link; LQUAL can be used to set the internal address and viewspecs of the link; if it is not specified it defaults to [":g"] for messages and to ["i:w"] for files	6c5a
*M	[TQUAL]	606
	message body; if TQUAL is not specified, then the message is presented as typed	606a
* N		6c7
	journal number	6c7a
00	(TOUAL)	608

author organization	6C8a
*R (DQUAL)	609
received time and date	6c9a
*T [TQUAL]	6010
message; if TQUAL is not specified, then the title is presented as typed	6c10a
TQUAL ::=	60
*+ for upper case	6d1
*= for lower case	6 d 2
*/ for first letter upper	6d3
BQUAL ::= "[BQ1 "]	6e
BQ1 ::= BQ2 / BQ1 BQ2	6 f
BQ2 ::=	69
'I [TQUAL] for ident	691
'L [TQUAL] for last name	6g2
*F [TQUAL] for first name	693
*G [TQUAL] for first name initial	694
*M [TQUAL] for middle name	6g5
*N [TQUAL] for middle name initial	696
LIT	697
LIT ::=	6h
"" text ""	6h1
* char	6h2
n's for n spaces	6h3
* <cr> for carriage returns</cr>	6h4

DQUAL ::= "[DQ1 "]	61
default DGUAL is: [DD*=MMM+*=YYSHH*:NN*=ZZZ+] which is e.g., 24=OCT=74 13:01=PDT	611
DQ1 :== DQ2 / DQ1 DQ2	65
DQ2 ::=	6 k
*M [TQUAL] for month mame	6k1
"MM" for numeric month	6k2
"MMM" [TGUAL] for 3 char month mame	6 K 3
*D [TQUAL] for day mame	6k4
"DD" for numeric day	6k5
"DDD" [TQUAL] for 3 char day mame	6k6
'YY' for 2 char year number	6k7
"YYYY" for 4 char year number	6k8
*H for hour on 12=hour clock	6kg
"HH" for hour on 24 hour clock	6k10
"NN" for minutes	6k11
"SS" for seconds	6K12
"A [TQUAL] for AM or PM	6K13
*Z [TQUAL] for zone name	6K14
"ZZZ" [TGUAL] for 3 char Zone name	6K15
LIT	6K16
LQUAL ::= "[LIT "]	61

journal citations revisited

(J24315) 24=OCT=74 14:38;;; Title: Author(s): Kenneth E. (Ken)
Victor/KEV; Distribution: /SRI=ARC([ACTION]); Sub=Collections:
SRI=ARC; Clerk: KEV; Origin: < VICTOR, CITATION=FORMAT, NLS;2, >,
24=OCT=74 14:35 KEV;;;;####;

New subscriber to RFCs

(J24316) 24-0CT-74 18:01;;; Title: Author(s): Elizabeth J. (Jake) Feinler/JAKE; Distribution: /JBP([ACTION]); Sub-Collections: SRI-ARC; Clerk: JAKE;

JAKE 24=0CT=74 18:01 24316

New subscriber to RFCs

Please as Margaret Samaniego (MGS@RAND=RCC) to your RFC distribution list, she is the new Liaison for host RAND=ISD (Dec=71). She will be on my Liaison list if you are picking that off intact. Jake

1

DVN 24-0CT-74 20:13 24317

The Salesman from George Lithograph Will be Here Tmorrow

When walter Bass was still here, ARC spoke to George Lithograph, a local firm with a good reputation in the printing field, about doing our COM work. Recently they aguired a new COM device, a Singer 6000, and remembered us enough to have a salesman call. I have an appointment with him tomorrow at 2:30, and I'm sure he would be glad to talk with anyone who want to join us. He has asked for and I intend to supply a sample tape of our output(jjournal,12214,) and our specifications(journal,14093,).

DVN 24=OCT=74 20:13 24317

The salesman from George Lithograph will be Here Tmorrow

(J24317) 24-DCT-74 20:13;;; Title: Author(s): Dirk H. Van Nouhuys/DVN; Distribution: /JOAN([ACTION] Please add this to the dirt notebook) DIRT([INFO-ONLY]); Sub-Collections: DIRT SRI-ARC; Clerk: DVN;

More On Journal Citations

when I scan my journal branch I find I am normally interested only two things, the title and the author's ident. I am happy with things the way they are but if they were changed I would like to see the full title first, then the ident. I am occasionally interested in the time of delivery, which I can learn from statement signetures, and the distribution, which I can learn from the file header.

I agree with Ken that giving users their choice would be nice.

I would be very interested in a daly list, say in some central file, of the author and title of all journal items sent (presumably excluding private items). That would be a real comunity function.

The amount of time spent on this trivial question gives me pause. If I wanted to take my time I could produce atleast twenty journal citations from atleast two similar past brouhahas. It seems to me the kind of thing that should be settled by a specialist in an hour's thought. If I didn't know better I would think we have nothing real to do.

More On Journal Citations

(J24318) 24-OCT-74 22:17;;; Title: Author(s): Dirk H. Van
Nouhuys/DVN; Distribution: /RLL([ACTION]) KEV([INFO-ONLY]) BAH(
[INFO-ONLY]) JAKE([INFO-ONLY]) CHI([INFO-ONLY]);
Sub-Collections: SRI-ARC; Clerk: DVN; Origin: < VANNOUHUYS,
MYLIN.NLS;93, >, 24-OCT-74 22:15 DVN;;; 22128####;

I think there are two distinct parts to the journal citation issue. These are:

- How the citation appears in a users initial file (that is, how one is notified about a given journal item)

- How the citation appears on the top of the actual journal item. (or how one identifies a journal item after he has executed the jump to journal link)

In the first instance, I agree with KEV that user options would be nice. I would like to see the default format be as close to sndmsg as possible - not because I think sndmsg is that great, but because many users get confused going from one form to the other and tend to opt for the easiest (particularly when they are novices).

In the second instance I think we should follow an accepted standard, so that one of our journal citations stacks up against other published journal citations, and can easily be included in a bibliography without having to run a program or do an extensive rewrite. For this I would recommend the American Standards format which goes something like:

Engelbart, D. C. and Jones, S. A. Who says people at Arc are KWACS? NLS Online Journal, Vol. 7, No. 23456, 28=32 (June 1974).

The journal could have volumes corresponding to Files or corresponding to months, or whatever was reasonable. Pages would be a little harder to establish, but not impossible, No. could refer to NIC number or could be omitted in the body of the reference (it usually refers to the issue no. and besides nic numbers are frequently not consecutive). The NIC number could then be added at the beginning or end. This citation could be followed at a lower level by all other non-citation type information such as to whom it was distributed, etc, as well as the text of the journal item. That way one could easily look at a journal file (or volume) with one level showing and see a nice readable bibliography.

There is currently nowhere (even in the formatted catalog listings) that a truly useful (i.e., meaningful to outside readers) journal citation exists.

Using the journal header outlined above would make it much easier to mix xdoc journal items and online journal items together. Persons wishing to cite journal references according to some given journal or society standards could have a choice of user programs that would add the proper embellishments (such as quotes around the title, or underlining for CDM, etc.) By using the American Standards citation

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JAKE 24-0CT-74 22:58 24319

Op. Cit.

we would guarantee that the significant data elements would be available for use,

6

Op. Cit.

(J24319) 24-OCT-74 22:58;;; Title: Author(s): Elizabeth J. (Jake) Feinler/JAKE; Distribution: /SRI-ARC([INFO-ONLY]); Sub-Collections: SRI-ARC; Clerk: JAKE; Origin: < FEINLER, JOURNAL, NLS; 4, >, 24-OCT-74 22:52 JAKE;;; ####;

More care about spelling in our written communications

For the augmentation of recorded dialogue to work well, certain elements of the records must be as accurate as possible. I refer particularly to the titles of Journal items.

1

Dirk, you happen to be the one person whose performance in that regard most frequently comes to my attention. This message is specifically directed to you: please take more care. To make errors in message titling is peculiarly at odds in both spirit and practice with your professional specialty of technical writing -- accurate expression, and control (e.g. subsequent indexing) of the communications are things in which you should in fact set examples for the rest of us. And, in your new role as DDPCS Community Nucleator, you will be put even more into the spotlight.

2

Examples:

2a

J24=1221 DVN: Faileur to properly Journalize the NSW proposal Sent: 24=0CT=74 08:41 24290

2a1

J24=2033 DVN: The Salesman from George Lithograph Will be Here Tmorrow Sent: 24=0CT=74 20:13 24317

2a2

J23=1429 VANNOUHUYS: Architechts
Distribution: ENGELBART, watson, norton
Sent: 23=0CT=74 1429=PDT

2a3

J21=0849 VANNOUHUYS: Meeting win Nielson on Approach to Helping Gunther AFB with Documentation
Distribution: ENGELBART, vannouhuys
sent: 21=0CT=74 0849=PDT

2a4

[Note: Gunter, not Gunther]

2848

J17-1356 DVN: Proposal Posibility: Output Processorr Direct to XGP [To add this item to DPCS subcollection] Sent: 17-0CT-74 12:53 24237

2a5

so, not only toward a general "cleaning up of your act" as an AKW user, but also as being important specifically to your new role, let me quite directly request you to do whatever it takes in your working life to eliminate titling errors in your communications. Also, I think that reducing the typos in the text of your more important communiques should be given serious attention.

26

I think that it is probably inefficient to worry about the neatness and typographical correctness of the quickie messages; ambiguities or content errors are something else, though. But, in

DCE 25-0CT-74 09:05 24320

More care about spelling in our written communications

more important communiques, and in all titles, I really don't want to continue seeing careless text from you, pirk.

20

Dick and Jim: This is a general sort of problem among AKW users that I would appreciate your continuing efforts to upgrade.

3

Thank you all, Doug

4

DCE 25=DCT=74 09:05 24320

More care about spelling in our written communications

(J24320) 25=OCT=74 09:05;;; Title: Author(s): Douglas C. Engelbart/DCE; Distribution: /DVN([ACTION]) RWW([INFO=ONLY]) JCN([INFO=ONLY]); Sub=Collections: SRI=ARC; Clerk: DCE;

To Pete Tasker: his visit, DoD's COTCO, possible AKW experimentation, and two new questions

For restricted circulation, Jim and Dick to provide answers to 1a4 and 1a5.

Pete: I received your message (recorded just below). I am asking jim Norton to answer your first question, and Dick Watson your second.

J21=1854 BOSLEY: NLS = From Pete Tasker

Distribution: ENGELBART AT ARC Sent: 21-OCT-74 1854-PDT

Thanks for taking the time out of your flap on Friday to talk to me. As I mentioned then, I look forward to being able to work with you.

As I was coming back on the plane (Saturday) a few questions occurred to me:

- 1. What amount of computer power is required to support a "slot". I know this depends on the use of the slot == so answer in terms of how many slots a TENEX of "x" configuration supports with what you consider reasonable response time (two seconds?).
- 2. What are the specific elements of ongoing ARC development (e.g., hardware front=end) and what are the schedules?

I'm sure that other questions will follow as I think more about how to fit the NLS stuff into our environment.

Thanks again.

Dear Doug!

Pete

Robert Lieberman and I learned a great deal of useful information from you, and generally enjoyed your last Friday's visit very much. It was particularly enlightening to learn about the "two COTCOS" (differentiated below with my own acronyms and descriptions):

In your words, COTCO (probably) stands for "Consolidation Of TeleCommunications on Dahu."

DCOTCO -- DoD 's COTCO, stemming from a directive of the DoD telecommunications czar some years ago. Over-all, in DoD, COTCO (DCOTCO) is headed by the Assistant Secretary of Defense for Telecommunications and Command & Control (DTACCS) -- currently a Mr. Reed. CINCPAC's J6 Directorate (?), of which Brig. General Williams recently took command, has a primary stake.

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1a

1a2

1a1

1a3

1a5

184

146

1a7

148

2

2a

2b

To Pete Tasker: his visit, DoD's COTCO, possible AKW experimentation, and two new questions

Early in the DCOTCO activity, a team of military guys in CINCPAC's J6 conducted a study. You implied that their data is about the only thorough-study data available.

261

Also, I gathered that NAVTELCOM crrently has a proposal in the last stage of review by JCS for a DCOTCO plan. You mentioned that the concept of "writer to reader service" seemed heavily involved, and we conjectured on the difficulty of providing basic encryption services if indeed an early step tried to give this weter service.

262

ACOTCO -- ARPA'S COTCO, a project aimed at coming up with something, useful for DCOTCO, that makes maximum use of ARPA's new technology. In the past, we had only been aware (and at that, peripherally) of ACOTCO, and thought that that was THE COTCO.

20

ISI's "COTCO Study" (XDOC == nnnn,) drew heavily from the earlier study by the J6 military staff.

201

As we understand it now, your MITRE team (about 6 people), is part of a larger "Project X" on OAHU, also including about 5 military people. Project X has a main task that isn't directly centered upon DCOTCO == but the Project is operating under J6, and your team does consider it relevant to make recommendations now to J6 about an evolutionary approach toward your project's longer_term topics by adopting some near=term on=site (like within J6 activites) "experimentation" == and that the experiments would bear upon the J6 nCOTCO activity.

3

I gathered that project x is generally dealing with questions of Command & Control needs and possibilities over the next 10 to 15 years; also, you seem to have an evolutionary approach to the subject (the latter facet is of critical significance to us, by the way). Chuck Sheehan (MITRE guy, I gathered) is site director of the project. Admiral Gaylor (pronounced "Guyler") is CINCPAC Commander now.

3a

People speak of C4 problem: Command, Control, Communication, and Computers.

3a1

In J6, a Colonel Carter is the contact guy for your project. Apparently, as head of J6's Systems planning, he reports directly to General Williams.

3a2

Your concepts of first-stage experimental steps would involve every-day information-handling tasks rather than aim for Command & Control, crisis-management functions.

3 b

To Pete Tasker: his visit, DoD's COTCO, possible AKW experimentation, and two new questions

You mentioned that, whatever modernized information=handling techniques will evolve in the larger environment on Dahu, they would very likely be based on a specially provided TENEX == perhaps a dual set for high=reliability redundancy.

3b1

You also mentioned that GSA is pushing for standardizing on a line of terminals, which would impact on the evolutionary possibilities. For instance, you mentioned CRT terminals of the S2K bracket, with some basic local editing capability. I think you said that a pelta Data 5000 looked like what your potential experimentation would have to (get to?) make use of. (Did you mention that there were 50 of them on order?)

3b2

Also apparently embedded in the evolutionary stages on Cahu would be a requirement that any local computer Network be an upward-compatible sub-net of www.cs. Pwin (Prototype Www.cs. Intercomputer Network) design. I gathered that the flexibility of this Net would be hard to predict (possibly limited), and that the www.cs. computers weren't likely to have very flexible or interactive operating systems (all supporting your notions of special TENEX facility underlaying the information-handling experiments). You mentioned that the terminal-handling computers would be Honeywell 716s.

3b3

The purpose of your last-Friday visit to ARC was to explore the feasibility of ARC's AKW tools and techniques, and of our Utility services, for supporting some of the conjectured experimentation, I think that our mutual conclusion was that they were feasible == e.g. using a slot or two from the TYMESHARE=based Utility, serviced over the ARPANET to Dahu, and used within the J6 environment for some of their "open" work (real work).

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We also discussed enough of ARC's experiences and philosophy to develop a clear mutual understanding about what we'd recommend in the way of "local workshop architects" among the Utility users. We are very pleased at the way you seemed to accept our position and be Willing to consider integrating these usage=evolution and user=evolution approaches into your tentative plans.

3 d

ARC would benefit considerably if, as seemed probable from our discussion, your team and some of the J6 people carry on a serious, exploratory application of our AKW tools and techniques there in the COTCO homeland.

The early, exploratory service can be provided over the ARPANET from our TYMSHARE Utility machine(s); and I'm sure that Jim Norton's guys would be intrigued by the big-water-gap liaison problem (opportunity) in this exploratory stage, and that they

To Pete Tasker: his visit, DoD's CoTCo, possible AkW experimentation, and two new questions

also would be very much interested in the possible business challenge of later installing and maintaining NLS in a computer embedded in your local Net == if the first=stage results warranted expanded "experimention."

Did we understand that expanded experimentation might move into some of the activities of J3, CINCPAC's Operations Directorate, within which the Command Center is located?

Also, in the process of your exploraton, and especially in any successive expansion of the "experiment" into your own Net, I'm sure that Dick Watson's Development Group would be interested in discussing and helping with some of the needs and problems (e.g. we talked of mapping NLS Backend into other operating systems than TENEX, and of "reaching through" NLS into large data-base systems).

If Your interest moves toward explicit matters == such as service features, costs, new=slot availability timing, etc for our Utility == it would be more efficient if you contacted Jim Norton directly. He manages that side of our activities, and is the only one that can provide horse*s=mouth answers and move directly toward commitments.

You also mentioned that your MITRE management is backing some special efforts toward the kind of modernized information systems about which our day's discussion principally centered. I would like to extend an invitation via you to them: if there is any quiet help that we can provide == I guess mainly by sharing demonstrable functions and/or experience=based perceptions == please call on me.

It is slow process, to change perceptions and attitudes; it is a long, slow, road ahead in the best of future worlds, to see the newer technological capabilities come to be harnessed effectively; a small fraternity is beginning to see, and we need to help each other.

In any event, your visit was very interesting and worthwhile for us. I hope that whether or not any near-future business relationship develops, we will find some way to keep in touch.

Very best regards, Doug

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DCE 25=DCT=74 09:49 24321

To Pete Tasker: his visit, DoD's COTCO, possible AKW experimentation, and two new questions

(J24321) 25-QCT-74 09:49;;; Title: Author(s): Douglas C. Engelbart/DCE; Distribution: /JCN([ACTION]) RWW([ACTION]) BC([INFO-ONLY]) RLL([INFO-ONLY]); Sub-Collections: SRI-ARC; Clerk: DCE;

seminar on nls=8 training experience?

Jim, are you going to give a seminar on your experiences training new and old user's in nls-8? If so, I think it should be soon so that the experiences will still be fresh in your mind. I think that a seminar will be a much more alive way to transfer your experiences to us but I also think a written record is valueable. Therefore I would suggest that someone take careful notes (maybe even transcribe it from a tape recording) and that you work these notes/transcription into a reasonable written presentation of the experience and put it in the Journal. -- Charles.

seminar on nls-8 training experience?

(J24322) 25=OCT=74 09:50;;; Title: Author(s): Charles H. Irby/CHI; Distribution: /JHB([ACTION]) DCE([INFO=ONLY]) RWW([INFO=ONLY]) JCN([INFO=ONLY]); Sub=Collections: SRI=ARC; Clerk: CHI;

The following documents are being set up as working design/issue documents for the NSW Frontend (They are in rough states now but should get more refined as time goes on):	1
(nsw=sources, fe=design,) Current Design	1a
(nsw=sources, fe=issues,) Current unresolved issues	16
(nsw-sources, doc-cml,) Documentation for the current CML	10
(nsw-sources, split,) Current design and issues for NLS split.	
	1 d

some NSW Frontend related documents

(J24323) 25-OCT-74 10:15;;; Title: Author(s): Charles H. Irby/CHI; Distribution: /RWW([INFO-ONLY]) HGL([INFO-ONLY]) DSM([INFO-ONLY]) KJM([INFO-ONLY]) RLB2([INFO-ONLY]) JEW([INFO-ONLY]) JEW([INFO-ONLY]) EKM([INFO-ONLY]) KEV([INFO-ONLY]) DIA([INFO-ONLY]); Sub-Collections: SRI-ARC; Clerk: CHI;

Robbert, I have the following recommendations re Journal citations delivered to users:

- 1) The recipient should be able to choose among several citation formats for mail delivered to him, or perhaps make up his own ala KEV's suggestion (This desired Citation format could be stored in master ident file)
- 2) The distribution lists should be made available to the recipient 3) the [ACTION] and [INFO=ONLY] fields should not be removed from the citation even though they are deposited into action and info branches (because if the user moves them he looses this info) and 4) I would like a citation format that had the author and title (as much as would fit) in the first line for t=viewspec.

Journal Citation Recomendations

(J24324) 25-OCT-74 10:26;;; Title: Author(s): Charles H. Irby/CHI; Distribution: /RLL([ACTION]); Sub-Collections: SRI-ARC; Clerk: CHI;

A kind of document exist in the world of technical publications called a functional document. It is a document that retains its identity but changes content. ("Identity" usually means title, subjectmatter, and identifiers like library numbers.) The airforce document that Elizabeth spoke of at a recent meeting that changes 92% of its pages a year is an example.

Functional documents must be maintaied rather than merely published, and that is always a problem. There is a particuarl question in the context of the journal, Stated simply, the question is: Should the journal number belong to the document, to its revisions, or some combination?

Jeanne North Marilyn Auerbach and others struggled with this problem, e. g. (journal,13683,). The most recent solution for userguides was agreed upon in November of last year ijournal,20542,). (20542) essentially established that the document always have the same number and that the journal item that bears that number is merely a link to the current online version maintained anyway in <userguides,>. Drafts may be journalized separately. When (20542) was written there was general discussion of the matter.

Numbering of the TNLS and DNLS User's guides has been handled in this manner subsequently.

It recently came to Jim Norton's attention that we were about to insitute this procedure for userguides that are soon to emerge from he draft stage. He belives that the plan we have been following violates an ARC policy that each draft of a document should have a separate journal number, and urges strongly that instead we journalize separately the complete text of every finished version that contains substantial revsions. We might separately make a jornal item with a link to the current file in <userguides>.

Jim's intercession raises several issues:

Fundementally his suggestion would mean hat ARC does not have functional documents in the strict conventional sense, It's not clear how much this matters. I welcome suggestions and opinions.

Secondly the setup described in (20542,) exists and has been used (although not very much and I suppose few users are aware of it), How lightly do we change existing setups of this kind?

Third, although I don't remember talking with Jim about establishing the plan in (20542), he was on distribution for it; how do we get people to participate in planning in the planning stage?

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6 a

6b

6C

DVN 25=0CT=74 13:22 24325

Functional Documents and Journal Numbers

Fourth, if the people involved continue to disagree, where does the buck stop?

6d

Functional Documents and Journal Numbers

(J24325) 25-OCT-74 13:22;;;; Title: Author(s): Dirk H. Van Nouhuys/DVN; Distribution: /JOAN([ACTION] please add this to the dirt notebook) DCE([ACTION] Becausee of your interest in the integrity of the journal I am particularly interested in your thoughts) RWW([ACTION]) JCN([ACTION]) DIRT([INFO-ONLY]); Sup-Collections: DIRT SRI-ARC DPCs; Clerk: DVN; Origin: < VANNOUHUYS, NUMBERS.NLS;2, >, 25-OCT-74 13:19 DVN ;;;;####;

4

Conversation with Connie McLindon about ARPA and ISI=XGP

Last week Elizabeth Michael was asked to look into the possibilities of joining the Output Processor to the XGP printer at ARPA perhaps through the ISI=XGP System which in turn is an adaptation by John Vittal of ISI of a system originally written at Carnegie=Mellon by Harold von Loeren and George Robertson, Vittal documentation is available as NLS file < DOCUMENTATION, XGPDOC.NLS;1, >. Since Elizabeth is on vacation I called Connie to try to understand what the people at ARPA need.

As I hear what Connie said, they are now using the XGP at their office through Office-1. They like the product but not the process; the process is apparently complicated, unreliable, and expensive in slot time. They have discussed these problems with vittal and he is working on a short-term fix which consists of making the ISI-XGP system into a regular TENEX subsystem, simplifying commands and maybe improving reliability. He should be done in something like six weeks. She has asked for a long-term plan for more fundamental improvements.

In particular she is interested in printing NLS files with the XGP, a feat which she asserts Susan Lee has accomplished but which is difficult because the NLS files need first to be made into sequential file via a and then modified to fit the specifications of ISI=XGP. Connie brought this matter up with Doug during his recent visit. She was mostly interested in printing NLS filemore easily and being sure some one on the Office=1 staff was in touch with the use of ISI=XGP, made sure that the directory <XGP> at Office=1 had up to date release, etc. Doug however suggested we might want to go directly from our Output Processor to the XGP. Conversation between glizabeth and Vittal suggest we might collaborate with ISI on the long=term proposal.

A considerable range of choice is available to ARPA and to us in this situation, from a patch of the ISI-XGP to improvement that is not related to NLS, to making a system that translates the output of the Output Processor into a form that the XGP could print. It seems appropriate to me to offer a shopping list of features and costs to ARPA. We could prepare jointly with ISI or not.

Clearly some one would have to pay for whatever work emerged. The short-term ISI work and perhaps the long-term is covered by the miscellaneous clause in their office systems support contract. Connie thought it was at best possible that other money could be found at ARPA to support our work.

It's worth noting that the fit between ISI=XGP and the Output Processor is not perfect. For example they justify mono=spaced lines by inserting spaces between words. In the belief that the resulting page is uglier than a page with an uneven edge, we have never done

DVN 25=0CT=74 13:39 24326

Conversation with Connie McLindon about ARPA and ISI=XGP

so. Connie thinks ARPA could get on without that feature. They do not offer variable type size = it seems very likely the XGP could print variable type size. They offer a font called News Gothic and fonts closely resembling Times Roman and Courier.

DVN 25-OCT-74 13:39 24326

conversation with connie McLindon about ARPA and ISI-XGP

(J24326) 25-OCT-74 13:39;;; Title: Author(s): Dirk H. Van Nouhuys/DVN; Distribution: /JOAN([ACTION] anothe for the DPCS notebook, you can delete your file) JCN([ACTION]) RWW([ACTION]) EKM([ACTION]) DPCS([INFO-ONLY]) SRL([INFO-ONLY]); Sub-Collections: DPCS SRI-ARC; Clerk: DVN;

JBP 25=0CT=74 13:52 24327

Visit by Benoit

Jack Benoît of MITRE is planning to visit here on 15-NOV-74 and would like to discuss now protocols and front end implementation, i may be able to handle it alone by that time but may need your help for part of the day.

--jon.

Visit by Benoit

(J24327) 25=CCT=74 13:52;;; Title: Author(s): Jonathan B. Postel/JBP; Distribution: /JEW([INFO=ONLY]) CHI([INFO=ONLY]) RWW([INFO=ONLY]); Sub=Collections: SRI=ARC; Clerk: JBP;

SRL 26=UCT=74 09:42 24328

XGP Type Fonts - Comment on (24326,)

The XGP does have variable type size and fonts = there are a dozen or more fonts available = if you*d like I can send you samples of all available fonts (there is a book with all these).

XGP Type Fonts = Comment on (24326,)

(J24328) 26-CCT-74 09:42;;;; Title: Author(s): Susan R. Lee/SRL; Distribution: /JOAN([ACTION]) JCN([ACTION]) RWW([ACTION]) EKM([ACTION]) DVN([ACTION]) DPCS([INFO-ONLY]); Sub-Collections: SRI-ARC DPCS; Clerk: SRL;

Schedule for the Introduction of NLS-8 to Office-1 Users

As most of our Office=1 users already know, the ARC Development staff has been working on a new version of NLS, now known as NLS=8, for many months. It is about ready for release by the ARC Applications group to all NLS users at Office=1, after extensive trial use and bug=seeking by our staff, Also, an advance version of NLS=8 has been used at Office=1 on a trial basis by the Workshop Architects from each user organization, starting in early September.

1

On Tuesday, October 29th we will bring up our most current, checked-out version of NLS-8 for all Office-1 users as the start of a one-week invited preview period.

2

NLS-8 will be accessed as "PREVIEW" until November 5th, At that time it will be accessed as "NLS."

2a

puring this preview period, ARC staff will be working at correcting problems that may be encountered in NLS=8. Thus, the preview version running at Office=1 may undergo some slight changes as the period progresses.

2a1

Old NLS (NLS=7), now in use, will continue to be accessed as "NLS" until November 5th. At that time, it will be accessed as "OLDNLS" until Tuesday, November 19th, at which time we plan to remove OLDNLS from active use at Office=1.

26

NLS=8 documentation is expected to be ready and delivered to each site*s Architect by about October 29th.

3

This will include an NLS-8 Cue-card, Primer, Command Summary, and Old-to-New Command Listing. In addition, several teaching aids for NLS-8 are being developed.

3a

NLS=8 questionmark and HELP features will also aid users in adapting to changed and added features.

3b

Training sessions have already been held at some sites to provide changeover assistance. This activity will continue as appropriate.

30

We will direct the Office=1 users attention to the NLS=8 introduction schedule by a login message on Tuesday October 29th.

- 1

Our aim is to introduce NLS-8 to all users, while providing for the availability of NLS-7 in a way that will permit users who now rely on NLS-7 in their daily work to learn NLS-8 while still being able to function in demanding situations with their knowledge of NLS-7. It is important, however, that we minimize

JCN 27=UCT=74 11:05 24329 Schedule for the Introduction of NLS-8 to Office-1 Users

the period of running both versions, for this situation increases the load on the system.

With the above plan and schedule, we hope to encourage as smooth a transition as possible for both experienced and new users.

JCN 27-OCT-74 11:05 24329

Schedule for the Introduction of NLS=8 to Office=1 Users

(J24329) 27-OCT-74 11:05;;; Title: Author(s): James C. Norton/JCN; Distribution: /KWAC([ACTION]) JDH([INFO-ONLY]) RLL([INFO-ONLY]) SRL([INFO-ONLY]) MEH([INFO-ONLY]) JCP([INFO-ONLY]) MLK([INFO-ONLY]) CHI([INFO-ONLY]); Sub-Collections: SRI-ARC KWAC; Clerk: JCN; Origin: < NORTON, PREVIEW.NLS;1, >, 27-OCT-74 11:03 JCN;;;;

RLL 27=UCT=74 12:34 24330

Rude Office=1 ssout down

26=OCT=74 2104=PDT LIEBERMAN: RUde Office=1 ssout down.
Distribution: FEEDBACK AT OFFICE=1, FEEDBACK, NORTON, lieberman
Received at: 26=OCT=74 21:04:39

I have the occasioon to be on OFFICE=1 at night. Generally forgetting he time. without warning the system ssuts down at 9:00 PDT. OK, maybe the TNLS users don't like too many typeout but, I think one five minute warnin would be nice.

RUde office=1 ssout down

(J24330) 27-OCT-74 12:34;;; Title: Author(s): Robert N. Lieberman/RLL; Distribution: /JCP([INFO-ONLY]); Sub-Collections: SRI-ARC; Clerk: KIRK;

18-OCT-74 0829-PDT PLACKO at OFFICE-1: Set NNLS file Private command

Distribution: FEEDBACK AT ARC, hopper at arc, placko Received at: 18-0CT-74 08:30:22

I just tried to set one of my files private this morning (complete with what I believe to be the proper access list "AccessList: MAP2;") and the response i received was "not implemented". Double check please.

-- Mike

1a

Set NNLs file private command

(J24331) 27=OCT=74 12:56;;; Title: Author(s): Michael A. Placko/MAP2; Distribution: /FEED([ACTION]); Sub=Collections: NIC; Clerk: KIRK;

FDBK 27-0CT-74 13:03 24332

Update Compact

Update Compact can sometimes cure a bad file. Other than that, I don't think it helps anything except disc space.

Update Compact

(J24332) 27-CCT=74 13:03;;; Title: Author(s): ARC FDBK Feedback/FDBK; Distribution: /SRL([INFO=ONLY]); Sub=Collections: SRI=ARC; Clerk: KIRK;

Documentation Request

Martin, Please have all the pertinent documentation concerning the Lineprocessor and assocciated displays sent to Mike wingfield. Include the Workstation Guide, The hardware schematics and design docs, and your reent publications on the matter. Thanks, Jim (Address on link).

JHB 28=0CT=74 08:05 24333

Documentation Request

WINGFIELD (Lt. Mike) NSW Project Engineer

RADC-ISIM
Rome Air Development Center
Griffiss AFB, NY 13441

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Documentation request

(J24333) 28-OCT-74 08:05;;; Title: (Unrecorded) Title: Author(s): James H. Bair/JHB; Distribution: /MEH([ACTION]) MAW([INFO=ONLY]); Sub=Collections: SRI=ARC; Clerk: JHB;

DVN 28-0CT-74 09:21 24334

Please Send Sample XGP Fonts

Glad to hear XGP can change type sizes. Please do send samples of all available fonts.

Please Send Sample XGP Fonts

(J24334) 28=CCT=74 09:21;;;; Title: Author(s): Dirk H. Van Nouhuys/DVN; Distribution: /JOAN([ACTION] for DPCs notebook) SRL([ACTION]) DPCS([INFO=ONLY]); Sub=Collections: SRI=ARC DPCS; Clerk: DVN;

On Sept. 26, *74 there was a meeting concerning the problems we are having debugging remote Lineprocessors. The discussion centered around problems brought out by Martin's file (hardy, lpsysneeds,). Attendees: RWW, CHI, DIA, MEH, KEV, JDH. The points of action or recommendation that Development will take are discussed here. We will assume that Martin will be the pusher for these things, except as noted.

NLS will set LP in coordinate mode.

It is possible to enter NLs with the Lineprocessor out of coordinate mode = in which case the mouse buttons don't work etc. It is not obvious to the user what is wrong = he must notice that status light three is off. This is a trivial fix, which CHI has taken care of.

Need Documentation (improve Lineguide)

The Lineguide document needs the following:

An initial section should simply tell the user what he needs to know to use a Lineprocessor workstation. It must be very short and simple.

Another section must tell the user what to do to find out why (and if) the workstation is not working properly. This must start from the top down, providing a Checklist that will eliminate dumb oversights as well as find serious malfunctions. It must explain to the user exactly what he has to do about any discovered problems.

A third section should be addressed to a savy person at the workstation site that is more or less in charge of the workstation, such as the site architect. It must tell that person how to change PROMS, how to hook the thing up in different situations, how to find out if the right set of PROMS is in the thing, etc.

The manual should include the following piece of information:

Doing "C and hitting system reset, changing the terminal type or doing other mischievous things will screw up the Lineprocessor operation. The "C is useful for very few operations and GOTO TENEX is recommended for most things.

Need Procedure and Mailing List for new PROMS

persons in Charge or site architects for every Lineprocessor workstation in the field must be on a mailing list for

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not adequate Lineprocessor Workstations because they are so slow (i.e. delete line time). Also, they are outrageously

expensive compared to others. In addition they have some peculiar properties that require "special case-ing" inside NLS =- a real drag for programmers and a source of bugs. We would like to recommend to all Delta Data users that they get rid of them ASAP and when none are left we will not support them any longer.

Better error reports

The error reports we have been getting have not contained enough information. Also, some automatic error reporting could be done:

We need a feedback mechanism for Lineprocessor trouble reports. For each trouble report, it is necessary to know:

What site, what type of display. Date, time

Connection via TIP (which one?) modem?

Speed of the connection

which host were they running NLS on?

Which version of NLS

Detailed description of the problem

The Lineprocessor program has beenmodified so that it would notify NLS when it discovers an error (and give type of error). Such occurrances will be written on a file. Also, NLS will keep track of frequency of errors and suggest to the user that he run such and such test program if they get out of hand.

In any event, Applications needs a diagnostic technician to collate the errors reported, both manually and automatically, and to oversee the whole mess. That person should be ready to fly to a site to identify the problem if necessary. He/She should have both hardware and software knowledge about the Lineprocessor, as well as software knowledge about NLS.

Lineguide distribution and "debugging"

It is unreasonable that so many Lineprocessors are out in the world without any documentation or instructions about how to run them. Even SRI people in Washington do not have copies of Lineguide.

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necessarily.

Making the invisible visible 1k NLS will recognize a viewspec that will show invisible characters = by writing funny characters in place of invisible characters. The user will have to re-create the screen to see them, and then again to get them to go away. To be assigned to development person. 1k1 Slowness: 11 There has been some criticism of the speed of remote Lineprocessor workstations. Here are some reasons for apparent slowness: 111 we believe that OFFICE=1 does not give Lineprocessors lots of output buffer space. This is critical. JDH will check into it and fix. 111a Delta Data's are very slow in deleting lines == More than an order of magnitude over Hazeltine. It hurts. 111b There are many more NET hops to OFFICE=1 from the east coast than from SRI. This introduces some delay, but it should be compensated to some extent by TIP output buffer size. 111c The TIP buffer sizes have been cut in half from our original buffer size requests. Our original requests may have been too small. All buffers are certainly too small now. 111d Modem=TIP connections 1 m There are problems in modem-TIP connections and evidently each such connection has to be checked out by Rod and Martin. 1 m 1 Remaining Bugs 1n

(DIA, MEH&JDH)

A strange and repeatable string comes out to terminals (only Delta Data?) that are connected to a TIP via a 208 modem.

Seems to be associated with the clearline command but not

Here are some remaining problems we are currently after:

Lineprocessor: Needs and Recommendations

(J24335) 28-OCT-74 15:01;;; Title: Author(s): Don I. Andrews/DIA; Distribution: /MEA([ACTION]) JCN([ACTION]) SRI-ARC([INFO-ONLY]); Sub-Collections: SRI-ARC; Clerk: DIA; Origin: < ANDREWS, LPNEEDs.NLS;5, >, 28-OCT-74 14:56 DIA;;;;####;

Opinion on Journal Citation Delivery Format

Modifies slightly format listed as NDM's choice in (24284,).

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DIST distribution list of idents	3
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PRO: If an item was sent for ACTION to the world, I want to give it lower priority than an item sent just to me for ACTI	ON, 3f
I also want to be able to distinguish between primary recipients (To, or ACTION) and secondary recipients (CC or INFO-ONLY), whether by placing them in seperate fields or uppercase primary, lowercase secondary.	3 f
TO: distribution list of idents receiving mail as act	ion 3f3
CC: distribution list of idents receiving mail item a information only	s 3f3
The distribution list should be exhaustive (i.e. recipient himself should be included), since the citation could be cop by someone not on list.	ied 3f
TYPE the word ACTION and INFO, for action or information	3
Is the journal going to deliver ACTION and INFO items in seperate branches? If so, should definitely not be on first line. If not, I would place this higher in priority than th distribution list. But it should be noted that this is used only in first responding to mail. It is less important if y are your citations as more durable handle on the file. When first examining item, the first line view is probably unimportant.	e ou
LINK complete journal reference in form of link	3
PRO: Should be in first statement of citation in order for j to link to work when only first line is bugged or referenced ???JUMP TO LINK WORKS EVEN IF LINK IN HIDDEN LINES.	
I think a link to the actual document should always be delivered, even for messages. This would allow one the generality of always jumping on a (perhaps hidden) link, not	

One might then read the message (hopefully delivered as a substatement) then delete it, trusting the link in the citation to always lead you to the text at subsequent readings. One's initial file might be a bit smaller and

knowing whether it is a file or a message (as from a one line

view).

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DATE TIME=ZONE AIDENT: TITLE terminated by a CR and 3 spaces

For Your ACTION/INFORMATION, Private

Distribution: ACTION IDENTS ARE UPPER CASE info only idents are lower case (recipient included here somewhere)
Author orgs: Idents...
Received at: 12=OCT=74 04:31
(JJOURNAL,12345,1:w)

comments: comments would appear as substatement of citation,

Text of Message is a substructure statement.

Citation in file:

Jake brought up the question of what information the journal should put in the origin of each journal item.

We are on the verge of having a subsystem which can take the standard catalog format and produce any number of extractions (author citation, titleword, number, or whatever the librarians tell us to produce). The catalogs themselves are now protected, but the user should be to use this forthcoming subsystem to produce a reference in any of these formats for any file delivered to him.

Given that ease of transformation and that (with a nice new delivery format) he will seldom have to study the origin statement. The file itself ought to be a complete repository fr information about that item. I think it is more important to have a format where the information is accessable in easily defined fields rather than deciding now what is pretty and/or limiting the content to what we currently think is standard/important. I think we ought to use the standard catalog citation format in the origin statement of journal file.

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Opinion on Journal Citation Delivery Format

(J24336) 28-QCT-74 15:34;;; Title: Author(s): N. Dean Meyer/NDM; Distribution: /RLL([ACTION]) SRI-ARC([INFO-DNLY]); Sub-Collections: SRI-ARC; Clerk: NDM; Origin: < MEYER, HEADS, NLS; 4, >, 28-QCT-74 15:27 NDM;;;;####;

journal citations again

I do have one or two other things to do, but occasionally I need a relief from them!

The issue that Dean raises (in== 24336,) (and I think Jake raised it also) about having sort programs, etc. work is I beleive looking at the citation issue in the wrong way. The problem, as I see it, is having citations presented to an INDIVIDUAL user in the format preferred by that INDIVIDUAL user. Then if an individual wishes to sort her citations, it is her responsibility (perhaps with our help) to provide the sort keys, programs, etc. that will sort the citations in the desired manner. Obviously, these programs must be aware of the format of the citations they are to sort. If an individual wishes to make use of pre-existing sorting programs, then she must see to it that her citations conform to the input format required by the program to be used (and of course both available programs and required citation formats should be published). All the catalog production programs that I am aware of, do not go through individual initial files to get their data, but work on other data bases. Thus, if an individual is only interested in seeing who wrote an article, when it was written, and where it lives, (admittedly a perverse example), there is NO need to have the title in the citation that gets delivered to this person.

journal citations again

(J24337) 28-CCT-74 17:33;;; Title: Author(s): Kenneth E. (Ken) Victor/KEV; Distribution: /SRI-ARC([ACTION]); Sub-Collections: SRI-ARC; Clerk: KEV;

test msg

This was my first message,

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E	Exit		F Find	G Group H Help	4
I	Insert	J	Jam	K Kill L List	5
М	Modeset	N	Notemodes	O Divert Output P Print	6
Q	Quit		R Read	S Search T Type	7
U	Undo		V View	W Write X Xchange	8
Y	Yes	Z	Close Divert		9

test msg

(J24338) 28-CCT-74 17:34;;; Title: Author(s): Ron Tugender/RT2; Distribution: /CHI([ACTION] screw you) RWW([ACTION]) RT2([ACTION]) HGL([INFO-ONLY]); Sub-Collections: NIC; Clerk: RT2;

JMB 28=0CT=74 17:35 24339

something I couldn't find in the Help database

well, I finally found restricted distribution when I tried distribution, but my first try was for unexpanded. How about putting unexpanded in Help's lexicon? --since that's what it used to be called. Not very important, but it would be a nice touch.

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JMB 28=OCT=74 17:35 24339

something I couldn't find in the Help database

(J24339) 28-CCT-74 17:35;;; Title: Author(s): Jeanne M. Beck/JMB; Distribution: /FDBK([ACTION]); Sub-Collections: SRI-ARC; Clerk: JMB;

JMB 28=0CT=74 17:46 24340

Something I couldn't find with Help

I couldn't find out what default subcollections were defined to be, so i didn't know whether I needed to use Subcollections command or not, Could you make this information more accessible in the Help database (maybe I just didn't think of the right place to look)?

4

something I couldn't find with Help

(J24340) 28=CCT=74 17:46;;; Title: Author(s): Jeanne M. Beck/JMB; Distribution: /FDBK([ACTION]); Sub=Collections: SRI=ARC; Clerk: JMB;

JMB 28=OCT=74 18:39 24341

Comment on Functional Documents & Journal Numbers

If successive revisions of a document are journalized (per JCN's proposal), the essential question for the document's users is:

. . .

which number is put on the hardcopy of the document?

1a

1

To express this in other words, here is a users' situation:

2

One of her co-workers tells her that his hardcopy of a particular users guide has number 12345 on it, and that she can get her own copy from that number.

2a

However, what heither of them know is that this users guide has been revised. If journal item 12345 is a link to the location of the most recent version, she will go to the right place; and if she phones ARC and asks for a printed copy of 12345, our revised copies will have number 12345 on them. On the other hand, if 12345 is a copy of the users guide itself, and number 67890 is a revised copy, she will not get the recent version at 12345, and it won't tell her there is a more recent one.

2b

I'm sure I haven't described or thought of all the possibilities here, but this is a potential situation we should hold in mind when considering this problem.

20

Comment on Functional Documents & Journal Numbers

(J24341) 28=OCT=74 18:39;;; Title: Author(s): Jeanne M. Beck/JMB; Distribution: /JCN([ACTION]) RWW([ACTION]) DCE([ACTION]) DVN([ACTION]) DIRT([INFO=UNLY]); Sub=Collections: SRI=ARC DIRT; Clerk: JMB;

Feedback for action /record

Mike, Did this problem get solved to your satisfaction?

JHB 28=UCT=74 21:47 24342

reedback for action /record

15=OCT=74 1330=PDT PLACKO at OFFICE=1: Wierdness
Distribution: LEE AT SRI=ARC, bair at sri=arc, placko
Received at: 15=OCT=74 13:31:45

When I do a show directory in NLS it indicates the existance of the following file: <placko>(placko)message.pc;1 and <placko,message.txt;1> but indicates that it is not online. Using the interrogate command in EXEC there is no indication that such a file is archived. What am I d*ing wrong??? == Mike

1a

Feedback for action /record

(J24342) 28=OCT=74 21:47;;; Title: Author(s): James H. Bair/JHB; Distribution: /FEED([ACTION]) MAP2([INFO=ONLY]); Sub=Collections: SRI=ARC; Clerk: JHB;

DVN 28=0CT=74 21:51 24343

The Need for a way to Create Formatted, Sequential Files Suitable for Printing at Terminals at Other Sites

It sometimes happens that we want to pass a file through the formatting steps of the Output Processor for transmisson to some one who will print it out at a terminal as a sequential file, e.g. as part of a sendmessage. A file created by the command Output Printer contains some control characters intended for our line printer that make it unsuitable for printing at a terminal. A procedure exists for passing this file through Sendprint to scrub out the control characters, but it is awkward to use and creates a file that may contain long lines which TENEX then wraps around with a double star. It appears that if the output teletype command could aternatively output to a file, that file would be suitable for this use,

1

DVN 28=OCT=74 21:51 24343 tal Files Suitable for

The Need for a Way to Create Formatted, Sequential Files Suitable for Printing at Terminals at Other Sites

(J24343) 28-CCT-74 21:51;;; Title: Author(s): Dirk H. Van Nouhuys/DVN; Distribution: /FDBK([ACTION]) DCE([INFO-ONLY]) JCN([INFO-ONLY]) SRL([INFO-ONLY]) JEW([INFO-ONLY]) does this sound right?) JBP([INFO-ONLY] does this sound right?) NDM([INFO-ONLY] does this sound right?) SRI-ARC; Clerk: DVN;

CHI 29=UCT=74 08:36 24344

thanks

Thanks for the message (24338,)

1

thanks

(J24344) 29-CCT-74 08:36;;; Title: Author(s): Charles H. Irby/CHI; Distribution: /RT2([INFO-ONLY]) JGR([INFO-ONLY]); Sub-Collections: SRI-ARC; Obsoletes Document(s): ; Clerk: CHI;

5

Before making the main point of this piece let me say a a couple words on the space I'm coming from, For some time I've been wanting to tell you all how really good I feel about what is happening in Development and Documentation, about how good I feel about you individually and as a team. You all know me well enough to know I don't say such things easily or lightly, that I tend to have over expectations which are hard to Meet. (I still have them so don't let good words go to your heads). Looking around the ARPA community and in other organizations outside and within SRI, I feel really proud that the quality and quantity of our technical work matches or exceeds that of any other group I'm familiar with. As Charles has so rightly said, we don't just talk about challenging ideas, we do it (and I should add to show my next n months of concern by July 1, on time I hope). This is the strongest technical group I have had the priviledge of being associated in the four years I've been at ARC or the years before and it makes coming in every day really worth while for me that that is the case.

For its size ARC is having a very large influence, I believe for good. I have not always felt so good about every individual or the group while I've been at ARC and it's really nice to feel this way. Maybe it was the three day old Macarooni and cheese I ate for breakfast. I have been sad to see us lose good men like Paxton, Dornbush and Smokey, but there have been others that I did not feel were contributing fairly whose departures caused no pain. I would feel a real loss if anyone here now were to depart.

Enough gushing, it's out of character and embarrassing me.

Now to the point. I have been having some good and at times, heavy discussions with Jim and Doug about the philosophy, cost, quantity, quality of computer service to be provided Development and Documentation. We can talk more on details Thursday. Each time the point usually gets made that many of our people don't seem to be around before 9:00 or even 9:30 or after 5:00 or 5:30.

The main point of this remark is that there is a useful expensive resource not being fully used at times when it is not unreasonable to expect people to be here using it.

As Doug and Jim all know I expect as a minimum all of us to put in a productive, intensive, concentrated 40 hours on average and from my model of everybodys working and what they are doing I could quickly assure them of this fact and the good feelings I have described above,

However, the fact still remains that there are usually useful resources in the morning and late afternoons (and evenings and weekends, although I think that outside of special cases and personal

choice I feel a personal obligation within funding available to provide as much computer capacity as possible during normal type hours and not to require other shifts).

Since all are not feeling good about the capacity they are getting I request you to examine your work patterns and see what advantage coming in a earlier or staying a little later might do for the situation, within funding available we are getting the best we can get. If we want to consider how to reallocate within our 8 NSW slots we can discuss proposals at any time.

Thanks, Dick

Goodvibes And Computer Capacity

(J24345) 29=OCT=74 12:26;;; Title: Author(s): Richard W. Watson/RWW; Distribution: /NPG([INFO=ONLY]) JBP([INFO=ONLY]) DVN([INFO=ONLY]) POOH([INFO=ONLY]) KIRK([INFO=ONLY]); Sub=Collections: SRI=ARC NPG; Clerk: RWW; Origin: < WATSON, GOODVIBES.NLS;1, >, 29=OCT=74 12:04 RWW;;;;####;

SUG: unnecessary control U in Force command

Could this not be an easy fix via the CML????

RLL 29=0CT=74 13:46 24346

SUG: unnecessary control U in Force command

Why is it necessary to have the last part of the force command accessed by control u? the options should be OK/C: instead of OK/[**]: This will make the use of this command simpler. Example: force word <BUG> lower <BUG>. Far better than Force word <BUG> < U> Lower <BUG>.

1

SUG: unnecessary control U in Force command

(J24346) 29=OCT=74 13:46;;; Title: Author(s): Robert N. Lieberman/RLL; Distribution: /FDBK([ACTION]) JHB([INFO=ONLY]) KIRK([INFO=ONLY]) NDM([INFO=ONLY]); Keywords: Suggestion; Sub=Collections: SRI=ARC; Clerk: RLL;

TRANSITION FROM NLS-7 TO NLS-8 COURSE OUTLINE"

This 10 page paper is based on DVN's documment, New and Changed Features in NLS-8 (31039,). It is revised, updated, reordered and reworded to serve as a transition course outline. It has been used at RADC. Although designed for use during a face-to-face tutorial, it should be readable without assistance.

OUTLINE OF DIFFERENCES: New TNLS (TNLS-8) -- Old TNLS (TNLS-7).

1

QUESTIONMARK (?)

2

TNLS=8 has useful questionmark facilities. Typing a ? at any point except when you are typing in text will print out the choices (command words) available.

2a

Note ? changes its output with each new step in a command, and its result depends on the recognition scheme you are using. 2a1

<> = type a space

2b

In Terse recognition mode (discussed below), "<>" before a command means that you have to type a space to begin that command and then as many letters as necessary to uniquely identify it.

261

<Control=o> stops printing after a ?, (after the buffers empty...) 2c

When the possible command words have printed out, you are still just where you were in the command.

2d

HELP

3

Type h for the HELP command which retrieves the HELP data base; or you can follow the Help command by any term in NLS for an explanation. OR type a CTRL Q at any point and you will get help corresponding to what you were doing in TNLS. Once you have begun the Help Command, you can continue asking for topics by name or menu number until you hit a Command Delete.

3a

SUBSYSTEMS:

4

All the commands in NLS have been grouped into subsystems. The commands we use most are in the Base subsystem which includes editing, file handling, and terminal handling commands. Others are available through: Calculator, Sendmail, Programs, Tenex, and Useroptions.

4a

You "Goto" another subsystem.

46

Type G for goto and then first letter of the subsystem's name. Quit returns you to the previous subsystem.

4c

By default the herald is printed in TNLS. It is the first four

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Link (in TENEX) = <>Connect to Terminal (in NLS)	7a1k
Null File = <>Create File	7a11
Output Device Printer = Output (to) Printer	7aim
Output File = Update File Compact	7ain
Space (move the CM) = Jump (to)	7a1o
Update = Update File + various alternatives	7a1p
New Commands:	7 b
Directory Commands: Now in NLS	761
Now you can deal with your directory in NLS as well as in TENEX. Delete File, Undelete File, and <>Expunge Director are NLS Commands.	751a
Copy Directory: copies your directory into a file as a plex.	752
Options in Copy Directory allow you to see the information TENEX has about your files sorted in various ways , e.g. size or Protection. All filenames are now in LINK format that when you copy your directory you have links to all your lines.	50
Show Directory: prints/displays the same information without putting it in an NLS file.	7b3
Set Content (pattern) To:	764
The most frequently used content analyzer patterns can be typed in without going to programs. You can type in any pattern (or point to it), e.g. ["word"].	7b4a
Privacy:	755

There are now two systems in NLs for controlling access to files. One is the Set Tenex (Protection for file named) command which calls the TENEX protection provisions, based on usernames and groups. The second is the Set Nls (Protection for file) command which limits read access to a list of idents. You have to separately edit the list of idents into the origin statement of the file in the following exact format:

AccessList: IDENT IDENT IDENT;

7b5a

You may have any number of idents and they must be in upper case. 7656

REPETITION of commands:

8

The system now returns to the herald after every command, BUT, if you end any command with a Repeat Character (e.g. control b) the system will carry out the command, return to the herald, and go forward in the same command until it meets a field that is not a command word. The Repeat Character is <CTRL-b> by default.

8a

The system will continue to repeat the command in that way until you hit Command Delete.

881

If you hit a Repeat Character at command reset, it will repeat Your last command out to the first field that is not a command word. You may then step back through the command word-by-word with <Backspace Character>, or <A>.

86

ADDRESSING (very different in TNLS!)

9

The prompt for addresses is A:, Following A: you can put ANY ADDRESS in NLS, but viewspecs in a link will be ignored. After the filename position you may use the new within-file address forms in any order as you could in TNLS-7.

9a

Links

95

Links now differ from addresses only in allowing viewspecs and comments. Links require delimiters ,e.g. <>, when they are in text.

9b1

The prompt T: expects a link in certain situations, for example when it expects a file name,

9b1a

You do not need delimiters when you TYPE IN a link.

9b1b

No Periods in Front of Statement Numbers, Names, or SIDs

90

Do NOT put periods in front of statement names or numbers or SID's; instead put them in front of structural relationships (i.e. .u (up) .d .b .a or .p (predessor) or .s etc.).

901

Content Addresses (search for word)

90

[content] is "content"

9d1

Quotation Marks have replaced square brackets and angle brackets to mark off content searches used in addresses.

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RPT: calls for a <control=b> to repeat the use of some buffer as in content searches. (In DNLS, the 2 right mouse buttons</control=b>	,
SPACE now JUMP: (space is no longer a command)	0a12
Where in TNLS=7 you hit space at the herald before to move your CM, in TNLS=8 type J A for Jump to Address. The whole list of Jump commands that allow you to express address elements as command words (Jump to Return, Jump to Name, Jump to Link, etc.) is also available in TNLS=8. Space retains its meaning within addresses.	11a
FROM/TO (no longer to an address from an address)	12
In TNLs=8 you move and Copy things FROM someplace To someplace else instead of vice versa.	12a
HERALD: (no longer *)	13
By default the herald is the first four letters of your subsystem In the Useroptions subsystem you can CHANGE IT BACK TO * (called terse herald) or reset the length of the herald for all	
subsystems.	13a
THE JOURNAL: (now: Goto (subsystem) Sendmail)	14
Execute Journal has become the gendmail subsystem. The term "Journal" continues to refer to the body of information and dialo built up of submissions.	g 14a
Execute Journal had two command levels (& and &&), Sendmail has all commands on the same level.	146
INTERROGATE works as it did before, the system will ask you for the things you need to send rountine mail.	140
Changed Commands:	14d
For Submit Statement, Branch, Plex, Group or File you now type <> Statement, Message, Branch, <> Group, <> Plex, or File. (e.g type "space s" to submit a statement.)	
Distribute = <>Distribute (for) Action (to): <>Distribute (for) Information (to):	14d2
Go = Send (the mail)	14d3
Status = <>Show Status	1444

Submit Hardcopy = <>Offline	14d4a
Execute Catalog Preassigned numbers = Reserve	14d4b
Place Link = <>Insert Link	1444c
Execute Secondary Distribution = <>Forward	14444
New Functions	14e
Initialize	14e1

To completely restart a Sendmail session, use the <>Initialize command to wipe the slate clean. When you have sent an Item, or when you quit and return via Goto Sendmail; the system initializes for you.
14eia

Insert Status 14e2

Show Status lists what Sendmail knows at that moment about the item you are sending. 14e2a

<>Insert Status writes that same information at an address
you supply. It writes it in the correct format for the
Process Sendmail Form Command. It is often useful to insert
your status in a scratch file, edit it at leisure, and then
use the edited statement to send the item via the Process
Sendmail Form Command.
14e2b

Insert <> Sendmail (form) will put an empty status form where you tell it that you can fill out and then process, 14e2c

Unrecorded 14e3

The Unrecorded command will keep your item from being cataloged and indexed. 14e3a

Private 14e4

The <>Private command keeps people who were not an author or on the distribution list from reading the journalized item.

14e4a

Public 14e5

The <>PUblic command reverses the private command; it returns the Journal item to General access. 14e5a

OPTIONS AND ALTERNATIVES: [**] or OPT when Prompting is FULL

15

The default prompting is partial for new users; to see the prompts for options use Full in the Useroptions subsystem.

15a

When several command terms may follow a given command term (such as Delete Branch A: OK/[**]) we speak of Options. Typing the Option character, <control=u> allows you to put in command terms Otherwise inaccessible. Options include, for example, the filter step in the Copy commands that replaces Execute Assimilate, and the commands that select various kinds of information in Show Directory.

15b

USER PROGRAMS:

16

In general, user programs written for TNLS=7 WILL NOT run or compile in TNLS=8. Most of them have been revised but some have not. If you discover a user program that does not run as it did in the past, report it via the feedback system (sendmail to ident FEED or TENEX sendmessage to feedback@office=1).

QUERY also will not run in NLS=8. The query language is available through the NIC command in TENEX at Office =1.

THE PROGRAMS SUBSYSTEM

17

It replaces and augments the old "Go to program" commands. 17a

Important old Commands with New Names: 17b

Get = Load 17b1

Status = Show 17b2

Buffer = Set Buffer 17b3

THE USEROPTIONS SUBSYSTEM

18

The Useroptions Subsystem controls feedback in the form of heralds, prompts, noise words, etc.; it controls recognition and default viewspecs; it redefines control characters (like the old NLScontrolCharacters branch); and it formats pages in the TNLS print command. Execution of commands in the Useroption subsystem rewrites a file (the profile) that determines how these parameters are set when you log in from then on.

DOCUMENTATION

19

In addition to the on line questionmark and Help facilities, there is hardcopy documentation available. Although much of this can be printed from online files, we recommend that requests be made of

the Office=1 staff for copies. This and any other requests or questions or comments will be responded to within 1 day of receipt at FEEDBACK through sendmessage to FEEDBACK or Sendmail FEED.	to 198
DOCUMENTATION:	196
Old NLs == NLs=8 Command Equivalents	1961
TNLS=8 Primer (a self teaching introduction to TNLS=8)	1962
Mouse And Keyset Codes Card	19b3
TNLS=8 Reference Card (a quick reference to ald the trained user)	1964
Users' Glossary [In preparation as of 12=0CT=74]	1965
NLS-8 Command Summary (Syntax listing of all the commands in NLS)	1966
DNLS-8 Course Outlines	1957
TNLS Course outlines	1958
Workstation Guide [pre-publication as of 12-0CT-74]	1969
Lineprocessor Guide [pre-publication as of 12-0CT=74]	19010

TRANSITION FROM NLS-7 TO NLS-8 COURSE OUTLINE"

TRANSITION FROM NLS+7 TO NLS+8 COURSE OUTLINE

SRI=ARC

30 OCT 74

Augmentation Research Center

STANFORD RESEARCH INSTITUTE MENLO PARK, CALIFORNIA 94025

TRANSITION FROM NLS=7 TO NLS=8 COURSE OUTLINE"

JHB 29=OCT=74 19:09 24357 30 OCT 74

(J24357) 29=OCT=74 19:09;;; Title: Author(s): James H. Bair/JHB; Distribution: /SRI=ARC([INFO=ONLY]) KWAC([INFO=ONLY]); Sub=Collections: SRI=ARC KWAC; Clerk: JHB; Origin: < BAIR, TRANSITION.NLS;8, >, 29=OCT=74 18:53 JHB;;; ####;

```
TIME PLOT OF AVERAGE IDLE TIME FOR WEEK OF 9/29/74
x axis labeled in units of hr:min, xunit = 30 minutes
    67.5
   60,0
   52.5
   45.0
    37.5
   30.0
    22.5
   15.0
    7.5 ***********
    0.0 泰泰林林林林林林林林林林林林
       5:00 10:00
                            15:00
                                                         1a
TIME PLOT OF AVERAGE NUMBER OF GO JOBS FOR WEEK OF 9/29/74
x axis labeled in units of hr:min, xunit = 30 minutes
    5.0
    4.5
    4.0
    3,5
    3,0
    2.5
    2.0
    1.5
    1.0
    0,5
       0:00 5:00 10:00 15:00 20:00
                                                         2a
TIME PLOT OF AVERAGE PER CENT OF CPU TIME CHARGED TO USER ACCOUNTS
FOR WEEK OF 9/29/74
                                                          3
x axis labeled in units of hr:min, xunit = 30 minutes
   61.6
   53.9
   46,2
   38.5
   30.8
    23.1
   15.4 *****
    7.7 ********
    0.0 ****
       5:00 10:00 15:00 20:00
       0100
                                                         3a
```

0:00 5:00

TIME PLOT OF AVERAGE NUMBER OF USERS FOR WEEK OF 9/29/74

TIME PLOT OF AVERAGE NUMBER OF NETWORK USERS FOR WEEK OF 9/29/74 x axis labeled in units of hr:min, xunit = 30 minutes

10:00 15:00 20:00

2

4a

5

H

5a

Superwatch Average Graphs for Week of 9/29/74

(J24358) 30=OCT=74 05:41;;; Title: Author(s): Susan R. Lee/SRL; Distribution: /JCN([INFO=ONLY]) RWW([INFO=ONLY]) DCE([INFO=ONLY]) JCE([INFO=ONLY]) DVN([INFO=ONLY]) JAKE([INFO=ONLY]) DSM([INFO=ONLY]) CSM([INFO=ONLY]) CSM([INFO=ONLY]) RLL([INFO=ONLY]): Sub=Collections: SRI=ARC; Clerk: SRL; Origin: < Lee, WEEK9/29GRAPHS.NLS;1, >, 30=OCT=74 05:38 SRL;;;;<<Lee>WEEK9/29GRAPHS.NLS;1, 30=OCT=74 05:16 SRL; ####;

```
TIME PLOT OF AVERAGE IDLE TIME FOR WEEK OF 10/6/74
x axis labeled in units of hr:min, xunit = 30 minutes
    67.5
          ***
                                                 44
    60.0
    52.5
                                                **
    45.0
                                                **
    37.5
    30.0
    22.5
    15.0
                               ***
     7.5
         5:00
                       10:00
                                15:00
                                                                1a
TIME PLOT OF AVERAGE NUMBER OF GO JOBS FOR WEEK OF 10/6/74
x axis labeled in units of hr:min, xunit = 30 minutes
                                                                2
     5,5
     5,0
     4.5
     4.0
     3,5
     3.0
     2,5
     2.0
     1,5
     1.0
     0.5
     0.0
        0:00
                5:00
                       10:00 15:00
                                       20:00
                                                                2a
TIME PLOT OF AVERAGE PER CENT OF CPU TIME CHARGED TO USER ACCOUNTS
FOR WEEK OF 10/6/74
x axis labeled in units of hr:min, xunit = 30 minutes
                                                                3
    61.6
                             *
    53.9
    46,2
    38,5
    30,8
    23,1
    15.4
    7.7
     0.0 ##
        ***********************************
       0:00 5:00 10:00 15:00 20:00
                                                               3a
```

5

6

```
TIME PLOT OF AVERAGE NUMBER OF USERS FOR WEEK OF 10/6/74
x axis labeled in units of hr:min, xunit = 30 minutes
     16
     15
     14
     13
     12
     11
     10
      9
      8
      7
      6
      5
      4
       0:00
            5:00 10:00
                             15:00 20:00
                                                           44
TIME PLOT OF AVERAGE NUMBER OF NETWORK USERS FOR WEEK OF 10/6/74
x axis labeled in units of hr:min, xunit = 30 minutes
      6
      5
      3
       0:00 5:00 10:00
                             15100 20100
                                                           5a
TIME PLOT OF AVERAGE PER CENT OF SYSTEM USED IN OLDDNLS (?) FOR WEEK
OF 10/6/74
x axis labeled in units of hr:min, xunit = 30 minutes
    8.0
    6.0
    4.0
    2.0
    0.0 ****
       0:00
              5:00 10:00
                            15:00 20:00
                                                           6a
```

(J24359) 30=OCT=74 05:50;;; Title: Author(s): Susan R. Lee/SRL;
Distribution: /JCN([INFO=ONLY]) RWW([INFO=ONLY]) DCE([INFO=ONLY]) JCE([INFO=ONLY]) DVN([INFO=ONLY]) JAKE([INFO=ONLY]) DSM([INFO=ONLY]) CSM([INFO=ONLY]) CSM([INFO=ONLY]) RLL([INFO=ONLY]) Sub=Collections: SRI=ARC; Clerk: SRL;
Origin: < LEE, WEEK10/6GRAPHS.NLS;1, >, 30=OCT=74 05:49 SRL;;;;<<LEE>WEEK10/6GRAPHS.NLS;1, 30=OCT=74 05:21 SRL; ####;

```
TIME PLOT OF AVERAGE IDLE TIME FOR WEEK OF 10/13/74
x axis labeled in units of hr:min, xunit = 30 minutes
    82.5
         荣荣축资款款款
    75.0
    67.5
                                             **
    60.0
                                            **
    52,5
    45.0
    37.5
    30.0 *********
    22.5 ***********
    15.0 ***********
    7.5 *************
        5:00 10:00 15:00 20:00
       0:00
                                                           1a
TIME PLOT OF AVERAGE NUMBER OF GO JOBS FOR WEEK OF 10/13/74
x axis labeled in units of hr:min, xunit = 30 minutes
     5.0
     4.5
                        44
     4.0
     3.5
    3.0
    2,5
    2.0
    1,5
    1.0
    0.5
    0.0 ****
        5:00 10:00 15:00 20:00
       0:00
                                                           2a
TIME PLOT OF AVERAGE PER CENT OF CPU TIME CHARGED TO USER ACCOUNTS
FOR WEEK OF 10/13/74
x axis labeled in units of hr:min, xunit = 30 minutes
    61.6
    53.9
                        ***
    46.2
   38.5
    30.8
    23.1
    15.4
    7.7
```

你你你你你你你你你你你你你你你你你你你你你你你你你你你你

0.0 ****

```
*************************************
                                                      38
      0:00 5:00 10:00 15:00 20:00
TIME PLOT OF AVERAGE NUMBER OF USERS FOR WEEK OF 10/13/74
x axis labeled in units of hramin, xunit = 30 minutes
     15
     14
     13
     12
     11
     10
      9
      8
      5
      4
      3
       15:00
            5:00
                    10100
TIME PLOT OF AVERAGE NUMBER OF NETWORK USERS FOR WEEK OF 10/13/74
x axis labeled in units of hr:min, xunit = 30 minutes
      3
      2
       5:00 10:00 15:00
                                   20:00
      0:00
                                                      54
TIME PLOT OF AVERAGE PER CENT OF SYSTEM USED IN OLDDNLS (?) FOR WEEK
x axis labeled in units of hr:min, xunit = 30 minutes
   10.0
    8.0
    6.0
    4.0
    2.0 *
       0:00 5:00 10:00 15:00 20:00
                                                      6a
```

superwatch Average Graphs for Week of 10/13/74

(J24360) 30-OCT-74 05:59;;; Title: Author(s): Susan R. Lee/SRL;
Distribution: /JCN([INFO-ONLY]) RWW([INFO-ONLY]) DCE([INFO-ONLY]) JCE([INFO-ONLY]) DVN([INFO-ONLY]) JAKE([INFO-ONLY]) DSM([INFO-ONLY]) CSM([INFO-ONLY])

| RLL([INFO-ONLY]); Sub-Collections: SRI-ARC; Clerk: SRL;
| Origin: < Lee, Week10/13GRAPHs.NLs:1, >, 30-OCT-74 05:56 SRL;;;; < Lee>Week10/13GRAPHs.NLs:1, 29-OCT-74 17:26 SRL; ####;

DVN 30-0CT-74 08:54 24361

Watching

How nice to know you are still watching us from afar....I have deleted my citation to your message that gave the DCA publication scheudle and the online journal catalogs are a shambles, could you send it to me again?...There is some chance I will be in Washington next week for the Demo, but I think the odds are against it.

1

Watching

(J24361) 30=CCT=74 08:54;;; Title: (Expedite) (Unrecorded)
Title: Author(s): Dirk H. Van Nouhuys/DVN; Distribution: /SRL([ACTION]); Sub=Collections: SRI=ARC; Clerk: DVN;