A Brief Guide to the NLS Split, or, Making a Mess of NLS

(J24063) 26=SEP=74 11:43;;;; Title: Author(s): James E. (Jim) White/JEW; Distribution: /NPG([INFO=ONLY]) JBP([INFO=ONLY]) RWW([INFO=ONLY]); Sub=Collections: SRI=ARC NPG; Clerk: JEW; Origin: < WHITE, SPLITPLAN.NLS;4, >, 26=SEP=74 11:38 JEW;;;;###;

The following is my list of the tasks associated with splitting NLS into frontend (FE) and backend (BE). Being somewhat off the top of my head, it may be incomplete, and if so, I (and I assume we all) would like to know about it.

I consider myself entirely responsible for doing I) below; indeed, I am now in the coding stage. Items II) through IV), however, I do not consider my responsibility, although I expect to be involved in some of them.

2

3

1

I. PROVIDE A REMOTE PROCEDURE CALL MECHANISM

3 a

Needs: NLS procedures for:

a) creating and deleting the BE fork.

3a1

b) calling BE procedures from the FE (either in series or parllel with FE processing) and vice versa, along with the implied machinery for transferring arguments and results, propagating SIGNALs, and so forth.

3a2

c) manipulating BE globals from the FE and vice versa.

3a3

d) controlling access to procedures and globals in b) and c) above.

3a4

Design:

35

a) A Procedure Call Protocol (PCP) (23904,) by which the FE programming environment is logically extended to embrace code within the BE, and vice versa.

3b1

362

b) A format PCPFRK (23941,) in which PCP primitives will be encoded for the case in which the BE runs in an inferior fork.

3b3

c) A set of procedures I've called the PCP Support Package (PCPSUP) (23905,), implemented within both the FE and BE, which augments PCP by:

0.00

i) permitting access to groups or "packages" of procedures in the BE (or FE) to be independently controlled (on the basis of user name, or any other criteria).

3b3a

ii) allowing remote globals to be read or written, temporary globals to be created and deleted, and so forth.

3b3b

d) A set of procedures I've called the Environmental Control Package (EVMCTL (23906,), implemented within the FE (and possibly the BE), which generalizes PCP by permitting more than

two forks (or processes) to be interconnected. EVMCTL provides procedures for:	3b4
i) creating and deleting processes,	3b4a
ii) calling procedures in other processes.	3b4b
iii) linking, for purposes of procedure calling, two, non-adjacent processes (e.g. BLAH's superior with one of BLAH's inferior).	3b4c
NOTE: It's this package alone which permits large multi-process systems to be created using PCP, systems that I've called Multi-Environment Software Systems (or MESSes). I suggest that the acronym "MESS" be largely dropped, in technical discussions at least, and that the terms "PCP", "EVMCTL", and so forth be substituted where appropriate.	365
e) A set of procedures I've called the Low-Level Debug Package (LLDBUG) (23907,), which extends the DDT environment to include the BE, permitting it to be debugged from the FE.	366
Implementation:	3 c
I'm coding a) through d) now, for the two-fork case. The two-host case is a very simple extension (a couple of days of design, and a couple of days of coding), snce only the lowest-level code need be perturbed.	301
Side Benefits:	3 d
The design and implementation described above are intentionally more general than required for the NLS FE-BE split. They will also serve to interconnect:	3d1
1) the NSW FE, Works Manager, and Tools.	3d1a
2) NLS and the output Processor, or any other subsystem we might choose to implement in this fasion, thus separating it from the rest of NLS.	3d1b
3) NLS and any non=L10 process we might wish to give it access to.	3d1c
. SELECT FE AND BE PROCEDURES	4

1) Identify the BE procedures which must be callable from the FE, and vice versa. We may (or may not) wish to systematize our

II.

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e dec	King	add.	t	SWh	he	(a	ir	1 0 1	101	hog	eeh	SS	D D	000	01	s e	Dry	500	1 5		(a	1:	e 1	0 0 0	ot ny ir	,)	n	an	ne	s	10	0	r	t	ha	e	P	a	ck ed	a	ge	S	e	ac	h	d			
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fo et ik	rse		S L	8	m 1 e	PV	100	9	1	Cua	2 n g	39	1	5 t	P × 8	e b	he	ai	Th	i	BET	01	se		ti ti	emo	e m	ta	15	k W!	ni (holi	in h	11	S	d	ne	1 4 1	er	t)	er	1	SI	t i	0	a)	11	y	
	S							,	W	h	0	1	a	s	1	. 0	,	1	ne	0	r	p	or	a	te		В	E	D	r	00	e	di	11	e	S	1	n	to		tr	e	1:	r	C	01	rc	0	
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	1	ni r:	L V	1	tado	h	93	Lz	p	0 1	W:	n v i	5 0	y e	5 1	e h	m	S	I	e	e n	g	8	W	e	a	rem	e	n	1	w m i	it	ni	7 6	2 5	p	0 5	1	t i	0	n	t	0 0	thic	e	e	5		
								۱								20)	1	ne	0	r	p	or	a	te	9	BI	E	D	r	00	e	di	11	e	s	i	n	te		tł	1e		FE					
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I) above.

execution function	rpreter (I assume) to permit and call remote s.	5 b
3) Logically parti	tion the system into FE and BE modules:	5 c
i) duplicate p	rocedures used heavily by both FE and BE.	501
	sary, eliminate the implicit transission of ts via globals.	5c2
4) Generate the FE	and BE SAV files.	5 d
IV. EMBELLISH L10		6
1) Provide remote	procedure call constructs in L10	68
done, I think i	s last because, athough I believe it should be t should wait until we have a better feel for ut at some point, we ought to be able to write like:	6ai
delgrp (star	t, end) @ backend;	6ala
	to drop out the appropriate local procedure r now, we will have to code explicitly.	6a2
2) Generalize the	L10 signal mechanisms	6b
constructs defi	es suggested in (24004,), to make the signal ned in PCP fully implementable in L10. Like 1) m is not crucial, so it sits at the bottom of	6b1

(J24064) 26-SEP=74 12:27;;; Title: Author(s): Jeanne M. Beck/JMB; Distribution: /KIRK([ACTION]); Sub-Collections: SRI-ARC; Clerk: JMB;

Do you know the story on the change to the Insert (sendmail form) command in Base? It now puts 23 commands in the list instead of 6 as it used to, which lessens its usefulness in this because of the time it takes to edit the useless ones (like RECORDING INSTRUCTION:) out of the one statement. Who does one complain to about what commands do these days? So please change the branch at <documentation, xhelp,insert |sendmail> to reflect the new results of this monstrosity. Yours in sympathy, Jeanne

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Trip Report - Arpanet Book Discussion

(J24066) 26-SEP-74 14:07;;; Title: Author(s): ADRIAN C.
MCGINNIS/ACM; Distribution: /SRI-ARC([ACTION]); Sub-Collections:
SRI-ARC; Clerk: ACM; Origin: < ADRIAN, BOOK, NLS;6, >, 26-SEP-74
13:19 ACM;;;;####;

This meeting was held in Washington D.C., sept. 9=11, to discuss the preparation, format, and content of a book ARPA wishes to publish outlining the management and technology, progress, and problems of the ARPANET from its beginning until the present. The purpose of the book is not only to bring together a description of what was done, but also to pinpoint problems encountered and lessons learned.

The meeting was attended by:

Craig Fields, Bob Kahn, JCR Licklider - ARPA

Bert Sutherland, Dave Walden, Frank Heart, Jerry Burchfiel - BBN

Howard Frank - Network Analysis Corp.

Keith Uncapher = USC=ISI

Leonard Kleinrock = USC=NMC

Joe Markowitz and Sue B ... - MIT

Cracraft = 14=TENEX

Tom Marrill - CCA

Vint Cerf = Stanford

Peter Kirstein - Univ. College, London

Paul Baran - Cabledata Associates

Jacques Vallee - IFF

Bob Metcalfe - Xerox

Peggy Karp, Jake Feinler, Jon Postel - SRI

Jean Iseli - MITRE

Most of the first day was spent attempting to decide on a format, the size of the book, the audience, whether the book should have an editor, and if so, who. In this write-up I will just briefly hit the highlights of the meeting. Craig Fields will issue the final book format decisions soon to all the attendees, and these will be journalized upon receipt. Three major areas were discussed during this meeting. They were:

A. EDITORSHIP

21

2a

26

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2d

2e

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2h

2k

21

2 m

2n

should the book have a single editor, or not? There were three major suggestions (harangues?) over this that fell roughly into the following categories:

3a1

1. = Editor of good writing reputation and probably good technological background who had not been previously involved with the Arpanet. Suggestions were names such as: Isaac Asimov, etc. (I felt Rex Reed might be a better choice). The idea was that this person would be a good writer, and would therefore hopefully make the work readable. He/she would also have a fresh, unbiased view of the procedures and progress of the Arpanet.

3a1a

2. = Editor of good writing reputation and good technological background who has been intimately involved with the Arpanet from the early days. This person would receive material from the various Arpanet contributors, but would be free to organize and edit the material to suit his own concept of what was usable. Suggestions were: Larry Roberts (who apparently isn't interested), and Bob Kahn. Further choices were deferred due to the fact that several of the people attending the meeting were possible editors, and no one seemed to want to pick one over another under the circumstances.

3a1b

3. - An editor who is primarily a technical editor who could pull together chapters submitted by selected contributors and make them readable and consistent with a chosen format, but who would not appreciably alter the technological contents or make value judgements about the content.

3aic

4. - Several editors chosen by ARPA.

3ald

A decision was finally made to let ARPA make the decision. This will be forthcoming soon.

3a2

B. FORMAT

3b

some thought the book should be primarily a textbook, others thought it should be an exhaustive compendium or reference on all aspects of the Arpanet, and still others thought it should be a "how to" (or how not to) book. Suggestions for size ranged from a "highlight" = type book to a three = volume work containing one volume of overview, one volume of textbook material, and one volume of bibliography and selected papers. No final decision was made, but there seemed to be a partial concensus toward the three volume approach; however, the material will probably be condensed into one or two volumes. Again ARPA will decide.

3b1

The deadline for a draft of the chapters is Jan. 1, 1975.

3b2

C. CONTENT

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This task took up most of the meeting. There were many proposals and counter proposals and much condensing and defining. (One wag pointed out that we were Just about agreed on how many angels could dance on the spine of a book). Again no final decision was made, but a reasonable outline was beginning to take shape which Fields and Licklider will further refine and make available to attendees.

3c1

ARC will be represented in the following manner: a chapter will be written about the NIC by Feinler with contributions from Watson and Kudlick. A description of NLS will be written by Engelbart, and a discussion of the utility management will be written by Norton. Jon Postel will be involved in writing the protocol chapter, also. I offered to compile the bibliography IF the NIC is the recipient of a copy of each paper. Otherwise we will make contributions to whomever is handling the bibliography.

3c2

NEW NLs Journal Delivery

(J24067) 26-SEP=74 15:26;1, >, 26-SEP=74 15:31 XXX;;; Title; Author(s): J. D. Hopper/JDH; Distribution: /HGL([INFO=ONLY]) CHI([INFO=ONLY]); Sub=Collections: SRI-ARC; Clerk; JDH;

NEW NLs Journal Delivery

Is this trial 5736 or is it really up?

(J24068) 26=SEP=74 16:39;1, >, 26=SEP=74 17:44 XXX ;;;; Title: Author(s): ADRIAN C. MCGINNIS/ACM; Distribution: /SRI=ARC([INFO=ONLY]); Sub=Collections: SRI=ARC; Clerk: ACM; WHOOPSI

Please disregard for action concerning HJOURNAL 24066. True author is JAKE, not ACM.

Bug in journal citations

(J24069) 26=SEP=74 16:41;1, >, 26=SEP=74 17:46 XXX;;; Title: Author(s): Kirk E, Kelley/KIRK; Distribution: /BUGS([ACTION]) RWW([INFO=ONLY]); Sub=Collections: SRI=ARC BUGS; Clerk; KIRK;

Bug in journal citations

Why did I get this link to a journal message, why doesn't the link work, and who is responsible for fixing it?

Bug in journal citations

JMB 26=SEP=74 11:54 24062
Re <24037,> Documenters meeting
Location: (JOURNAL, JRNL22, J24062:gw)
****Note: [ACTION] *****

NP for Move Edge command

Moving Edge to the margin should not delete the window, but should save it for later use,

NP for Move Edge command

Moving Edge to the margin should not delete the window, but should save it for later use.

Bug in Sendmail preassigned numbers

When you bug the DSEL for the number, its not clear when it puts it...or when. All these numbers were inserted at a different time and location than when I tried the command.

Bug in Sendmail preassigned numbers

Please release these Journal numbers for use == they were dumped into my file by WORK when I requested one preassigned number. This appears to be a bug.

1a

test

Reset viewspecs resets to system defaults and should reset to user defined defaults.

test

this is a test

finding out the correct syntax for his commands

there is a new subsystem in WORK called "SYNTAX GENERATOR". You should be able to figure it out and use it to generate the command syntax files that you need. You have to attach it first (EXECUTE PROGRAMS ATTACH SUBSYSTEM SYNTAX GENERATOR). there is also a new universal command "SYNTAX" == try it== you'll like 1t (i hope)

title test

test

KIRK 27-SEP=74 01:24 24077 Preliminary Proposal for handling user-programs in NLS-8

NLS=8.1 (ARC currently available userprograms 20-SEP=74)	1
address	1a
calculator	16
identification	10
jform3	1d
letter	10
message	11
mouse	19
sortalphabetic	in
sortnocase	11
sortrev	13
inseqh is part of running system	1k
letter	11
no change to subsystem	111
format, deldir, and showdir done as part of FORMAT user-program	1 m
suggestions for handling user-programs listed by Applications https://doi.org/10.1016/journal.23986. Codes in parens: Difficulty (a, b, c). Priority (1, 2, 3).	2
LETTER (works now, no change)	2 a
FORMAT, DELDIR, and SHOWDIR (work now, no change)	2b
part of FORMAT user-program	261
JFORM3: (a1) works now,	20
suggest change as the default journal format with some possible minor changes to avoid confusion with level indention, (Harvey?)	201
DELSP (a1)	2d
BASE: Delete Leading (spaces in) STRUCTURE (at) DESTINATION OK;	2d1

alternative implementation in PUBLISH user=subsystem	2d2
ADDRESS (b1) works now, suggest integration as	2 e
BASE: Insert Address (to follow) STRING (for ident:) CONTENT OK	201
possibile additions	2e2
BASE: Insert Address (to follow) STRUCTURE LEVELADJUST (for	
ident:) CONTENT OK: This command inserts the address as a statement.	2e2a
BASE: Insert Address (and phone?) Y/N (to follow) STRING (for ident:) CONTENT OK	2e2b
alternative implementations	2e3
BASE: Copy Address (to follow) STRING (for ident:) CONTENT	2e3a
MESSAGE (b1) works now, suggest integration as	2£
BASE: Copy/Move Message (file) OK/CONTENT (to follow) DESTINATION LEVELADJUST OK:	2f1
alternative implementations	2f2
BASE: Copy/move Sequential (file from) CONTENT (to follow) DESTINATION LEVELADJUST (using) SEQTYPE OK: SEQTYPE = One (<cr> ends statement) Two (or more <cr>s ends statement) [JUSTIFIED (source file)] Message (file format)</cr></cr>	
Assembler Assembeler/Heuristic/Justified/Message) OK	2f2a
(note: there is currently no Move Sequential command)	2£2a1
INSEQH (being re-implemented by Charles as)	29
"COPY" "SEQUENTIAL"	291
<"file from"> source _ LSEL(#"OLDFILELINK")	2g1a
<" to follow"> dest _ DSEL(#"STATEMENT")	2g1b
level _ LEVADJ	2910
<"using">	2g1d

("ONE" <" <cr> ends statement"></cr>	2g1d1
/ "TWO" <" <cr>s ends statement"> ["JUSTIFIED"]</cr>	29142
/ "ASSEMBLER")	29143
SENDMES (b2)	2h
SENDMAIL: Unrecorded Y/N/C/OK: C prompts for: Immediate ((sendmessage) distribution:) CONTENT OK:	2h1
Question: If the Distribution command was used as well, does the mail goes to those people as unrecorded or recorded nls files/messages?	2h1a
APPEND (c2)	21
BASE: Append Group/plex (at) DESTINATION (join with) CONTENT OK:	211
note: Append Branch should do the same thing that Append Statement now does (i.e., carry the substructure along.) except it would place the substructure after any substructure under the destination instead of before it. <feedback,fdbk,future></feedback,fdbk,future>	212
ADDTEXT (c2)	23
BASE: Insert Front/Back of STRUCTURE (at) DESTINATION CONTENT [FILTER] OK:	251
alternative or additional implementation	2 j 2
BASE: Substitute Back/Front [FILTER] (in) STRUCTURE (at) DESTINATION <new text=""> CONTENT OK:</new>	2j2a
maybe STRING/STRUCTURE instead of just STRUCTURE ??	252a1
TOC(b1), INDEX(c1), MAKEREF(C2), WORDCOUNT(a3):	2K
PUBLISH user=subsystem commands	2k1
Generate	2K1a
Table (of Contents)	2k1a1
Index	2k1a2
References	2k1a3

Count Words	2k1b
could easily be interfaced as BASE commands	2k2
SORTNOCASE, sortrev, sortalphabetic: (b2)	21
BASE: SORT STRUCTURE (at) DESTINATION SORT-ALT (finished?) Y/N/OK:	
SORT-ALT = OK: for default or current sort-Key userprogram	
CONTENT after Skip wants a content-pattern,	211
SUBFTPM, (ftpmsys), Load Remote (file)	2 m
(hopper has a user=subsystem)	2m1
should be implemented as the SITE field in ADDRESSES	2m2
DELNAME (a3)	2n
should remain as user program	2n1
SUBLIST (b3)	20
should remain as user program	201
NOTABS (c3) (doesn't work right in nls=7)	2p
should remain as user program	2p1
The NIC programs not listed here need more research and can be handled as a seperate issue.	29

am i at sri=arc?

i dont seem to be getting the journal items sent to sri-arc --jon,

< POSTEL, GLOSSARY.NLS;3, >, 26-SEP-74 16:00 JBP ;;;; ;;

A.1 Glossary

Abbreviations

AEN

another eightbit number

ALL

A host to host protocol command to allocate buffer space to the sending NCP in the receiving NCP.

ANTS

ARPA Network Terminal System

ARPA

Advanced Research Projects Agency of the Department of Defense

ARPANET

Advanced Research Projects Agency Computer Network

ASCII

American Standard Code for Information Interchange. The character encoding used in the network.

BBN

Bolt, Beranek, and Newman, Inc. Cambridge, Massachusetts.

BKY

The operating system used at Lawrence Berkeley Laboratories for the CDC 6600 computer.

CCBS

Center for Computer = based Behavorial Studies at University of California, Los Angeles.

CDC

Control Data Corporation

CLS

A host to host protocol command to close the connection.

DEC

Digital Equipment Corporation

DMS

Dynamic Modeling System, A host computer on the ARPANET at MIT.

EBCDIC

Extended Binary Coded Decimal Interchange Code. The character encoding used primarily by IBM computer systems.

FCP

File Control Program

FTP

File Transfer Protocol

IBM

International Business Machines

ICP

Initial Connection Protocol

IPC

interprocess communication

IMP

Interface Message Processor

LBL

Lawrence Berkeley Laboratory

MCP

The operating system for the Burroughs 6700.

MIT

Massachusetts Institute of Technology

Multics

Multiplexed Information and Computing Service, the operating system for the Honeywell 6180 computer designed and implemented at MIT's project MAC.

NCC

Network Control Center at BBN.

NCP

Network Control Program

NIC

Network Information Center at the Augumentation Research Center of Stanford Research Institute, Menlo Park, California.

OS/MVT

An IBM operating system for the 360 series of computers.

PDP

Programmed Digital Processor

RAND

The RAND Corporation

RFNM

Ready For Next Message

RFC

request for connection

RTS

Receiver to Sender request for connection. A host to host protocol command.

SDC

System Development Corporation

STR

Sender to Receiver request for connection, A host to host protocol command.

TCP

Terminal Control Program

TENEX

The operating system designed and implemented by BBN for the DEC PDP 10 computer.

TIP

Terminal Interface Processor

UCLA

University of California, Los Angeles

UCSB

University of California, Santa Barbara

UCSD

University of California, San Diego

UI

University of Illinois

VM

An IBM operating system for the 370 series of computers.

Terms

another eightbit number
The user program specified portion of the socket number.

ARPA Network Terminal System

A particular small host system designed to interface a wide variety of terminals and peripherals to the ARPA network. This system was designed and implemented by the Center for Advanced Computation at the University of Illinois. The system operates on a DEC PDP11 computer.

connection

The form of interprocess communication provided to the user level processes by the NCPs in the host computers. A connection is a logical simplex stream of data from one port of one process to another port of another process in the network.

control message

A message (of the regular type) that contains host to host commands.

File Control Program

That module in the operating system that controls the access to files by the user processes.

File Transfer Protocol

The protocol that specifies the communication interaction required to move blocks of data (files) between host computers in the network. full duplex

A channel in which data can flow in both directions simultaneously.

half duplex

A channel in which data can flow in both directions, but may only flow in one direction at a time.

header

The control information at the begining of a packet.

host

A computer attached to an IMP. A host does not necessarily offer services to other computers in the network.

Initial Connection Protocol

The sequence of actions taken by user level programs to establish a pair of connections between a user program and a service program.

Interface Message Processor

The packet routing computers which are the nodes of the ARPA network. An IMP is connected to between 1 and 5 other IMPs and to between 0 and 4 hosts. No more than 7 total IMPs and hosts can be connected.

interprocess communication

The facility for one process to communicate with another process.

leader

The first 32 bits of a message, containing address and control information. The most important fields in the leader are: the message type, the link number, and the host address.

link number
A parameter in the leader that selects a logical communication channel between the source and destination hosts.

message

The unit of transmission between a host and an IMP, up to 8096 bits.

Network Control program

The program module added to the operating system that interfaces the user processes to the IMP and controls the communication between hosts by implementing the host to host protocol.

packet

The unit of transmission between IMPs, up to 1008 bits.

port

The input or output identifier associated with a particular data stream of a process. For example

a Fortran logical unit number or a data set reference number, or an assembly languague data control block.

prefix

A 40 bit block immeadiately following the leader and containing the byte size and number of bytes of following text.

process

A program in execution with its associated address space, registers and location counter, protocols

The rules of behavior, in particular, the allowed formats and sequences of communication between two processes.

regular message

A message from the host to the IMP or from the IMP to the host that is the normal data carrying type, when following the host to host protocol a regular message may carry either a set of control messages or a users data.

request for connection

Either of the host to host protocol commands STR or RTS.

Ready For Next Message

A message from the IMP to the host indicating that the previously sent message on the same link number as this RFNM was received by the destination IMP and has begun transmission into the destination host.

socket

The terminus of a connection. The network wide name of an input or output port associated with a process.

Telnet

The protocol (or the programs that implement it) that specifies the communication interaction such that a user on one system gains access to the services of a second system as if he were a local user of the second system.

Terminal Interface Processor
An extension of the IMP to allow a variety of
terminals to access the ARPA network. The TIP
contains the NCP and User-Telnet programs as
well as the terminal handling code in the same
processor as the IMP. In addition there is a BBN
constructed multi-line controller for up to 63

simplex

terminal.

A channel in which data can flow in one direction only.
Terminal Control Program

The program module in the operating system that controls the flow of data between the interactive terminals and the user processes.

virtual
Being something in effect, but not in
actuallity. For example a virtual memory might
be one that a user process accesses as if it
were a large linear core resident set of memory
words, when in actuallity the memory is managed
by the operating system using paging and maping
such that only a small portion of the users set
of memory words are in core at any particular
time.

comment on substitute command

The substitute command is still backwards. Every other editor i have used expects the substitute command to go old crap for new crap. this i all so very natural since the old crap is usually sitting there staring at you, and the new crap is yet to be composed. --jon.

sendmail vs newuser

as a new user of new nls and a new user of display nls, but a old user of this, i found the simple approach to sending a journal message very frustrating in particular starting the interogate command i could not send a message at all. --jon.

'n.

RWW 19-SEP-74 08:46 24082

Need for Simple Accounting on Pdp 11 Terminla access Machine

I got a phone call from Bart Cox who just signed the capital request for he PSP 11 (it now goes to Charlie Anderson). Bart cox reminded us that we must be able to account for the time on the machine to satisfy government auditing requirements. Question to Ken = Does ELF support any kind of simple accounting scheme. Question to Martin and Jim = How do we set up an algorith that simple but will satisfy the auditers? Thanks dick

Elephant Meeting

Contradictions have been alledged in our description of the elephant,	1
The review meeting will be at 3:00 in the project room.	2
A recursive redefinition plan should emerge.	3

JBP 27=SEP=74 17:24 24084

test

this is a test -- jon,

Preliminary Proposal for handling user-programs in NLS-8

see <hjournal, 23986,> <hjournal, 23992,> and <hjournal, 23999,> for background

h:	ggestions for handling user=programs listed by Applications journal, 23986,>. Codes in parens: Difficulty (a, b, c). iority (1, 2, 3).	1
	LETTER (works now, no change)	1a
	FORMAT, DELDIR, and SHOWDIR (work now, no change)	16
	part of FORMAT user=program	161
	JFORM3: (a1) works now,	10
	suggest change as the default journal format with some possible minor changes to avoid confusion with level indention, (Harvey?)	101
	DELSP (a1)	1d
	BASE: Delete Leading (spaces in) STRUCTURE (at) DESTINATION OK:	1d1
	alternative implementation in PUBLISH user-subsystem	1d2
	ADDRESS (b1) works now, suggest integration as	10
	BASE: Insert Address (to follow) STRING (for ident:) CONTENT OK	101
	possibile additions	1e2
	BASE: Insert Address (to follow) STRUCTURE LEVELADJUST (for ident:) CONTENT OK: This command inserts the address as a statement,	1e2a
	BASE: Insert Address (and phone?) Y/N (to follow) STRING (for ident:) CONTENT OK	1e2b
	alternative implementations	1e3
	BASE: Copy Address (to follow) STRING (for ident:) CONTENT	1e3a
	MESSAGE (b1) works now, suggest integration as	1 £
	BASE: Copy/Move Message (file) OK/CONTENT (to follow) DESTINATION LEVELADJUST OK:	1£1
	alternative implementations	1 £ 2

DESTINATION LEVELADJUST (using) SEQTYPE OK:

BASE: Copy/Move Sequential (file from) CONTENT (to follow)

SEGTYPE = One (<cr> ends statement) Two (or more <cr>s ends statement) [JUSTIFIED (source file)] Message (file format) Assembler Assembeler/Heuristic/Justified/Message)</cr></cr>	
OK ASSEMBLEL ASSEMBELEL/MEditscic/odscirred/Message	1f2a
(note: there is currently no Move Sequential command)	1f2a1
INSECH (being re-implemented by Charles as)	19
"COPY" "SEQUENTIAL"	191
<"file from"> source _ LSEL(#"OLDFILELINK")	1g1a
<" to follow"> dest - DSEL(#"STATEMENT")	1g1b
level - LEVADJ	1910
<"using">	1914
("ONE" <" <cr> ends statement"></cr>	19141
/ "TWO" <" <cr>s ends statement"> ["JUSTIFIED"]</cr>	19142
/ "ASSEMBLER")	191d3
SENDMES (b2)	1h
SENDMAIL: Unrecorded Y/N/C/OK: C prompts for: Immediate ((sendmessage) distribution:) CONTENT OK:	1h1
Question: If the Distribution command was used as well, does the mail goes to those people as unrecorded or recorded nls files/messages?	ihia
APPEND (c2)	11
BASE: Append Group/plex (at) DESTINATION (join with) CONTENT OK:	111
note: Append Branch should do the same thing that Append Statement now does (i.e., carry the substructure along.) except it would place the substructure after any substructure under	
the destination instead of before it, <feedback,fdbk,future></feedback,fdbk,future>	112
ADDTEXT (c2)	11

BASE: Insert Front/Back of STRUCTURE (at) DESTINATION CONTENT [FILTER] OK:	111
alternative or additional implementation	112
BASE: Substitute Back/Front [FILTER] (in) STRUCTURE (at) DESTINATION <new text=""> CONTENT OK:</new>	112a
maybe STRING/STRUCTURE instead of just STRUCTURE ??	1 1 2 a 1
TOC(b1), INDEX(c1), MAKEREF(c2), WORDCOUNT(a3):	1k
PUBLISH user-subsystem commands	1k1
Generate	1k1a
Table (of Contents)	1kla1
Index	1k1a2
References	1k1a3
Count Words	1K1b
Could easily be interfaced as BASE commands	1k2
SORTNOCASE, sortrev, sortalphabetic: (b2)	11
BASE: SORT STRUCTURE (at) DESTINATION SORT-ALT (finished?) Y/N/OK: SORT-ALT = DK: ! for default or current sort-key userprogram ! Ignore (case) Reverse	
Skip CONTENT CONTENT after Skip wants a content-pattern,	111
SUBFTPM, (ftpmsys), Load Remote (file)	1 m
(hopper has a user=subsystem)	1 m 1
should be implemented as the SITE field in ADDRESSES	1 m 2
DELNAME (a3)	in
should remain as user program	ini
SUBLIST (b3)	10
should remain as user program	101

KIRK 27=SEP=74 21:47 24085 Preliminary Proposal for handling user-programs in NLS=8

NOTABS (c3) (doesn't work right in nls=7)	1p
should remain as user program	1p1
The NIC programs not listed here need more research and can be handled as a seperate issue.	2
NLS=8.1 (ARC currently available userprograms 20=SEP=74)	3
address	3 a
calculator	3 b
identification	30
jform3	3 d
letter	3 e
Message	3 £
mouse	3 g
sortalphabetic	3h
sortnocase	31
sortrey	35
inseqh is part of running system	3 K
letter	31
no change to subsystem	311
format, deldir, and showdir done as part of FORMAT user-program	3 m

PROG Run Tenex (subsystem) command bug

Always says "Remote File Manipulation not Implemented Yet." Also, creates a horrendus automatic syntax since it contains queries all answered with commandwords Yes or No. (Should be represented once as ANSWER or Y/N as in other commands). Could you forward this to the right person?

Syntax could be better

I think we made a big mistake when we decided to describe the syntax in terms of how you specify something (CONTENT, SOURCE, DESTINATION) instead of what you need to specify (STATEMENT, CHRACTER, etc.) when we decided we didn't have room to put both. I'm journalizing this for the record in hopes that it can be rectified someday.

KIRK 28=SEP=74 15:55 24088

Set Temporary and Reset Temporary should both be second level.

Charles, thanks for the work you've done on Temporary Modifications. It looks like it may become a completely useable feature for the first time... (seems there always was a bug or two with it). From the user's point of view, it would be better if Reset as Well as Set Temporary was also a second level command. I notice there is no Set Tty window to go with Reset Tty window and there is no Reset Tenex to go with the Set Tenex command. Has the Set-Reset ordered pair convention been dropped for a reason, or was it accidental? If it is accidental, I suggest re-establishing it by the proper modifications. In addition, there should of course be a Show for each set and reset ordered pair...? This convention also appears to have gone by the wayside recently...

KIRK 28=SEP=74 17:59 24089

If it hasn't been done, don't put it in the done branch!!!

I moved some bugs that were in the done branch of mods back to the bugs branch because they hadn't been done. They were all HELP software items. There were other bugs in the done branch that had not been done. They had the message "NOT REPRODUCEABLE" under them (The discoverers of these bugs were not consulted and I just reproduced one of them). The discoverer of a bug should be consulted to make sure it can't be reproduced before it is marked "NOT REPRODUCEABLE". Please note: items that are not done because they have been rejected should not be moved to the done branch. They should be moved to the Rejected branch in Feedback, FDBK,. If that is too much trouble move them below a line in mods. Please don't put items that have not been done in the done branch.

test

this is a test of the new nis send mail system to see if this message will arrive to me by netmail.

Help bug in WORK.

Typing the word "searching" in the first iteration of the Help command in the editor finds the word but does not display it's substructure. Coming down to the same item via menu numbers works fine (i.e., the substructure is menued).

(author) Journal documents authored

ACM 26=SEP=74 16:39 24068 Message: Please disregard for action concerning HJOURNAL 24066.

True author is JAKE, not ACM. *****Note: Author Copy****

WHOOPS!

ACM 26-SEP-74 14:07 24066 Trip Report - Arpanet Book Discussion Location: (HJOURNAL, 24066, 1:W) *****Note: Author Copy****

(Journal) Journal documents (most recent first)

DIA 26-SEP-74 09:23 24060 New (Experimental) version of L10 Compiler Location: (HJOURNAL, 24060, 1:w) *****Note: [INFO=ONLY] ****

EKM HGL CHI RWW 25=SEP=74 16:57 24056 NLS Task Shopping List for NSW Location: (HJOURNAL, 24056, 1:W) *****Note: [INFO=ONLY] ****

JAKE 25=SEP=74 16:16 24055 A Plea and a Proposal Location: (HJOURNAL, 24055, 1:W) *****Note: [ACTION] ****

FDBK 25=SEP=74 14:16 24054 User Feedback Decisions leading to NLS=8.1 Message: <HJOURNAL, 24051,> contains the status of user feedback decisions for NLS-8.1. It is over 100 pages long, we advise you NOT to print it. Read it online. For the new features and bug fixes, see the Documented branch, for those suggestions that have been rejected, see the Rejected branch. The items scheduled to be done in the next version are in <NLS, MODS>. Those items which remain as Needs & Possibilities are in <feedback,fdbk,future>. *****Note: [INFO=DNLY] ****

JAKE 25 = SEP = 74 12:06 24053 ARPA Book Chapter Outline

1

1a

15

2

2a

26

20

Trip Report - Future Management and Programs of the Arpanet

Location: (HJOURNAL, 24053, 1:w) *****Note: [INFO-ONLY] ****

2e

FDBK 24=SEP=74 23:37 24051
User Feedback Decisions leading to NLS=8.1
Location: (HJOURNAL, 24051, 1:w)
*****Note: [INFO=ONLY] *****

21

JAKE 24=SEP=74 20:59 24049
Contact Report: NIC Discussion with Craig Fields, ARPA IPTO
Location: (HJOURNAL, 24049, 1:w)
*****Note: [INFO=ONLY] *****

journal citation link doesn't work

Dave, the link I got in the citation for 24069 does not work. it was (JOURNAL, JRNL22, J24069:gw). == Charles.

test

test

DISPLAYS FOR NLS GRAPHICS CAPABILITY

MOTIVATION AND PROBLEM CLASSES FOR SELECTION DECISIONS

1a

A need has been expressed by NSW users to be able to incorporate simple line drawings with textual material for the purposes of illustration, documentation, and COM proofing. Examples of these are flow charts, simple graphs, organization charts, block diagrams, and so forth. To meet these needs at a reasonable Cost we propose the following approach:

1a1

Simple drawings

1a1a

The inclusion of a graphics capability within the NLS framework for diagrams and flowcharts would enhance the power of NLS as a tool in the NSW effort.

1ala1

The user could make or modify simple line drawings by using the mouse, keyset, keyboard, and the graphics display, in much the same way that users now create and modify NLS text files.

1a1a2

The user could insert/delete/move a line or entire figure and perhaps change the size of a figure or subfigure.

iala3

A graphics hardcopy unit could be included to provide for permanent copies of the line drawings and text shown on the graphics display.

1a1a4

For better quality output the edited file could be processed for CDM and viewed on the graphics terminal,

14145

Graphics input from other tools:

1aib

Here we would provide an interface for some standardly used graphics device (for example CALCOMP plotter) or perhaps to a to-be-developed NSW graphics protocol. This would allow a user to generate a graphical entity using some other tool and to bring that graphical entity into NLS and store it with some explanatory text. The tool generating the graphics would, for example generate CALCOMP plotter output, which would be stored in a file which would then be processed by NLS to produce the picture stored in an NLS file.

1a1b1

Flow-chart production

1alc

Here we need a new set of entities (builtin figures) that offer flow charting symbols, e.g. a diamond shape to

indicate a decision point, a special shape to indicate iaici printed output, etc. In addition to the standard set, the user should be able 1a1c2 to define new symbols. The user should be able to change the size of each occurence of a symbol, associate text with the symbols and manipulate connecting lines between symbols. 1alc3 DISCUSSION 16 The anticipated application of graphics indicates the choice of a relatively high linework capacity and low cost display, high line work capacity, we mean the ability to express relatively complex figures without flicker or jitter. These constraints dictate the use of the storage tube for several pragmatic reasons: 1b1 1) Minimum basic cost consistant with high linework capacity. The Tektronix 4012 can be purchased for less than \$6,000 and many facilities already own 4010 series units. 1bla 2) High reliability and servicability. Both Tektronix and DEC can service what they sell. Tektronix also has sound reputation for reliability and product quality, Realistically, service for virtually every other device listed is questionable. 1616 3) COM proofing capability is only available with the Tektrenixs 4014 series machine. Over 8000 characters can be displayed to create a full page of text, as well as unlimited linework for figures and special fonts. 1blc 4) Non-programmable. Software development and maintenance remains at the NLS level. A programmable terminal Will require software development and maintenance, Deadstart 1b1d facilities must be provided for RAM based devices. 162 Without eyestion the storage tube approach has difficulties, The brightness and contrast ratio of the storage tube, while not as good as most refreshed crts, is adequate if workspace illumination levels and glare are controlled. 1b2a

Shaping, dragging, rubber banding and other dynamic

2) Full screen update rate. The greatest limitation in the use of a storage tube is the lack of dynamic interaction.

procedures which can call upon the user to make intelligent

judgements, must be replaced by computation, heuristics, defaults, conventions and constraints, which must be built into the command system and learned by the user. 1b2b 10 SPECIFIC RECOMENDATION Based on the equipment descriptions in the last two sections 101 the following two approaches are recommended, TEXTRONICS 4014=1 \$10,195 each station plus \$4,295 for a single, multiplexed (shared) hardcopy unit. Basic software compatability with the 4010/4012. This approach will insure that new users can benefit from the system while more sophisticated users will have capability (though not speed) for more complex uses. This approach which utilizes both the storage tube display and the line processor provides a degree 102 of redundancy and modularity at each installation, An acceptable alternative is the IMLAC PDS=4, (\$23,100 16K basic plus \$5,875 for the sharable hardcopy unit. The additional cost of this configuration is offset somewhat by the cost of both the alpha=numeric display and line processor = about \$5,000) The following items (not standard IMLAC options) must be provided. 103 1) The bootstrap ROM for the machine must contain sufficient space to load the NLS driver from the PDP=11 frontend or the network. This will insure single button restart ability and eliminate the need for a console in many 103a installations. 2) PDS=4 specification must remain stable so that every 1c3b installation obtains a functionally identical machine. 3) The PDS=4 display processor must be able to interrupt the cpu independently from the 40 cycle sync display refresh 1030 interrupt. 104 And 1) Although NLs is in operation on IMLACS's, a rewrite of the system would be required for the inclusion of graphics. Both manpower and equipment support would be required during the development phase. (Estimate 4=6 man months) 1c4a

2) Maintenance experience with the IMLAC PDS=1 was not universally satisfactory. Many facilities have simply had to maintain their own machines. While the reliability of the machine is not unusually bad, service could be a problem

in some areas. The situation may have changed with the introduction of the PDS-4, but we have no direct experience at this time.

1c4b

In terms of capacity and cost, the Textronix 4014 provides the best solution consistant with the goals stated above. In terms of flexability and dynamic interaction, the IMLAC provides the best solution, but at the price of lower capacity, higher cost, and poorer image quality.

1e5

Finally the only certainty is that graphics hardware will improve in quality and decrease in price, It is essential that development proceed along the lines of file structure, interactive tools, and the understanding of user needs; rather than along specific device interface lines. In either case, we recommend that the selected unit be leased as a hedge against improving technology.

166

DISPLAY METHODS AND PERFORMANCE

id

Raster: Display quality independent of information density; however, cost rises with the square of the resolution. The practical limit for commercial raster graphics resolution is probably no greater than 1024 x 1024. Semiconductor technology will produce the greatest advances in raster graphics, not only in the reduction of cost, but also reliability and performace. The specific methods follow:

1d1

Vidicon Scan coversion: Essentially analog method, which has relatively high initial cost, high operational cost, method provides direct interface to extensive television technology, Graphics display device required to produce image for vidicon camera,

1d1a

Lithocon target tube storage: Single tube implementation of the crt/vidicon. Resolution to about 3000 lines claimed coupled with good tube life. Moderately high cost (\$7,500=\$10,000). Selective erase, gray scale, Zoom possible; however, the essentially analog nature of the device produces long term drifts.

1d1b

Alphanumeric character generator: Well worked out digital technology.

1410

Fixed font storage: Low cost with relatively high quality for characters only.

14161

Writable font storage: Strong possibilities for limited dynamic graphics. No known commercial units.

1d1c2

Plasma tubes: Promising new technowledgy; however, resolution is limited. PLATO terminal available for moderate cost or commercial DIGIVUE tube could be interfaced directly through a mini/micro processor.	1010
Bit map: Promising method employed in several commercial units. RAMTEK's MOS memory planes provides the greatest potential for the reduction of cost to moderate levels while retaining relatively high resolution. Color is most satisfactorily produced by this method.	idie
Dynamic methods: No state of the art methods exist; however, the potential is present for dynamic units whose cost is competitive with alphanumeric devices,	idif
Random: Wide cost variations, Wider performance variations. resolution to 4096 x 4096 practical.	1d2
Refreshed crt: Most practical device for dynamic graphics. Structure in the display lists provides a basis for relatively complex display organization. Information density dependent on display processor performance levels and refresh memory speed and size. Relatively extensive software development is required for all but a very few of the commercial units.	1d2a
Medium capacity units: These devices consist of essentially the IMLAC PDS=1/4 and the DEC GT40/42/44. Expenditures of \$20,000 to \$40,000 are necessary to provide much graphics capability.	1d2a1
High capacity units: Rather impressive units start at about \$30,000 and increase rapidly in cost as capacity increases.	1d2a2
Storage tubes: Several low cost and high information capacity units based on the storage tube are available. Vector writing rates are relatively slow with most units. Editing requires a 500 ms, erase pulse followed by a complete screen rewrite; however, a "write through" mode is	
available for the production of non-storing cursors.	1d2b
Mechanical: Various mechanical contact, electrostatic, and servo-controlled devices.	1d3
Raster printer/plotter: Graphical hardcopy devices with up to rather high resolution. Expensive,	1d3a
Plotter	1d3b

Low/medium performance units: Several inexpensive commercially available, some with serial interface capacity, (HEWLET=PACKARD)	units 1d3b1
High performance units: Extreme resolution, speed cost.	and 1d3b2
COMMERCIALLY AVAILABLE SYSTEMS (Contact ARC for additional information)	10
In conjunction with line processor	1e1
High performance, Limited dynamics, Storage tube implementation	lela
Lowest cost	1e1a1
TEKTRONIX 4012 (\$5,295 = hardcopy \$3,895)	lelala
1024 x 780 (8" x 6") 2590 characters per screen	
unlimited linework	ielalai
Moderate cost	1e1a2
TEKTRONIX 4014=1 (\$10,195 = hardcopy \$4,295)	1e1a2a
4096 x 4096 (15" x 11") 8512 characters per screen max unlimited line work	1e1a2a1
CONOGRAPHIC 10 (\$9,525 = hardcopy \$3,750)	1e1a2b
2048 x 1520 (8,3" x 6,5") 9000 characters per screen	
unlimited linework	1e1a2b1
COMPUTER 400 (\$7,000 = hardcopy price unknown)	1e1a2c
1024 x 1024 (8" x 6") 3400 caracters	
unlimited linework	1ela2c1
Difficulties	1e1a3
Poor contrast ratio for storage tubes.	1e1a3a
Cursor manipulation will almost certainly require	e a

modification to the line processor firmware and possibly a modification to the display,	1e1a3b
Poor full screen update performance both in the eratime and vector/character write speeds.	1e1a3c
High performance, Limited dynamics, Lithocon storage tube (NOTE: silicon target tube built also by RCA, Hughes, others?)	ieib
Moderate cost	1elb1
PRINCETON 801 (\$8,210 = hardcopy \$4,500)	ieibia
1024 x 1024 (10" x 10") 3698 characters unlimited linework selective erase	
hardware Zoom	ieibiai
Difficulties	1e1b2
Relatively poor image quality on units viewed by Al staff.	RC 1e1b2a
Questionable service arrangements.	1e1b2b
Moderate performance, Dynamic	10163
Moderate cost	1e1b3a
IDIGraf (\$11,025 = hardcopy \$6,500)	1e1b3a1
1024 x 1024 (10" x 10") 3000 characters flicker free or a mix of	
3000 line segmets of several specific types	1e1b3a1a
GX=100 (14,050 = hardcopy \$10,000)	1e1b3a2
(NOTE: plus up to 3 additional units for about 57,000 each. hardcopy device is a VERSATEC	out
printer)	1e1b3a2a
512 x 768 (tv monitor of any size) 4096 characters (more in bigger units) linework limited only by resolution	1e1b3a2b
s substitute for line processor	1e2

As substitute for line processor

Moderate performance, Dynamic, Programmable

1e2a

Moderate cost

1e2ai

DEC GT40 (\$13,400 8K = hardcopy price unknown) (mouse and keyset about \$2,500)

1e2a1a

1024 x 768 (9" x 6.75") 1200 characters flicker free (25usec each) (implies 16 lines of 72 characters) 1300 inches of vectors flicker free (limited drawing complexity) light pen, intensity, a PDP 11/10 cpu, blink, vector styles, italics, DL11 async serial interface, 256 word ROM (NOTE: mouse and keyset interface could be built from either standard DEC parts or a general purpose interface 1e2a1a1

IMLAC PDS=4 (\$15,900 8K = hardcopy \$5,875) (\$2,300 mouse and keyset interface) (additional 8K memory \$4,900) (programming console optional \$1,200) 1e2aib

2048 x 2048 (17" crt, 21" optional \$1,500) 4000 characters flicker free 2600 inches of vectors flicker free (moderate drawing complexity) async serial communication, blink, scale factor, intensity, 32 word ROM

1e2a1b1

Difficulties

1e2a2

Software development for the GT40 and IMLAC represents a rather sizable manpower investment in addition to the development of the rest of the system, Practically both the processors would need to duplicate the line processor software.

1e2a2a

Thus inaddition to the modification of NLS file structure for graphics, development of interactive tools, and display format control; display processor language processors would have to be developed as well as, the actual code for the processor.

1e2a2b

Both the GT40 and the IMLAC are rather limited in both 1e2a2c capacity and picture quality.

These developments might profitably be delayed for

RLB2 30-SEP-74 12:10 24096

DISPLAYS FOR NLS GRAPHICS CAPABILITY

possible implementation on a higher power display such as Eas picture system, ADAGE, VECTOR GENERAL etc. 1e2a2d

lost messages

thursday or friday i sent several messages (i thought) to fdbk and to jake, however, nothing showed up in my author branch, so either i cant figure out how to send a message or some messages got lost. ==jon.

WHAT IS A SIMPLE DRAWING?

In planning for the inclusion of a graphical capability in NIS, there exists an endless list of options and facilities which either could either be implemented, provided for in future expansions, or eliminated for lack of probable need. The list below attempts to catalog the classes of drawings to be considered for the first pass. Extensions, comments or exceptions are most welcome.

BLOCK DIAGRAMS
FLOWCHARTS
CIRCUIT DIAGRAMS (electric, hydraulic, pneumatic, pipe, duct, welding, others)

This class of drawings has at least the following properties:

Input is highly dependent on the interaction of the user. That is, users will be creating these drawings directly and on-line. Very few programs exist which take normal data structures and produce these diagrams. (for example take an LiO file and create a flowchart). On the other hand, these drawings can provide an input for analytical routines. (for example simulation models)

The user calls heavily on templates provided both by both public and private libraries.

Text is used in several ways:

Labels are used to identify templates and are essentially a part of the template.

Notes are added to the drawing which are associated with a particular incidence of a template.

Notes are added which are associated with the total drawing,

In addition to the use of templates, the user produces linework directly whose structure is best known to him during creation, but which he quickly forgets and which may possess no clear spacial organization.

2D PLOTTING CHARTS (BAR, PIE, OTHER) RULED TABLES

Properties:

1b1d

10

1c1

1

1a

16

151

1b1a

1616

1b1c

1b1c1

1b1c2

ible3

1d1c

while the user wants help in creating these interactively, he provides little linework input. Furthermore, the linework he does provide is drawn in a rather structured way, (for example points on a graph, percentages for a pie chart, values or relative levels for a barchart) The templates here are programs, not data as in the diagram case. Interactive generation of scales, bars etc are computed and displayed from parametric data provided by the 1c1a user. These diagrams are frequently computed without user icib interaction. Since these drawings are communication tools, text is selected both for its content and its spacial relation in 1010 the aesthetics of the display. 3D PLOTTING 1d REPRESENTATIONS OF 3D OBJECTS BY LINE DRAWINGS 1d1 Properties: The user requires sketching aids such as perspective guidelines. In addition, the quality of the finished product is a strong function of the artistic talent of the 1d1a user. 1d1b Linework may enter completely from another source, structure is difficult to use because lines in the drawing

are members of many subclasses dictated by the user as he goes. Moreover, membership in these subclasses changes from

time to time as the editing or creation task proceeds.

arpa net book draft glossary

< POSTEL, GLOSSARY, NLS; 3, >, 26-SEP-74 16:00 JBP ;;; ; ; ;

A.1 Glossary

Abbreviations

AEN

another eightbit number

ALL

A host to host protocol command to allocate buffer space to the sending NCP in the receiving NCP.

ANTS

ARPA Network Terminal System

ARPA

Advanced Research Projects Agency of the Department of Defense

ARPANET

Advanced Research Projects Agency Computer Network

ASCII

American Standard Code for Information Interchange, The character encoding used in the network.

BBN

Bolt, Beranek, and Newman, Inc. Cambridge, Massachusetts.

BKY

The operating system used at Lawrence Berkeley Laboratories for the CDC 6600 computer.

CCBS

Center for Computer = based Behavorial Studies at University of California, Los Angeles.

CDC

Control Data Corporation

CLS

A host to host protocol command to close the connection,

DEC

Digital Equipment Corporation

DMS

Dynamic Modeling System. A host computer on the ARPANET at MIT.

EBCDIC

Extended Binary Coded Decimal Interchange Code. The character encoding used primarily by IBM computer systems.

FCP

File Control Program

FTP

File Transfer Protocol

IBM International Business Machines ICP Initial Connection Protocol TPC interprocess communication IMP Interface Message Processor LBL Lawrence Berkeley Laboratory MCP The operating system for the Burroughs 6700. MIT Massachusetts Institute of Technology Multics Multiplexed Information and computing Service, the operating system for the Honeywell 6180 computer designed and implemented at MIT's project MAC. NCC Network Control Center at BBN. NCP Network Control Program NIC Network Information Center at the Augumentation Research Center of Stanford Research Institute, Menlo Park, California, OS/MVT An IBM operating system for the 360 series of computers. Programmed Digital Processor RAND The RAND Corporation RENM Ready For Next Message RFC request for connection RTS Receiver to Sender request for connection, A host to host protocol command. SDC System Development Corporation STR Sender to Receiver request for connection, A host to host protocol command.

Terminal Control Program

TENEX

The operating system designed and implemented by BBN for the DEC PDP 10 computer.

TIP

Terminal Interface Processor

UCLA

University of California, Los Angeles

UCSB

University of California, Santa Barbara

UCSD

University of California, San Diego

UI

University of Illinois

VM

An IBM operating system for the 370 series of computers.

Terms

another eightbit number

The user program specified portion of the socket number.

ARPA Network Terminal System

A particular small host system designed to interface a wide variety of terminals and peripherals to the ARPA network. This system was designed and implemented by the Center for Advanced Computation at the University of Illinois. The system operates on a DEC PDP11 computer.

connection

The form of interprocess communication provided to the user level processes by the NCPs in the host computers. A connection is a logical simplex stream of data from one port of one process to another port of another process in the network.

control message

A message (of the regular type) that contains host to host commands,

File Control Program

That module in the operating system that controls the access to files by the user processes.

File Transfer Protocol

The protocol that specifies the communication interaction required to move blocks of data (files) between host computers in the network. full duplex

A channel in which data can flow in both directions simultaneously.

half duplex

A channel in which data can flow in both directions, but may only flow in one direction at a time.

header

The control information at the begining of a packet.

host

A computer attached to an IMP. A host does not necessarily offer services to other computers in the network.

Initial Connection Protocol

The sequence of actions taken by user level
programs to establish a pair of connections
between a user program and a service program.

Interface Message Processor
The packet routing computers which are the nodes of the ARPA network. An IMP is connected to between 1 and 5 other IMPs and to between 0 and 4 hosts. No more than 7 total IMPs and hosts can be connected.

interprocess communication
The facility for one process to communicate with another process.

leader

The first 32 bits of a message, containing address and control information. The most important fields in the leader are: the message type, the link number, and the host address.

link number
A parameter in the leader that selects a logical communication channel between the source and destination hosts.

message

The unit of transmission between a host and an IMP, up to 8096 bits.

Network Control Program

The program module added to the operating system that interfaces the user processes to the IMP and controls the communication between hosts by implementing the host to host protocol.

packet

The unit of transmission between IMPs, up to 1008 bits.

port

The input or output identifier associated with a particular data stream of a process. For example

a Fortran logical unit number or a data set reference number, or an assembly languague data control block.

prefix

A 40 bit block immeadiately following the leader and containing the byte size and number of bytes of following text.

process

A program in execution with its associated address space, registers and location counter, protocols

The rules of behavior, in particular, the allowed formats and sequences of communication between two processes.

regular message

A message from the host to the IMP or from the IMP to the host that is the normal data carrying type. When following the host to host protocol a regular message may carry either a set of control messages or a users data.

request for connection

Either of the host to host, protocol commands STR or RTS.

Ready For Next Message

A message from the IMP to the host indicating that the previously sent message on the same link number as this RFNM was received by the destination IMP and has begun transmission into the destination host.

socket

The terminus of a connection. The network wide name of an input or output port associated with a process.

Telnet

The protocol (or the programs that implement it) that specifies the communication interaction such that a user on one system gains access to the services of a second system as if he were a local user of the second system.

Terminal Interface processor
An extension of the IMP to allow a variety of terminals to access the ARPA network. The TIP contains the NCP and User-Telnet programs as well as the terminal handling code in the same processor as the IMP. In addition there is a BBN constructed multi-line controller for up to 63 terminal.

simplex

Postel -- DRAFT -- Glossary -- DRAFT -- 1 OCT 74

A channel in which data can flow in one direction only.

Terminal Control Program

The program module in the operating system that controls the flow of data between the interactive terminals and the user processes.

Being something in effect, but not in actuallity. For example a virtual memory might be one that a user process accesses as if it were a large linear core resident set of memory words, when in actuallity the memory is managed by the operating system using paging and maping such that only a small portion of the users set of memory words are in core at any particular time.

archve directory pe not online message.

What is the reason for the message 'file not online..." for the archive directory.pc file? I get it every time I do a show directory command, (guess the PC bit indicator is on but the PC file is not around.) Rob

1

KIRK 30-SEP-74 14:46 24102

Reset Name delimiters command was not changed.

should work off of user's specified default.

User Feedback Decisions leading to NLS=8.2

This document contains the status of user feedback decisions for NLS=8.2. It is over 50 pages long, we advise you NOT to print it. Read it online. For the new features and bug fixes, see the Documented branch. For those suggestions that have been rejected, see the Rejected branch. The items scheduled to be done in the next version are in <NLS,MODS,>. Those items which remain as Needs & Possibilities are in <FEEDBACK,FDBK,FUTURE>.

Introduction, Assumptions, Decision Algorithm

Assumptions and Goals:

1a

This file was created as part of an attempt to develop a methodology for collecting, storing, retrieving, analyzing, and making decisions concerning user feedback. This methodology has not been finalized but is described in its present form below.

1a1

It has generally been observed that a "suggestion box" Capability is needed to take advantage of user feedback that will allow the user to be easily informed of the status of his suggestion and to provide some scales of measurement for analysis and development decisions. The algorithm below is a way of augmenting this process with the specific intent of avoiding any extra burden on the already over-burdened people involved.

1a2

There are several steps in the following algorithm. These have been customized for the internal ARC feedback process concerning software development and documentation. However, they could be generalized for any development group that wishes to augment their feedback process.

1a3

Each Development group could have it's own feedback ident, sndmessage directory, decision file, and person responsible for coordinating the file. For example:

1a4

GROUP COORDINATOR IDENT(S) FILE

SNDMSG DIRECTORY

NLS DEVELOPMENT JOAN FDBK <FEEDBACK, FDBK, > FEEDBACK@SRI=ARC USER DEVELOPMENT JHB FEED <FEEDBACK, FEED, > FEEDBACK@OFFICE=1
NIC DEVELOPMENT JAKE NIC ?

1a5

If one group is sent an item which does not belong to that group, the feedback coordinator would be responsible for forwarding the item to the proper group.

146

A central Query Database could provide places from which any user could access the decision file to determine the status of his suggestion or to automatically express his opinion (via the Insert Opinion command described below) concerning a development thrust as depicted by a decision file.

1a7

An ANALYSIS team uses the decision files to analyze the feedback and make recommendations.

148

It is assumed that the process of organizing, analyzing, and keeping track of user feedback, bugs, needs, possibilities, and thinkpieces is important enough to the decision process in a living system to warrant the allocation of the necessary initial setup and continuing maintenance time.	1a9
Algorithm for the NLS Software Development And Utility User Development Feedback Mechanism:	16
USERS:	161
send comments through SNDMSG to FEEDBACK@SRI=ARC or send them through the Journal to the ident; FDBK,	1b1a
Utility members send comments to their architect, who will forward them, or send them directly to ident FEED or through SNDMSG to FEEDBACK@OFFICE=1. An architect can send things to be shared by other architects to KWAC.	1515
Review the newly updated Future Needs & Possibilities branch when sent (see last step). They send their opinions to FDBK, use the "Insert Link" command or use the Insert Opinion Command (see SOFTWARE below).	1b1c
FEEDBACK COURDINATOR periodically (weekly):	152
Forwards items that belong to other groups to the appropriate ident.	1b2a
Reviews the Unclassified Items branch in <feedback>FDBK and makes an attempt to move bugs, trivia, Needs and Possibilities, and implemented items to the appropriate places and consolidates duplications.</feedback>	1525
Prints out (or otherwise gives to DEVELOPMENT) the BUGS and ACCEPTED TASKS branches.	1b2c
NLS SOFTWARE DEVELOPMENT:	1b3
Once a week, or as provided by the Feedback Coordinator, reviews each item in the BUGS and ACCEPTED TASKS branches, and marks it as	1b3a
Future NP Done Rejects it or	
Assigns it to an implementer.	1b3a1
* Moves marked items to their assigned branches in FDBK,	1b3b

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item out of the branch into the Documented branch, and

updates the documentation if necessary, <See == documentation, manual,>.

1b5b

FEEDBACK COORDINATOR for each new version of NLS:

166

Places items in each development area in the Future Needs & Possibilities branch in a suggested order of execution as directed by ANALYSIS supported by analysis data and suggestions if any.

1b6a

whenever a new version of NLS comes up, the feedback coordinator journalizes the entire feedback file at this time for posterity and to save space by sendmailing a link to the updated Future Needs & Possibilities branch to interested users filling out the proper NLS version number in the following form:

1b6b

TITLE: User Feedback Decisions leading to NLS=8,2 AUTHOR(S): FDBK DISTRIBUTE FOR INFO=ONLY TO: SRI=ARC KWAC

COMMENT: This document contains the status of user feedback decisions for NLS=8.2. It is over 100 pages long, we advise you NOT to print it. Read it online. For the new features and bug fixes, see the Documented branch. For those suggestions that have been rejected, see the Rejected branch. The items scheduled to be done in the next version are in <NLS,MODS,>. Those items which remain as Needs & Possibilities are in <FEEDBACK,FDBK,FUTURE>.

15651

After journalization, items for that NLS version in the Executed and Rejected branches are dejeted and the link in the branch statement for these branches is updated to point to the newly journalized version,

1b6c

Very old Future NP items should be verified with their suporters to determine if they are still desired.

1b6d

SOFTWARE to augment this Algorithm:

1c

Insert Opinion B/A: (in favor?) Y/N: OK:
This command would be in the readmail subsystem and would allow
anyone to insert their initials in front of an item classified
in FDBK independent of whether they have write access. A minus
sign would preceed the idents of those that said "no".

101

The Insert Link command in Sendmail subsystem should be

implemented to allow anyone to use it on an item classified in FDBK independent of whether they have write access.

102

Complete Feature B/A (exactly as stated?) Y/N: OK: This command would move an item specified by an implementer from the implementer's "to do" branch to the appropriate catagory in the Implemented branch in FDBK to be documented.

Author: announcements of old versions of feedback 10

FDBK 25=SEP=74 14:16 24054 User Feedback Decisions leading to NLS=8.1 Message: <HJOURNAL, 24051,> contains the status of user feedback decisions for NLS-8.1. It is over 100 pages long, we advise you NOT to print it. Read it online, For the new features and bug fixes, see the Documented branch. For those suggestions that have been rejected, see the Rejected branch, The items scheduled to be done in the next version are in <NLS, MODS>. Those items which remain as Needs & Possibilities are in <feedback,fdbk,future>. *****Note: Author Copy****

FDBK 24=SEP=74 23:37 24051 User Feedback Decisions leading to NLS-8,1 Location: (HJOURNAL, 24051, 1:W) *****Note: Author Copy****

First journalized fdbk file == <24048,>

Unclassified Items

Journal (Sendmail and Message Items)

KIRK 30 m SEP m 74 14:46 24102 peset Name delimiters command was not changed, Message: Should work off of user's specified default, *****Note: [ACTION] ****

RLL 30=SEP=74 14:29 24100 archve directory pc not online message. Message: What is the reason for the message 'file not online ... " for the archive directory pc file? I get it every time I do a show directory command, (quess the PC bit indicator is on but the PC file is not around.) Rob ***** ACTION] ****

2a2

103

1d1

1d2

1d3

2a

2a1

User Feedback Decisions leading to NLS=8,2

JBP 30=SEP=74 13:38 24097
lost messages
Message: thursday or friday i sent several messages (i thought)
to fdbk and to jake, however, nothing showed up in my author
branch, so either i cant
figure out how to send a message or some messages got lost.
==jon.

*****Note: [ACTION] ****

2a3

KIRK 29=SEP=74 15:53 24091

Help bug in WORK.

Message: Typing the word "searching" in the first iteration of the Help command in the editor finds the word but does not display it's substructure. Coming down to the same item via menu numbers works fine (i.e., the substructure is menued).

*****Note: [ACTION] *****

2a4

KIRK 28-SEP=74 01:28 24087

Syntax could be better

Message: I think we made a big mistake when we decided to

describe the syntax in terms of how you specify something

(CONTENT, SOURCE, DESTINATION) instead of what you need to

specify (STATEMENT, CHRACTER, etc.) when we decided we didn't

have room to put both. I'm journalizing this for the record in

hopes that it can be rectified someday.

****Note: [INFO=ONLY] *****

285

KIRK 28=SEP=74 01:14 24086

PROG Run Tenex (subsystem) command bug

Message: Always says "Remote File Manipulation not Implemented

Yet." Also, creates a horrendus automatic syntax since it

contains queries all answered with commandwords yes or No.

(Should be represented once as ANSWER or Y/N as in other

commands). Could you forward this to the right person?

*****Note: [ACTION] *****

246

JHB Notes from Laura Gould Visit 24 June 1974 (Visitlog) 1-JuL=74 18:25 (GJOURNAL, 23503, 1:w) *****Note: [ACTION] *****

2b

Comments: These notes are colored by my interests, rough but readable, and hopefully contain those suggestions that will be useful in the development of NLS.

2b1

Notes from Laura Gould Meeting, 24 June 1974	252
Seminar included discussion of three areas concerning the CAI NLS Project, "Mixed Intivie Tutorial Sysytem to Aid Users of the On-Line System", Contracted by The Deputy for Command and Management Systems, ESD, USAF (Dr. Mayer).	2b2a
Overview of the Primer (see hardcopy);	2525
3 units (chapters) or "lessons" which are roughly estimated to take about 1.5 hours each;	26261
13 demo tasks run by the simulator;	25252
An Agenda program drives Scholar (not sure why that's significant);	26263
It has the question mark facility.	25254
Student tasks:	25255
Student performed tasks are evaluated == task evaluator which references to a preferred command sequence;	2b2b5a
Has hierarchy of tasks;	262656
references to kinds of questions the student asks, noting the knowledge necessary to answer;	262650
Question=answering system:	25256
Natural language == comfortable subset of English, uses dynamic parsing;	2b2b6a
Data Base which includes the structured facts encompassing 90% of the Primer (see listing of Data Base);	262666
Instantiation == will do natural language command that is discussed or introduced by the student. In general, the simulator, written in LISP, can perform 90% of the NLS commands.	2b2b6c
primer deals with NLS divided into subsystems, eg, file handling.	25257
Does not provide for different groups of students, no	

facility for skipping ahead over material that is known priori.	a 25258
Also "secretive", that is about not introducing commands, many of which represent short cuts, until later session could conceivably cause bad	
feelings "why didn't it show that before"	2b2b8a
Recognition issue:	2520
LEG advocates DEMAND, not fixed anticipatory as we do,	25201
because of the nmumonic value of typing up to a certain (comfortable) point, maybe even the whole command word, and the CONTROL of recognition (system doesn't take off	
and do something until the student is ready. **)	26202
Recommendations (in addition to the recognition mode):	2b2d
Explicitly terminate the L: prompt field with CA, whether Null or not;	r 2b2d1
Print file command instead of Print only. This would no move the CM but would print File from origin with basic default viewspecs (all, all, m);	2b2d2
Print Rest command was cited (CHI) as improvement over the current Print only, which doesn't have a noun field,	2b2d3
LEG's comment in the context of training and introducing NLS to new users: "Need subset of NLS."	2b2d4
NO C: prompt for the first 2 fields: "What else can you type after the the herald?" Also, F: for filename rathe thn T:,	
"Noise words more helpful than prompts",	25246
HELP data base not comprehendable, gave example of response to question about address. (Show Address.,.)	26247
JHB Questions	2b2e
Suggestions for explaining plex.	2b2e1
Reference booknecessary?? Yes, of course,	2b2e2
Ideas about test of NLs skill leveluser assessment.	2b2e3

208

Graduated levels of NLS with restricted command set availabilty ... first cut of this was given to her. Her response was favorable. She recommended the addition of markers and intoducing SIDs a little earlier in the 2b2e4 progression. Citations w/o suggestions 20 MDK A suggestion on NLS File Structure, with Application to Back-Links and Output Processor Directives 27-NOV-73 10:36 (IJOURNAL, 20574, 1:W) 201 KIRK Proposed system using two viewspecs to view warps (text specified by a link instead of link syntax). 13-JUL-73 20:46 (LJOURNAL, 17811, 1:w) 202 JEW Helping the User Keep Track of NLS Changes %NLS release date - date of last NLS load - file of Changes loaded automatically% 11-MAY-73 13:52 (IJOURNAL, 16376, 1:W) 203 JAKE Column manipulation 13=SEP=73 11:29 19059 204 JEW Proposal for a New Family of NLS Editing commands 23=0CT=73 12:49 (LJournal, 19830, 1:w) %justifying text string lengths% (19869,) (JBN) (17867,) (RLL) 205 KIRK Two suggestions for handling statement names in NLS superdocuments that must live in TENEX file structure. sinformaton preceding directory name in ORIGIN statement should be saved = forget 2nd part% 14=DEC=73 12:03 (MJOURNAL, 20903, 1:W) 206 RLL re: new text string = remarks %remarks that wouldn't appear when file is printed - alternate to 19557)% 15-NOV-73 08:27 (IJOURNAL, 20258, 1:W) 207

RLL margin note addition to nls %non-printing remarks%

8-OCT-73 18:09 (KJOURNAL, 19557, 1:W)

JCN Response to JI Proposed NLS Features: Meta nls and Output Nls (20028,) and (20027,) %supports% 3=NOV=73 09:01 (LJOURNAL, 20031, 1:w)

209

JI G[oto] M[eta] N[15] %repetitive tasks% 3=NOV=73 03:57 (LJOURNAL, 20028, 1:w)

2010

JI O(utput) N(1s) %to get rid of OP directives% 2=NOV=73 23:41 (LJOURNAL, 20027, 1:w)

100

Bugs: see <nls, mods, bugs>

2011

18 1

3

Praise

4

RLL 25=SEP=74 17:19 24058
Show directory command toooooo long.
Message: What Good is the show directory command if it take
Considerably longer to see ones directory using the NLS command
than using the tenex dir command? I have found myself going to
Tenex almost always because of the time. P.S. Thanks for
'paging' the directory. That makes the NLS command a bit better
for long directories (over the tenex command.)
*****Note: [ACTION] *****

48

Things that work impresssively well: show also. (I think this is the ideal structure for esacaping treeism), show <words> makes remarkably intelligent guesses, but it can also send you off into left field. The "O function is implemented beautifully, the "Q in the

middle of an editor command getting you help is quite impressive. (Especiaslly when it gets you some help that you want). The HELPs themselves are rather well written in most places that they are "finished". (RICART)

4b

KIRK 13-MAY-74 17:27 22983

Praise for the Feedback system

Message: I think the way Susan has been handling the NLS feedback
is excellent. This is something we should have had long ago and I
hope it becomes an established procedure for the future. It is
all too easy to take for granted necessities that aren't apparant
because they are working as they should. Let's not let this one
go by the wayside after the newness of the new NLS wears off.
*****Note: * action * *****

40

1=APR=74 1828=PDT BECK: Praise to Allah the HELP programmers Distribution: FEEDBACK Received at: 1=APR=74 18:28:21

4d

when I am busily constructing networks in the HELP Database (in New NLS) and want to check how my links work, I can immediately do a <control=q>, one Show command to get to the branch I was working on and then step through the menues I have just created just as a HELP user would, do a Quit, and PRESTO! I'm back where I was in Editor, editing the file again. Very Nice.

4d1

17=FEB=74 1700=PDT KELLEY: Praize for the way level indenting works in xnls

cc: irby Received 17=FEB=74 17:00:11

4e

I just used 21 levels with viewspecs 1 and B in <continuum, sri>
and they worked fine. When I turned off B, it worked fine
also. Things like this which seem primarily database oriented
and not document production or software production oriented are
rare so I really appreciate one when it comes along. It makes
me very happy. Thanks,
== Kirk

4e1

JMB 17=DEC=73 11:31 20929

new TNLS

Message: I like what Delete File does: ie, prints==
"Deleted Files are:
 (beck, dodad.nls;i,) and its partial copy"

Good Work!

4 £

KIRK From=To feature in the Move and Copy commands.

49

KIRK Ability to bug with the Insert command.

4h

KIRK All of the directory commands from NLs.

41

Rejected Suggestions > For rejected suggestions prior to September 24, 1974 see < HJOURNAL, 24051, documented>.

5

(3a3) =014= Repeating prompts is unnecessary in TNLS: cleanup TNLS echoing. i.e. Update C: File OK:/C C: Compact OK:, the two C'S are not necessary. (feedback,fdbk,02828)

5a

IGNORE

5a1

(4b2) =016= When using Jump to Link command with viewspecs

specified in the link, let viewspecs be manually set to SUPPLEMENT those in the link, (feedback,fdbk,03271)	5 b
for example, "jump (to) link SELECTION VIEWSPECS <confirm>"</confirm>	5b1
Moreover, implement this capability in ALL jump commands.	5b2
i.e. implement this in the J[ump to] R[eturn] and J[ump to] F[ile] R[eturn] commands.	5b3
IGNORE, not allowing viewspecs	5b4
KIRK 17=AUG=74 17:22 23816 exceed capacity bug Location: (GJOURNAL, 23816, 1:w) *****Note: [ĀCTION] *****	
www.nocc, [nclick] www.	5¢
-	501
Comments: Why is it that when ever I try to edit the statement with all the dashes, I get 'exceed capacity'. But when I refresh the screen, everything is cool, it did the edit.	5e2
NOT REPRODUCEABLE	503
KIRK 14=SEp=74 19:10 23973 Showing information that exceeds the view area Message: The last two times I've shown something, it has pushed the top line or so off the screen and then said Type CA for more CD to quit Typing CA shows nothing but the message "Type CA to continue". No more info. *****Note: [ACTION] *****	5d
KIRK Output Terminal < o> bug	
1=AUG=74 20:30 (GJOURNAL, 23716, 1:W) ****Note: [ACTION] *****	
	5 e
<pre><*o> after final confirmation in Output Terminal command in DNLS (TNLS too, I guess), causes the user to be hung at IO WAIT.</pre>	5e1
NOT REPEATABLE!!	502

DVN 21-AUG-74 12:30 23837

puaghter=in=law of Set Viewspecs (23832)

Location: (GJOURNAL, 23837, 1:w)
****Note: [ACTION] *****

5 £

The problem (bug?feature?) is that Reset All in the Useroptions System does not touch the Viewspecs On/Off status.

5 £ 1

RLL 25=SEP=74 17:19 24058
Show directory command tooooooo long.
Message: What good is the show directory command if it take
considerably longer to see ones directory using the NLS command
than using the tenex dir command? I have found myself going to
Tenex almost always because of the time. P.S. Thanks for
'paging' the directory. That makes the NLS command a bit better
for long directories (over the tenex command.)
*****Note: [ACTION] *****

5 9

Future needs & possibilities or need discussion, evaluation, > for items already completed, see -- documented>

6

Small NLS changes requested (not bugs)

6a

KIRK 26-FEB-74 16:32 22065 Some comments concerning the new dynamic addressing elements from a database building and document referencing point of view Location: (HJOURNAL, 22065, 1:w) ****Note: (Secondary Distribution Copy from XXX)*****

6a1

The new AE (address expression) is a very powerful tool. I don't think there is a single special character that is not used for some special function. It is important that these functions be specified unambiguously with the minimum number of characters so that the maximum number of functions can be accommodated.

6a1a

In this framework, I feel the following suggestions should be considered.

6a1b

First, I strongly oppose using Ampersand for Jump to Name External. Ampersand is a special character that should be available for use within a name. Conjunction is a valuable and necessary searching concept that is especially important for cutting down on duplicate names in large databases while retaining a mnemonic and easily typed identifier. The alternative to "&" is "=and=" which is so clumsy as to almost preclude it's use.

6aic

I suggest instead of using &, that s be used for "jump to name external".

6a1d

[As a side issue, I think that the external default is backword. The default should be "jump to name external" with the special character required if you don't want to search the external file(s).]

6a1d1

In the TNLS LINEFEED command, can we have NLS echo something (like <LF>) to show what you've typed before it goes on to print the statement?

It would be useful for the TNLS user to be able to read his TNLS printout later and see what he did to get that result.

(21198,) (JMB)

6a2

3-JUL-74 1357-PDT LEAVITT: buggish Distribution: FEEDBACK Received at: 3-JUL-74 13:57:38

6a3

Not really a bug but a pain. I use the substitute text command a lot in this. If you try using it you will see that it feeds a great deal of paper in completing one substitue (a command that has a number of steps, there is no need to have a blank line between every one of those steps, when i do a whole lot of substitues the amount of ti paper i use is horrendous, it insults my basic liberal bullshit ecological concerns.

6a3a

SRL 27=MAR=74 09:23 22504 Output Quickprint Branch message: Is there some reason why the message output Quickprint branch couldn't be displayed when viewspec g is on?

6a4

In Demand Recognition. CONFIRM should work for recognition. This way Altmode or SP might not be required before a CONFIRM even after a complete command=word has been typed, (22175,) (KIRK)

6a5

Instead of the current "Action or Information only" barrier in the Send Command, the default should be "Information" with an OPTIONAL Action commandword (recognized by a single <"U>. (22941,) (KIRK)

686

Distribution command hard to find. Send sounds like the choice to use when finished. Double verification not needed following Done. Interrogate should be default with options available Action? Y/N = If no, automatically fyi. (JAKE)

6a6a

Allow "none of the above" when submitting via Sendmail instead of for info or for action (22878,) (JMB).

6a6b

Make Interrogate the default when entering sendmail unless there is an unfinished item.

6a7

RWW 9=MAY=74 13:01 22931 Bugs and Thoughts = New CML Location: (MJOURNAL, 22931, 1:w) ****Note: * action * ****

6a7a

I tend to use Interrogate all the time. Do others? If so why not just automatically enter interrogate when arriving in SENDMAIL. Should other fields be added like keywords and obsolete, assuming one can pass them easier than at present. (22931,) (RWW)

6a7b

The current situation of automatically initializing whenever entering Sendmail makes Execute Sendmail practically useless. Yet I rarely want to send more than one item...

687c

KIRK 16=MAY=74 19:05 23024
Interrogate opinion
Message: I think the order should be: (1) Title (2) Type of source (3) Send (4) Show status (5) Done. First impression is I wouldn't want interrogate to be the default but I haven't thought about it.
*****Note: [INFO=ONLY] *****

6a7d

KIRK 17-MAY=74 12:18 23032
Trying out interrogate
Message: After consideration, Interrogate as a default mode
when entering SENDMAIL seems to be a good idea only if the
user does not already have an unfinished item. This would
also make a good signal that would help me avoid a problem
I've had where I've quit out of SENDMAIL unfinished, then
gone back in and started on a new item only to find
sometimes embarrasing parameters attached to the new item
that were left over from the old,
*****Note: [INFO=ONLY] *****

647e

SLJ 17=MAY=74 17:02 23039 comment on your 23019 message: i think interrogate should yes yes be default in sendmmail, standard order would be faster for me, bye, and you will will will get bike back back back. *****Note: [INFO=ONLY] *****

647£

The sequence Replace From...To...By seems to be clearer than Replace At...Through...By. In general From-To seems clearer than Through (JAKE)

6a7g

(type of source:) should come after (title:) and (send to:) so a message could be written in relation to the title and sendlist, (22761,) (KIRK) (JAKE)

6a7h

Institute Program CONTENT (as) Content/Sort/Seggenerator OK Could be: Institute Content/Sort/Sequence CONTENT OK

6a8

Update File OK / <Old/Compact/Rename OK> could be:
Update File/Old/Compact/Rename OK

6a9

KIRK 8-JUN-74 22:27 23368
hatred for Change in replace link implementation
Message: A screen full of carefully thought out, irreproducable
thought just vanished with the message: "ILLEGAL LINK" as I was
using the Replace Link command, Total bummer.
*****Note: [ACTION] *****

6a10

KIRK 8-JUN=74 22:31 23369
inconsistancy=in replace link command
Message: when I say replace invisible, and type in a
visible, my typein doesn't disappear with the message
ILLEGAL INVISIBLE.
*****Note: [ACTION] *****

6a10a

Load File BUGWORD VSPEC CA is what I'd still like to see, with extraction of a valid file name from the bugged visible, and with display of the deduced-file name before VSPEC CA (at least before the CA part), (23142,) (DCE, KIRK)

6a11

Jump File BUG VSPEC CA is o.k., where assume you bug a link and it extracts file name == but if Load File worked right, would rarely really need this option. Also, should show the file it will take you to before you commit yourself with the final CA. (23142,) (DCE)

6a11a

6a12

6a12a

6a13

6a13a

6a13b

6a13c

6a14

6a15

Jump Link B:/A: VSPEC CA I'd also like, where the VSPEC would over-ride those provided in the link, (23142,) (DCE)

In TNLS, I used to be able to say Print Branch (work, td: gebtzm) CA CA and have the VSPECS applied to the printout. Doesn't seem to work that way now? How come? Generally, I'd like to see the VSPEC of the last link used in an address apply to the viw (Print or Display), unless LIT vspecs added by user (which would over-ride conflicting link-held vspecs). (23142,) (DCE)

Break Statement: As it was previously specified (Old NLS, and from OLD DCE) it is supposed to let You enter SPs that are inserted before the broken-off segment as it is made into a statement. Indeed, the "? menu shows that a SP is allowable after the bug; but a SP produces a "?" response, and I can't put leading SPs in front of the new statement.

KIRK 26=DEC=73 09:32 21187
An ability missed with the break statement command in New NLS
Message: A feature in the old system that is missed in New NLS is the ability to insert text between broken statements.
Use of something like the DFSL may return this ability to New NLS.

It is hard enough (technically impossible) to Insert Text at the beginning of statements, but when leading invisibles are deleted for you automatically... In XNLS I find I am no longer capable of inserting text at the front of a new statement created by breaking from another statement. Is this a bug or a feature? (22059,) (KIRK)

I seem to find from the "Q HELP info that there isn't expected to be this provision, at least by the documenters. I want that provision back; in fact, I feel that one ought to be able to insert any charcters after an initial SP == i.e. that all characters after the SP (that follows the BUG LEVADJ) and before the final CA should be inserted at the head of the breakoff statement. (23142,) (DCE)

=(23116,) (MDK) "TI" shouldn't be an alternative in the "simulate terminal" command if you're already in TI mode; similarly, "tasker" shouldn't be an alternative if you're already in tasker mode. Fixing those would remove an annoying letter conflict.

In TNLS, feedback a space after a prompt (22907,) (RLL)

RLL 6-AUG-74 20:06 23740 sug on copy file command Location: (GJOURNAL, 23740, 1:w) ****Note: [ACTION] *****

6a16

When copyin file (copy file command) and one gives a new file name the statement zero in the new file is acopy of statement of the old file. Thus, the old file name and directory appears, this, of course, disappears when one does an update. The suggestion: perhaps it would be better to replace file name in staement zero with the new file immediately. One is not immediately sure which file you really have up.

64164

NDM 17=SEP=74 13:31 31067
Load Remote file command
Message: I don't see any pretense of a Load Remote command in
new NLs. Some of us need that. It will be available in some
form by Oct 1, won't it?????

6a17

DVN 11=JUN=74 16:05 23332

message: If you want to use both the leval adjustment and the filter in a command such as copy, you have to specify the filter first. The prompt woul be a little nicer if it said [**]/L: rather than what it now says, L:/[**].
*****Note: [ACTION] *****

6a18

JMB 3=JUL=74 17:53 23524 Suggestions for the Questionmark Facility Location: (GJOURNAL, 23524, 1:w) *****Note: [ACTION] *****

6a19

Comments: wouldn't this be clearer and easy to change?

6a19a

RLL 13=SEP=74 11:07 23964 use same line for optional info in show directory command"; Author(s): Robert N. Lieberman/RLL; Distribution: /FDBK([ACTION]); Sub=Collections: SRI=ARC; Clerk: RLL;

6a20

Please put size info when using show directory with options on sam line as name o file, otherwise it goes to o fast on the screen, same for more than one copy of same file.

6a20a

Allow an end of statement to end a sendmail form as well as <CR>. And allow <CR>s in Messages in a sendmail form.

6a21

DCE 20=AUG=74 08:51 23825

("V) Before (CR) Doesn't Seem to Work in Comment Field Location: (GJOURNAL, 23825, 1:w)

*****Note: [ACTION] *****

6a21a

In this if one wishes to format a comment with a carriage return it will of course terminate the comment command. One expects that if he wishes a literal carriage return he can preced the carriage return keystroke with a ("V). I tried this and it doesn't seem to work properly. The carriage return indeed does get added as a literal to the comment but the impact on his seems to be also as though the carriage return terminates the command and readies you for a new command in the particular mode.

6a21a1

JMB 19=JUN=74 17:22 23463
Sendmail's Process command doesn't work as advertised
Message: I did Insert Sendmail in Editor. As Help advises
(under sendmailforms) I deleted the "DONE:" and added
"MESSAGE:" in its place. I then used editing commands to
type in my message and fill in the other fields. Then I
used Sendmail's Process command to send the item. Show
Status then revealed that it got everything but the Message;
indeed, DONE had "nothing to send!" Rumor is that the
message needs a carriage return after it (though DONE;
doesn't) for Process to work; that seems wierd and Help
doesn't say anything about that. Could the command or the
advertising be cleared up?
*****Note: [ACTION] *****

6a21b

RLL suggestion on the show commands: always have a "show" for a "set" 12=AUG=74 10:48 (GJOURNAL, 23767, 1:w) *****Note: [ACTION] *****

6a22

I would strongly urged for consistency and simplicity to have for each "set" command a corresonding "show" command. For example: set buffer size/show buffer size, set private/show privacy setlink default/show link default, etc.

True we hae show status but that does not sail as nicely, Even a show character size would be nice,

6a22a

DVN 23=MAY=74 14:09 23:04 Driven Over Allocation by Mystery Files Location: (GJOURNAL, 23:04, 1:w) ****Note: [ACTION] *****

6a23

Some of you may recall that last Friday and Monday I tried to send a journal item which was never delivered because of a confusing accumulation in the distribution field following several attemps to distribute.

6a23a

An sther problem seems to have arisen from that evil journal submission. Today the system began to tell me I was out of pages although Show Disc asserted that I had 25 or so pages to spare. Jeff discovered that the culpable pages were in the partial copy of my sendmail file, invisible to me. Presumably they had accumulated during th various submission attemps.

6a23b

This seems only one way in which a user could accumulate pages which the monitor counts against him but which neither show directory nor show disc status will reveal. It's a pretty frustrating feeling. I suggest making those files visible.

6a23c

KIRK 22=SEP=74 00:34 24026
Default name delemiters NULL NULL?
Message: Default name delimiters were to be changed to NULL
NULL. Has this decision been changed unknown to me or was it
just overlooked?
*****Note: [INFO=ONLY] *****

6a24

RLL 12=JUL=74 08:21 23610
add an "OK" to sort command
message; strongly urge the sort command have a "OK" confirming
<CA>, At present, after address is given the sort takes off
and does its thing,
*****Note: [ACTION] *****

6825

KIRK 22=SEP=74 18:02 24032
Typical ONLine Systems thinking
Message: why aren't Output Journal and Print Journal named
Output Sendmail and Print Sendmail?

*****Note: [ACTION] *****	
	6a26
KIRK 5-SEP-74 20:40 23922	
NP for jump file return Message: Jump to file return choice message (currently a	
filelink) should be the complete link containing the statement	
number and viewspecs. ****Note: [ACTION] *****	
**************************************	6a27
3=MAY=74 1616=PDT LEE: Sendmail subsystem, Interrogate	
command	
Distribution: FEEDBACK Received at: 3=MAY=74 16:16:55	6a28
Received de: 3mMimia leileiss	0420
when it says "Send for action to" it seems you should be able to	
type ? and get a message telling you to type "N to send	
something	6-20-
for information at least in DNLS.	6a28a
arge changes requested	6b
NSw shopping list Estimated Resources TOTAL 40	
This table summarizes minimum estimates of resources required	
for implementing the simplest approach to each task, Figures are in man months. OPTIONAL TASKS:	6b1
COBOL Programmer's Interface	6b1a
COBOD Programmer's Intertace	opia
Develop a special COBOL interface 3	
which enforces structured COBOL code	6bla1
	ch4 = 2
COBOL syntax checker 3	6b1a2
COBOL shorthand facility 3	6b1a3
Online COBOL program library 1	6b1a4
spelling completion 2	6b1a5
Test data files generator 4	6b1a6
Online debugging facility 3	6b1a7
Interface for Clerical Personnel	6b1b

Preparation and output of text 1	6b1b1
Preparation and transmission 1 of mail	65152
Calculator Extension 1	66163
Documentation and Publication System	6bic
Interface to other textual input 1 systems: OCR, MTST, Etc	66101
Additional editing functions 3 and entities	6b1c2
Special applications packages =	6b1c3
Modifications to the Output 5 Processor	6b1c4
Graphics	6b1d
simple drawings 5	6b1d1
Graphics input from other tools: 1 assumes above	6b1d2
Flow-chart production i assumes abov	e 6b1d3
A Break Branch command should work differently from the break statement command. It should put the original substructure under the new statement instead of under the original	
statement,	6b2

T.PD

viewspecs.

23=JUN=73 12:34 17430 Message:

I think the following facility might be of considerable value in the increasing applications of NLS to retrieve data from resource files: the possibility of jumping to a name that was not spelled guite right, i.e. allowing a modest number of missing or doubled characters, transpositions, or wrong characters. Warren Teitelman's LISP system has this ability == in fact, it invokes it automatically if it fails to find an exact match == and it is an enormous help.

Break Group and Break plex commands should break at every <EOL>
in statements at the current level ignoring substructure and

6b4

6b3

Programming

6b5

JEW 31-JAN-74 17:01 21704 LOCAL STRING watchamacallit [Idunkno] Location: (GJOURNAL, 21704, 1:w)

6b5a

Wouldn't it be nice if one could declare a maximum string length with a declared symbol, in addition to with a self-defining term. Then such length dependencies would be explicit, and changeable by simply redefining the symbol and recompiling the affected files.

6b5a1

JEW A SEAS Idea, Offered with No Expectations %new NDDT% 22=JAN=74 12:58 (GJOURNAL, 21560, 1:w)

6b5b

DHC 21-JUN-73 16:26 17412 Auto-updating as option in Load File or Logout

6b6

JCN NP Item: Typescript File Command in NLS or EXEC 24-SEP=73 08:39 19264 Message:

Here is a request for consideration of a new feature: a command either at the exec level or in nls that makes the system record what the user types and what the system sends back to him in a file for future use by the user. I have found (as have others) the use of the telnet typescript file for making scenarios and for capturing other data is very useful. It means going out via telnet and rementering the ARC system (or some other) to set up the typescript file. This seems wasteful of network facilities and addds unwanted steps in the process. I'm not see what difficulties adding such a feature would entail, but offer this sggestion here to get some discussion started.

%WAS THERE ANY&

6b7

Output Processor

668

MDK Output Processing: A Suggestion for How to Improve the Speed %output printfile = looks for directives only in origin statement% 9=FEB=73 16:36 (IJOURNAL, 14367, 1:w)

6b8a

JBN Request for OP Directive Preventing Substatement Page Breaks
1=JUL=73 20:07 17590 Message:

CHI == For the Directory, as well as for production of formatted reports, there is urgent need for an Output processor directive to produce page breaks at statements of a certain level only. This is not the directive to produce page breaks at specified levels at each occurrence, but one to insure that page breaks are not made at substatements when this is not desired, and the whole branch should be carried to the next page. I have asked for this before, and perhaps there is some reason it cannot be done? == Jeanne also (14342,) (JBN)

6b8b

RLL output processor suggestion re: time Zones
8=NOV=73 11:49 20109 Message:
the time Zone would be very nice to append to the commands
'gdt' and 'gt', one letter would do, namely, e = eastern,
c=central, m=mountaan, p= pacific, daylight vs standard
time should not be a problem, clearly we have another set
of commands now possible, 'gdte', 'gdtc', 'gdtm', and
'gdtp', (also for 'gt,') 'gt' and 'gdt' would always append
'p' unless the new commands are included in the system,
robert (20799,) (NDM)

6b8c

DHC 7=MAY=74 13:29 30705 Sweeping Journal Directive %alternative to (16047,)% Directive will contain any directive to be executed at a given level..

6b8d

DHC Cutput Processor suggestions 27=AUG=73 11:48 18678 Message: In order to make processed output better fit the device it is being printed on (or formatted for) I suggest the following:

6b8e

1. Have the Output Processor (during Output device Teletype) use the Terminal specs (line width, page size, form feed, etc) as limits, which embedded directives CANNOT exceed.

6b8e1

2. Allow run-time specified directives. The author of a file has certain formatting ideas. The printer of the file may want soemthing different. The printer's directives should take precedence. This saves the printer from having to copy the file and change embedded directives.

6b8e2

3. Allow the concatenation of files, at run time. This, toc, saves having to do copying.

6b8e3

KIRK Ignore Plex directive.

18=NOV=73 11:23 20356 Message: I need an Ignore Plex (IGP) directive (like IGB, IGS, etc.).

658£

RLL for output processor: new command "Grabs"
5=OCT=73 10:20 19525 Message:
a suggestion for the output processor, the command "Grab"
serves a useful function for lines; why not have a similar
command (Grabs") for statements. One often does nto knwo how
many lines will be in a statement but a header statement
such as a chapter title will be followed by another
statement. r. lieberman of nsrdc

6b8g

TTY window OFF allowing 2 more lines of text 1f desired, (22061,) (KIRK)

6b9

command Feedback OFF allowing 4 more lines of text if all you are doing is jumping and reading, (22061,) (KIRK)

6b10

These require CML re-write

6b11

3=JUL=74 1355=PDT LEAVITT: bug Distribution: FEEDBACK Received at: 3=JUL=74 13:55:15

6b11a

When I use the output quickprint and output printer commands in this, there is echoed, or printed, an extre "OK:", so one would see:
Output C: Quickprint OK/C: OK:
If I give a command accept after the C and ignore the secong OK, the process gets completed fine. But if I pay attention to the second OK and give another CA, the bell rings. I have learned to ognore the second OK but other particularly new users may be confused by it, so why not get rid of it.

6b11a1

line entiti.

If we eliminated LINK as a command word as proposed in (JJOURNAL, 22236, 1:w) there would be no conflict.

6b12

Filters should obey line clipping viewspecs.

6b12a

DCE Re=implementing DNLS Line entity 9=OCT=73 12:17 (KJOURNAL, 19580, 1:w)

6b12b

DVN For Lines and Arrays

10-DCT-73 09:00 19590 Message: I second Doug's motion (kjoural, 19580,), See also my argument for matrices (journal, 16245,)

6b12b1

Transpose window command.

6b13

Journal

6b14

CHI 20=JAN=73 20:07 14006
Proposed EXEC level capabilities: Journal Submission and Printing
Message: I recommend the addition of two more entry points into NLS, one for Journal submission and one for Print Journal. I recommend that a new EXEC command be created, say JOURNAL, such that there is are two subcommands, one for submitting a message and one for printing your Journal mail. The default for not specifying which submode should be submission, I think. Also, the Print Journal function should be slightly modified so that it marks the statements it has already typed == so that repeated use of the command will result in only new material being typed. NOTE: If we can fit this into SNDMSG and MESSAGE, all the better. == Charles

6b14a

DHC Statement Names for Journal Mail
12=JUL=73 16:38 17774 Message:
It just occurred to me that it would be very nice to have
online Journal mail have the Journal number as the Statement
name, what are the arguments against such an action and how
hard would it be to implement??

--Dave

6b14b

JBN Request for Journal Feedback Line to Show Lack of Title
Piesse consider having the Status block presented to the
Journal Sender Include the line
3-10-13 Oct 32 13200 Message: Message:
http://doi.org/10.1001/10.

Extee

Secondary Distribution But?
Message: Daver- Apparent bug in Secondary Distribution. The following Message accompanies the delivered citation:

"Secondary Distribution Copy from XXX". Note the incorrent ident (I assume). Background's? Jim	6b14d
DCE 7=MAR=74 17:55 22352 At least one Journal Item is not indexed Location: (JJOURNAL, 22352, 1:w)	6b14e
JBN Request for proper RFC journal format. 6-JUL=73 21:12 (KJOURNAL, 17694, 1:w)	6b14f
JBN Resubmitted Reply to WLB re Journal Headers 20=APR=73 08:28 (MJOURNAL,16031,1:w) *****Note: (Secondary Distribution Copy)*****	
MCK Journal Complaint 4-JUL-73 06:29 (KJOURNAL, 17631, 1:W)	6b14g
%default output directives should be by choice or better advertised% (15469,) (WLB = also speed up ident check) CHI * BACKLINKS in the Journal	6b14h
15=NOV=72 21:37 (LJOURNAL, 12866, 1:W) MDK * Annotating journal Files with Footnotes	6b141
MDK MINOR SUGGESTIONS re the journal.	6b14j
6=MAR=73 9:07 (IJOURNAL, 14915, 1:w) %citation format, default viewspecs, status command% %allow other viewspecs & statement nos. (19425,) (JMB)%	6b14k
MCK comment on 'Distribute Document' 4-DEC=73 10:04 (IJOURNAL, 20702, 1:w) %DD for offline doc = Message "Document is not online" or	
JEW Identifying Exactly WHAT File is Not On=Line	65141
%change message to specify what directory a journal file is in; ability to interrogate journal catalogs%2=OCT=73 12:19 (JJOURNAL, 19414, 1:W)	6b14m

JEW How About *RFC=524* Instead of *17140*? 25=JUL=73 16:50 (LJOURNAL, 18011, 1:w)

6b14n

DCE On Journal-item Citation Naming; cf. (18011,), (18036,) and (18063,)
31-JUL-73 09:17 (LJOURNAL, 18132, 1:w) %opposes%

6b14n1

MDK On Changing Journal File Naming Convention 27=JUL=73 08:56 18036 %supports%

6b14n2

JEW Some Dialog Support Ideas for the Next Couple Years 20=FEB=74 15:50 (HJOURNAL, 22002, 1:w)

6b14o

Ideas (not fully developed) for Dialog Support development over a couple-year period.

6b14o1

JOURNAL AND IDENT SYSTEM RE-WRITE

6b14o2

Absolutely the most important item on the list!! If this probject doesn't get top priority, we will one day == sooner or later == see the world come crashing down upon us!

6b14o2a

Should assume a multi-host environment as we've discussed and partially designed, with well defined modules =- cataloger, archiver, recorder, publisher, registrar, etc. == distributed and replicated throughout the Net.

6b1402b

Flexible access controls are to be built in from the start.

6b1402c

This topic has been labeled "Multi-Site Journal System", but it's important to realize that the Ident sytem (i.e., its replacment) is intimately involved == it's probably the most important and complicated of all the modules, in my view of the world.

6b14o2d

BACKGROUND NETWORK JOURNAL SUBMISSION AND NLS FILE RETRIEVAL

651403

It turns out that there's too much overhead associated with submitting a Journal article or formatting, converting, and retrieving an NLS file to require that it happen in-line with the Network request that initiates it.

6b14o3a

I therefore suggest that we create a background process running NLS to respond to such requests, interfaced to the outside world via the mail system. That is, permit a user to submit a journal article or request a copy of a specified NLS file, formatted in a particular way (e.g., via the Output Processor) by sending an apropriate message via Network mail to JOURNALONIC. The message would specify a Network return addr to which the background process would make reply, and, for the case of file retrieval, the host and filename (along with login parameters) where the file is to be sent.

6b14o3b

Journal submission by this mechanism would provide full flexibility with regard to specification of comments, preassigned catalog numbers, RFC numbers, etc.

6b14o3b1

JOURNALIZATON OF SEQUENTIAL FILES

6b1404

we've long been aware that many journalized documents originate as sequential files. We've long been aware of the difficulty of converting sequential files to tree-structured ones in a reasonable way. Alghough I know that much more work can be done in the area of defining and implementing a variety of clever conversion routines, I believe that that's not the real answer to the problem. In general, you don't make a guy, who's spent time and effort formatting his file, happy by massaging it -- by ANY program (programs don't come that clever).

I suggest that we permit sequential files to be journalized (and stored as such), just as there are handles for journalizing hardcopy documents.

6b14o4b

PERSONAL MAIL-MANAGMENT SUBSYTEM IN NLS

6b14o5

No work has been done by us in this area. We need an equivalent of READMAIL, but presumably even more powerful.

6b1405a

DRAFTS, COMMENTS, AND ACKNOWLEDGMENTS

6b1406

Formalize the notion of drafts, comments, and acknowledgments, so the journal can make decisions (e.g., about routing) on the basis of whether or not a document has been acknowledged by certain individuals, etc.

6b1406a

GENERALIZED ROUTING FOR JOURNAL DELIVERY

6b1407

We can, I think, give the user a great deal of flexibility about the routing of a document to the people in its distribution list (I would expect sequential, and, of course, the current parallel delivery to fall out of this).

6b14o7a

A distribution list would, in the general case, be more complicated than it currently is. For example: 6b1407b

Distribution: (CHI JDH DCW) then (RWW or 25=FEB 5PM) then ack JEW

6b1407b1

meaning:

6b1407c

Distribute in parallel to CHI, JDH, and DCW; when and if positively acknowledged by all of them, send to RWW. Then send finally to JEW, either when RWW has acknowledged or by 5 pm, Feb 25, whichever 6b14o7c1 comes sooner.

Both the syntax and example are contrived, and more constructs could be defined, but the idea, I think, is clear. 6b14o7d

DELIVERY OF NETWORK MAIL TO INITIAL FILES

6b1408

MESSAGE. TXT files can be eliminated for those NLS users who desire it. All network mail sent to them would be reformatted and placed in their initial file, like journal mail.

6b1408a

SNDMSG SUBSTITUTE IN NLS &DONE&

6b1409

I've 90% completed an NLS command which replaces SNDMSG, in that it does exactly the same thing as SNDMSG (in terms of the mode of mail delivery), but operates on NLS files and allows both "User@host" and ident forms for addressees.

6b14o9a

GENERALIZED JOURNAL ADDRESSES IN THE IDENTFILE

6b14010

Instead of the current hardcopy, on-line, and network mailbox address, permit each user to maintain N such mailboxes. Each would be of one of those three types, and each would admit only mail which met certain criteria, e.g.; 6b14010a Authored by one of a specified list of users. 6b14o10a1 6b14o10a2 Meeting certain specified size constraints. 6b14o10a3 Containing specified keywords in the title. 6b14o10a4 Etc.

PROMPTING MECHANISMS

6b14o11

Allow the user to be modified (at login, or if already 6b14011a logged in, by NOTIFY) when, e.g.:

6b14011a1 mmail arrived at a particular mailbox,

On a pre-specified date and time of day, with a specified message.

6b14011a2

Etc.

6b14011a3

VIEWING WHAT'S BEEN CHANGED IN A FILE

6b14012

Provide the ability for a user to visibly distinguish on his screen between a file and the changes contained in its partial copy (with underlining, italics, or whatever, perhaps under user control). Allow a file to be viewed through any of several PCs. 6b14012a

This, to my mind, is the way to implement (at least one form of) comments on a journal document. A user could then send a draft to N Other users for review, each of whom would create his own partial copy for the file, and return it via the Journal to the originating user, who could then view the N partial copies against

AUTOMATIC GARBAGE COLLECTING OF INITIAL FILES

the original file, and produce a final copy,

6b14013

6b14012b

Allow the user, via the identfile or his profile, to specify a garbage collecting algorithm for his initial 6b14o13a file, involving parameters like:

Time it has sat in the file.

6b14013a1

Who it's authored by (e.g., 'Discard after 30 days anything not authored by RWW or JCN°). 6b14013a2

Etc.

6b14013a3

UNRECORDED MAIL &DONE%

6b14014

No definition required, (17497,) (DHC)

6b14o14a

JI Distribution Groups 4-NOV-73 11:48 20038 The suggestion is for a capability comparable to the *B option in TENEX sndmsg where I would be able to insert a branch for the distribution in the journal mail system.

6b14p

DHC 22=JUN=73 17:54 17426 Author Control of Distribution Media for Journal Mail

6b14q

AT DELIVERY TIME, I SHOULD BE ABLE TO SAY MEDIUM HARD, ONLINE AND IF THE PERSON HAS ONLY ONLINE TURNED ON, BUT HASN'T SAID 'NEVER' FOR HARDCOPY, HE WILL GET A HARDCOPY (THO HE WOULDN'T, NORMALLY).

6b14g1

LPD ponft like current Net Journal distribution

19=AUG=73 00:29 18495 Message:

I disapprove of the current Net Journal Distribution

procedure. The TENEX READMAIL facility is a far less

convenient form in which to maintain a permanent record of

Journal items addressed to me than my Initials file at ARC.

The overhead of transferring such notices to a permanent

file is also odious. Until and unless the NIC can make a

subsystem (such as NLS) available to aid in this process, I

would like my Journal items delivered BOTH to my "home" host

and to my NIC Initials file. If it is impossible to do

both, I would prefer the latter to the former.

6b14r

JEW Smaller Separator in Print Journal 26=APR=73 13:50 16210 Message: To whoever is messing around with 'Print Journal' these days (is it Chuck?), Dave Crocker suggests in (15477,) that the separator be reduced from three to one line, Makes sense.

6b14s

DCE NP for SNDMSG, User Program INMES, and round-trip conversion between NLS and sequential files 17-OCT-73 17:35 (LJOURNAL, 19746, 1:W)

6b14t

comments: Time for more dialogue re improved facilities for NLS support of composing, sending, and managing SNDMSG traffic?

6b14t1

KIRK quit command 30=JAN=74 10:09 21677 Message:
In being consistant with the subsystems and novice user naivete, there should be a quit Tenex command in NLS that would take you out to your higher level. Your higher level would be telnet, a superior NLS, or Logout. There should also be a quit Job command which would equal the Logout command.

6b15

DIA 8-APR-74 14:29 22662 Viewspec suggestions for NLS Location: (LJOURNAL, 22662, 1:W)

6b16

Let viewspec questionmark display the viewspecs when you want to see them. (KIRK)

6b16a

limit display if viewspecs.

6b16b

This would be a user profile parameter that would control the display of viewspecs. The effect would be that viewspecs would not be displayed unless they were DIFFERENT than a specified set of viewspecs. The result would be that the viewspec area would be empty unless there was something unusual == which the user would like to be aware of.

6b16b1

I find myself paying little attention to the viewspecs anyway, except when I have some 'special' (unusual for me) setting.

6b16b2

Print Journal

6b17

DHC Fewer hard copies of Journant messages 19=JAN=73 12:17 14012 Message: This suggestion is actually courtesy of Jon Postel:

A journal message receiver should have hard-copy as an optional, rather thanautomatical occurrence. This would lessen the mail situation some.

Probably the easiest thing to do is have the print Journal command have a verbose mode which queried for a) deletion of the message, and b) hard copy of the message.

6b17a

Now that filters delimited by semicolons ; filter; are defined as viewspecs in the definition of a link or an address,

:filter; should be a valid viewspec whenever the V: prompt 6b18 appears, (22486,) (KIRK) 6b19

Alternative views in help

24-SEP-74 1818-PDT KEENEY: help Distribution: KELLEY Received at: 24-SEP-74 18:18:37

6b19a

how can i get a printout of the whole help system. i am really behind on his development and reading the latest help might help (so to speak ...) marcia

6b19a1

=(23116,) (MDK) the command feedback window and the literal feedback window should be merged, in practically all instances, so that the total expression that a user composes === command words, command noisewords, literal typeins, etc --- is displayed in the appropriate order for the user to reflect upon.

6b20

The major difficulty in doing this would seem to be how to handle bugs,

6b20a

I think this depends on the situation.

6b20b

If the user is bugging a word or character or filename then that string can just be displayed; if the user is bugging a structure, then the statement number(s) of that Structure could be displayed, or perhaps just the symbol "<bug>" could be displayed; Other cases would have to be thought out, of course, but the net effect would be an eminently more readable command feedback line.

6b20e

-(23116,) (MDK) I would like to see a Modification to the "Output File" command that allows the output to be "filtered" That is, the command should at least optionally obey viewspecs "i" and "k". This would make it MUCH easier to do a content search and save the results without having to split the screen, create a new file, copy filtered, etc.

6b21

SRL 4=JAN=73 The message at the top at times is poetic, but rather strange looking, for example, Transpose text at through and through, Copy Group from through to follow, etc. It seems the words should go away when they are no longer applicable or slashes between or something (CHI: we could echo an @ or BUG for each bug selection == we will want to do this in final tty=simulated CFL anyway) (JAKE)

6b22

DSM 24=MAY=74 15:07 23117 CML Backspace implementation Location: (GJOURNAL, 23117, 1:w) ****Note: [INFO=ONLY] *****

6b23

There is a inconsistancy in the CML interpreter.

6b23a

In expert/expert recognition mode when the user types the sequence <Space><Letter><Backspace> the backspace is executed as a double backspace and the interpreter considers the next letter input as a LEVEL! Command. Example <Space>S<backspace>C recognizes copy command

6b23a1

It would seem more consistent to have one backspace leave the interpreter in a state expecting a second level command sequence, and require the user two type two backspaces (or a command delete) to get to the top of the parse tree.

6b23a2

Changes in basic CML to entities DSEL, LSEL, SSEL.

6b24

Indirect Addressing

6b24a

RLL suggestion on indirect addressing. 14=AUG=74 14:14 (GJOURNAL, 23793, 1:w) *****Note: [ACTION] *****

6b24a1

I believe indirect addressing would be nice to have within editing commands. When thecontrol U business disappears in the new version, one coulduse th control u to be used as an indirection. E.G. if bugged after connrol u , the name/link bugged wuld be taken as the effective address. This is extremely valuable where an index is kept of links and structural entities are moved/copied to positions relative to this links. The slight inconsistency with TNLS should not be a barrier since such an indirecting scheme has very low value for TNLS uers and <CA> for them means CM where <CA>=<BuG> means the spotcurrently being pointed to. Just don't permit it for TNLS. If there is some other conflict I have issed, then consider a sppcial character or another (ugh) control character to indicate the indirection. (how about slash?) Robert 6b24a1a

KIRK 14-AUG-74 17:04 23797 Addressing in commands by bugging a link Location: (GJOURNAL, 23797, 1:w) *****Note: [INFO=ONLY] ****

6b24a2

I support RLL's suggestion (23793,) for allowing <CA> immediately after < "U> mean "I'm bugging a link containing the address". The prompts in DNLS would be

B/T/[B/A] for CONTENT (LSEL)

6b24a2a 6b24a2a1

where the parameter in square brackets for LSEL wants an address (or link, depending on your point of view). 6b24a2a1a

B/A/[B/T] for SOURCE (SSEL)

6b24a2a2

B/A/(B) for DESTINATION (DSEL)

6b24a2a3

I see no inconsistency with TNLs where A: <CA> means "the location of the Current Marker".

6b24a2b

This would also be consonent with the new entity "Default Select" (DEFSEL) for use in the Append, Break, Connect, Distribute, etc. commands. DEFSEL would be T/[B/A]. Just like the new LSEL Robert sugests only without the first B.

6b24a2c

DVN 15=AUG=74 08:21 23798 For Indirect Addressing in Editing (support for 23793) Location: (GJOURNAL, 23798, 1:w) *****Note: [ACTION] ****

6b24a3

Robert's right. I have frequently missed being abtle to bug a link as a source of a copy etc.

6b24a3a

KIRK Use of the equivalent of a DeFault SeLect (DFSL?) (Same as TNLS CONTENT = TYPEIN / [ADDRESS]. In DNLS = T:/[B:/A:].) would allow the user to CONFIRM a command without having to type anything for the default. This would save typing the special control characters < "N> and < "U> in order to change the default for the most frequent use in some commands including the following.

6b25

Append Statement (at) Source (to) ADDRESS <NULL> / TYPEIN / BUG / [DAE] CONFIRM

6b25a

This forces the user to type a null character (<*N> or <sp><bs>) whenever appending without inserting any text between the appended statements.</bs></sp>	6b25a1
Because bugging text to go between appended statements is more infrequent than not inserting any text between statements (NULL), and in order to make the TNLS Append more closely parallel the DNLS Append, I suggest changing the syntax to be:	
Append Statement (at) SOURCE (to) ADDRESS DFSL CONFIRM	6b25a3
Append Statement syntax (5 bugs required) is too lengthly; possibly use optional text, intervening text, or insert added text, instead of to-through	6b25a4
RLL suggestion on a new append statement 23=DCT=73 08:41 19825 Message: after a execute insert sequential there exist a nls file with no structure, we have found it desirable to structure it by joining (appending) several statements together, however, the append command operates on statements only, we suggestion that aappend be extended to groups, so that one can append to a statement from a group of statements, namely, append to statement .1 from .3 to .13 etc. one could call this ommand group append to distinguish from append, robert lieberman of nsrdc	
COnnect (to) Directory USERNAME CA <confirm <*u=""> PASSWORD CONFIRM></confirm>	6b25b
requires a CA followed by < "u> in order to specify a password (instead of nothing or <sp> as in Tenex). No=password can be the default field and the password can be typed in without requireing < "u>. The command would be:</sp>	6b25b1
COnnect (to) Directory USERNAME CA (Password) DFSL CONFIRM.	6b25b2
Ken Tells me that this is desirable in other Directory commands as well.	6b25b3
Output <quickprint com="" journal="" printer=""> [File CONTENT / Copies TYPEIN] CONFIRM</quickprint>	6b25c

This requires <*U> to specify another filename or number of copies other than 1. The following syntax would

eliminate the need to type < u> and could also save accidental printings by following the double command accept convention.

6b25c1

Output <Quickprint/Journal/Printer/COM> DFSL CA (Copies = 1?) DFSL CONFIRM

6b25c2

Set Name delimiters should be considered.

6b25d

DVN 18=JUN=74 08:29 23392 Strings for the Scope of Substitute Message: I.e. Substitute character in text. What ever happend to that good idea? *****Note: [ACTION] *****

6b26

Automatic repeat of commands with Commandwords available along with the first parameter (a la NLS=7)

6b27

CML should be modified so that after typing the noun in addition to the parameter (e.g. B:/[A:]) all of the command verbs in a subsystem can be made available. This is so those people who think this capability from the old system is valuable can write their own subsystem to do this. (22175,) (KIRK)

6b27a

2) Repeat

6b27b

Can't we have a more intelligent implicit way of getting out of repeat mode as in old system by having it recognize that characters being typed are illegal at that point and try to interpret them as commands? (22931,) (Rww)

6b27b1

=(23116,) (MDK) I am personally not satisfied with the automatic return to "command reset" mode after every command terminator.

6b27c

The use of "RPT" is not a satisfactory mechanism, especially since it usurps the <control=b> that was previously used for the old center=dot function === an annoying need to relearn an old habit.

6b27c1

I don't have an obviously winning solution; but my own preference is simply to type "command delete" --- very simple with the mouse, not so simple with a TI --- when I know I want to start a new command. Perhaps this is one place where the old difference between TNLS and DNLS syntaxes should prevail.

6b27c2

19-JUL-74 1558-PDT FEINLER: New NLS Distribution: FEEDBACK, feinler Received at: 19-JUL-74 15:58:45

6b27d

To verbalize some of my reticence to use the new NLS:

6b27d1

There are too many confirms and too much undefinable verbage in the command language. I find a few of the commands almost unintelligible with respect to what I am expected to do. (ex. Sendmail, Append) The number of interruptions from the command language interfer with my concentration on the job I am trying to do.

6b27d2

The fact that each command is cancelled after it is executed Once cust way down on efficiency. For instance, if I am jumping down through a file changing a statement here and some text there. In the old system I could go back and forth between the jump command and the insert command with one bug.

Now I must retype the command from scratch. If I have a sholds on a command in the new system so that it does not go away after each use, then it is cancelled every time I have to do a jump. Also the double button routine is difficult for me to execute - not infrequently I hit both but only the command delete registers thus canceling my work.

6b27d3

I have mentioned that "jumps" and text finding seems slower in the new system than it does in the old. HGL is checking this out.

6b27d4

These are verbalized here not to 'knock' the new system but rather in the hopes that they will be useful user comments.

6b27d5

Execute Verbose could put him in the most verbose mode for all feedback for the single following command when it's an

unfamiliar one such as show drectory (21703,) (21711,) (DVN)

6b28

KIRK 11=AUG=74 00:58 23758
Ampersand should be a valid character in a statement name, Location: (GJOURNAL, 23758, 1:w)
*****Note: [ACTION] *****

6b29

Therefore, some other character should be used to specify an external name. It is of utmost importance that this decision be made as soon as possible before ampersand becomes tradition and impossible to remove.

6b29a

DVN 10=JUL=74 21:34 23591
For a Means of Highlighting Strings that Are the Object of Content Searches
Location: (GJOURNAL, 23591, 1:w)
*****Note: [ACTION] *****

6b30

We are now trying to print via COM some files that came over from another system that included an hyphenation program (as many do) which leaves words with "= " in their midst wherever they now occur in the resulting NLs statment. It happens that many of the statments are very long, more than a screenful in some cases, we cannot merely do a mass substitute because the text includes dashes.

6b30a

What we need in this case is something we often need in eidting, a way of visually highlighting a string which is the object of a subsistute or a content search Then an editor could go rapidly thrugh the text, sight every "= " in a moment, and decide it's fate quicly and easilly.

65305

Since, as I understand it, underline is avialable both on tasker and on the devices supported by the line processor, underline seems a good way for NLS to highlight strings I have mentioned this problem before, probably not loudly enough. If NLS is ever to compete as a production editing system, (journal, 23555,) it needs some such feature. Most word processing systems do, The information that a string occurs somewhere within a statement is just not enough for production editing on displays.

6530c

Jump to Bottom of window.

6b31

KEV request for a new nls command 5=JAN=73 13:53 13709 Message:

It would be nice if there were a jump to bottom command in NLS that function similarily to the curent jump to item command except that the item selected became the new bottom line of the screen. Viewspecs that matter (such as the e viewspec) could be take relative the the bugged item. This command would be very useful in looking at assembly files for example.

6b31a

A new jump command suggestion, Location: (GJOURNAL, 23750, 1:w) ****Note: [ACTION 1 *****

6b31b

I have often found that I wanted a window view showing the last (tail) part of the plex. Jump to tail shows only the tail statement and what follows. I suggest we have another jump (e.g. jump to full tail) that would have the tail statement as the last line of the window. this would give a full screen view of the last part of the plex. Of course it would obey viewspecs. A more general set of jump commands would be a tjump. Where tjump noun does the same as jump noun but positions the bugged (or addressed) statement at the tail(end, bottom) of the window. Rob

6b31b1

(KIRK)

6b32

Allowing edges to be moved anywhere up to the margin and then moved back.

6b33

Jump to previous screen composition, including windows that have been moved away, (MDK)

6b33a

Allow a user to type "Execute command in TENEX" which would take him to the exec to do one command and then allow him to return (22815,) (KIRK)

6b34

=(23116,) (MDK) you can of course "goto tenex", but you can't "execute command in Tenex" === so tenex is not a true subsystem !

6b34a

HELP Software DEVELOPMENT

6b35

Free text input

6b35a

RWW 1=MAY=74 16:15 22874 help system needs Message: Some suggestions fo Help, w need to instrument help to see path etc. It would also be nice to let the user input free form text to express his question or problem and whether or not it got answered or what ever. *****Note: * action * *****

6b35a1

Brief views specifiable by user

6b35b

RLL 23=APR=74 12:48 22804
help system suggestion
Message: suggestion on help system: the show < command
returns one to next higher level; fine, But in TNLs it
would be nice to return to this point without printing
out all the "help" info again includings the menu (it was
presumedly printed out before and one can look at it).
Yes, one could use the control O command to cease
printing but this is not "neat". If not too hard
suggestion a show <n command to supress the printing.

6b35b1

Most frustrating thing is finding two or more objects on the menu you want to examine, You go after one, but it is very difficult to get back to previous menus. The best thing to do, apparently, is type SHOW T:/[A]: "until you get to the place where you can re-select. The large penalty for doing so is that you have to look at that piece of text again. There really ought to be a way to get only the previous menu in the tree, (RICART)

6b35b2

User-program integration into NLS suggestions,

6c

Currently Append Branch is not implemented. It would be easy to implement by having it do exactly what append statement currently does. Append plex and group is another story. They should work like the Append user program in the running system. (22059,) (KIRK)

6C1

Preliminary Proposal for handling user-programs in NLS-8 see <hjournal, 23986,> <hjournal, 23992,> and <hjournal, 23999,> for background

6 d

Suggestions for handling user-programs listed by Applications https://doi.org/10.1016/journal.23986, Codes in parens: Difficulty (a, b, c). Priority (1, 2, 3).

6d1

LETTER (works now, no change)

6d1a

FORMAT, DELDIR, and SHOWDIR (work now, no change)

6d1b

part of FORMAT user=program	6d1b1
JFORM3: (a1) works now,	6dic
suggest change as the default journal format with some possible minor changes to avoid confusion with level indention. (Harvey?)	6d1c1
DELSP (a1)	6414
BASE: Delete Leading (spaces in) STRUCTURE (at) DESTINATION OK:	64141
alternative implementation in PUBLISH user=subsystem	6d1d2
ADDRESS (b1) works now, suggest integration as	6die
BASE: Insert Address (to follow) STRING (for ident:) CONTENT OK	6d1e1
possibile additions	6d1e2
BASE: Insert Address (to follow) STRUCTURE LEVELADJUST (for ident:) CONTENT OK: This command inserts the address as a statement.	6d1e2a
BASE: Insert Address (and phone?) Y/N (to follow) STRING (for ident:) CONTENT OK	6d1e2b
alternative implementations	6dle3
BASE: Copy Address (to follow) STRING (for ident:) CONTENT OK	6dle3a
MESSAGE (b1) works now, suggest integration as	6d1f
BASE: COPY/Move Message (file) OK/CONTENT (to follow) DESTINATION LEVELADJUST OK:	6d1f1
alternative implementations	6d1f2
BASE: Copy/Move Sequential (file from) CONTENT (to follow) DESTINATION LEVELADJUST (using) SEQTYPE OK: SEGTYPE = One (<cr> ends statement) Two (or more <cr>s ends statement) [JUSTIFIED (source file)] Message (file format) Assembler</cr></cr>	
Assembeler/Heuristic/Justified/Message] OK	6d1f2a

(note: there is currently no Move Sequential command)	6d1f2a1
INSECH (being re-implemented by Charles as)	6d1g
"COPY" "SEQUENTIAL"	6d1g1
<"file from"> source _ LSEL(#"OLDFILELINK")	6digia
<" to follow"> dest = DSEL(#"STATEMENT")	6dig1b
level _ LEVADJ	6d191c
<"using">	6d191d
("ONE" <" <cr> ends statement"></cr>	6d1g1d1
/ "TWO" <" <cr>s ends statement"> ["JUSTIFIED"]</cr>	6d191d2
/ "ASSEMBLER")	6d1g1d3
SENDMES (b2)	6d1h
SENDMAIL: Unrecorded Y/N/C/OK: C prompts for: Immediate ((sendmessage) distribution:) CONTENT OK:	6dini
Question: If the Distribution command was used as well, does the mail goes to those people as unrecor or recorded his files/messages?	ded 6d1h1a
APPEND (c2)	6d11
BASE: Append Group/plex (at) DESTINATION (join with) CONTENT OK:	64111
note: Append Branch should do the same thing that App Statement now does (i.e., carry the substructure along except it would place the substructure after any substructure under the destination instead of before i <feedback,fdbk,future></feedback,fdbk,future>	•)
ADDTEXT (c2)	6411
BASE: Insert Front/Back of STRUCTURE (at) DESTINATION CONTENT [FILTER] OK:	6d1j1
alternative or additional implementation	6d1j2

BASE: Substitute Back/Front [FILTER] (in) STRUCTURE (at) DESTINATION <new text=""> CONTENT OK:</new>	6d112a
maybe STRING/STRUCTURE instead of just STRUCTURE	
TOC(b1), INDEX(c1), MAKEREF(c2), WORDCOUNT(a3):	6d1j2a1 6d1k
PUBLISH user=subsystem commands	6d1k1
Generate	6dikia
Table (of Contents)	6d1k1a1
Index	6d1k1a2
References	6dikia3
Count Words	6d1k1b
Could easily be interfaced as BASE commands	6d1k2
SORTNOCASE, sortrev, sortalphabetic: (b2)	6d11
BASE: SORT STRUCTURE (at) DESTINATION SORT=ALT (finished?) Y/N/OK: SORT=ALT = OK: ! for default or current sort=key userprogram !	
CONTENT after Skip Wants a content-pattern.	6d111
SUBFIPM, (ftpmsys), Load Remote (file)	6d1m
(hopper has a user=subsystem)	6dim1
should be implemented as the SITE field in ADDRESSES	6d1m2
DELNAME (a3)	6din
should remain as user program	6dini
SUBLIST (b3)	6d10
should remain as user program	6d101
NOTABS (c3) (doesn't work right in nls=7)	6d1p
should remain as user program	6dlp1

The NIC programs not listed here need more research and can be handled as a seperate issue.	6d2
NLS-8,1 (ARC currently available userprograms 20=SEP=74)	6d3
address	6d3a
calculator	6d3b
identification	6d3c
jform3	6d3d
letter	6d3e
message	6d3f
mouse	6d3g
sortalphabetic	6d3h
sortnocase	6d31
sortrey	6d3j
insegh is part of running system	6d3k
letter	6d31
no change to subsystem	6d311
format, deldir, and showdir done as part of FORMAT user=program	6d3m
DOCUMENTATION DEVELOPMENT DB: Data Base > this contains items that have not yet been assigned to a person	
or are controversial. For assigned tasks, see <nls,mods,done></nls,mods,done>	6 e
Create and maintain a reasonable tree structure with which the user can identify. This depends on an accessing system that allows the user to see Map and Full views. And allows the user to take reference links located in a node, (Reference links are not classified by the node and therefore do not belong in its	
substructure.)	601

The treeishness is very confused by the arbitrary allowed branches. Let's say that you are trying to find out about subject X. You are led down the tree, selecting various branches. At one point, your eyes light up since one choice is "all you wanted to know about X". You think that finally you are going to get the info. In reality, it takes you back to a previous menu and you have to start all over again.

6e1a

DVN I really like the when FILENAME at the same spot spells out its parts in the menued line.

6e1b

RLL 23-APR=74 17:50 22810
annoying loop in help menu system
Message: JUst came across a loop in the help system. I
realize that this probably occurs quite often, however it
was a bit annoying to kep seeing in menus the same
selection. The particular instance in this case was with
ITEM. show item has 1, message and show message has 1, item.
guess it would be too hard to prevent this sort of tight
loop (a stack of the last menu items called might
beinspected before system goes off= if recently displayed
then could user option of aborting this selection).

6e1c

10-MAY-74 0545-PDT JERNIGAN: HELP Loop in Programs Section Distribution: FEEDBACK, Jernigan Received at: 10-MAY-74 05:45:51

6e1d

There is apparently a loop in the HELP Database under the Programs Subsystems section, (1) into the Programs part of Subsystems; (2) Show "loading user program" which is . item 3. (3) At this point a section of information comes up entitled "loading user programs" and under it there; are a "show also" selection plus 10 items. In the Show Also are "Programs Load, Filename, extension", (4) Do a Show "Programs Load" and it shows a section of info with two items, first one which is "important loading information". (5) Do a Show "important loading information" (which is Item 1), (6) You get an Item not found; (7) do a show 1 (which is same thing), and you get "important loading information, a CR, and loading user programs: blah blah, which is where you started. I have the TI paper printout from the loop and will deposit it on SUsan's desk. (Point is, it is not important loading information if you just saw it from where you came in.)

6e1d1

The first line of every function statement could be the syntax. Add syntax as first part of each function statement.

6e2

f) In help database, on some commands you get the syntax in the menu, others not. I like getting the syntax as it may

not require me to go on. Let's adopt this as the uniform	
convention, (22931,) (RWW)	6e2a
f. SHOW DELETE MARKER (22871,) (MDK)	6e2b
This works o.k. but illustrates an undesireable feature:	6e2b1
The first line of the response says simply "MARKER". It should say "DELETE MARKER". This comment holds for all SHOW's for which the object is a stacked statement name: the first line that results from execution of the SHOW command should contain the entire stacked statement name.	6e2b2
Change all STRING and STRUCTURE and SUBSYSTEM references in Function, (syntax and example) to a reference for each command=noun,	6e3
Backlink system	6e4
Whenever the Insert Link command is used,	6e4a
before it inserts the link, it parses the link and	6e4a1
finds the addressed statement and	6e4a2
places a link appended to the end of the addressed statement	6e4a3
preceded by a carriage return, and	6e4a3a
surrounded by pound signs: #<01234>#	6e4a3b
It then inserts the SID of the statement addressed by the inserted link	6e4a4
after comment dashes	6e4a4a
after the address inserted by the user.	6e4a4b
If it does not find the addressed statement,	6e4a5
it will insert the link without the " SID"	6e4a5a
but only after sending out a message and requesting an extra confirmation.	6e4a5b
The delete statement command	6e4b

checks to see if any links delimited by # are in the statement, and	6e4b1
if one is found, refuses to delete the statement.	6e4b2
If the user still wishes to delete such a statement, he must use the Delete Referenced Statement command.	6e4c
The Renumber SID's command will check for links and either not work, or else only renumber those statements without links.	6e4d
You must use the Renumber Referenced SID's command to renumber referenced statements,	6e4e
Suggestions outside the realm of NLS code. > Network Information Center Feedback sent to ident NIC. see Jake feinler to determine status. Operations and User Development feedback sent to indent FEED. see <office=1, feed,="" feedback,=""> or Jim Bair for status.</office=1,>	61
DVN 20=MAY=74 19:38 23062 response to Response Location: (MJOURNAL, 23062, 1:W) ****Note: [ACTION] *****	6f1
I think "Force Case" is much nicer than "set Case mode". (mjournal, 23019, ig) How about "show markers" "Show File Marker" is two extra key strokes considering "marker" is a second character name in expert expert mode.	6f1a
OPERATIONS & USER DEVELOPMENT (UD)	6£2
ARC Environment	6£2a
KIRK 1=FEB=74 12:28 21723 NP for an Offquota command Message: The equivalent of an Offquota command (for the	

KIRK 1=FEB=74 12:28 21723

NP for an Offquota command

Message: The equivalent of an Offquota command (for the group allocation system) is needed to maintain the first=on, last=off convention and make cooperation among members of each group much less painful. This would allow you to keep your place in the offquota stack when another member of your group is scheduled to be onquota. Currently when you are automatically made onquota, you must log out to allow a scheduled person to log in.

6f2a1

Interface to video = tape cassette machines.

6£2b

Hardware

Mouse and Keyset

I want two mouse=sets with five buttons each instead

of one mouse and one keyset (KIRK) 6f2c1a

Typewriter terminals 6f2c2

KIRK Features desired in typewriter=like keyboard hardware for optimal user control. 24=JUL=73 20:47 (LJOURNAL, 17999, 1:w)

Printer 6f2c2a

RWW NP for a Printer Escape Mechanism

17=JAN=73 10:05 13857 Message:

A problem has arisen today which has been seen
before, namely someone sends a very large file or
large number of copies of a file to the printer and
then realizes he made a mistake, in the meantime the
printer is tied up for 20=30 minutes. Can an escape
mechanism be put in the system so the the operator can
tell the printer process to stop printing the current
file and move on to the next on in the gueue?

6f2c3a

TENEX (secondary distribution to KEV & DCW)

6£2d

The message "use downtime command to see new up=down schedule" would be a valuable thing if it only appeared when there was a new up=down schedule, (22176,) (KIRK)

6£2d1

JI TENEX/NLS File Compatibility : A mini-suggestion 30-0CT-73 07:55 19908 (JOURNAL, JRNL15, J19908: gwy)

6£2d2

DHC Archive 1sitings briefer 12=NOV=73 14:41 20174 Message:

I am really glad to see the Archive stuff getting polished, a VERY strong request, tho, is to make the printing of what tapes thefiles are on OPTIONAL (default to DON'T print). If the Archive system works properly, the user doesn't actually ever need to know the the tape numbers.

and it will greatly speed up the listing process. (Dave.)

6£2d3

JBN Repeated Request for Truncated Print of ARC SNDMSG 3-AUG-73 08:26 18187 Message: Again, I would like to request that local sndmsg be fixed so that it prints on 8 1/2 paper rather than across the printer paper. As you know, sndmsg from outside stops at the perforation, and it is inconvenient that ARC messages do not. I am sending this only to NP, If that is not the place, would you forward the request, -- Jeanne N

6f2d4

IMLAC

6f2d5

DHC IMLOAD for Imlacs attached to TIPS 23-APR-73 12:54 16048 Message: The IMLOAD program should be able to reload an imlac attached to a TIP port, just as SENDPRINT can divert output to a TIP port (ostensibly a printer). This way, a crashed imlac could be reloaded , using another trminal, without having to put a standard editor into the imlac.

TIP Divert output doesn't work. I have tried it many times and apparently too much dirty data get into the loader stream.

6f2d5a

DHC IMNLS changes that should be 25=APR=73 13:17 16163 Message: These two suggestions are courtesy of Mark Kampe:

6f2d5b

1. Make the functioning of the "direction" buttons an option which is user settable (It would be option "A", after option "O"). This would allow users to use the buttons, to control the cursor, instead of the bug, Also, please have UCLA's option begin enabled, Also, the option should not exclude use of the bug, while it is enabled.

6f2d5b1

2. Use the 'clear screen' instruction (or clear data area) as a button (page xmit?) on the board, under user control.

6f2d5b2

Scheduler

6£2d6

JEW scheduler gripe * 20=FEB=73 17:18 14551== Scheduler gripe It's a Nice Place to Visit, But Why Do I Have to Live There? Location: (IJOURNAL, 14551, 1:W)

6£2d6a

Archive System

6£2d7

JEW 4=MAY=73 14:08 16282 Adding a DELETE Function to BSYS Location: (IJOURNAL, 16282, 1:W)

6f2d7a

KEV 16=JAN=73 14:04 13827 archive status of nls files Message: It would be nice if nls propagated archive status when it did an update file

6£2d7b

DHC 13-JAN-73 11:03 13799

QFD

Message: It is very irritating not be able to use the "qfd" command in tenex, and therefore to have to print out a rather long directory list.

I can't believe it is computationally expensive to use that commands.

6£2d8

Network

6f2e

JEW NP NLS GLITCH, Underscore Represented as Vertical Bar for Net TTYs %man into UNDERSCORE BACKSPACE% 27=FEB=73 13:49 (IJOURNAL, 14810, 1:W)

6f2e1

NETWORK INFORMATION DEVELOPMENT (NIC)

6 £ 3

Functional Documents

613a

MEJ 4=MAY=73 18:14 16284 Desired Catalog changes Location: (IJOURNAL, 16284, 1:w)

6f3a1

JAKE 5=MAY=73 21:23 16300 Siteidents

Location: (IJOURNAL, 16300, 1:w)

6£3b

Comments: suggested method for assigning siteidents

6£3b1

RWW * 10=NOV=72 10:33 12718

Three Tasks Requested of JEW for Evolution of NLS
Integration into the NET
Location: (LJOURNAL, 12718, 1:w)

613C

DHC 12-JAN-73 11:42 13776

Making nls use the Net more Efficiently

Message: It appears that nls is quite inefficient in

composing network "messages".

6£3d

Clearly it has no choice when echoing characters, but when sending out relatively large quatities of data (and relative to single=byte echoing, 20 or 30 characters is a large quantity) a larger message=size should be attempted. Perhaps a 1000=bit (one packet) buffer, vs. 2=3 seconds between messages should determine transmission. I.e., try to filla packet, but if it takes mor than 2 or 3 (or whatever seems reasonable) seconds of real time, send the message off 'now'.

6£3d1

ik bits desn't seem like an unreasonable buffer (unless, of course, TENEX does nasty things to keep you from it.)

6f3d2

Please let me know what you think of my thinking. If I am off base, I would like to undestand how.

thanks,

6£3d3

ANALYSIS

644

feedback process

6f4a

28-MAR-74 0920-PDT BAIR: Feedback mechanisms Distribution: FEEDBACK, islei at ISI, bair Received at: 28-MAR-74 09:20:06

6£4a1

Jon, It all of a sudden has become very clear that we must coordinate on our separate feedback endeavors. We have a mechanism for subscribers to th Utility that is being refined now after 2 months of operation (see == bair, feed, 1) & SRI-ARC. I have looked at your groups document and could discuss it with you,

particularly from the viewpoint of a Behavioral Scientist. Anyway, we are having our final meeting next week (3 Apr). There seems to be no question that there will be 3 mechanisms, o at ARC, 1 at Office-1, and the NET. They have very different characteristics and serve different communities. Looking forward tohearing from you, Jim 6f4aia

JMB = A suggestion she sent in was forwarded to a programmer who in turn contacted her for more information that was specified in the original suggestion.

Reinforcement for distributing original text of items.

JHB = I would like to see an acknowledgment when action is taken, and only then. Otherwise the assumption would be that none was taken.

6f4a3

DVN 30=JAN=74 20:04 21688

Against Feedback for Now

Message: Please don't give me feedback on all the flack I
have been sending you!

These days, we are going though a kind of debugging of
newnls. Most suggestions are really notices of what the
sender thinks are bugs either in the code or in his view
of the was the system responds to the user.

As we get more settled, the situation will be different,
suggestions will be more constructive and long term. Then
it might be useful to give feedback. Perhaps request fo
feedback should be some kind of option.

6f4a4

6£4a2

KIRK 31=JAN=74 15:21 21700 Response to Susan's (21685,) Message: Your message asking whether NEWNLS stuff should be acknowledged is a good idea. It didn't mention the alternative of each user being able to easily find out what happened to his suggestion by going to the NNLS file, so you should judge the responses you get accordingly. I think you know my feelings, but I'll restate them here for the record. I think it would be nice to be able to get a message telling me the status of each of my suggestions each step along it's way to implementation, rejection, or the limbo of contention. However, this expensive service (even if pared down to a minimum single message acknowledging reciepty should only be undertaken if enough of a person's time (10-50% ?) to do it right has been allocated by analysis, operations, development or whoever. Until this time has been made available, I think we should concentrate on making the

feedback mechanism as accommodating as possible for someone to find what happened to their suggestion on their own.

6£4a5

JEW Dispatching Users' Questions Efficiently 2=0CT=73 14:39 19420 Message: Why not create an ident similar to NP and BUGS, called HELP, to which users can address questions (as opposed to suggestions or bug reports) about use of our system (eg., "How do I do such and such?")? This would not only alleviate the very common problem (in my exerience) of each person at ARC having to serve as dispatcher for questions that he can't answer, asked of him simply because the asking user knew his name; but it would also (I would guess) serve to generate a data base from which holes in our user guides could be patched, Maybe there is such an ident already and I don't know about it and nobody uses it (?), [Implementation Problem: There's already a branch in the Ident File (although not an ident) called HELP.]

6f4a6

KIRK NP for voting capabilities.

Z=JUL=73 19:12 17608 Message:

I would like to vote for Jeannes suggestion (17590,) in the NPS file but I don't know how. Is sending another Journal message the only way? It might be worth while to devise a simple voting system allowing people to associate their ident by someone elses suggestion in the NPS file. Decision makers might like to have an indication of how much user weight is behind a particular improvement. Maybe people would be more inclined to use the NP and BUGS files if they could easily vote for suggestions. I know one user who would feel he had a little more of a role in the bootstrap feedback process. (17611,) (DVN)

6£4a7

other

6£4b

JMB 24=JUN=74 12:31 23439
re <GJoURNAL,23429,3g6> New NLS NPs
Message: I think that #3 Show Return Stack which is under
the New Commands Desired section of ADDITIONS should be
moved up in priority to the New Commands Desired section
of CHANGES, because the lack of such a Command, or an
alternative solution, is an inconsistency (there is a
Show File Return stack command) and a serious frustration
in TNLS (there is no way to see where you will find

yourself before you go there, changing your stack == Slash in an address now works only after you give the <CA>), and is even more than an NP in my opinion.

*****Note: [ACTION] ****

6£4b1

KIRK 16=APR=74 12:21 22742 My notes of the observations of Sandy trying to learn xn1s Location: (LJOURNAL, 22742, 1:W)

6£4b2

Assigned tasks: > see < nls, mods, > this needs to link to mods or something to avoid duplication. It also hasn't been updated in over a month. If you could mark the appropriate status for each item, I'll put it in the appropriate category (done, rejected, Future discussion item, or Assigned to XXX, I guess "on the list in MODS" would also be an appropriate category.) That is the primary difference between the "Assigned" branch in FDBK and MODS. MODS has the assigned person's IDENT by the item where assigned, and FDBK has them in branches. Lets pick one way of doing it and eliminate the duplication of effort across files.

7

7a people to be done for NLS=8.2 see <NLS, MoDS, MoDS> 7a1 CHI == FRONTEND, CML, SENDMAIL EKM == GENERAL NLS, COBOL INTERFACE <see == nls, mods,> 7a2 7a3 EKM == CALCULATOR, OUTPUT=PROCESSOR, 7a4 KEV == TENEX INTERFACE, PDP=11 7a5 DSM == USERPROGRAMS, FDBK interface 7a6 KJM == SECRETARIES INTERFACE 7a7 STAFF -- MYSTERY BUGS 7a8 HGL == HELP SOFTWARE 789

DVN, JMB, KIRK: DOCUMENTATION, HELP INFO CONTENT <see == done>

DIA -- LINEPROCESSOR, CML compiler Charles, I'm trying to clean out the feedback file, Could you look these over and note which ones have been fixed, or wont be fixed? DIA says this should be done by you... He also said

the only one he thought would not be fixed is the LP=to=Tasker bug reported by DVN

7a10

KIRK lineprocessor bug 14-AUG-74 14:52 (GJOURNAL, 23794, 1:W) ****Note: [ACTION] *****

7a10a

Going into his when your initial file partial copy is busy at another job freaks out or hangs your lineprocessor job.

7a10a1

RLL 5=JUL=74 07:23 23526

LP bug. When tabs in text and updating done.

Message: For DNLs and the line processor (with Delta D):

When there are tabs in text the LP messes the display up

after one does updates, e.g., replace word or character. It

appears that the updated line is split into two lines with

the first part on the line below (yes below) and the rest of

the line as it should be, call me or try it yourself.

Robert

****Note: [ACTION] *****

7a10b

NDM 8=JUL=74 13:08 23547
Line Processor Troubles: Tabs
Message: When I edit a line with tabs in it, the system goes
to rewrite the statement, and after the line with tabs is
puts in an artificial blank line. Viewspec=f works
properly.
*****Note: [INFO=ONLY] *****

7a10c

NDM 8=JUL=74 08:11 23544
Line Processor Troubles: SENDMAIL message
Message: I did a message and it blanked part qof the screen
(on Line Processor). That part was never restored.
*****Note: [INFO=DNLY] *****

7a10d

NDM RLL 10=JUL=74 12:27 23569

Line Processor Troubles: Move Boundary
Message: On the Line Processor, in New NLS, viewspec w (all
lines all levels), when I Move the Boundary of a
horizontally split screen, only one line of each statement
is displayed. It is cut after 72 chars, even if that falls
in the middle of a word. If we turn off level indentation,
more of the statement appears (filling the 72 char line).
It seems the only way to recover is a TENEX reset! Haven*t

tried old NLS or work. ****Note: [INFO=ONLY] *****

7a10e

NDM 10=JUL=74 12:37 23570

Line Processor Troubles: Backspace in Literal Input
Messace: While typing in a literal (like in Insert Statement
or now during SENDMAIL Message), I type two lines, then
begin the third and see a Mistake in the second. So I
backspace through all of the third line, then the next
backspace erases the char/word from the top line rather than
the second line. It actually does the right thing to the
literal, but displays it wrongly. Further backspaces are
displayed properly.
*****Note: [INFO=DNLY] *****

7a10f

NDM 11=JUL=74 09:02 23595
Line Processor Troubles: Update File Compact
Message: Update File Compact, on the Line Processor, tries
to refresh the display when it's about done. It takes some
lines down, puts some back up, and leaves me with a screen
resembling my file but with pieces of it randomly
disorganized (in their placement on the screen).
*****Note: [INFO=ONLY] *****

7a10g

18=JUN=74 1807=PDT BAIR at OFFICE=1: Line proc error Distribution: FEEDBACK AT SRI=ARC, bair Received at: 18=JUN=74 18:06:57

7a10h

When doing a Jump to item, (got pbug error indchr.... It continued in this mode apparently unable to accept a mouse bug.

7a10h1

18=JUN=74 1814=PDT BAIR at OFFICE=1: lineprocessor Distribution: IRBY AT SRI=ARC, FEEDBACK AT SRI=ARC, ANDREWS AT SRI=ARC, bair Received at: 18=JUN=74 18:13:53

7a101

perhaps something has changed, but I cannot get this thing to work in DNLs at Office=1. It crashes consistently after the third command in DNLS!!

7a1011

RLL 19=JUN=74 13:39 23410
refresh bug in LP
message; Using the line processor (Wash), while in Sendmail,
I typed a long message of about 16 lines. Loaded file was
deleted line pr line as it should be when inserting text of

messace. however when done, the message was cleared and the file text was not refreshed, that is I had about 16 or more lines that were blank. Did a refresh via mouse buttons and viewspec f. Got all lines back but when doing the message bit again in sendmail, the lines were not erased before the new text was typed, Since it is happening now I do not know if the line will reappear when I finish this message. Robert.

*****Note: [ACTION] ****

7a10j

DVN 27-JUN=74 16:41 23486 SCSR JSYS error crstr Message: For what it matters, when I quit at tasker, detacched, attached at the line processor, and atempted to continue, that was the error message I recieved, succeeded by a series of "NLS Display Error." *****Note: [ACTION] ****

7a10k

NDM 27=JUN=74 13:57 23482 Line Processor Troubles: Split Screen Message: I have a horizontally split screen. In the top window I have viewspec g on (branch only) so part of the window is blank. I deleted one of the statements in the top window. The boundary and bottom window moved up to delete the line, but never moved back down.

7a101

Comments: happened in both old and new NLS

7a1011

RLL 26=JUN=74 07:29 23475 Bugs in viewing (maybe LP problem) Message: Two bugs: DNLS at the lineprocessor; 1) When having split screen (horizontal), with lower half having frozen st on (viewspec o) I did a viewspec K (signatures on) and f (refresh) the frozen statement dotts disappeared (there were no frozen staements at the time). Turned on viewspec o again, tried viewspec L (sign, off) and f(refresh) and again the dots disappeared, turning viewpec o and f on worked. My guess: on split screens with fronzen statements on, refreshing the screen causes the frozen st to be turned off, tried the same with no oslit screen and had no problems. (2) with no split screen tried viewspec K and f. got strnage view, namely it appears that the system thinks i have a very wide terminal, the whole staement appears (if I could see it) on one line. Of corse this cuts the staement off in the middle of what ever is the 72 character, only way out of this is by resetting NLS, again; this is DNLS

with Lineprocessor.
****Note: [ACTION] *****

7a10m

18=JUN=74 1807=PDT BAIR at OFFICE=1: Line proc error Distribution: FEEDBACK AT SRI=ARC, bair Received at: 18=JUN=74 18:06:57

7a10n

When doing a Jump to item, (got pbug error fndchr.... It continued in this mode apparently unable to accept a mouse bug.

7a10n1

18-JUN-74 1814-PDT BAIR at OFFICE-1: lineprocessor Distribution: IRBY AT SRI-ARC, FEEDBACK AT SRI-ARC, ANDREWS AT SRI-ARC, bair

Received at: 18-JUN=74 18:13:53

7a10o

Perhaps something has changed, but I cannot get this thing to work in DNLS at Office-1. It crashes consistently after the third command in DNLS!!

7a10o1

5=JUN=74 1635=PDT MEYER at OFFICE=1: Line Processor and SENDMES User Program

Distribution: FEEDBACK, irby at ARC, andrews at ARC, white at ARC

Received at: 6 - JUN = 74 04:47:50

7a10p

Line Processor only gets blown out by SENDMES when SENDMES goes to try a network delivery. Jim White, ideas?

7a10p1

NDM 31=MAY=74 07:33 23175
Line Processor Troubles: Empty Screen
Message: Still awaiting new Line Processor and new program,
so don't know if this is fixed in new setup. After running
a Content Analyzer that returns "Empty", X recreate displayy
with viewspec j does NOT take down the "Empty". It just
writes over it when overlap.

7a10q

NDM 23=MAY=74 06:06 23086
Line processor Troubles; Horizontally Split Screen
Message; Screen horizontally split, I delete a statement in
top window; boundary and all bottom window jogs up one line
as it erases deleted line, then STAYS there, Recreate
display in bottom window does right thing but top line of
bottom window remains (duplicated as) bottom line of top
window.

7a10r

MEH JHB KIRK 16=MAY=74 14:45 23023 lineprocessor feedback Location: (MJOURNAL, 23023, 1:w) *****Note: [INFO=DNLY] *****

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same bug as one listed previously. reset tip Channel by disconnecting modem. works ok now. for some reson tip gets in a state where it will not listen to . 7a10s8a

NDM 9=MAY=74 14:34 22933 Line Processor Troubles: Dialog to date Location: (MJOURNAL, 22933, 1:w)

7a10t

Comments: Summary of Line Processor dialog in which I have been involved.

7a10t1

DVN 4=MAR=74 22:07 22182 Line Processor and XNLS Problems Location: (HJOURNAL, 22182, 1:w)

7a10u

I am working tonight in XNLS through the line processor, so I am sending my problems in both directions,

7a10u1

Fragments of my origen statement are all the time floating in my input text; likewise my input text runs in: o the top lines of my file. The fragments of the origien statement are, I guess, the source of ORG in caps which floats up some times.

7a10u2

Sometimes when I do jump to item the screen removes a middle item or two, moves the jumped-to item up to second place, and waits for a recreate display before making further modifications.

7a10u3

On one occasion Update File Old, pruduced some kind of jumble on the screen. <control=t> followed by <control=C> produced a complete jumble including the tenex teletype image, and various fragments of my file. I reset.

7a10u4

Just now it worked fine.

7a10u4a

Finally some one on a TI linked to me, I hit <control=c> to see more lines. That got me the teletype face plus a jumbled NLS screen, I reset. Then she wanted me to try something in new TNLS. I reentered WORK intending to simulated terminal type TI. But I was greated with a new high in garbage. All kinds of shit like I'd not set up the line procesor properly..eg <control=c> echoed with a string of chracters. I went to another terminal.

7a10u5

7a10u6

JEW == PROTOCOLS

I'm trying to clean out the feedback file. Could you look these over and not which ones have been fixed, or wont be fixed?

7a11

DVN 19=JUN=74 11:57 23407
You Can't Write on Updates from Journal Files.
Message: When you update rename from a journal file to make a copy to work on, the new file inherits the journal file's unwritability. If then update compact to a thrid file, you can write on the compacted file.
*****Note: [ACTION] *****

7a11a

NDM 23=MAY=74 07:45 23087
Bug in User Program SENDMES
Message: The user program SENDMES cannot send messages to
Tom O'Sullivan, possibly because of the apostrophy in his
name, I can neither type it in nor accept the name offered
by the ident system. It blows out the line processor too.

7a11b

Comments: I assume this will also be a bug in the new system's equivalent subsystem.

7a11b1

4=JUN=74 0521=PDT MEYER: SENDMES
To: feedback
Distribution: FEEDBACK, white
Received at: 4=JUN=74 0536:34=PDT

7a11c

I only wrote the interface to Jim white's SENDMES. I haven't the skill nor the time to fix it. I would hope that the code does get fixed before it is made a part of the running system (in new NLS). -- Dean

7a11c1

NDM 31=MAY=74 07:31 23174

Journal SUBCOLLECTIONS command

Message: In Old NLS, in the journal subcollection, I can't specify the subcollections SRI=ARC (the dash won't come out) nor NSW (I type N at it puts up NIC). Also, with each character I type, it does (on the line processor) a complete recreate display. Also, it doesn't ablow backspacing.

7a11d

JDH == FROZEN NLS
I'm trying to clean out the feedback file. Could you look
these over and not which ones have been fixed, or wont be
fixed?

7a12

3-JUL-74 2304-PDT KELLEY: there is an undeliverable mail file in my directory Distribution: FERGUSON, FEEDBACK, white Received at: 3-JUL-74 23:04:30

7a12a

I think it is the result of a bug in	n the new SNDMSG.	7a12a1
--------------------------------------	-------------------	--------

DCE 10=JUN=74 15:44 23317

Bug in sort process for executable text
Message: Sort plex process didn't use instituted SORTMERGE
program (I was using SORTREV) when executed as a command
statement via Process Command Statement (i.e it sorted in
normal ordering), yet the proper use of SORTEV ocurred if I
executed the Sort plex operation by hand == no change in the
status of the program buffers or program=institution
assignments between these trial. Repeatable inconsistency,
****Note: [ACTION] *****

	7a12b
JCP TENEX	7a13
to be done by 1 July 75	76
ESSENTIAL TASKS: Estimated Resources	TOTAL 18=20 751
New NLS=8 to Office=1	9 7bla
NLs Frontend Backend Split	3 7b1b
COBOL Programmer's Interface	7b1c
Make current NLs available in the NSW COBOL environment	2
and develop a basic training pack	age 7b1c1
Develop a preprocessor and an interface to a remote job	2
entry facility	7b1c2
Documentation and Publication	7b1d
Training package	1 7b1d1
Interface Output processor to special output devices	1=3 per device depending on its characteristics 7b1d2
vadidications to NES dies sustan	
Modifications to NLS file system expected	0 no changes
required	to be 7ble
to wait until after 1 July 75	7c

Done: to be documented, See <nls, mods, done>

8

Documented tasks, fixed bugs, and answered questions
> Bugs listed here are fixed. For items completed prior to
September 24, 1974 see <HJOURNAL, 24051, documented>.

9

DVN 15-MAY-74 20:04 23013 HELP Problems Location: (MJOURNAL, 23013, 1:w) ****Note: [ACTION] *****

9a

I tried to use HELP to answer Laura Gould's question about the state of anglebrackets:

9a1

"show content" informs you only about content in the sense of a global. I will undertake to fix that.

9a2

"anglebrackt and "angle-bracket" were not found. I will fix that.

9a3

The table of intrafile addresses menued under ADDRESS is confusing if you hit it cold. It should probablly be labled a table where it appeares as a menue item and might use a few words o introduction. I could do that, but JMB knows that part of the file better.

9a4

(2a2) [kjm] =0102= Numbers on the right look different on an output quickprint than on a display: both output media should have identical formatting appearance (feedback,fdbk,02761)

96

Write Function statements for User-options

90

HGL 19=DEC=73 15:54 21028 update ident documentation.
Imminent IDENT System Changes== Of interest to programmers and PSO
Location: (MJOURNAL, 21028, 1:w)

9d

Write all of the Jump commands

9 e

[HGL] when I went to EDITOR, my help image stayed on my screen. When I hit f, I got both my help image and the file I had been in. I had to log out to get rid of the HELP image.

9£

SRL 4=JUN=74 14:07 23364 Mispelled word in Help

Message: In INFILEADDRESS, menu is spelled menue

****Note: [ACTION] ****

99

RLL 11-SEP=74 07:42 23937
bug: terminating space gives delete command. (jump file return)
Location: (HJOURNAL, 23937, 1:w)
*****Note: [ACTION] *****

9h

If one types jump file return <space> the command is deleted instead of theusual ?. This is in the nis system (as opposed to the work system) 11 Sepp 74

9h1

DVN 30=AUG=74 17:23 23899
Name *string*=3 Seems to Loop
Location: (HJOURNAL, 23899, 1:w)
*****Note: [ACTION] *****

91

If you jump to an address as follows, the system runs indefintily without conclusion whether or not the addressed thing exists: statementname "string"=3.

911

Control=c does not stop it.

912

26-AUG-74 2136-PDT KELLEY: work copy file bug Distribution: MAYNARD, feedback Received at: 26-AUG-74 21:36:18

95

Copy file created the origin statemet of the new file in the new directory i specified but did not copy any of the contents of the file!! It was an nls file <user=progs,sortkeys,> I tried to copy it to programs,sortkeys,> (did it by copy plex).

911

KIRK CALC ident 1-AUG=74 20:11 (GJOURNAL, 23714, 1:w) *****Note: [ACTION] *****

9k

I find after people use the calculator, they sometimes have the ident CALC. Files they modify are locked by CALC and statements they modify are "signed" by CALC in the signature. I haven't determined exactly what causes this, but it is serious enough to be looked into and fixed. For example, I would like to know who last modified the statement at <documentation, help, output! terminal: K> but you can see the statement signature says "CALC".

9k1

27-AUG-74 0115-PDT KELLEY: CD bug Distribution: MAYNARD, feedback Received at: 27-AUG-74 01:15:49	91
CD <ctrl=x> doesn't work after accidently typing <ctrl=u> for a DSEL.</ctrl=u></ctrl=x>	911
RLL 3=SEP=74 15:15 23916 bug ussng jump to name external win split screens. Location: (HJOURNAL, 23916, 1:w) *****Note: [ACTION] *****	9 m
	9 m
FST entry nonextistent message with pushdown overflow t 34013, This happened when I tried a jump to name external command for a link in the file of links. The situation was during a three window configuration: one vertical split and the left side split horizontally, the jump was to load the lower left window. I tried this three (3) times with exactly the same results, (ussng NLS not work of course), Rob	9 m 1
[] Frozen statement bugs	9n
Freeze is first level in DNLS, Force is Second level in DNLS, Force is first level in TNLS, Inconsistent, Change Force to First level in DNLS.	9n1
NDM Bug in PROGRAMS command Load Program	
8=JUL-74 08:18 23545 Message: I can type in the name of a user program in my directory and it works, but when I bug the same name, it says "File not online".	
****Note: [ACTION] ****	. 90
[] Tab command	9p
11-SEP-74 0117-PDT KELLEY: tab command	
Distribution: MAYNARD, feedback	
Received at: 11-SEP-74 01:17:55	9P1
does not take you to the beginning of the statement. I	
fixed that?	9p1a
23-AUG-74 0157-PDT KELLEY: bug with current marker and the TAB command	
Distribution: MAYNARD, feedback	9n2

It seems when viewspec capital B is on, the tab command displays the statement containing the content starting from the location of the content in the statement in DWORK.	om 9p2a
[] Temporary modifications bugs	99
DVN 6=JUN=74 08:11 23282 VANNOUHUYS[SEND=MAIL].DVN;1 is in browse mode Message: Last night hwne I went to send a journal itme I got that message.I had some time before set modifications temporary to read a message in my initial file that was more than one screenful. I went back to my initial file and reset modifications but when I went to send the journal item, I got the same message and no completion. *****Note: [ACTION] *****	
	9q1
KIRK 24=JUL=74 18:49 23676 Comments do not work in Help links Location: (GJOURNAL, 23676, 1:W) *****Note: [INFO=ONLY] *****	
******Oce: [Turd=OuPr] *****	9r
I think it must be trying to parse the comment. Jump to linworks fine. An example is at <documentation, help,="" nouns="">.</documentation,>	nk 9r1
[] prompts	95
2=SEP=74 1916=PDT KELLEY: prompti ng Distribution: FEEDBACK, maynard Received at: 2=SEP=74 19:16:40	951
Output Jounal (quickprint) OK: leaves the user with > until he hits CD and C: reappears.	9s1a
26=AUG=74 0415=PDT KELLEY: SSEL and DSEL prompts Distribution: MAYNARD, feedback Received at: 26=AUG=74 04:15:45	952
They do not match the order of explination in questionmar! It would facilitate the learning of the meanings of the prompts greatly if the order of alternatives listed matched between prompts, questionmark, and help, can fix	
help if you can fix either the prompts or	952a
the questionmark message.	
[] External name problems	9t

RLL 25=JUL=74 16:08 2368 ===IGNORE===1
bug: set external file and jump name extenal commands in te
EDITOR.
Location: (GJOURNAL, 23681, 1:w)
*****Note: [ACTION] *****

9t1

the set external file name command in the EDITOR (not the userop subsystem) does not work as is discovered by trying a jump name external command.

9t1a

Comments: Ken : Charles witnessed the events.

9t1b

KIRK 12-SEP-74 21:55 23960
Insert Sendmail form doesn*t work
Message: "NLS internal error, string too long"
*****Note: [INFO=ONLY] *****

9u

fixed

941

[] Sendmail bugs

9 v

26-JUL=74 0118-PDT NORTON: Journal and Preassigned Numbers Distribution: FEEDBACK, IRBY, norton, lee Received at: 26-JUL=74 01:18:21

9v1

I can't get the Sendmail subsystem to accept preassigned numbers tonight. It may well be a bug. I managed to send in a document that has been published under a preasigned number, but I think I got a new one ugh!!! Jim

9v1a

JEW 20=AUG=74 11:43 23827 Journal Bug: One Statement Public Item Stored as File Location: (GJOURNAL, 23827, 1:W) *****Note: [ACTION] *****

942

E.g. (gjournal, 23820,)

9V2a

KIRK 14-SEP=74 15:46 23970

Bug with Sendmail creates a file for items under 2000

characters

Message: A journal file is created for even the smallest of messages if it happens to come from a statement already in a file instead of being typed in. If this disc space waster and inconvenience for the user is a feature instead of a bug, or if it is not going to be fixed, please let me know so I can change the documentation.

*****Note: [ACTION] ****

9 V 3

KIRK SENDMAIL Process Sendmail (form) would not process the MESSAGE in this status form I had inserted.
1=AUG=74 20:14 (GJOURNAL, 23715, 1:w)
*****Note: [ACTION] *****

944

TITLE: CALC ident AUTHOR(S): KIRK SEND FOR ACTION TO: bugs ekm

MESSAGE: I find after people use the calculator, they sometimes have the ident CALC. Files they modify are locked by CALC and statements they modify are "signed" by CALC in the signature. I haven't determined exactly what causes this, but it is serious enough to be looked into and fixed, For example, I would like to know who last modified the statement at <documentation, help, output!terminal: K> but you can see the statement signature says "CALC".

9 v 4a

The message field, as with all others execpt the SENDIT field, must termiate with a CR!!!

9 V 4 b

1 Split screen problems

9 W

6-AUG-74 0956-PDT LEE: nls problem Distribution: FEEDBACK Received at: 6-AUG-74 1001:17-PDT

9w1

I got Illgal Statemet Return Ring after trying to move a horizontal boundary offthe screen. The screen went blank and I had to do a reset to continue. I had been doing repeated moving from one window to the other, had changed viewspecs a few times and had printed a few things... thought I'd let you know the problem is still around

9w1a

22=AUG=74 2138=PDT KELLEY: current entry empty in readfrring Distribution: IRBY, FEEDBACK, MAYNARD, MARTIN Received at: 22=AUG=74 21:38:04

9w2

Illegal statement return ring message appeared when trying to use the Delete Edge command. current entry empty in readfrring appeared when trying to jump to return after deleting edge by Move Edge.

9w2a

22-AUG-74 2245-PDT KELLEY: Illegal statement return ring with Edges deleted

Distribution: FEEDBACK, IRBY, MAYNARD, MARTIN Received at: 22-AUG-74 22:45:35

9w3

by Move Edge. Seem to occur in Work after the second split is deleted.
An improvement over the running system, but still annoying.

9w3a

JMB 17=MAY=74 16:29 23037

DNLS session problem

Message: My Statement Return Stack goes bad a lot
(errormessage: Illegal Statement Return Ring). Why is that and
how do I fix it, that is, once I ve gotten that message Jump to
Return won't work for the rest of that NLS session?

*****Note: [ACTION] *****

9 w 4

KIRK 1=JUN=74 03:58 23360
Bug in number of lines on the screen after a horizontally split window.

Message: There is one less line on the screen after splitting the window horizontally in the experimental system. In what Ifm doing, this forces me to stop and reset.

9 W 5

SRL 1=JUL=74 12:05 23498
NLS out of space for LSRT
Message: I had been working for about an hour with split
screens on, turned them off, connected to a new directory,
loaded a file, tried to split screen again, and got "NLS out of
space for LSRT" and a blank screen,
*****Note: [ACTION] *****

946

31=AUG=74 2327=PDT KELLEY: The one=less=line bug is back after inserting and deleting a horizontal edge.

Distribution: MAYNARD, IRBY, martin, feedback Received at: 31=AUG=74 23:27:57

9w7

Inserting and deleting a horizontal edge results in 19 lines on the screen instead of 20. I thought this bug had been fixed?

9w7a

] Jump to Return bugs.

9x

KIRK 17=MAY=74 12:10 23031 Illegal Statement Return Ring after Horizontally Split Screens Message: Err is calld from READSR+6 called from XRINGJUMP+31.
****Note: [ACTION] *****

9×1

30-MAY-74 1420-PDT FEINLER: split screens Distribution: FEEDBACK, feinler Received at: 30-MAY-74 14:20:56

9×2

Split screens has some noticeble bugs (I think). I could get the screen split but could not move the boundary back to one view. Got message illegal statement return ring. Can somebody take a look at this. JAKE

9x2a

KIRK 22=AUG=74 14:59 23863 Illegal statement return ring Location: (GJOURNAL, 23863, 1:w) ****Note: [ACTION] *****

9×3

After removing a split screen, you invarably can no longer jump to file return or jump to return because someone did not fix the split window code to correctly update the statement return ring. Immediately before removing the split window, both file return and statment return work fine. I find myself going out and resetting every time I use a split window and avoiding using a split window as much as possible.

9x3a

19=JUL=74 0844=PDT LEHTMAN; Jump Return bug (cont.)
Distribution: IRBY, VICTOR, feedback
Received at: 19=JUL=74 08:44:21

9×4

Seems to happen only after split screen window has been deleted.

9x4a

19-JUL-74 0841-PDT LEHTMAN: Jump to return bug Distribution: IRBY, VICTOR, feedback Received at: 19-JUL-74 08:41:53

9×5

I get the message "Illegal statement return ring" when trying a "JUMP TO RETURN" in the new NLS, (Which is nothing new I guess, but I thought that had been fixed. What can I do to track it down?)

9x5a

JHB 9-AUG-74 11:03 23751 New NLS Bug in Return Ring Location: (GJOURNAL, 23751, 1:w) ****Note: [ACTION] *****

9x6

New NLS Bug:

9x6a

This is an attempt to accurately document a recurring problem with the hope that something will be done, and to help as much as I can before bitching about bugs that don't seem to get fixed.

9x6a1

Situation: 2 hrs of online work with 10 files listed in the file return ring. Using the Jump to File Return command and spacing back through the ring to my initials file.

9x6a2

Error msg: "file numbers do not match in storesrring".

Repeated the command and spacing with same error msg.

Then attempted Jump to Link typing in the filename ==
received same error msg. Load File also produced the
same error msg. Help from programmers was not available
due to higher priorites. Since I was in a file that I
did not have write access to, the only alternative was to
reset NLS. A check of my initials file indicated that
the Journal was not writing on it at the time I tried to
return to it. Of course there was a partial copy.

9x6a3

Recurrance: This kind of problem has occurred numerous times in recent weeks. This is the first time I have been able to document it completely. It occurred in 3 demos with different error msgs and occurred with Jump to Return as well (the previous window was simply not there).

9x6a4

[] Jump to File Return bugs, (GJOURNAL, 23744, 1:w)

9v

Rww 7=AUG=74 14:42 23744 bugs Location: (GJOURNAL, 23744, 1:w) *****Note: [ACTION] *****

911

Two bugs. In the calculator the accumulator value no longer shows up in theright hand corner and should. Second, jump file return has a bug as when you try to move around the ring to go back by hitting space bar after about three hits it just goes and theen gies an error message.

9y1a

15-AUG-74 2110-PDT BAIR: New NLS Bug: Jump to File Retun

Distribution: FEEDBACK, irby, maynard Received at: 15-AUG-74 21:10:16

942

It would jump back one file in the stack , but space to call the next resulted in "exceed capacity". Screens were not split at the time, but had been. I was still in the original window. What would it take to get to get this attended to????

9y2a

12-AUG-74 0854-PDT BAIR: New NLS bug Distribution: FEEDBACK, bair, irby Received at: 12-AUG-74 08:54:29

9 v 3

Received "exceed capacity" when executing Jump to file return. Jump to link worked. Not related to disc usage. The same command worked after that with out reseting. Nedd any more info?

9y3a

RLL file retun ring bug. 23=JUL=74 16:56 (GJOURNAL, 23670, 1:W) ****Note: [ACTION] *****

944

got the message 'insufficent space in file ring//' after a oad file and a jump to link Command. Bad.

9y4a

] Frozen statement bugs

92

JHB 5=JUN=74 10:47 23275

New NLS Bug

Message: When I delted a statement by bugging it as a frozen statement, it was removed from the frozen st. window, but not from the file. The statement in the file was "bad statement identifyer". An Update compact removed the statement and those immediately adjourning it as well. I have delted and edited frozen statements successfully in old NLS.

*****Note: [ACTION] *****

921

DVN What Happens when the Split Screen is too Narrow for the Statement Numbers 12-AUG-74 12:09 (GJOURNAL, 23770, 1:w) *****Note: [ACTION] *****

940

I split the screen in regular NLS vertically. It happened the file on the left was deeply indented and had statement numbers on. They were so long and had so little space left there was no room for the whole number in some cases. The message "NLS

Display Error" flashed by. Undaunted, I did some jumping around in the other file. Then I was through with the deeply indented file and tried to move the boundry off the screen to the left. It poped me into exec, printed out a series of "NLS Display Error" and then "Pushdown Overflow at 30443".

9401

DCE Suggestion: Some DNLs feedback messages should stay up 13=AUG=74 14:05 (GJOURNAL, 23787, 1:w) *****Note: [ACTION] *****

9aa

I had bad problem: submitted a Journal entry using process=Form statement; usually takes fair time and I turn away to do other things. This one occassion an ident was unaccepable and the journal system rejected the item, but the feedback message being transitory didn't come to my attention. I could have seen it by hitting "C, but didn't think of it. I apparently did this twice within an hour -- sending a number of messages and Journal items and I thought that I had just gotten mixed up about what I had sent.

gaa1

I don't see that we would lose much if the "completed" and e.g. the "Illegal ident(s) [mail not sent]: EJM" messages were "permanent", i.e. set up in the comment field for the user to bump off (e.g. by hitting "; CR CR CA). The same sort of situation exists for doing a File Verify == I'd like a positive statement of the results that stays there until I remove it.

9aa2

2=SEP=74 2001=PDT KELLEY: bug with default directory for links Distribution: FEEDBACK Received at: 2=SEP=74 20:01:26

9ab

The default directory for links many times gets set to the directory of the person who last updated the file irregardless of what it was set to using the Set Link (default ...) command. This bug should be fixed.

9ab1

JEW 21-AUG=74 09:55 23833

Opening <SYSTEM>GROUP, INDEX thawed or not at all Location: (GJOURNAL, 23833, 1:w)

*****Note: [ACTION 1 *****

9ac

It's sometimes impossible to get into NLS because it can't get at the group file. Does that file still need to be accessed by NLS (since the login ident has already been verified); if so, why not open it thawed?

9ac1

DVN Problems Associated with Process Commands in Branch

3=JUL=74 08:55 (GJOURNAL, 23517, 1:W) *****Note: [ACTION] ****

9ad

The command ""Substitute Text Plex (vannouhuys, directory, 1)

9ad1

processes fine, "The command ""Substitute Character Plex (Vannouhuys, directory, 1)
v " blows up.

9ad2

This journal item is written in three statements because various funny problems seem to arise when I end statements with . For example I was unable to insert text after the above and when I refresh display, sometimes I see "<"T>" or "<NULL>" there.

9ad3

I CANT UDERSTAND WHAT THIS IS SUPPOSED TO BE!!??? -- CHI

9444

[HGL] COM bugs

9ae

27-JUN-74 0717-PDT MEYER at OFFICE=1: Bug in Output Processor Distribution: MICHAEL AT ARC, FEEDBACK AT ARC, meyer Received at: 27-JUN-74 07:17:48

9ae1

Output COM offers as a default a file not in the COM directory (I think it's putting the file in take <PRINTER> directory where it's spitting out garbage and then disappearing; hard to tell from DC.)

9aela

Elizabeth, have you had a chance to look at the directives in (meyer, affichetest,)? Maybe we can get that out tonight, Call me or link or something.

9ae1b

--Dean

9ae1c

28-JUL-74 2111-PDT FERGUSON: prob with insert sequential in TNLA Distribution: FEEDBACK Received at: 28-JUL-74 21:11:51

9af

When i do an inserrt seq. in TNLS, after everything has been specified, and i get the mesage "Insert seq. in Progress" I then get blown out with "NLS Systme error: illegal file # passed to FLNTADR" Any suggestions??

9af1

=(23116,) (MDK) "p" is not recognized in expert mode, yet two

command words (playback and protect) are certainly candidates. I know "p" is "print" in TNLS, but why make DNLS users suffer? 9ag

NDM 17-SEP=74 09:35 31062
Bug in Split Screens on Line Processor
Message: I am still bugged by not being able to bug anything in
the top line of the bottom window in a horizontally split screen.
*****Note: [ACTION] *****

9ah

The Set TTY (simulation for window) command is not working in work. This appears to be a CML problem (the wrong address for the parameter "ent" is getting passed to the xroutine, xset !)

9ai

KIRK 21=SEP=74 23:10 24025

Vertical Split in the bottom of a Horizontal bug

Message: Deleting the vertical split causes a line to be

over=writen and can get you into a place where the whole bottom

window is overwrittn with the top window. Action in bottom window

works except for Deleting or Moving Edges...

*****Note: [ACTION] *****

9aj

This also can happen when horizontally splitting the top Window of a horizontal split.

9aj1

17 SEP=74 0854=PDT IRBY: ident subsys and nls=8 Distribution: KELLEY, feinler Received at: 17=SEP=74 08:54:04

9ak

kirk, we have moved a copy of the "show record for ident" command into SENDMAIL. The rest of the ident subsystem will not be a part of standard nis=8. Jake and others will have access to it but most other users will not. == Charles. p.s. The implications of the for documentation is not too clear accept that it removes some of the immediacy from it.

9aki

KIRK 25=SEP=74 00:25 24052

Bug with Compile Program

Message: Bugging (CML,) for the (using) and (filename, CML;) in the Compile File command results in the message "no such directory" then a second attempt says filename.cml; i is busy. Used to work.
*****Note: [ACTION] *****

9a1

KIRK 24=SEP=74 15:30 24043

Bug with move file in NLS

Message: When using the move message command, I get the message

FDBK 30=SEP=74 16:17 24104

User Feedback Decisions leading to NLS=8,2

File Not Online ... Copy message works fine. NDM says the problem is a bug in the Move file command in nls that occurs with TXT files. Is this true? If so, will you (Ken) be fixing it? ****Note: [INFO=ONLY] ****

9am