Love and madness

All might be mad, but love can still exist.

Love and madness

(J23055) 20=MAY=74 17:04; Title: Author(s): Robert N. Lieberman/RLL; Distribution: /SLJ([INFO=ONLY]); Sub=Collections: SRI=ARC; Clerk: RLL;

link stack = failure to update version,

If one updates a file, jumps to a new file, control C's to the exec, deletes old version of first file, continues, and then tries a jump file return (j[ump] fr in TNLS) then one gets the messge no such version. My guess: link stack does not get updated to most recent version.

link stack= failure to update version.

(J23058) 20=MAY=74 17:14; Title: Author(s): Robert N. Lieberman/RLL; Distribution: /FDBK([ACTION]); Sub=Collections: SRI=ARC; Clerk: RLL;

link stack = failure to update version.

If one updates affile in new nls (tnls), jumps to a new file, control c's to the exec, deletes the old version of the first file, continues, and tries a j(ump) .fr in TNLS then one gets the messsage 'no such version'. Link stack appears to not have been updated to latest version number.

link stack - failure to update version,

(J23059) 20=MAY=74 17:23; Title: Author(s): Robert N. Lieberman/RLL; Distribution: /FDBK; Sub=Collections: SRI=ARC; Clerk: RLL;

send-mail.rll partial copy left around

On occasions, not sure at moment exactly which ones, the file [send=mail],pc appears in directory with the ,rll extension having nothing in it besides the statement 0 and message that no content was specified, this has occurred after a sucddessful journal submission (I think successful) as well as after no sendmail submissions. A related bug: after deleting both the ,rll and ,pc versions of send=mail file, once a got a *no such version* message after doing the messge, title, send to,, and done commands in sendmail subssystem. My guess, system some how thought old send=mail.rll was around but it was not discovered it was not there until *done* commmand.

send-mail, rll partial copy left around

(J23060) 20=MAY=74 17:30; Title: Author(s): Robert N. Lieberman/RLL; Distribution: /FDBK; Sub=Collections: SRI=ARC; Clerk: RLL;

response to Response

Susan, your presentation is really nice.

Markers do work in links, thanks. Update Compact (and some other operations?) still scrambles them, though.

1

I think "Force Case" is much nicer than "set Case mode".

(mjournal, 23019, 19) How about "show markers".... "Show File Marker" is two extra key strokes considering "marker" is a second character name in expert expert mode.

response to Response

(J23062) 20-MAY=74 19:38; Title: Author(s): Dirk H, Van Nouhuys/DVN; Distribution: /NEWNLS([ACTION]); Sub=Collections: SRI=ARC NEWNLS; Clerk: DVN;

Report time Again, With contract extension and so on the dates covered have gotten rather confused. This report should recount	
developments between November 9th and May 9th, Would those who see their idents by some topic, please write a paragraph or so and give me a writen copy or notify me of its address by Friday the 24th,	
If anyone wishes to suggest other accomplishments or problems, please feel free to do so.	
II MAJOR ACCOMPLISHMENTS	
Privacy (JEW)	3
Journal System on Two Machines (JEW)	3
Line Processor (CHI)	3
New NLS in Operation at ARC (CHI)	3
Feedback System (SRL)	3
User Developemnt (JHB)	3
III PROBLEMS ENCOUNTERED (RWW) (JCN)	
IV FISCAL STATUS (JCN)	
V ACTION REQUIRED BY THE GOVERNMENT (JCN)	
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Call for Contributions to the Quarterly Management Report

(J23063) 20=MAY=74 21:05; Title: Author(s): Dirk H, Van Nouhuys/DVN; Distribution: /JEW([ACTION]) CHI([ACTION]) SRL([ACTION]) JHB([ACTION]) JCN([ACTION]) RWW([ACTION]) SRI=ARC([INFO=ONLY]); Sub=Collections: SRI=ARC DPCS; Clerk: DVN;

Journal Item

The journal item of which we were just speaking is (ijournal,14840,)

Journal Item

(J23065) 20=MAY=74 22:13; Title: Author(s): Dirk H. Van Nouhuys/DVN; Distribution: /JHB([INFO=ONLY]); Sub=Collections: SRI=ARC; Clerk: DVN; Here is a hopefully useful, though of course not rigorous, distinction between application programs and system programs:

1

Application programs build upon system capabilities. They provide the means to utilize the system in ways that are appropriate to particular tasks or problems. Examples are the Ident System, the Output Processor, and all User Programs.

1a

System programs provide capabilities in a system that it would be virtually impossible to provide through application programs. Examples span the spectrum from the simple capability called "Insert Statement", to the more complex capabilities called the "Journal" and the "Calculator".

appl progrs vs syst progrs

(J23069) 21=MAY=74 11:30; Title: Author(s): Michael D. Kudlick/MDK; Distribution: /DCE JCN; Sub=Collections: SRI=ARC; Clerk: MDK;

DVN 21-MAY-74 11:38 23070

2

2a

26

Problems wit the JOVIAL Manual, Jammed and Missing Characters: The Ball is back to DDSI.

After studing more COM tests and Octal dumps Elizabeth has concluded that the bit stream we sent DDSI called for all the correct characters and the correct spacing in the test run of the JOVIAL Manual.

This morning we called Floyd Dozier at DDSI.

He replied that he believed he understood the problem of the missing characters: their font was simply missing a few characters. He believes he can easily round them up.

The spacing problem around the transtion between sland and non-slant text still puzzles him however. He said he would get to work on it "by brute force".

I tried to impress upon him that this was a matter of more than academic interest, that an important customer was waiting with a large order, and that others are waching.

Problems wit the JOVIAL Manual, Jammed and Missing Characters: The Ball is back to DDSI.

(J23070) 21=MAY=74 11:38; Title: Author(s): Dirk H, Van Nouhuys/DVN; Distribution: /COM([INFO=ONLY]) NDM([INFO=ONLY]) we also sent them the ocatal dump) EKM([INFO=ONLY]) JCN([INFO=ONLY]) DLS([INFO=ONLY]); Sub=Collections: SRI=ARC COM; Clerk: DVN;

Problems with the JOVIAL Manual, The Ball is Back to DDSI

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2a

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2b

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Problems with the JOVIAL Manual, The Ball is Back to DDSI

(J23071) 21=MAY=74 11:41; Title: (Unrecorded) Title: Author(s): Dirk H. Van Nouhuys/DVN; Distribution: /DDSI([INFO=ONLY]); Sub=Collections: SRI=ARC DDSI: Clerk: DVN;

KIRK 21=MAY=74 15:34 23072

Line length differences between dnls and output quickprint,

A while back, Susan, you asked if I was still having trouble with this. I just noticed output quickprint breaks some lines sooner than dnls, That is, the line length in quick print seems to be shorter than in dnls. Line length differences between dnls and output quickprint,

(J23072) 21=MAY=74 15:34; Title: Author(s): Kirk E. Kelley/KIRK; Distribution: /FDBK([ACTION]); Sub=Collections: SRI=ARC; Clerk: KIRK;

Typescript scenario of message handling.

	1
TELNET typescript file started at WED 22 MAY 74 0559:50	2
	3
#arc (settings loaded) is complete,#	4
TENEX 1,31,64, ARC EXEC 1,51,40	58
@meyer	
JOB 16 ON TTY57 22=MAY=74 06:00	66
TENEX WILL GO DOWN WED 5=22=74 2200 TIL THU 5=23=74 0300	61
e; at this point it should have said "YOU HAVE A MESSAGE" if we didn't f	
**ool around before,	
e	9
0; first I rename the message,txt file t(anything	10
eren messAGE.txT;1 (TO BE) z [New version]	1
[CONFIRM]	114
•	13
e; now i enter nls (on arc i type oldnls, you type just nls),	1
eoldnis	1
	1!
*; i already have a statement in my initial file called (message)	10
*Print Statement A: .message	1
V i	11
(Message) MESSAGE, TXT file (ndm, dialog:xbzg)	1

	2
*; there is a user program called INMES which copies a sequential messag	2:
**e file into nls. i will clear my program area	2
*Goto Programs Reset stack	2
	2
*; load the user program	2
*Goto Programs Get Rel File T: inmes	2
	21
Loading User Program	2
	3
	3:
	3
*; now we can use the program like a fancy command, passing control to i	3
**t,.,	3
*Goto Programs Execute program T: inmes	3
	3
Insert MESSAGE file <meyer>MESSAGE,TXT T: z,txt</meyer>	3
at A; ,message	37
level L; d	371
	31
	3
Insert MESSAGE file in Progress	41

	43
*; note that i didn't accept the default file "message,txt" but type "z,	4.4
**txt" at that point, now we can print the messages, (I will <control=0< td=""><td>45</td></control=0<>	45
**> at some point.)	46
*Print Branch A: ,message	47
V: my	48
	49
3 (Message) MESSAGE, TXT file (ndm, dialog: Xbzg)	50
	51
3A 22=MAY=74 0557=PDT MEYER: Test Title	518
Distribution: MEYER	51a1
Received at: 22=MAY=74 05:57:07	51a2
	52
3A1 blah blah	526
	5.3
3A2 next statement	538
	54
3A3 paragraph three	548
	55
3B 21=MAY=74 0653=PDT CRAIN at OFFICE=1: INITIAL PURCHASE OF	558
DESIGH CENTER TERMINALS	551
Distribution: MEYER, CRAIN at ISI, CARLSON at ISI, CROCKER at	55b1
ISI, BALZER at ISI,, LLOYD at ISI, MAYHAN at ISI, BAGGIANO at ISI,,	56
WARSHALL at SRI=ARC	57

Received at: 21=MAY=74 06:54:00	57
	5
3B1 TERMINAL REQUIREMENTS	58
	581
	5
3B2	59
	6
3B3 INTRODUCTION*	60
This message will outline the identified requirements for the	601
initial set of AFDSDC terminals.	60
	6
3B3A These terminals will be purchased with the \$25000	61
budgeted in the NSW implementation plan.	611
	6
3B3B The purpose of this note is to provide preliminary	62
guidance as to what we currently think is needed, As such, it	621
is to be taken more as a springboard for discussion than as a	620
	6
	,6
so, now we have all the messages in nls as seperate branches!	6
	6
of course now you can do whatever you like with them, print them,	6
lete a branch, etc.	6
	6

*; i have a branch called "dialog" where i keep important messages,	70
*Print Branch A: ,dialog	7:
V: xbn	7:
	7:
(Dialog) already read == for reference	74
	75
(ARC) miscellaneous issues, etc.	75
	76
(OP) Output Processor	76
	7
(Messys) Message system	778
	78
(LP) Line Processor / terminal/ remote DNLS	78
	79
(DEIS) Project	798
	8 (
(DEIS=Journal) items	804
	8:
(Journalizations) DEIS project	81
	82
(ARPA) related stuff	826
	8
(ETS) Educational Testing Service	836
	84
(NSW)	848

	85
*; say the first message was worth keeping and talked about the output p	86
**rocessor, i would:	87
*Move Branch to follow A: .op	88
from A; ,3a	888
L: d	89
	90
	91
*; then at some point i may want to examine the dialop on the op	92
*Print Branch A: .op	93
V: ebt	94
	95
(OP) Output Processor	95a
	96
22-MAY-74 0557-PDT MEYER: Test Title	96a
	97
21-MAY-74 1138-P DVN: Problems wit the JOVIAL Manual, Jammed	97a
	98
7=MAY=74 1329=P DHC: Sweeping Journal Directive	988
	99
26=APR=74 1728=P DVN: Output Processor Race	998
	100
8=APR=74 1126=P DVN: New Salesman at DDSI; Ken Manire	100a
	101

20=FEB=74 0700=PST MEYER: COM on Office=1	101a
	102
19-FEB-74 1411-PST MEYER at OFFICE-1: COM at Office-1	102a
	103
19=FEB=74 1312=PDT VANNOUHUYS: COM for Utility	103a
	104
19=FEB=74 1017=PDT BAIR: Output for Com	104a
	105
31=JAN=74 0920=PDT VANN	105a
*; that's it!	106
*Execute Logout TERMINATED JOB 16, USER MEYER, ACCT 204, TTY 57, AT 5/2	107
[2] 사이트 경우 보고 12일 때문에 되었다면 되었다면 가는 그리고 있다면 하는데 되었다면 하는데 그리고 있다면 하는데 보고 있다면 하는데 되었다면 하는데 되었다면 하는데 되었다면 하는데 되었다면 하는데 하는데 되었다면 하는데	
**2/74 0615	108
USED 0:0:32 IN 0:15:31	108a
	109
#quit	110

(J23076) 22=MAY=74 06:32; Title: Author(s): N. Dean Meyer/NDM; Distribution: /WEC EAR LAC(fyi) TO(fyi); Sub=Collections: SRI=ARC; Clerk: NDM; Origin: <MEYER>FORBILL.NLS;1, 22=MAY=74 06:29 NDM;

Typescript scenario of message handling,

	Se Out
TELNET typescript file started at WED 22 MAY 74 0559:50	
#arc (settings loaded) is complete,#	
TENEX 1,31,64, ARC EXEC 1,51,40	56
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JOB 16 ON TTY57 22=MAY=74 06:00	64
TENEX WILL GO DOWN WED 5=22=74 2200 TIL THU 5=23=74 0300	61
e; at this point it should have said "YOU HAVE A MESSAGE" if we didn't f	
**ool around before,	
0	9
e; first I rename the message, txt file t(anything	10
eren message txT;1 (TO BE) z [New version]	1
[CONFIRM]	114
•	1:
e; now i enter nls (on arc i type oldnls, you type just nls),	1
@oldnis	1
	1!
*; i already have a statement in my initial file called (message)	10
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V:	1
	1
(Message) MESSAGE, TXT file (ndm, dialog:xbzg)	21
	- 1

	21
*; there is a user program called INMES which copies a sequential messag	22
**e file into nls. i will clear my program area	23
*Goto Programs Reset stack	24
	25
*; load the user program	26
*Goto Programs Get Rel File T: inmes	27
	28
Loading User Program	29
	30
	31
	32
*; now we can use the program like a fancy command, passing control to i	33
**t	34
*Goto Programs Execute program T: 1nmes	35
	36
Insert MESSAGE file <meyer>MESSAGE, TXT T: z,txt</meyer>	37
at A: ,message	37a
level L: d	37b
	38
	39
Insert MESSAGE file in Progress	40
	41
	42

	43
*; note that i didn't accept the default file "message,txt" but type "z.	44
**txt" at that point, now we can print the messages, (I will <control=0< td=""><td>45</td></control=0<>	45
**> at some point.)	46
*Print Branch A: ,message	47
V: my	48
	49
3 (Message) MESSAGE, TXT file (ndm, dialog: xbzg)	50
	51
3A 22=MAY=74 0557=PDT MEYER: Test Title	51a
Distribution: MEYER	51a1
Received at: 22=MAY=74 05:57:07	51a2
	52
3Ai blah blah	52a
	53
3A2 next statement	53a
	54
3A3 paragraph three	54a
	55
3B 21=MAY=74 0653=PDT CRAIN at OFFICE=1: INITIAL PURCHASE OF	55a
DESIGH CENTER TERMINALS	55b
Distribution: MEYER, CRAIN at ISI, CARLSON at ISI, CROCKER at	55b1
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WARSHALL at SRI-ARC	57

Received at: 21=MAY=74 06:54:00	57a
	58
3B1 TERMINAL REQUIREMENTS	58a
	58b
	59
3B2	59a
	60
3B3 INTRODUCTION*	60a
This message will outline the identified requirements for the	60b
initial set of AFDSDC terminals,	600
	61
3B3A These terminals will be purchased with the \$25000	61a
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	62
3B3B The purpose of this note is to provide preliminary	62a
guidance as to what we currently think is needed, As such, it	62b
is to be taken more as a springboard for discussion than as a	620
	63
	64
so, now we have all the messages in nls as seperate branches!	65
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of course now you can do whatever you like with them, print them,	67
lete a branch, etc.	68
	69

*; i have a branch called "dialog" where i keep important messages.	71
*Print Branch A: ,dialog	7:
V; xbn	7:
	73
(Dialog) already read == for reference	74
	75
(ARC) miscellaneous issues, etc.	75a
	76
(OP) Output Processor	768
	77
(Messys) Message system	776
	78
(LP) Line Processor / terminal/ remote DNLS	788
	79
(DEIS) project	798
	80
(DEIS=Journal) items	808
	81
(Journalizations) DEIS project	814
	82
(ARPA) related stuff	82a
	83
(ETS) Educational Testing Service	83a
	84
(NSW)	84a

	85
*; say the first message was worth keeping and talked about the output p	86
**rocessor, i would:	87
*Move Branch to follow A: .op	88
from A; "3a	886
L; d	89
	90
	91
*; then at some point i may want to examine the dialop on the op	92
*Print Branch A: .op	93
V; ebt	94
	95
(OP) Output Processor	95a
	96
22-MAY-74 0557-PDT MEYER: Test Title	968
	97
21=MAY=74 1138=P DVN: Problems wit the JOVIAL Manual, Jammed	978
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7=MAY=74 1329=P DHC: Sweeping Journal Directive	984
	99
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	100
8=APR=74 1126=P DVN: New Salesman at DDSI; Ken Manire	100a
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20=FEB=74 0700=PST MEYER: COM on Office=1	101a
	102
19=FEB=74 1411=PST MEYER at OFFICE=1: COM at Office=1	102a
	103
19=FEB=74 1312=PDT VANNOUHUYS: COM for Utility	103a
	104
19=FEB=74 1017=PDT BAIR: Output for Com	104a
	105
31-JAN-74 0920-PDT VANN	105a
*; that's it!	106
*Execute Logout TERMINATED JOB 16, USER MEYER, ACCT 204, TTY 57, AT 5/2	107
**2/74 0615	108
USED 0:0:32 IN 0:15:31	108a
	109
#quit	110

How I handle messages in NLS

(J23077) 22=MAY=74 06:32; Title: Author(s): N. Dean Meyer/NDM; Distribution: /WEC EAR LAC(fyi) TO(fyi); Sub=Collections: SRI=ARC; Clerk: NDM; Origin: <MEYER>FORBILL.NLS;1, 22=MAY=74 06:29 NDM;

Control 0 not working in show dir command

Control O does n ot seem to work while the listing of info from the show directory protection command, Sincethere is much printing from this command it is doubly annoying,

Control O not working in show dir command

(J23078) 22=MAY=74 07:49; Title: Author(s): Robert N. Lieberman/RLL; Distribution: /FDBK([ACTION]); Sub=Collections: SRI=ARC; Clerk: RLL;

RLL 22=MAY=74 07:58 23079

Slash in TNLS bug.

Illegal string designation message appeared after I typed a slash (/) in TNLS. Dot (.) gave proper address (3a +0) and backslah gave proper typeout. Tried several times, all with message "illegal s..." 22May

Slash in TNLS bug.

(J23079) 22=MAY=74 07:58; Title: Author(s): Robert N. Lieberman/RLL; Distribution: /FDBK([ACTION]); Sub=Collections: SRI=ARC; Clerk: RLL;

Initial Implimented, First Not

I used to be able to set case mode initila upper. I just dicovered that the command word has changed to "first", which I don't mind, butit als says "Not Implimented." Not under the name maybe.

Notice of Outlines to Final Report

For the Introduction (vannouhuys,outs,2)
For User Training and Development (vannouhuys,outs,1)
For The Output Processor (vannouhuys,outs,3)

Notice of Outlines to Final Report

(J23081) 22=MAY=74 15:47; Title: Author(s): Dirk H. Van Nouhuys/DVN; Distribution: /HGL([ACTION]) DVN([ACTION]) NDM([ACTION]) JCN([ACTION]) RWW([ACTION]); Sub=Collections: SRI=ARC; Clerk: DVN;

KIRK 22=MAY=74 20:14 23082

Bug with jump to return in this and in only using .r

The viewspecs aren't remembered when returning with .r .

KIRK 22=MAY=74 20:19 23083

Bug with deleting the last statement in a file when it is the only thing on the screen.

Try it. First it doesn't changed the view on the screen, then viewspec f results in <NUL> and jumping results in "filenumbers d not match in storesrring".

ILLEGAL INSTRUCTION at OPRINT = 175152 etc.

I just went to print a very ordinary file and got flipped into exec with the message above,

New NLS Bug

Got "NLS System error" when jumping on link typein. Link was OK, error if it werent need to have error msg that's meaningful. The link was of the form: COURSESTRUC, 3. File and staement number were

Line Processor Troubles: Horizontally Split Screen

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.

Bug in User Program SENDMES

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

Bug in User Program SENDMES

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.

Ident for McNally of ETS

Marcia: Please let both McNally and me know when ready at both sites; thanks.

NDM 23-MAY-74 07:55 23088

Ident for McNally of ETS

Marcia: Would you phease set up an ident for me as follows?

Brian J McNally
Educational Testing Service
Rosedale Road, Princeton, N.J. 08540
(609) 921=9000
Network AND Online delivery at: ANASTASIO@Office=1
Delivery mode: Online
Member of CBIG group
Thank you, ==Dean

Proposed Course of Study for Participation in the SRI Honors Cooperative Program in Fall 1974

This note contains material in support of my earlier note of 25 March 1974, (22474,).

Proposed Course of Study for Participation in the SRI Honors Cooperative Program in Fall 1974

This note outlines a proposed course of study for me leading to a PhD degree in the Engineering-Economic Systems Department at Stanford beginning in the Fall Quarter of 1974. An earlier note (22474,) sent on 25 March 1974 was a letter of intent requesting preliminary authorization to participate in the SRI Honors Cooperative Program; this note presents material in support of that request.

The courses proposed are, of course, subject to change. I plan to enroll in approximately 7 units a quarter, a half time program which would include two regular classes and a one unit seminar.

A MS degree is expected after the first 42 units of work. (The total may be reduced if credit is granted for earlier graduate work done at the University of Chicago and the University of California, San Diego.) It would be received at the end of the second academic year.

While Stanford normally requires the equivalent of three full academic years of residence for a PhD (six years at a half=time program), acceptable work completed elsewhere as a graduate may be accepted in lieu of part of this requirement up to a maximum of six full quarters. Minimum requirements in this case are a minimum of 36 quarter units at Stanford and a minimum of three full quarters (or the equivalent in part=time registrations as calculated on tuition payments.) My earlier graduate work will permit me to fulfill the residency requirement in two years of part time study at 7 units a quarter. Additional course study and dissertaion preparation will take approximately two more years. The internship required by the department will be done at ARC.

Thus my participation will be for approximately four years under the Honors Cooperative program.

Proposed Courses

The following courses will be taken in EES:

System Analysis: Modeling

Introductory System Analysis: 201 A, B, C== 9 units

Probabilistic Analysis: 221 == 3 units

Dynamic Probabilistic Analysis: 251 A, B== 6 units

System Analysis: Optimization

Introduction to Optimization: 242 == 3 units

The second

6a

6a1

6a1a

6alb

6alc

6a2

6a2a

HGL 23-MAY-74 08:59 23089

6b

7a

7b

7c

Proposed Course of Study for Participation in the SRI Honors Cooperative Program in Fall 1974

System Theory: Optimization: 243 == 3 units	6a2b
Economics and Decision Analysis	6a3
Introduction to Microeconomics: 210== 3 units	6a3a
Economics of Public Policy: 211 == 3 units	6a3b
Economic Analysis: 212 A, B== 6 units	6a3c
Decision Analysis: 231== 3 units	6a3d
Applications and Research	6a4
Models, Men, and Machines: 223== 3 units	6a4a
Telecommunications Systems and Public Policy: 280== 3 units	6a4b
Seminar in EES: 293== 1 unit per quarter	6a4c
System Research Seminar: 291 number of units to be determined	6a4d

Approximately 15 units of classes will be taken in other departments; these will be chosen after discussion with my faculty advisor. Courses in the Economics, Psychology, and Industrial Engineering Departments would be most valuable to me and to ARC.

Benefits to ARC and SRI

As mentioned in the previous note, I feel the training I will obtain in the EES program will be of benefit to ARC and SRI. The techniques I learn may be applied to a wide variety of system analytic problems which arise in much of the research done at SRI.

I plan to concentrate my research on the analysis for improvement and transfer of the office automation technology we are currently developing at ARC and in the refinement of the man=machine interface in such a system.

Possible focal points for research relevant to ARC deal with the analysis of costs, markets and social effects of the sytems such as NLS and the problems invloved in introducing the system into typical user communities -- both the traditional office as well as the conceptually newer geographically distributed communities of workers linked together by computer networks.

The training I receive will also be relevant to the more general

HGL 23=MAY=74 08:59 23089

Proposed Course of Study for Participation in the SRI Honors Cooperative Program in Fall 1974

problems involved in the development and release of both large computer networks and the systems which run on them as well as other telecommunications systems. Questions concerning the costs, markets and social effects of these systems are particularly of interest to other groups at SRI such as the Telecommunications group; EES currently has a research program concerned with similar problems.

7d

Jim ...

There's one improvement to the identfile maintenance procedures that would be highly desireable: automatic updating of the Groups named TIPG USERG SERVERG ASSOCG, in response to action taken by Marcia on the "Type" field in an organization's identfile record. (The four groups mentioned contain nothing but organizations as members.)

An organization's "Type" field contains one of the four strings "Tip", "User", "Server", "Associate", For examples, see UTAH=TIP [Tip], UCB [User], OFFICE=1 [Server], LOGICA [Associate].

Marcia currently does maintenance manually by modifying the membership of the appropriate group TIPG USERG SERVERG ASSOCG whenever she modifies an organ's "Type" field. This is prone to errors, of course. It would be nice if this maintenance were done automatically.

From a procedural standpoint, the most desireable way for the maintenance to be automated would be simply to copy Marcia's manual procedures:

have the identsystem recognize the "Type" field VALUE that is being inserted and then make an addition of that organ's IDENT to the corresponding TIPG USERG SERVERG or ASSOCG group record,

(In some cases the identsystem would have to recognize TWO values; a new value that is replacing a previous value in the Type field, such as when an organization's type changes say from associate to user, In these cases, there would of course have to be an insertion of the organ's ident in one group, and a deletion of it from another one. This case seldom occurs in practice.)

Another alternative (second in desireability, from Marcia's standpoint) would be to do the maintenance similar to the Way that other "group membership" maintenance is accomplished:

namely, modification to any one of the four groups TIPG USERG SERVERG ASSOCG would cause the appropriate "Type" field entry to be made to (or deleted from) the organ's record, with the proviso that no organization could be of more than one type.

I'd be happy to get your reactions to this. Can you do this, or is there someone else more appropriate for me to ask ??

... Mike

1

1b

1a

10

1d

141

1d2

1e

1e1

11

Call for Contributions to the May '72 = June '74 Final Report

We distributed this file in hard copy at ARC and through the journal. The journal item went out but due to a malfunction was not delivered to anyone. When I discovered that fact this morning I understood why you had not submitted your outline. Sorry to be pushy when you could not have know what was happening. Please get your outlines in as soon as you can.

Call for Contribtions to Final Report Covering May "72 thourgh June "74

1

Mechanics

2

Contract requirements:

2a

The draft report is due six weeks after the end of the contract, that is on August 15th; but after July first we have money only for printing...not for writing or editing..

2a1

The contract requires an abstract, a summary, a glossary, and head-and-tail matter (title page certain, forms, etc.)

2a2

Writer:

2b

In each case we imagine that the first ident will be the pusher for the job of writting that part of the report. She is reponsible for the outline and for co-ordination where there is more than one author.

251

Reviewer:

20

Any section that has not aready been through a publication process should be reviewd by someone familiar with the work but not an author. It would probably be useful for first authors to consult reviewers about outlines before they turn them in to the central outline. The idents of suggested reviewers appear with an asterisk in the outline below.

201

Outlines:

2d

In the case of all papers that have not been published previously, we ask the writers for an outline to two levels below this one by Wednesday May 22. We would like the oultines in the form of online branches which we will transfer to the central file (documentation, final,).

2d1

Submission of Drafts:

2e

On the dates due, please submit outline and finished drafts to reviewers or DVN or HGL by telling them they are ready in some file. We will copy them into the appropriate branch in (documentation, final), please submit drafts for review by telling DVN or HGL and the reviewer.

2e1

Illustrations:

2£

We encourage illustrations. The rough drafts of illustrations

	hould reach the SRI art by June 7th; phtographs should be aken by by June 12th.	2f1
Calenda		3
May		3a
	u 19	3a1
	20	3a2
7	u 21	3a3
	22	3a4
	Outlines to DVN and HGL.	3a4a
1	h 23	3a5
F	24	3a6
	Commented outlines returned to authors,	3a6a
s	a 25	3a7
		3a8
	u 26	3a9
M	27	3a10
7	u 28	3a11
W	29	3a12
7	n 30	3a13
F	31	3a14
June		3 b
8	a 1	3b1
		3b2
S	u 2	3b3
	First drafts to reviewers,	3b3a

DVN HGL 23=MAY=74 09:09 23091 Call for Contributions to the May *72 = June *74 Final Report

М	3	364
Tu	4	365
W	5	3b6
Th	6	3b7
	Reviewers finish with first drafts.	3b7a
	Drawings to SRI Art Department,	3b7b
F	7	368
Sa	8	369
		3510
Su	9	3511
М	10	3b12
Tu	11	3b13
W	12	3b14
	Photos taken,	3b14a
Th	13	3b15
F	14	3b16
	Second drafts to DVN and HGL,	3b16a
Sa	15	3b17
		3b18
su	16	3b19
М	17	3b20
Tu	18	3b21
W	19	3b22
Th	20	3b23
F	21	3b24

DVN HGL 23=MAY=74 09:09 23091 Call for Contributions to the May *72 = June *74 Final Report

Sa 22	3625
	3b26
Su 23	3b27
м 24	3b28
To SRI Editing and contracts.	3b28a
Tu 25	3b29
W 26	3b30
Th 27	3b31
F 28	3b32
To Bart Cox	3b32a
Sa 29	3633
	3b34
Su 30	3635
July	30
M 1	3c1
No more money	3c1a
OUTLINE	4
Head Matter (2)	MEJ *DVN
ABSTRACT (1)	DVN *SRL 4b
INTRODUCTION	40
Summary (5)	DVN *JBN 4c1
(9journal,21380,)	4c1a
How this report is organized (,5)	DVN *RWW 4c2

(IJOURNAL, 20579, 1)		4c2a
LONG TERM GOALS		4d
The Augmented Knowledge Workshop (finished)	DCE	4d1
Some Basic Characteristics of a Knowledg	e Workshop System and	
Status of NLS with Respect to Them RWW *PR (5)		4d2
update of (20367,)		4d2a
coordinated Information Services for a D Oriented Community (finished)	iscipline or Mission DCE	4d3
(12445,)		4d3a
Aspects of ARC's Technology Transfer Str	ategy RWW *PR (5)	4d4
(RWW notes)		4d4a
WORKSHOP TECHNOLOGY		4e
USER INTERFACE		4e1
The NLS Command Language and User Int	erface: An Overview RWW *CHI (7)	4e1a
Command Meta=Language	CHI *HGL (7)	4e1b
Consider an Appendix giving a tech	nical description	4e1b1
Query/HELP Software and Data Bases (7)	HGL KIRK *JMB *EKM	4e1c
An Offline Text Editing Facility	HGL *KIRK (3)	4e1d
NLS FILE SYSTEM	HGL *CHI (9)	4e2
Technical description		4e2a
Reasons for selected design		4e2b
Reliability		4e2c
DISPLAY AND PORTRAYAL TECHNIQUES		4e3

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Portrayal Generators	EKM *HGL (5)	4e3a
Display techniques in NLS NCC F	Paper CHI (finished)	4e3b
The Line Processor Software NCC	Paper DIA (finished)	4e3c
The Lineprocessor Hardware Comp	con Paper MEH (finished)	4e3d
SOFTWARE ENGINEERING	KEV HGL *RWW (10)	4e4
programmer organization		4e4a
Programming tools		4e4b
Debugging tools		4e4c
Programming standards		4e4d
TENEX DEVELOPMENT	WRF *KEV (7)	4e5
BSYS		4e5a
Group Allocation		4e5b
Scheduler Modification		4e5c
Display JSYS		4e5d
Other changes?		4e5e
NLS SUBSYSTEM OPERATION		4£
The Dutput Processor and COM	DVN EKM *NDM (6)	411
Dialog Support: the NLS Journal, Ider JEW JDH *JCN (7)	nt, and Number Systems	4f2
User Program System and Library	NDM *RLL (4)	4£3
Catalog and Directory Production	MDK JBN HGL *JAKE (7)	4£4
(includes some techincal descript:	lon)	4f4a
Calculator	EKM *JCN (3)	415
TECHNOLOGY TRANSFER		4g

A View on the Symbiotic Relationship Between ARC and the

Call for Contributions to the May "72 = June "74 Final Report

Applied R&D Communities *MDK (5)	PR	4g1
PR has draft. Transition to other material in section should be included.	n	491a
NETWORK INFORMATION CENTER MDK *JAKE (10)	4g2
User Training and Development DVN JHB *JCN	(5)	4g3
ANALYSIS		4h
System Measurement Tools DIA *KEV	(5)	4h1
Group Resource Allocation Design and Experience PR *WRF	(3)	4h2
First Studies of NLS Command Use and Timing SRL *PR	(3)	4h3
Feedback SRL *KIRK	(4)	4h4
GLOSSARY JMB *DVN	(5)	41
Total Pages Not Previously allocated: 139		45

```
TIME PLOT OF AVERAGE NUMBER OF GO JOBS FOR WEEK OF 5/5/74
x axis labeled in units of hr:min, xunit = 30 minutes
    4.5
    4.0
    3.5
    3.0
    2.5
                 ****
    2,0
                   古有不有有有有不有有有有有有有有有有有有有 有
    1.5
                   ****
    1.0
                   ****
    0.5 *
    0.0 *
       ************************************
             5:00 10:00 15:00
      0:00
                                  20:00
                                                     1a
TIME PLOT OF AVERAGE PER CENT OF CPU TIME CHARGED TO USER ACCOUNTS
FOR WEEK OF 5/5/74
                                                      2
x axis labeled in units of hr:min, xunit = 30 minutes
   61.6
   53.9
   46.2
                   *****
   38,5
             ***
   30.8
   23.1 * ***********************
                  ****
    7.7 ***************
    0.0
       ************************************
      0:00
             5:00
                  10:00
                           15:00
                                 20:00
                                                      2a
TIME PLOT OF AVERAGE IDLE TIME FOR WEEK OF 5/5/74
x axis labeled in units of hr:min, xunit = 30 minutes
   67.5
   60.0
        **
   52.5
        **
   45 . 0
        ***
   37.5
   30.0
   22.5
                         ***
   15.0 ***
    7.5 ****
                        乔格特格特格特特特 经存货价格
       ***********************************
            5:00 10:00 15:00 20:00
                                                     3a
      0:00
```

. . . .

```
TIME PLOT OF AVERAGE NUMBER OF NETWORK USERS FOR WEEK OF 5/5/74
x axis labeled in units of hr:min, xunit = 30 minutes
     6
     5
     3
     2
     1
                0:00
            5:00
                  10:00
                         15:00
                                                  4a
TIME PLOT OF AVERAGE NUMBER OF USERS FOR WEEK OF 5/5/74
x axis labeled in units of hrimin, xunit = 30 minutes
    13
    12
    11
     10
     9
     8
                *****
     7
     6
     5
              ***
     4
     3
         *******
     O 条法按照公债还按证券按证券按证券按照按按案件按案件按案件按案件的证券证券件并存在的证券
      5:00
                         15:00 20:00
      0100
                  10:00
                                                  5a
TIME PLOT OF AVERAGE PER CENT OF SYSTEM USED IN DNLS FOR WEEK OF
5/5/74
x axis labeled in units of hr:min, xunit = 30 minutes
   10.0
    8,0
    6.0
    4.0
    2.0
      15:00
      0:00
                 10:00
            5:00
                                20:00
                                                  6a
```

If a program has a CML interface, documentation for that program can be located in the help database and accessed via < 0> while using the program. There is a place in the Help database for users program documentation. Any user may document their programs in this place, please see me before entering information into the Help database. There are some simple format conventions that should be followed, == KIRK

Meeting to: Catch up on general events; Hear Dick's good news re. NSW; Discuss new aspects of near-term plans; Have brief, summary discussion of longer-term planning.

*a1 First Author	*a1	1
#1 job title	#1	1a
#2 corporate affiliation	#2	1b
#3 suborganization	#3	ic
#4 street eddress	#4	1d
#5 city, state, zip	#5	1e
*a2 Second author	*a2	2
#1 job title	#1	2a
#2 corporate affiliation	#2	26
#3 suborganization	#3	20
#4 street address	#4	2 d
#5 city, state, zip	#5	2e
*a3 Third author	*a3	3
#1 job title	#1	3a
#2 corporate affiliation	#2	3b
#3 suborganization	#3	3с
#4 street address	#4	3 d
#5 city, state, zip	#5	3e
*a4 Fourth author	*a4	4
#1 job title	#1	4a
#2 corporate affiliation	#2	4b
[no limit to number of authors]		
		-

	*b1 Editor	*b1	6
	#1 job title	#1	6a
	#2 corporate affiliation	#2	6b
	#3 suborganization	#3	60
	#4 street address	#4	6 d
	#5 city, state, zip	#5	6 e
	*b2 First Organization	*b2	7
	#2 intermediate organization	#2	7a
	#3 suborganization	#3	7 b
	#4 street address	#4	7 c
	#5 city, state, 2ip	#5	7 d
)	*b3 Second Organization	*b3	8
	*b4 Publisher	*64	9
	#3 suborganization	#3	9a
	#4 street address	#4	96
	#5 city, state, zip	#5	90
	*b5 First addressee of letter or memo	*b5	10
	#1 job title	#1	10a
	#2 corporate affiliation	#2	10b
	#3 suborganization	#3	100
	#4 street address	#4	10d
	#5 city, state, zip	#5	10e
	*b6 Second addressee	*b6	11

*b7	Third addressee	*b7	12
*b8	Fourth addressee	*b8	13
*b9	ARC number of addressee list	*b9	14
*b10	Distribution list in ident form	*b10	15
*b11	Second, third editors	*b11, *b13	16
*c1	Title of item	*ci	17
	si subtitle	#1	17a
	6 pages	#6	176
*c2	Title of more inclusive document	*c2	18
	1 subtitle	#1	18a
	2 volume	#2	186
	3 number	#3	18c
	6 pages	#6	18d
*c4	Also published in:	*c4	19
*c5	Also published as:	*c5	20
*c6	Also to be presented at:	*c6	21
*d1	Day and/or month and/or year iss	ued *d1	22
*d2	Date written or submitted	*d2	23
*d3	Period covered	#d3	24
*d4	Date of conference or meeting	*44	25
*d5	Date of *c4, *C5 or *C6	*d5	26
*f1	Form of item		27
a	article	ma map	27a

				276
	advertisement		users' guide or manual	27b 27c
	book		newsletter issue	27d
	biography	P	[14] [15] [16] [16] [17] [17] [17] [17] [17] [17] [17] [17	27e
	bibliography		program	27£
	brochure		picture, photo	27g
	chapter		proposal	27h
d	draft		patent	271
	dissertation		questionnaire	275
f		r	report	27k
9	proceedings		press release	271
	graph or chart	S		27m
1	abstract or review		specification, standard	27n
1	ARC or NIC journal item	-		270
	periodical, newspaper		thesis	
1			translation	27p
	transmittal letter		functional doc	279
m	memo	2	contents of functional doc	27r
				275
*£2	Media			28
a	carbon copy			28a
c	copy, not original			28b
f	film			280
1	microfilm			28d
m	microfiche			28e
ma				28f
0	original			289
p	photocopy by ARC			28h
	partial photocopy			281
r	machine readable			28j
S	slide			28k
t	paper tape			281
v	videotape			28m
×				28n
*£3	Source file name		*£3	29
*m1	Sponsor of meeting		*m1	30
#1	name of meeting		#1	30a
46	alty, state of Booking		45	
#5	city, state of meeting		#5	30b
*n1	Item that includes this item		*n1	31
*n2	Item(s) this item includes		*n2	32

*n4	Doc(s) to which this refers	*n4	33
*n5	Doc this abstract describes	*n5	34
*n6	Doc(s) this one accompanies	*n6	35
*n7	Doc(s) this one is related to	*n7	36
*p1	Project name assigned by issuer	*p1	37
*p2	Project no, assigned by issuer	*p2	38
*r1	No.(s) assigned by issuer	*r1	39
*r2	No.(s) assigned by govt agency	*r2	40
* s1	Sponsoring agency	*s1	41
	3 suborganization	#3	41a
	#5 city, state zip	#5	41b
	#6 contract or grant number	#6	41c
	#7 project number	#7	41d
	#8 order number	#8	41e
	#9 other number	#9	41f
*s2	Second sponsoring agency	*s2	42
1	#3 suborganization	#3	42a
	#5 city, state zip	#5	42b
	#6 contract or grant number	#6	42¢
1	7 project number	#7	42d
	#8 order number	#8	42e
	9 other number	#9	42f

NDM 23=MAY=74 13:34 23101

Codes used in the Master Catalog, November 1972 Codes used in the Master Catalog, November 1972

*s3	Third sponsor agency	*s3	
			4.3
*w1	Date received at ARC	*w1	44
*w2	Date cataloged at ARC	*w2	45
*w3	Initials of contributor	*w3	46
*w4	Source if not a1, b2, or w3	*w4	47
*y1	Brief abstract	*y1	

*y2	Keywords from doc or author	*y2	49
*y3	Keywords assigned at NIC	*y3	50
*y8	"Updated by xxxx;" "Updates xxxx;" "Obsoletes xxxx;"	*y8	51
*y9	"Obsoleted by xxxx"	*y9	
			52
*z1	NIC holdings	*z1	53
*z2	Subcollections	*z2	54

*z3	ARC catalog management codes	*z3	55
*z4	ARC holdings	*Z4	56
*z5	Location(s) of copy	*25	57

2d1

2e

Augmentation Research Center Stanford Research Institute Menlo Park, California	
GENERAL	
Abbreviations	2
Abbreviation is avoided except in copying any actually present in proper names and titles.	2a
Exceptions:	2a
Codes of ARPA network sites may be entered in *a1#2 and *b5#2, but only in citations for informal documents.	2a2
Code "org" may be entered in *a#2 when information is identical to *b2 or *b4. See *a1 for further information.	242
Added information .	2
Information known or very probable and of importance to the reference, such as an unstated author, organization, date of publication, should be given in brackets [].	2ь
In general, only information actually in the document is to be recorded. Recording presumed information is risky, and is poor practice also because copies of the document don't carry the information thus supplied.	2ь
Proper names	2
All proper names will be entered in direct order, omitting only "the", beginning corporate names, and any title in personal names.	20
Document reference numbers	2
These numbers will be typed without parentheses; and if there are more than one, without commas between them, just a	

Notice of any limitation on distribution to foreign nationals, of client confidential, etc. will be entered as the first

space, i.e., *n1 5891 5892 5893

Distribution limitation

information in the abstract. The text [L] will be entered after the title,

2e1

*a1 FIRST AUTHOR ==

Author's name, as given, in direct order, omitting Dr., Ph.D.,
etc. (No limit to number of authors.) Put period and space
between initials of names.

74

#1 JOB TITLE == If given in the document.

3a

3

#2 CORPORATE AFFILIATION ==

If the author's organization is the publisher of the document, enter the letters "org" in #2, as the same information can be retrieved from *b2 (see below for multiple authors). For ARPA Network nodes, this may be entered in the code: "ARC", "LINC", etc. If author's organization is not the publisher of the document, as in a periodical article, meeting proceedings, letter or memo, enter the the organization information as given. (Author's organization is not considered the publisher of his letter or memo.) When two or more consecutive authors of an article have the same org, enter the org after the last. When *b2 is used and two or more consecutive authors have the same org, type "org" in #2 after the last author of these. For other notes on organization names, see notes on *b2.

3b

#3 SUBORGANIZATION ==

If more than one subordinate level is given, select one,

30

#4 STREET ADDRESS ==

Use this element for building name or number, suite number, or other specific of address when practicable, the intent being to allow construction of a mailing address from #1=#5, when an organization, e.g., Chemical Abstracts Service, is situated at another org, but is not a sub-org, use #4 for the site, e.g., Ohio State University, cf. *b2#2.

3 d

#5 CITY, STATE, ZIP == Spell out, e.g.: Washington, D.C. 20202; New York, New York 10036; Menlo Park, California 94025.

3 e

#7 IDENT ==
Not used for manual input; supplied by journal.

31

*a2 SECOND AUTHOR ==
No limit to number of authors, Use separate number for each author,

6a

6b

60

7

- *b1 EDITOR -Use for editor or compiler, Use same subordinates #1, #2, etc.
 as for authors, For additional editors use *b11 and *b13
- *b2 FIRST ORGANIZATION **

 Use for agency preparing or issuing a report, or other case of non*commercial publisher. For agencies, such as National Library of Medicine, which usually appear independently, enter these as *b2, not as subordinate to U.S. HEW. Ambiguous names, such as Office of Education, should be entered in *3, with U.S. HEW as *b2.
 - #2 INTERMEDIATE ORGANIZATION ==
 Use when essential to completeness, as in some government
 organizations, Always use #3 for significant suborganization,
 inserting #2 when essential.
 - #3 SUBORGANIZATION -
 Use for significant suborganization, skipping #2 unless an intermediate is important for clarity. Avoid using when an organization is a smaller unit, e.g., an Institute, but only based physically at the larger, such as a university. Place the Institute in *b2, and the university in *b2#4.
 - #4 and #5 == Use street and city address, use zip code.
- *b3 SECOND DRGANIZATION ==

 Use for a second agency (not a government sponsor) in case of joint effort resulting in a document bearing both names.
- *b4 PUBLISHER ==
 Use for commercial publishers, when documenting books, or noting periodicals as entities. Use only #5 city when well known.
 Abbreviate name when well known (McGraw=Hill; Wiley; etc).
- *b5 FIRST ADDRESSEE OF LETTER OR MEMO ==

 To be used, even when addressee list is so lengthy as to cause use of *b9. Can be a group or class, even when non=explicit, such as [ARPA Network Working Group]. Use ident, in *bi0. Use form of address in #1, #2, etc. given in the document, do not try to standardize (NOTE: 1. No control over outside entries. 2. Retrieval may be by entry as given, as often as not). When a memo or letter but no addressee given: [unaddressed].
- *b6 through *b8 additional addressees
- *b9 ARC DOCUMENT NUMBER OF ADDRESSEE LIST == When an addressee list is attached, or when list of addressees

exceeds 4, a separate document should be indicated or created, and referenced here.	1
*b10 DISTRIBUTION LIST IN IDENT FORM ** For group ident, when addressed to Network Working Group or other recognized group whose membership is given in its ident file, Journal system uses this.	1
*b11 SECOND EDITOR	1
*b12 Used by journal for additional addressees, after *b10	1
*b13 THIRD EDITOR	1
*ci TITLE OF ITEM == Title of report, article, book or journal considered as a whole. When a memo contains the line "Subject:" or "Re:" this text, including "Subject:" or "Re:", is entered as the title. Title is essential; letters with no explicit title should have descriptive title in brackets. Example: [Transmittal Letter]. When the item referenced is a review or abstract of another work of the same title, add [Review] or [Abstract]. Limitation on use of a document should be indicated by [L] following the title, with an elaboration in *y1. #1 SUBTITLE == Include any subordinate phrase in the title rather than as subtitle, as a rule. Use subtitle only for lengthy title strings or for alternate titles, and for series notes. Vol. 1 etc. of books goes into subtitle when subtitle is title of vol. only.	16
#6 PAGES == Use for page data when *c2 is not present or when *c1 is independently paginated, Examples; 263p, [for book with 263 pages], When document is not paged; [unpaged], When document is numbered by sections: [separately paged].	161
*c2 TITLE OF MORE INCLUSIVE DOCUMENT ** Use for name of journal when *c1 is an article from it, Use for name of book when *c1 is a chapter from it, Use for Proceedings when *c1 is a paper published in it, Use for encyclopedic work or series when *c1 is a volume from it.	
Use for functional document name when *cl is a part or section of contents. Example: Section 3. Network User Guide.	1.

*d3 PERIOD COVERED --

	#1	S								«h	er	1	11	10	11	15	ic	n	1	n	4	c	2	1	s	a	wk	W	ar	d,												17
		E	×a	m	0 8	f	C	ri	0	at	I	31	11	a	ir	1	=0	T		*	c2	2	BI	11	16	t	in	1 (de	D	00	un	er	te	ati	or	1			on de	1	7a:
	#2	٧	E	×	am	P	10	5	£	e	ne	Y	C	10	pe	d	18	1	or		a	S	er	1	es		V	0	1.	1	,	et	C,	, 0	of on	bo	00	ks				171
	#3	N	E	S	e am	£ p	or	S		N	0	,	1 ()										c		t:	5 .															170
	#6	P	E	S C	am	E p	or le		1		W	ne	25 n	56	= 2	7 t	5 .		W	ih	er	1	pa	g	es		ar	e	n	ot	r	un	be		ilu d,							170
*¢4																1	S	a.	iv	e	n.		Us	e	*	d	5	£	r	0	at	e,										18
*c5																1:	S	g	iv	e	n.		Us	e	*	d	5	fo	r	d	at	e,										19
*c6			r	re	ep	01	rt	s		r	é	r	t:	c	10	s	W	h														at	en	en	it.		C	od	e	as		20
*d1		Us pu da ea or	e bl te rl d	fi	rhsree	ec	al in da w	ioth	te	ym .oh	pe s, f	s p	fe re	fripe	Urar	tada	en te at ti	s e	di	1	Us le an s or	etdg	te	o rue	t of	di	m of Js	eroet	10 4:	n d4	*y	f or ed	ar	US	ee	im *d	na la ln	te i g rm	f da	an te 12		21
∗d2	1	Su	e bm	ir	1	ac	d	1	ti	0	n	t	0	*	d1	1	y h	er	1																at					t		
		£1	11	nç	1	a é	ji	e																																		22

Use for progress reports, etc., when indicated by cover, title or abstract. Use forms: 1 July 1969 = 30 June 1970; 1 July = 30 September 1970,	23
*d4 DATE OF CONFERENCE OR MEETING == Use in addition to *d1 whether or not *d1 gives date of published proceedings, Use forms: 12=15 November 1970; 30 November = 2 December 1970,	24
*d5 DATE OF *c4, *c5 or *c6	25
*d6 DATE OF FILE REVISION == (used by Journal system) Example: 1/20/72	26
*d7 TIME OF FILE REVISION == (used by Journal system) Example: 1920:32	27
*f1 FORM OF ITEM ==	28
NOTE: MULTIPLE CODES MAY BE USED, e.g., r p = numbered report to be given at a meeting; a tr = translation of an article. FIRST CODE DETERMINES FORMAT. This element has two uses: formatting for the printed catalog, and search keys for online retrieval.	29
a - ARTICLE article in journal	29a
<pre>ad = ADVERTISEMENT == advertisement, from newspaper, periodical (compare br = brochure; pg = meeting program);</pre>	296
b = BOOK == for commercially published work, usually hardbound,	290
bi - BIOGRAPHY a resume or a biographical note in a journal, program, etc.	29d
b1 = BIBLIOGRAPHY == may be a separate, or a part of a larger work primarily coded ch	29e
br = BROCHURE == for separate promotional material, even 1 page,	29f
ch = CHAPTER == chapter or portion of book not a proceedings volume,	299

use when stated or known to be a draft, not a finished product	29h
ds = DISSERTATION	291
f = FILM == Use for movie or sound, Not for microfiche	291
g = PROCEEDINGS == use when *c1 is a proceedings volume. When a paper *c1 from a proceedings is indicated, use p.	29k
gr = GRAPH OR CHART ==	291
i = ABSTRACT OR REVIEW == Use when the item catalogued is an abstract or review, as well as bracketing the word following the title in *c1.	29m
j = ARC OR NIC JOURNAL ITEM	29n
<pre>k = PERIODICAL, NEWSPAPER == periodical, newsletter, journal, use When journal, etc. in its entirety is meant. For an article use a, for a newsletter issue use n.</pre>	290
1 = LETTER == Use for a personal letter or where the term appears, For an unspecified letter to several addressees, usually use m,	29p
1t - TRANSMITTAL LETTER	299
m = MEMO == Use when the term appears, and when a group of addressees are indicated,	29r
ma = MAP	295
mn = USER's GUIDE OR MANUAL	29t
n = NEWSLETTER ISSUE == A newsletter as an entity, not a specific issue, should be indicated j.	29u
<pre>p = PAPER == Use for an individually issued preprint or reprint of a presentation, as well as for a paper,</pre>	29V
pg = PROGRAM ==	

Program of meeting, including first announcements. When ARC member is speaker, etc., indicate in abstract, and note in keywords: e.g., DCE speaker.	29w
pi = PICTURE, PHOTO == Use for references to photographs or pictures when separately cataloged in *c1.	29x
PF = PROPOSAL	29y
Use *b5 for addressee, and note "Proposal to " in *y1.	29y1
pt = PATENT	292
qu = QUESTIONNAIRE	29a@
r = REPORT == Use for technical reports and short publications not known to be articles, papers, etc. Use for RFC's.	29aa
re = PRESS RELEASE == Intended for announcements so labelled, and other announcements not meeting programs, advertisements, or brochures,	29ab
s - SLIDE	29ac
sp = SPECIFICATION, STANDARD	29ad
t = TALK == Use for an oral presentation recorded on audio or video tape, and for a written version of an oral presentation not expected to be published.	29ae
th - THESIS	29af
tr = TRANSLATION == May be accompanied by original or original may be separately cataloged, e.g., an original in Japanese may be attached to a translation, rather than separated,	29ag
u = FUNCTIONAL DOCUMENT == Use when major content of the document is subject to addition, deletion or substitution, as in looseleaf changes,	29ah
z = CONTENTS OF FUNCTIONAL DOC == Use as primary code for any document made a part of a	

functional document. In conjunction, use *c2 to contain the name of the functional document, Examples: *c2 Part, ARPA

	Network Resource Notebook, *c2 Section 3, Network Information Center User Guide,	29ai
#f	2 MEDIA	30
	a = CARBON COPY == Use if copy in hand is a carbon copy.	30a
	c = COPY, NOT ORIGINAL == If photocopy received at ARC is obviously a copy made of an existing document such as a periodical article.	306
	f FILM == Use for movie and/or sound film. Not for microfiche.	300
	1 = MICROFILM == Use for roll microform,	30d
	m = MICROFICHE == Use for items on sheet film,	30e
	ma = MAGNETIC TAPE CASSETTE	30£
	o = ORIGINAL == Original as first issued. Use c if photocopy received at ARC is obviously a copy made of an existing document e.g., a periodical article. Use p if copy is a photocopy made at ARC. Use a if copy in hand is a carbon copy.	30g
	p = PHOTOCOPY BY ARC == Use for photocopy made at ARC. Compare pa.	30h
	pa = PARTIAL PHOTOCOPY Use for photocopy of cover, title page, etc. sometimes made to capture part of a document when the whole is not obtainable or retainable.	301
	r - MACHINE READABLE Use to indicate existence of item in machine readable form. May be used in addition to o, etc.	305
	s = SLIDE == Use to indicate a chart, photograph etc, is in form of slide.	30k
	t = PAPER TAPE == Use to indicate existence on paper tape.	301
	V - VIDEOTAPE	30m

x = REFERENCE == Used to indicate ARC has recorded the reference but does not have the full document.	30n
*f3 SOURCE FILE NAME == (used by Journal system) Use for name of machine file if document is machine=readable.	31
*mi SPONSOR OF MEETING Name of sponsor of conference or meeting. Use for name of organization holding or sponsoring meeting.	32
#1 NAME OF MEETING == examples: Conference On Image Transmission, Annual meeting,	32a
#5 CITY, STATE OF MEETING	32b
*n1 ITEM THAT INCLUDES THIS ITEM == ARC number of item that includes this item. Use to record ARC number of book, Proceedings, etc., where item in hand is a part, or attachment. Example: 5606	33
*n2 ITEMS(S) THIS ITEM INCLUDES == ARC number(s) of item(s) this item includes. Use to record ARC numbers of subordinate parts or enclosures, etc. of item in hand, Example: 5603 5604	34
*n3 Not presently used,	35
*n4 DOC(S) TO WHICH THIS REFERS == ARC number(s) of ARC document(s) to which this refers. Use to record explicit reference by document in hand to other ARC documents.	36
*n5 Doc THIS ABSTRACT DESCRIBES == ARC number of document this abstract describes. Use to record number of complete document when a condensation is in hand.	37
*n6 DDC(S) THIS ONE ACCOMPANIES == ARC number(s) of documents this one accompanies. Use to record transmittal letter for doc, and such,	38
*n7 DOC(S) TO WHICH THIS ONE IS RELATED == Use for related documents not necessarily received or filed together,	39
*p1 PROJECT NAME ASSIGNED BY ISSUER == Use when explicit; use for code names. Examples: Project MAC; MEDLARS	40

*p2 PROJECT NUMBER ASSIGNED BY ISSUER == Use when organization assigns a project number, often in addition to a sponsoring agency's number.	41
*r1 NUMBER(S) ASSIGNED BY ISSUER == Serial or or code number(s) assigned by issuer. Use for serial or codes assigned to the individual title by the agency issuing it. Examples: TM 42; Report 17; SBN 13=165969=3	42
*r2 NUMBER(S) ASSIGNED BY GOVT AGENCY == Serial or code number(s) assigned by government, Use for numbers assigned to individual report titles, Examples: AD 651 730; PB 117 190; LC 70=79429	43
*si Sponsoring AGENCY == Use for funding agency, private or governmental,	44
#3 SUBORGANIZATION == Use for most significant subdivision of relevant sponsor, skipping #2 unless an intermediate is important for clarity.	44a
#5 CITY, STATE, ZIP == Use in full.	445
#6 CONTRACT OR GRANT NUMBER == Use as given, excluding "No," or "#",	440
#7 PROJECT NUMBER == Use for sponsor's project number if any	440
#8 ORDER NUMBER == Use for sponsor number so designated	44e
#9 OTHER NUMBER == Use for any other number(s) attached by the sponsor	44£
*s2 SECOND SPONSORING AGENCY Use for second sponsor with same subelements as *s1	45
*w1 DATE RECEIVED AT ARC == Use form: 12=27=70	46
*w2 DATE CATALOGED AT ARC == Use form: 12=28=70	47
*w3 INITIALS OF CONTRIBUTOR == Use for attribution to ARC source when desired, Use form; dce	48

*w4 SOURCE IF NOT *a1, *b2, or *w3 ==

	Examples: John F. Bennett, IBM Los Gatos; CFSTI; ERIC CLIS; NTIS	49
*w5	CLERK SUBMITTING FOR AUTHOR Ident of person creating online file for author	50
*w6	DATE LAST EDITED Use when changing a statement	51
*w7	IDENT OF PERSON CHANGING == Used with *w6 when changing a statement	52
*y1	BRIEF ABSTRACT == Use abstract in report, if brief and informative, Use modified abstract from copyrighted publication. Use for clarification when title is not informative, Use (with [L] in title) for statement of any limitation imposed on the contents or citation, Example: LIMITATION: This document not to be cited, Indicate valuable bibliographies.	53
*y2	KEYWORDS FROM DOC OR AUTHOR == Keys to subject content. For keywords assigned by report producer or NTIS, etc. Separate with semicolons and end with semicolon.	54
*y3	KEYWORDS ASSIGNED AT NIC == Keys to subject content. For keywords assigned by NIC in absence of ones given in the document or index. Separeate with semicolons and end with semicolon.	55
*y4	KEYWORDS ASSIGNED AT NIC == For use in special cases:	56
*y8	"UPDATED BY xxxx;" "UPDATES xxxx;" "OBSOLETES xxxx;" == Documents updated or obsoleted,	57
*y9	"OBSOLETED BY xxxx" == Notice of document which obsoletes	58
*z1	NIC HOLDINGS == Use when transmission or general distribution is made, Examples; All; MAC, SDC, UCSB	59
*Z2	SUBCOLLECTION Use to indicate status of an item as a part of one or more subcollections, Examples: NIC, NAS, NIC SHE, NIC NWG, CBI, SUR, NMN, PODAC,	60
*z3	ARC CATALOG MANAGEMENT CODES	

Description of Codes used in Catalog

	ARC master catalog management descriptions. Use for notation of data management, such as form of entry, examples: old, Walt 1; new, Present coding uses: new	61
*z4	ARC HOLDINGS ==	62
*25	LOCATION(S) OF COPY e.g., original DCE; partial photo ARC.	63
A11	statements terminate with: space *	64

6a

Title	1
We propose "Knowledge Workshop Development",	1a
References	2
To Journal items,	2a
please put in links to journal where you cite them; we will run the user program makereff to create references later.	2a1
To the Rest of the World.	2b
Please put offline refernces as a branch at the end of your submission in the format makeref creates:	2b1
(XDOC NUMBER IF AVAILABLE)A, A, Author, Title, Publisher, City, State # Month 19??, #p.	2b1a
Authorship in the Sense of Intellectual Credit	3
The lists of writers in (documentation, final, outline) are not congruent with the list of people who will appear on the report to get credit for the intellectual work, Most obviously several people who now work elsewhere will recieve credit; in some case the reviewers will as well, in other cases not, when we are sure that the outline will hold, we will issue for comment a scheme for allocating intellectual credit.	3a
Publication	4
We hope that some parts of this report can be published later in journals.	4a
Unreadablity	5
Several important people have found ARC publications unreadable. There are many reasons, but we have one basic suggestion: as you write please try to imagine a reader. You might also find something useful in (ljournal, 17799, 2:xb)	5a
Acronyms	6

The contract calls for us to use acronyms sparingly and to define

them carefully at first use when we do use them,

2

3

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.

An other 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.

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.

4		
	I am confused as to how copy, delete, move, and transpose structure with filter should work,	1
	Assume that a plex with the following structure exists:	2
	A	2a
	В	2a1
	c	2a1a
	D	2a1b
	E	2a2
	Now assume you do a copy plex with filter that selects all statements but statement B.	3
	Then the following are the possible results:	4
	method 1;	4a
•	A	4a1
	c	4a1a
	D	4a1a1
	E	4a1b
	method 2:	4b
	A	4b1
	c	4b1a
	D	4b1b
	E	4b1c
	method 3:	40
	A	4c1
	c	4c1a
	D	4c1b
	E	4c2

KEV 23-MAY-74 14:15 23105

copy, move, delete, and transpose with filter

method 4:

4d

A

4d1

DUMMY STATEMENT

4d1a

C

4d1a1

D

4d1a2

E

4d1b

Old NLS, and the current implementation on the new NLS both use method 1. I am in the process of implementing delete, move, and transpose with filter. I will use method 1 to get something running, However, please cast your vote for your preferred method to Susan via the feedback mechanism.

1a

16

LEVEL! Command.

There is a inconsistancy in the CML interpreter.

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

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.

DCE/JCN/RWW: Both JUDY COOKE and CAROL GUILBAULT have informed me they are resigning from SRI-ARC. For each, the last day is May 31. Carol has submitted a resignation letter to Wing; Judy will do so next week, we of course have no plans to replace either of them, but may occasionally during the next month need to hire temporary (one-day) help with the Arpanet Directory and Resource Notebook. ...

Inquiry to COMARCO about Word Processing Systems for SRI Text Handling Study

Stanford Research Inst itute Augmentation Research Center 333 Ravenswood Avenue Menlo Park, California 94025 24 MAY 74

John F. Cogger
Manager Computer Systems
COMARCO Inc.
P.O. Box 519
Port Hueneme, Calif. 93041

Dear Mr. Cogger:

I inclose a couple of recent ARC papers that may be of interest to you. As you can see we are making an effort to make NLS avialable through cheaper and more generally avialable terminal systems.

Another matter prompts this letter however, I am enaged with other (non-ARC) members of the SRI Staff in a study looking to propose an insitute-wide, computer-based text handling system, we are not considering NLS or any system as all-embracing as NLS at the first step. In fact your system, which I recall you were just beinging to offer for sale as a hardware-software package when I visisted, seems to me an attractive candidate.

The SRI study has not really reached the point of comparing candidate word-processing systems. But I would now welcome any writen description you have which I could circulate to the people working with me.

Sincerely,

Dirk van Nouhuys Research Analyst Augmentation Research Center

kfb

Bug with Filename recognition in Load Program command

Maybe this is an NP. Altmode should cause filename recognition for a file in PROGRAMS directory without typing programs, first,

re Victor's copy etc with filter:

It seems to me that if you look at the text as a document (not as L10 program statements, for example) then what one is looking for in using such a command is an excerpt of the document.

The excerpt is to be controlled by the occurrence of certain strings in a chapter, paragraph, section, or subsection of the document.

The extract would be most useful, in my opinion, if alternative three in Victor's write up were used: namely, copy, move, etc ALL the parent statements of any statement that passed the filter, and indicate where appropriate that those parent statements were "empty", i.e. did not themselves contain the filters.

Filter Restructure Default Vote

I vote for method 1

I am confused as to how copy, delete, move, and transpose structure with filter should work.	
Assume that a plex with the following structure exists:	
A	2
В	2a
c	2a1
D	2a1
E	2a
Now assume you do a copy plex with filter that selects all statements but statement ${\tt B}_{\:\raisebox{1pt}{\text{\circle*{1.5}}}}$	
Then the following are the possible results:	
method 1:	4
A	4a
c	4a1
D	4a1a
E	4a11
method 2:	41
A	4b
c	4b1
D	4b11
E	401
method 3:	40
A	401
c	401
D	4011
E	407

method 4:

4d

A

4d1

DUMMY STATEMENT

4d1a

C

4d1a1

D

4d1a2

E

4d1b

old NLS, and the current implementation on the new NLS both use method 1. I am in the process of implementing delete, move, and transpose with filter. I will use method i to get something running. However, please cast your vote for your preferred method to Susan via the feedback mechanism.

Proposal for Research SRI NO. ISU 74=106 SRI=ARC 23114

CONSULTING SERVICES

2

Mr. Gerald L. Askevold United States Geological Survey 345 Middlefield Road Menlo Park, California 24 May 1974

-

Dear Gerald:

4

This letter is a formal proposal for personnel at the Augmentation Research Center of the Stanford Research Institute to provide consulting services to the U.S.G.S. in the area of information processing of geological field data.

5

The consulting services will include assistance to U. S. G. S. staff in an evaluation of available computer services for immediate processing of field data collected in Alaska. The evaluation and recommendations will take into consideration immediate availability of services, processing costs, ease of use, compatibility with (present and planned for) U.S.G.S. computing hardware and software, and evolution of the system to take advantage of improved technology.

6

We propose that this study be conducted in four phases at a total price of \$1,500 as follows:

7

Study and Discussion of

Ba

80

8 C

8 d

8 e

Problems, Alternatives and Plan

240,00

231

Program Development and Testing

Procedure for Handling Summer, 1974 Data

360,00

Long Range Planning and Implications

360.00

TOTAL

1500.00

Each successive phase will be initiated in coordination with the U.S.G.S.

9

Based on the U.S.G.S. choice of editing and data management systems, ARC consultants will also analyse alternative Sycor file and data structures and make recommendations on the optimum structure for the system chosen.

Due to the nature of this consulting effort, no formal reports will be provided by the Institute.

11

The project will be headed by Dr. Richard Watson who has Considerable experience in the design of data entry and information management systems. Dr. Watson's biography is attached together with the biographies of selected ARC staff members whose experience and expertise are relevant to this study.

12

This proposal can be accepted by a purchase order initiated by the U. S. G. S. that contains provisions acceptable to S. R. I. The Institute agrees not to exceed the established amount without prior authorization of the U. S. G. S.

13

This proposal will remain in effect until June 15, 1974. If consideration of the proposal requires a longer period, the Institute will be glad to consider a request for an extension in time.

14

The Augmentation Research Center agrees to begin work on the study immediately on acceptance of the proposal by the U.S.G.S.

15

Yours truly,

16

Douglas C. Engelbart, Director Augmentation Research Center

17

Approved:

19

21

22

Bonnar Cox, Executive Director Information Scince and Engineering Division

BUG with move boundary and character size 0

It's still annoyingly here in case everyone's forgotten,

2a

2a1

2a2

26

261

20

201

2d

201

2d2

Some Comments on the New NLS Command Language, as seen by a DNLS User

some Comments on New NLS Command Language, as seen by a DNLS User

- 1. The question mark facility has several inadequacies:
 - a. some of the "current alternatives" are not implemented.

That is, of course, most frustrating when you're trying to learn a language that's not documented, I STRONGLY RECOMMEND THAT NO ALTERNATIVE BE LISTED UNDER QUESTION MARK UNLESS IT HAS BEEN IMPLEMENTED.

A side effect (a nuisance, really) is that some commands (like "append link") are not implemented, but the user doesn't find that out until he gives the terminating <CA> after typing the command's full syntax expression. At the least, the user should immediately get a "command unrecognized" response === i.e., a "?" just as if he had typed, say, "x" for a command word.

b. the alternative <space> is never indicated,

It shouldn't be indiscriminately indicated, but should definitely be shown when in fact it's a bona fide alternative. That is, when there are command words for the command that REQUIRE <space> to be typed if you are in expert mode.

c. the alternatives are not in alphabetical order.

They definitely should be. Alphabetic conflicts are so fundamental to parsing and the recognition modes that the user ought to be assisted (through alphabetization of the alternatives) in seeing what the potential conflicts are.

d. the valid alternatives are not always described in the HELP system data base.

The valid alternatives should be available in the HELP data base EXACTLY as shown in the question-mark response.

When they re not there, or listed differently, this leads of course to utter frustration for a new NEW NLS user: he can't easily find out what to do in a given situation. I personally find this to be one of the most significant reasons that I don't use NEW NLS very much.

2. The Sendmail subsystem was not adequately debugged, in my opinion, before the new system was brought up.

The main reason I don't use NEW NLS very often is that I can't

depend on being able to send Journal mail. There always seems to be a new bug: comments resulted in "illegal string designation"; titles resulted in "fst entry nonexistant [sic]"; etc. I don't want to find these errors; frankly, I expected that there would have been extra effort spent to debug Sendmail before bringing the system up, since it is such a fundamental aspect of the use of NLS.

3a

3. The Editor subystem contains far too many commands, resulting in unecessary alphabetic conflicts.

.

In reality the presently implemented Editor subsystem seems to me to encompass AT LEAST three subsystems; an EDITOR, a FILE-handler, a TERMINAL-handler; and possibly also (depending on your viewpoint) a TELECONFERENCING handler, and a HARDCOPY-OUTPUT handler.

48

I suggest the present editor subsystem be subdivided as shown below (I hope I haven't missed any commands; if so, I hope it will be obvious where they would go in this scheme).

46

Note that a few commands are common to more than one of the subdivisions, for ease of use. (I feel no esthetic or philosophical conflict in that approach.)

4b1

Editor:

transpose

4c

append string / structure break " " copy " " delete " " insert " "

4c1

move string / structure replace " " substitute " "

#

7

freeze statement / branch / group / plex release statement / branch / group / plex / all

4c2

403

jump (as presently implemented)
load file
renumber sid's
update

set case / filter / name=delimiters / viewsPecs
reset " "
show " "

404

	sort	
	merge	406
	print	
	output quickprint	407
	execute	
	goto	
	help	
	quit	408
1	File Handler:	4d
	archive file	
	copy file / directory / sequential / archive	
	create file	
	delete file / modifications	
	expunge directory / archive	4d1
	load file	
	move file	
	protect file	
	retrieve file	
	trim directory	4d2
	connect directory	4d3
	Comment day of the contract of	
	set archive / link=default / name=delimiters / temporary	
	reset " "	
	show " " / directory / file=status / disk=space	4d4
	set private / public	4d5
	sort	
	merge	4d6
	undelete file / modifications	
	verify file	4d7
	freeze statement / branch / group / plex	
	release statement / branch / group / plex / all	
	renumber sid's	4d8
	jump	
	execute	
	goto	
	help	
	quit	4d9
		4.44

Terminal Handler:	46
clear window	
split window	
simulate terminal	
move boundary	4e:
set tty=window / char=size	
reset " "	4e2
execute	
goto	
help	
quit	4e3
Hardcopy Output Handler (or, possibly a part of the File=Handler):	41
output assembler / COM / journal / printer /	
quickprint / remote / sequential / terminal	The same
print	4£1
set viewspecs / name=delimiters	
reset " "	
show " "	4£2
jump	
execute	
goto	
help	4£3
	4 I J
Teleconference Handler:	49
start recording session	
stop recording session	
playback recording session	491
accept connection	
connect terminals	
disconnect terminals	492
link terminals (not presently implemented in NLS)	
break links " "	493
Universal commands	4h
help (getting you to a relevant place in the HELP data base)	4h1
set (with operands appropriate to the subsystem)	

show " " reset " "

4h2

execute logout quit

4h3

4. Miscellaneous difficulties in using NEW (D)NLS.

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.

5a

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

5a1

I think this depends on the situation.

5a2

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.

5a3

= I am personally not satisfied with the automatic return to "command reset" mode after every command terminator.

5b

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.

5b1

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.

5b2

"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?

5e

"execute command in HELP" shouldn't drag up HELP's long explanatory text. It should just let you do "SHOW X" for any X.

5d

513

5k

- . "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. 5e = you can of course "goto tenex", but you can't "execute command in Tenex" --- so tenex is not a true subsystem ! 5f = since you can "undelete archive file", why can't you "delete archive file" (or can you, with another command?) = "all" is not a satisfactory alternative command word (in the "delete all markers" command), Here and wherever the second command "word" is really a phrase, I would prefer seeing the alternative listed as a hyphenated expression, such as "all=markers". This will of course require coordination between the question mark responses and the help data base statement names. 5h = "freeze" and "release" have long suffered (in my opinion) from not jetting you set viewspecs "o" and "p" before completing the command. I wish that would be implemented. 51 Note also in my proposed categorization of current editor commands given above, that I've recommended expanding the freeze and release commands to include branch, group, and plex as legitimate objects. In addition, I would recommend that "release all" automatically result in viewspec "p" being set. 511 = you can "reset prompt" but you can't "set" or "show" prompt. Should be consistent and allow all three, 51 As a matter of fact, there is considerable inconsistency between the question mark responses and the HELP data base on the "prompt" stuff. 511 Question mark lists "reset prompt" within the Editor subsystem, but omits "set prompt" in that subsyst; HELP says that set and reset prompt are in USEROPTIONS, 512
- HELP data base says nothing that I could find about "set private" and "set public".

commands.

HELP also says that set and reset RECOGNITION MODE are in USEROPTIONS, but it lists them under the "SHOW SET" command anyway, implying (to me) that these are editor subsystem

you should be able to "show" link=default=directory, as a supplement to the ability to set and reset it.

51

- you should be able to do a Tenex "link" and "break links" from within NLS, with the text of the conversation appearing in the literal feedback window (with suitable push-down and roll-up). This would remove yet one more visible reminder of Tenex's presence.

5 m

= the command "record session" would (in my opinion) be better named as "start recording=session" to complement "stop recording=session"

5n

5. Suggestions for minor additions to NEW NLS.

6

"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.

6a

- I would like to see the LiO compiler pass on to the Loader the required information about the size of a compiled program, and correspondingly I would like to see the "Load Program" mechanism be smart enough to obtain the required buffer size from the Compiler's passed data, and AUTOMATICALLY SET THE BUFFER SIZE just before loading the user program.

6b

It is abominably annoying to have to know or guess and then set the buffer size of a user program. And certainly it is entirely unnecessary, given a slight change to the Loader.

6b1

= I would like to see Output Quickprint REFRAIN from putting its single=line, top=of=the=page identifier on any but the first page of an output quickprint listing. (Continuing to print the page number at the top or bottom of each page is an o.k. thing, however. I recommend adding the word "Page".)

6 C

The result would be an eminently more useable draft, in my opinion, and would open the door to allow some simple user programs to do quick, clean, simple formatting jobs for particular user needs without having to invoke the cumbersome Output Processor.

6c1

= I would still like to see the sort and merge commands upgraded, as defined by me last year (see == jjournal, 17234,1:wy).

6d

1a

1b

There is a inconsistancy in the CML interpreter.

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

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,