

Flakey Sony Video Camera

1 Last thursday I started to use the portapack and video camera and discovered scattered small black spots like sunspots in the field of view. The spots show up with varying intensity when the tape is played back. The last person on record as having used it is me on May 29th when it worked fine. Kirk reports that he used it on June 3 and there was no problem at that time. The spots are not very big: that is the camera is still useful for record keeping purposes but but should be fixed before we do anything like record a presentation.

1

Flakey Sony Video Camera

(J26026) 17-JUN-75 15:19;;; Title: Author(s): Dirk H. Van
Nouhuys/DVN; Distribution: /MEH([ACTION]) KIRK([INFO-ONLY]) HGL(
[INFO-ONLY]) RLL([INFO-ONLY]) ; Sub-Collections: SRI-ARC; Clerk:
DVN;

May BBNB outages

1 Here is our summary of BBN Tenex System B service outages for May 1975 as manually noted, we know that many of the shorter outages go unreported.

2	day	time	min	remark	3
3	5-1	1155	5	remote host dead	3
4	5-2	0900	2	jobs detached	4
5	5-2	0905	?	remote host dead	5
6	5-3	1600	?	remote host rejecting	6
7	5-4	0530	45	bbn imp down	7
8	5-6	1125	5	network down at bbn	8
9	5-6	1240	30	bbnb broken	9
10	5-13	1025	25	down	10
11	5-13	1055	2	down	11
12	5-16	0947	2	service interruption	12
13	5-16	0952	7	service interruption	13
14	5-16	1006	15	remote host disconnected	14
15	5-16	1021	5	remote host rejecting	15
16	5-16	1026		up--all jobs lost	16
17	5-16	1027	33	down	17
	5-16	1102	?	down	17
18	5-16	1316	?	down	18
19	5-16	1600	?	service interruption	19
20	5-16	2150	60	down	20
21	5-17	1200	120	down--unscheduled maintenance	21
22	5-19	1250	25	down	22
23	5-21	1315	?	down	23

May BBNE outages

24	5-22	1145	2	down	24
25	5-27	0800	?	sri imp down	25
26	5-29	1200	20	host not responding	26
27	5-30	1502	3	down	27
28	5-30	1522	1	stopped	28

May BBNB outages

(J26027) 17-JUN-75 17:13;;; Title: Author(s): Jonathan B.
Postel/JBP; Distribution: /DCE([INFO-ONLY]) RWC([INFO-ONLY])
JCN([INFO-ONLY]) ; Sub-Collections: SRI-ARC; Clerk: JBP;
Origin: < POSTEL, MAY-DOWNTIME.NLS;2, >, 17-JUN-75 17:10 JBP
;;;####;

Introduction to NLS 8 Glossary

Following helpful comments on my draft (gjournal,25994,) the introduction to the Glossary (userguides,glossary, 1 .t) stands as shown here.

Introduction to NLS 8 Glossary

1

Introduction

1

1a This list of terms was generated from the information available online in a file built to be read by an automatic question answering system (the "Help Command"). In generating this document our goal has been to produce a true glossary, to be used for the most part as a dictionary. We imagine readers who are studying other NLS documentation, trying to recall what they have learned in classes or from co-workers, or are working online and want to supplement the Help command. NLS is a new medium with extensive new terminology. We explain terms peculiar to NLS, and in some cases explain terms familiar to some computer users but strange to the increasing number coming to NLS without computer background. It is possible to learn about NLS by browsing in this glossary, as it is possible to learn about English by browsing in a dictionary, but only in a somewhat haphazard way.

1a

1b The source of the material and the small size of the vocabulary (in comparison to the number of words in a natural language) limited us in certain ways. One limitation is the size of loops. As in the case of any dictionary, definitions of terms lead to definitions of other terms which in the end lead back to the first term. The size of these loops has been taken as the measure of the power of a dictionary. Because of the limited size, the highly cross-referenced source material, and limitations of time, the loops are sometimes rather short in this glossary.

1b

1c Those familiar with the hierarchical arrangements characteristic of NLS will understand that it was difficult to level our information out to form an alphabetic list. The location of command is a case in point. Should the command "delete word" be indexed under word? under delete? or under Base, since it is part of the Base SubSystem? In the end we alphabetized all commands under their first word, and added lists of commands under the names of the various subsystems. Because commands to delete exist in several subsystems, it was necessary to add (BASE) after the reference to Delete to guide the reader in selecting among several entries.

1c

1d A similar problem appears in the names given to variables that appear in only one or a few commands. For example in the "Show Directory" and "Copy Directory" commands a user may optionally choose to see several secondary facts about the file. The choices are called collectively DIROPT in the command syntax. Where should DIROPT appear in the glossary? Since DIROPT appears in the the syntax of several commands, it appears alphabetically under D.

1d

Introduction to NLS 8 Glossary

1e Some descriptions have references such as "pointing: See pointing". Descriptions cited in this way will be found in alphabetic order (under P in the case of "pointing"). Unless otherwise noted, a command description refers to a command in the BASE subsystem.

1e

1f Comparison of the content of definitions in the Glossary with those read online with the Help command will sometimes reveal differences. In most cases it is because the online version is more up-to-date.

1f

1g This experiment in generating usable offline documentation from a source optimally formatted for online viewing will be repeated in the future. We welcome suggestions and corrections. Please let us know the forms and media best suited to provide the information you need to learn and use NLS.

1g

Introduction to NLS 8 Glossary

2 DEFINITIONS AND CONVENTIONS IN COMMAND SYNTAX. Ifirst=0;

2a Terms to be defined are in Newsgothic type, as are INLS examples. Definitions are in Times Roman, the type face of the body of this introduction. Each commandword begins with a capital letter, and the rest is lower case. Words in all upper case are variables, that stand for certain alternatives which are defined either below or in the body of the glossary. Citations to other parts of the glossary are in slanted type. Paragraphs that are subordinate to higher-level definitions are indented and in smaller type.

2b Parentheses (....) bound noise words echoed by system; prompts are not shown.

2c / means or

2d SUBSYSTEM = Base / Programs / Sendmail / Calculator / Useroptions

2d1 (These are commandwords)

2e STRING = Character / Word / Visible / Invisible
/ Number / Link / Text

2e1 (These are commandwords)

2f STRUCTURE = statement / Group / Branch / Plex

2f1 (These are commandwords)

Introduction to NLS 8 Glossary

2g ADDRESS:

a FILEADDRESS and/or an INFILEADDRESS ending with an OK (or just an OK in TNLS for prior location). FILEADDRESS if used must come first. Elements of an INFILEADDRESS, if more than one are used, must be separated by <SP>.

2n DESTINATION:

In TNLS: DESTINATION = ADDRESS.

In DNLS: DESTINATION = BUG / ADDRESS

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

2i SOURCE:

In TNLS: SOURCE = ADDRESS / OPTION TYPEIN

In DNLS: SOURCE = BUG / ADDRESS / OPTION TYPEIN

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

2j CONTENT:

In TNLS: CONTENT = TYPEIN / OPTION ADDRESS

In DNLS: CONTENT = BUG / TYPEIN / OPTION ADDRESS

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

2k TYPEIN = a string of characters from the keyboard, ending with an OK.

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

2l OPTION = the <CTRL-U> character

2m LEVEL-ADJUST:

a lowercase d (for down) or one or more lowercase u's (for up), optionally terminated by a <SP> or OK; if you ignore the LEVEL-ADJUST and start typing the level will be the same.

Introduction to NLS & Glossary

2n VIEWSPECS:

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

2o ANSWER: Type y for yes or n for no. You may usually type OK here. The command will be immediately executed.

2p OK: CA / OKINSERT / OKREPEAT

2p1 CA: Command Accept: confirms a command or terminates a field within a command.

2p1a DNLS default special character: CA/<CTRL-D>

2p1b TNLS default special character: CR/<CTRL-D>

2p2 OKINSERT: At the end of a command in Base subsystem only, executes the command and starts "Insert Statement" command, defaulting current location. Then you do: LEVEL-ADJUST CONTENT OK. INSERT mode continues until you type CD. In all other cases, OKINSERT has no special meaning; it is equivalent to Command Accept.

2p2a default special character: <CTRL-E>

2p3 OKREPEAT: At the end of any command, executes it and repeats it from the beginning, defaulting each command-word until reaching the first field not a commandword that you can specify. Then you take over the command. REPEAT mode continues until you type CD. Used elsewhere, OKINSERT has no special meaning; it is equivalent to Command Accept.

2p3a DNLS default special character: <CTRL-B>

Introduction to NLS 8 Glossary

2q CD: Command Delete. It aborts a command immediately and will also take you out of INSERT or REPEAT mode.

2q1 default special character: <CTRL-X>

Introduction to NLS 8 Glossary

(J26029) 18-JUN-75 18:46;;; Title: Author(s): Dirk H. Van
Nouhuys/DVN; Distribution: /DMB([ACTION] dirt notebook please) DIRT(
[INFO-ONLY]) SGR([INFO-ONLY] I did not follow your suggestion
about the paragraph on loops because no one else seemed to have that
problem) ; Sub-Collections: SRI-ARC DIRT; Clerk: DVN;

1 26029 Distribution

1a Delorse M. Brooks, Jonathan B. Postel, Priscilla A. Wold, Rita Hysmith, Pamela K. Allen, Delorse M. Brooks, Elizabeth F. Finney, Beverly Boli, Lawrence A. Crain, Kirk Sattley, Susan Gail Roetter, Robert N. Lieberman, Ann Weinberg, Kenneth E. (Ken) Victor, Douglas C. Engelbart, James H. Bair, Elizabeth K. Michael, Richard W. Watson, Elizabeth J. Feinler, Harvey G. Lehtman, Kirk E. Kelley, Laura E. Gould, Jeanne M. Beck, Dirk H. Van Noughuys, James C. Norton, Susan Gail Roetter,

x110 debugging aids

1 there is a new version of [BBNB]<VICTOR>SYMBOL.NLS so those of you
who are using it must re-edit and then recompile it and then reload.

1

x110 debugging aids

(J26030) 18-JUN-75 20:16;;; Title: Author(s): Kenneth E. (Ken)
Victor/KEV; Distribution: /NPG([ACTION]); Sub-Collections: SRI-ARC
NPG; Clerk: KEV;

1 26030 Distribution

1a Jan A. Cornish, Larry L. Garlick, Robert Louis Belleville,
Elizabeth J. Feinler, Joseph L. Ehardt, Jonathan B. Postel, Kirk E.
Kelley, Karolyn J. Martin, David S. Maynard, Kenneth E. (Ken) Victor,
James E. (Jim) White, Elizabeth K. Michael, Don I. Andrews, J. D.
Hopper, Charles H. Irby, Harvey G. Lehtman,

Glossary goes to DDSI AGAIN

I Something went horribly wrong with the transfer described in (journal, 25968,) and neither ISI nor DDSI claim to be able to locate tape 121. In any event I processed the glossary into a CDM file again this morning, put it onto tape 114 at ISI, and called DDSI. It is <glossary.com:1>.

1

Glossary goes to DDSI AGAIN

(J26042) 20-JUN-75 14:48;;; Title: Author(s): Dirk H. Van
Nouhuys/DVN; Distribution: /DNB([ACTION] dpcs notebook Please) KIRK(
[INFO-ONLY]) PAW2([INFO-ONLY]) BEV([INFO-ONLY]) POOH([
INFO-ONLY]) PKA([INFO-ONLY]) &DPCS([INFO-ONLY]) ;
Sub-Collections: SRI-ARC DPCS; Clerk: DVN;

1 26042 Distribution

1a David N. Berg, Kirk E. Kelley, Priscilla A. Wold, Beverly Boli,
Ann Weinberg, Pamela K. Allen, Documentation Production and Control
System Interest Group ,

Glossary goes to DDSI AGAIN

1 Something went horribly wrong with the transfer described in (journal, 25968,) and neither ISI nor DDSI claim to be able to locate tape 121. In any even I processed the glossary into a COM file again this morning, put it onto tape 114 at ISI, and called DDSI. It is <glossary.com;1).

1

Glossary goes to DDSI AGAIN

(J26043) 20-JUN-75 14:48;;; Title: Author(s): pirk H. Van
Nouhuys/DVN; Distribution: /DNB([ACTION] dpcs notebook Please) KIRK(
[INFO-ONLY]) PAW2([INFO-ONLY]) BEV([INFO-ONLY]) POOH([
INFO-ONLY]) PKA([INFO-ONLY]) &DPCS([INFO-ONLY]) ;
Sub-Collections: SRI-ARC DPCS; Clerk: DVN;

1 26043 Distribution

1a David N. Berg, Kirk E. Kelley, Priscilla A. Wold, Beverly Boli,
Ann Weinberg, Pamela K. Allen, Documentation Production and Control
System Interest Group ,

Cost of a Development Person for a Year

1 There are many people at ARC who are likely to have to interface to clients and discuss development costs. Therefore for your information you should know that a development person on project with SRI burden, overhead and direct costs of ITenex time, terminal rental, a piece of ELF, some materials and services, minimal travel and other misc costs about \$80K on average to support for one year (this II seems to like to repeat characters). That is clearly a lot of money so we need to learn to be as productive as possible. Dick

1

Cost of a Development Person for a Yearr

(J26044) 20-JUN-75 19:11;;; Title: Author(s): Richard W.
Watson/RWW; Distribution: /SRI-ARC([INFO-ONLY]) ; Sub-Collections:
SRI-ARC; Clerk: RWW;

1 26044 Distribution

1a Harvey G. Lehtman, James C. Norton, Jeffrey C. Peters, Dirk H. Van Nounhuys, Kenneth E. (Ken) Victor, Richard W. Watson, Don I. Andrews, 1b Laura J. Metzger, Kerolyn J. Martin, Jan A. Cornish, Larry L. Garlick, Priscilla A. Wold, Pamela K. Allen, Delorse M. Brooks, Beverly Boli, Rita Hysmith, Log Augmentation, Joseph L. Ehardt, Raymond R. Fanko, Susan Gail Roetter, Robert Louis Belleville, Rene C. Ochoa, Ann Weinberg, Joan Hamilton, Adrian C. McGinnis, Robert S. Ratner, David S. Maynard, Robert N. Lieberman, Sandy L. Johnson, James H. Bair, Jeanne M. Leavitt, Rodney A. Bondurant, Jeanne M. Beck, Marcia L. Keeney, Elizabeth K. Michael, Jonathan B. Postel, Elizabeth J. Feinler, Kirk E. Kelley, N. Dean Meyer, James E. (Jim) White, Douglas C. Engelbart, Martin E. Hardy, J. D. Hopper, Charles H. Irby

Glossary goes to DDSI AGAIN

1 Something went horribly wrong with the transfer described in (journal, 25968,) and neither ISI nor DDSI claim to be able to locate tape 121. In any event I processed the glossary into a COM file again this morning, put it onto tape 114 at ISI, and called DDSI. It is <glossary.com;1>.

1

Glossary goes to UDSI AGAIN

(J26045) 20-JUN-75 14:48;;; Title: Author(s): dirk H. Van
Nouhuys/DVN; Distribution: /DNB([ACTION] dpcs notebook Please) KIRK(
[INFO-ONLY]) PAW2([INFO-ONLY]) BEV([INFO-ONLY]) POOH([
INFO-ONLY]) PKA([INFO-ONLY]) &DPCS([INFO-ONLY]) ;
Sub-Collections: SRI-ARC DPCS; Clerk: DVN;

1 26045 Distribution

1a David N. Berg, Kirk E. Kelley, Priscilla A. Wold, Beverly Boli,
Ann Weinberg, Pamela K. Allen, Documentation Production and Control
System Interest Group ,

Cost of a Development Person for a Year

1 There are many people at ARC who are likely to have to interface to clients and discuss development costs. Therefore for your information you should know that a development person on project with SRI burden, overhead and direct costs of ITenex time, terminal rental, a piece of ELF, some materials and services, minimal travel and other misc costs about \$80K on average to support for one year (this TI seems to like to repeat characters). That is clearly a lot of money so we need to learn to be as productive as possible. Dick

1

Cost of a Development Person for a Yearr

(J26046) 20-JUN-75 19:11;;; Title: Author(s): Richard W.
Watson/RWW; Distribution: /SRI-ARC([INFO-ONLY]) ; Sub-Collections:
SRI-ARC; Clerk: RWW;

1 26046 Distribution

1a Harvey G. Lentman, James C. Norton, Jeffrey C. Peters, Dirk H. Van Nounuys, Kenneth E. (Ken) Victor, Richard W. Watson, Don I. Andrews,
1b Laura J. Metzger, Carolyn J. Martin, Jan A. Cornish, Larry L. Garlick, Priscilla A. Wold, Pamela K. Allen, Delorse M. Brooks, Beverly Boli, Rita Hysmith, Log Augmentation, Joseph L. Ehardt, Raymond R. Panko, Susan Gail Roetter, Robert Louis Belleville, Rene C. Ochoa, Ann Weinberg, Joan Hamilton, Adrian C. McGinnis, Robert S. Ratner, David S. Maynard, Robert N. Lieberman, Sandy L. Johnson, James H. Bair, Jeanne M. Leavitt, Rodney A. Bondurant, Jeanne M. Beck, Marcia L. Keeney, Elizabeth K. Michael, Jonathan B. Postel, Elizabeth J. Feinler, Kirk E. Kelley, N. Dean Meyer, James E. (Jim) White, Douglas C. Engelbart, Martin E. Hardy, J. D. Hopper, Charles H. Irby

need to update your biographies

I noticed for the first time in looking through the proposal that many of the biographies are quite out of date and some of the new ones are not exactly what I would like to see. I will have to put them online and distribute them to each of you for updating. As we write more proposals in the coming months it is important to get them right.

need to update your biographies

(J26047) 20-JUN-75 19:57;;; Title: Author(s): Richard W.
Watson/RWW; Distribution: /ARC-DEV([ACTION]) JCN([INFO-ONLY])
DCE([INFO-ONLY]) ; Sub-Collections: SRI-ARC ARC-DEV; Clerk: RWW;

1 25047 Distribution

1a Jan A. Cornish, Larry L. Garlick, Delorse M. Brooks, Beverly Boli,
James E. (Jim) White, Ann Weinberg, Kenneth E. (Ken) Victor, Dirk H.
Van Nounhuys, Jonathan B. Postel, Elizabeth K. Michael, David S.
Maynard, Karolyn J. Martin, Harvey G. Lentman, Kirk E. Kelley,
Charles H. Irby, Joseph L. Ehardt, Robert Louis Belleville, Don I.
Andrews, Richard W. Watson, Douglas C. Engelbart, James C. Norton,
Douglas C. Engelbart,

more x110 debugging aids

this is an update of previous documentation and includes 3 new functions for doing contenet searches. for those of you using these procedures note also that there are now new files at [obnb]<victor> for debugging and these files contain bug fixes in addition to the new features

more x110 debugging aids

- 1 this document attempts to describe how to use some of the debugger back end routines from ddt to assist in debugging x110 programs. 1
- 2 the basic approach consists of editing some files (for address space configuration constants), compiling some files, loading these files with the files you wish to debug, using tenex ddt to set breakpoints, examine/modify memory, etc., calling procedures that I have provided to display stack frames, records, catchframes, etc. 2
- 3 detailed instructions: 3
- 3a 1) edit the file [bbnb]<victor>symbol.nls as follows: 3a
- 3a1 the two constants: firstpage & lastpage define the inclusive bounds of pages in the address space to be used as window pages for examining a fork. set these up to point to an unused area in your address space; the larger this area the better; 3a1
- 3a2 the nsw debugger keeps a copy of the symbol table for the fork it is debugging in its own address space. the size of this area is defined by the constant symzarea. in the special case where you are debugging the same address space as the one in which the debugger lives, this constant can get set to some small token amount to conserve space in your adr space, since the debugger does not in this special case get a duplicate copy of the symbol table. 3a2
- 3a3 (all these constants are statement names so it should be easy to find them) 3a3
- 3b 2) compile the following files using x110 to whatever rel files you like: 3b
- 3b1 [bbnb]<victor>symbol.nls % as edited above % 3b1
- 3b2 [bbnb]<victor>110ddt.nls 3b2
- 3b3 [bbnb]<victor>debug.nls 3b3
- 3c 3) load the above rel files with your rel files 3c
- 3d 4) this step is optional but recommended for your own convenience: 3d
- 3d1 debugger functions are invoked by the execution of the followings instruction in ddt: 3d1
- 3d1a pushj s,func 3d1a

more x110 debugging aids

- 3d2 it is impossible in l10 to define a symbol with a 36bit value such that the righthalf is a relocatable adr. therefore i recommend that in your runfil for loading that after the load is done, you go into ddt and perform the following steps to define shorthand representations for the needed procedure calls (i also recommend that we all use the same shorthands for the obvious reasons) :
- 3d2a to define the symbol "sf" to have the value "pushj s,func" type the following to ddt:
- 3d2a1 pushj s,func<sf:
- 3d2b (see the appendix for a complete list of currently supported functions, recommended shorthands, and arguments reequired.)
- 3e 5) using the debugger
- 3e1 the procedures in the debugger all assume that a valid l10 environment exists at the time they are called. therefore it is your responsibility to set up this environment before calling any of the debugger procedures. you may then set tenex ddt breakpoints as you wish and call these procedures while at the breakpoint by typing the following (for example):
- 3e1a sfx if you did step 4 above or pushj s,funcx
- 3e2 after hitting a breakpoint if you wish to examine the stack you must call the procedure stop or sfrs before calling the procedures snext, sback, sown, or scur
- 3f 6) debugger output
- 3f1 all outPut is in Octal (will be user settable in the nsw debugger)
- 3f2 the number of declared formals and number of locals will always be zero, but the number of passed formals to a procedure will be right
- 3f3 in displaying a record the field value will always be displayed in octal, and if there is a symbol in the symbol table with the exact value of the field value it will also be displayed symbollically.
- 3f4 in displaying a record the size of each field is shown in (octal) bits

more x110 debugging aids

3g 7) where to set breakpoints 3g

3g1 for best results set breakpoints at the following places: 3g1

3g1a procedure-name + 1 3g1a

3g1b coroutine-name + 3 3g1b

3g1c after a pcall after the store of the calling frame port
id (this is usually a movem 8,-1(M) inst after a jsp
a4,pcall inst) 3g1c

4 I believe that the debugger does not clobber anything and that it
works, but please understand that it is still under development.
please advise me of any problems you run into 4

5 my current plans call for me to work on a higher level in the
debugger, but am open for suggestion if you would like other
primitives (e.g. show list) that would assist in your current
debugging 5

6 APPENDIX - currently supported functions 6

6a each function will be listed by showing first the function
name, then the longhand calling sequence, then the recommended
shorthand symbol, and finally a description of globals (if any)
that need to be set up and the function performed by this
procedure. 6a

6b stop - pushj s,stop - st 6b

6b1 this procedure shows the current top of stack frame 6b1

6c sfrs - pushj s,sfrs - sf 6c

6c1 this procedure displays the stack frame whose mark is in
the global "frame" (frame should not be changed by anything
the debugger does so it should live across breakpoints) 6c1

6d scur - pushj s,scur - sc 6d

6d1 this procedure will display the current stack frame. the
current stack frame is the frame that was last displayed by the
debugger in its current instance. this procedure is useful if
you have performed other functions and can no longer see the
current frame on a display screen 6d1

6e sback - pushj s,sback - sb 6e

more x110 debugging aids

6e1 this procedure will show the stack frame for the routine that called the routine whose stack frame is the current frame 6e1

6f sown - pushj s,sown - so 6f

6f1 this procedure will show the stack frame for the routine that owns the current routine. if the current routine is a coroutine, then this procedure will show its owner; if the current routine is a procedure, then this procedure is equivalent to sback 6f1

6g snext - pushj s,snext - sn 6g

6g1 this procedure is the inverse of sback 6g1

6h spar - pushj s,spar - sp 6h

6h1 this procedure will show the passed formals to a procedure. in the future it will show the maximum of passed/declared formals for a procedure and the declared formals for a coroutine 6h1

6i scat - pushj s,scat - scp 6i

6i1 this procedure will show the invoked catchphrases for the current frame. the most recently invoked catchphrase will be the last displayed catchphrase. the address preceding the colon in the display is the address on the system catchframe stack for this catchphrase. 6i1

6j sstr - pushj s,sstr - ss 6j

6j1 this procedure will display the string whose address is in the global csname. (csname should not change by anything the debugger does.) 6j1

6k srec - pushj s,srec - sr 6k

6k1 this procedure will display the instance of the record whose name is in the l10 global string crname and whose instance address is in the global cradr. (neither cradr or crname will change by anything the debugger does.) (note that crname is an l10 string and must have valid l10 string syntax.) 6k1

6l ssig - pushj s,ssig - ssg 6l

6l1 this procedure will display the current signal status. to make best use of this function, set a breakpoint at bptctn. the active catchphrase displayed will then be the catchphrase

more x110 debugging aids

```

        that will be dispatched (activated) upon continuing from the
        breakpoint at bptctn                                     611
6m fcon - pushj s,fcon - fc                                     6m
        6m1 this procedure will find the content contained in cell
        "srcval" as masked by the value in "srcmask" between the bounds
        specified in cells "srcsadr" (starting address) and "srceadr"
        (ending address)                                       6m1
6n fincon - pushj s,fincon - fnc                                6n
        6n1 this procedure is a "not content" search using the same
        cells as fcon.                                         6n1
6o fadr - pushj s,fadr - fa                                     6o
        6o1 this procedure will search the bounds specified by
        "srcsadr" and "srceadr" for the address which is in "srcval" 6o1

```

more x110 debugging aids

(J26048) 21-JUN-75 00:25;;; Title: Author(s): Kenneth E. (Ken)
Victor/KEV; Distribution: /NPG([ACTION]) RWW([INFO-ONLY]) ;
Sub-Collections: SRI-ARC NPG; Clerk: KEV; Origin: < VICTOR,
DOC-DEBUGGER,NLS;1, >, 20-JUN-75 20:50 KEV ;;;;####;

1 26048 Distribution

1a Jan A. Cornish, Larry L. Garlick, Robert Louis Belleville,
Elizabeth J. Feinler, Joseph L. Ehardt, Jonathan B. Postel, Kirk E.
Kelley, Karclyn J. Martin, David S. Maynard, Kenneth E. (Ken) Victor,
James E. (Jim) White, Elizabeth K. Michael, Don I. Andrews, J. D.
Hopper, Charles H. Irby, Harvey G. Lehtman, Richard W. Watson,

DSM 22-JUN-75 03:30 26049

Debugging the NLS Back End

Enjoy !

Debugging the NLS Back End

1 The following two save files are of interest to those debugging the NLS Back End:

1a <relnine>nls-cli.sav;

1a1 This save file runs CHI's CLI which fires up the save file <relnine>benis.sav; as an inferior fork, communicating with it through shared page 300. This save file is the NLS Back End. Note that the only functions currently implemented are calling a procedure in the Back End and returning results to the Front End. Temporary Returns and remote calls from the Back end are not yet supported.

1b <relnine>test-cli.sav;

1b1 This save file runs CHI's CLI which fires up the save file <relnine>nlsbe.sav; as an inferior fork, communicating with it through shared page 600. This save file contains only the middle-end code, i.e., the Back End has been replaced by a set of dummy x routines. It exists to allow the debugging of the middle end to be isolated from that of the Back end.

1c Notes:

1c1 <relnine>benis.sav; and <relnine>nlsbe.sav; both incorporate the debugging aids developed by KEV and documented in (26048).

1c2 When you run <relnine>nls-cli.sav; you will reach a breakpoint at a procedure called startmiddle. This gives you a chance to set additional breakpoints of your own. Since startmiddle is only called once failing to set at least one additional breakpoint implies that you can never again enter dot in the inferior fork. Stuffing a 1 into the global variable mdebug causes the middle-end to print a diagnostic message just before calling any x routine. This message contains both the L10 list version of the raw PCP arguments passed by the Front-end and the converted arguments supplied by the middle-end.

1c3 The following table lists the runfiles which create the various save files. All are in directory <relnine> (NLS source files are in directory <nine>):

1c3a beldr.txt -> benis.sav;

1c3b loadmiddle.txt -> nlsbe.sav;

1c3c loadnlscli.txt -> nls-cli.sav;

Debugging the NLS Back End

lc3d loactestcli.txt -> test-cli.sav;

lc3d

DSM 22-JUN-75 03:30 26049

Debugging the NLS Back end

(J26049) 22-JUN-75 03:30;;; Title: Author(s): David S. Maynard/DSM;
Distribution: /KJM([ACTION]) HGL([ACTION]) EKM([ACTION]) ;
Sub-Collections: SRI-ARC; Clerk: DSM;

1 26049 Distribution

1a Karolyn J. Martin, Harvey G. Lehtman, Elizabeth K. Michael,

Weekly NLS report Jun-20-75

1	Belleville	1
1a	Done last week	1a
1a1	mouse/keyset (1md)	1a1
1a2	nsw planning with EKM & HGL (1/2 md)	1a2
1a3	Output processor/com/graphics (1 1/2 md)	1a3
1a4	graphics (2 md)	1a4
1b	To do next week	1b
1b1	graphics work	1b1
1b1a	split screen	1b1a
1b1b	symbols	1b1b
1b1c	initial release planning	1b1c
2	Cornish	2
2a	Done last week	2a
2a1	general training	2a1
2a1a	wrote several small L10 programs to familiarize myself with L10, nls in general and nls as a programming environment. Specifically, NDDT to debug one of my programs.	2a1a
2a1b	Readings in TENEX executive manual, several L10 guides, descriptions of CML.	2a1b
2a2	NSW COBOL	2a2
2a2a	Had several design discussions with E. Michael.	2a2a
2a2b	Readings in memos by Muntz regarding WM batch processor, B4700 COBOL manual.	2a2b
2a2c	Summary of design in <Cornish,Cobolthots,>.	2a2c
2b	To do next week	2b
2b1	More general training.	2b1

Weekly NLS report Jun-20-75

2b2 Complete design of <cornish,cobolthots,category1> and begin coding if possible.

2b2

3 Kelley

3

3a Done last week see <bbnd,kkelley,do,done,d> or <office-1,kkelley,do,done,d>

3a

3b 20-JUN-75

3b

3b1 Changed the airforce format tool to have a "Format" command because cannot abort in the middle of a subsystem that just asks questions (has no command words).

3b1

3b2 Debugged the useroptions commands for Space for tabs.

3b2

3b3 Copied new tab input mode procedures (and debugged bugs that appeared from the copy) into GNLS.

3b3

3b3a fixed <nls,inpfbk,sprjtb> to look for rjtchr instead of rjtcri-5.

3b3a

3b4 Discussed with CHI possible ways of putting it in the NSW. Didn't see any that would not take a lot of effort.

3b4

3b5 Started fixing CTRL-Q to work on a multi-file help database.

3b5

3b6 Reviewed documentation, status of documentation work, and my "professional" abilities.

3b6

3c To do next week see <bbnd,kkelley,do,> or <office-1,kkelley,do,>

3c

4 Lehtman

4

4a 20-June

4a

4a1 Selected illustrations for FINAL REPORT sections from the slide library. Wrote captions with and for Jeanne Leavitt.

4a1

4a2 Designed file system interface to works manager. Plans to implement a test version next week.

4a2

4a3 Debug initialization. In process, discovered bugs in x110 compiler. Also discovered bugs in placement of signal mechanisms.

4a3

Weekly NLS report Jun-20-75

- 4a4 Discussed implementation of output processor directives for COM proofing and page formatting. Developed strategy. 4a4
- 4a5 Discussed with RLB2 a possible "off-line" version of NLS based on LSI-11. Could be the answer to my distrust and dislike of DEX. 4a5
- 4a6 Looked for bugs in nls file system. Couldn't find them. They either dont exist (the bad files were the result of earlier edits on the GNLS system) or they do exist and are difficult to reproduce. We need more people using GNLS with instructions for saving environments when the files go bad. I suspect things are running well and the bad files are remnants of the earlier GNLS, but I guess we cant know. Also, bad files were being generated because of flakey network connections on files that had nothing to do with GNLS. 4a6
- 4a7 Provided list of analysis questions for data we should collect from programming users of NLS at Gunther. Provided Ann with suggestions for developing a similar list for use with the documentation people. 4a7
- 4a8 Wrote this branch. 4a8
- 4a9 Worried about the state of the group and the overload of uncompleted work. Also noted the fact that we have hired a number of new people and have provided no (0) resources for training them because we are so otherwise overcommitted. If they start unsupervised programming, we are likely to pay the price months from now in a completely incoherent system. Also, I have spent a good portion of the week trying to learn the new environment in which we must program in NLS. There should be training sessions at least three times a week for OLD programmers: our tools have substantially changed and the tools themselves need debugging. (FIND statements for example cannot be debugged until they are used. In an effort to get other things debugged, we have commented them out! The debugger package blew up while trying to display another error, etc, etc. We need new standards for programming. Catchphrases, invocations, etc all seem to be done differently. We have to leave nearly completed tasks to work on almost impossible to conceive projects which cant work anyway until the other projects are completed. (Here I mean things like a multihost Journal (ARRRH!), catalog systems, and interfaces to DBMS. While all these things would be nice, it is advisable to wait for a more stable environment both for the security of the system itself as well as the sanity of the programmers.) 4a9
- 4a9a I understand the pressures form outside the group, but

Weekly NLS report Jun-20-75

it strikes me that we ought to be more conservative in our promises: a "no" before the creation of a work statement or contract is developed is difficult, but less costly in the long run than spreading ourselves thinly during the contract period and not delivering. Why are we committing resources against the technical judgements of those who will be most closely involved in the implementation of the system. The hiring of new programmers is not the answer inasmuch as even the most experienced programmer needs (in my experience) at least six months to learn the system environment: NOT just the languages!

		4a9a
4b	Done last week	4b
4c	To do next week	4c
5	Martin	5
5a	Done last week	5a
	5a1 rewrote the grammar for NLS base system so it works with the backend and conforms to specs	5a1
	5a2 Chased few remaining unresolved symbols	5a2
	5a3 loaded backend with middle end and frontend and started debugging	5a3
5b	To do next week	5b
	5b1 Test and debug (when initialization works)	5b1
	5b2 Document changes needed in rest of NLS and in user programs for the new compiler and for the DPS NSW environment	5b2
6	Maynard	6
6a	Done last week	6a
	6a1 Debugged a stand alone middle-end which communicates with Charles' CLI through a shared page. This piece of code implements one of the VJUSERS needed by the NLS Back - End, namely PECAL which allows the Front end to make procedure calls on the back end.	6a1
	6a2 This stand alone program successfully converts PCP arguments to L10 Lists and then converts the L10 lists to the data structures expected by the NLS Back End ; selects the	

Weekly NLS report Jun-20-75

- proper procedure to call and calls a dummy version of the procedure passing it the fully converted arguments. 6a2
- 6a3 Added KEV's debug package to this stand alone middle end, and helped kev locate some debugging bugs. 6a3
- 6a4 With KJM: We integrated the existing middle end with the rest of the back end and did a back end load and removed all multiply defined or undefined symbols. 6a4
- 6a5 With HGL: integrated the initialization of the middle end and back end. Debugged the presave initialization of the NLS BE tool. We are now in the process of debugging the initialization of the tool which gets performed each time the tool is started. Current problem areas include bugs in the x110 compiler concerning complicated find statements and bugs in the back end concerning psuedo-interrupt handling. 6a5
- 6a6 Wrote this progress report (1 hour with BBNB response) 6a6
- 6b To do next week 6b
- 6b1 Implement remaining VJUSERS for NLS back end and the interface between L10 procedures and the VJSYS's provided by DPS. 6b1
- 6b2 Start testing with works manager: There are currently three models that I know about for accomplishing this testing: 6b2
- 6b2a Elizabeths model where the calls to the works manager accomplished through rewriting the nls CML grammer to explicitly make WM calls. 6b2a
- 6b2b The model proposed by Stu Schaffner in which a kind of dummy CF will be implemented by MCA which will run the FE and WM and two other tools (one being NLS) as inferior forks. Communication is accomplished by each inferior fork sharing a page(s) with the dummy CF which Stu calls MSG. 6b2b
- 6b2c Full DPS test: Jim White appears to be very close to needing a NSW set of tools to debug with. This model is the one envisioned for the real NSW. 6b2c
- 6b2d I am in favor of pressing ahead with the real NSW-DPS model. This eliminates having to code and debug kludges. Also Jim white is now at a point where he needs a tool what is driven by the CLI to debug his stuff. NLS or my middle-end program would be excellent candidates for this testing. I might also suggest that if either the DPS model

Weekly NLS report Jun-20-75

or Schafners model is chosen we perform the tests using my middle-end with the dummy x routines modified to call the appropriated WM functions. This isolates the NLS problems from those of communicating among the distributed processes.

6b2d

6b3 Write another progress report

6b3

6c Comments:

6c

6c1 I generally agree with HGL that not only is getting NSW up our prime goal, but is also a prerequisite to doing any work on integrating a DMS to NLS. This integration would be orthogonal to what I perceive ARC's long term goals to be unless it is done in either a NSW environment or at least a DPS environment using the CLI and CML for user interaction and DPS for communication. I therefore feel that it would be useless to try and either design or implement a DMS system until we have a working NSW and understand more fully the design trade-offs involved in a distributed processing system. I would like to add that one NSW is somewhat stable I think a DMS subsystem, closely coupled to the NLS tool (and perhaps the WM) is generally desirable, useful, needed, feasible, and parallel to ARC's long term goals.

6c1

7 Michael

7

7a done last week

7a

7a1 Fixed bug in Output processor for COM for Singer 6000

7a1

7a2 Made Singer com tape with a chapter from AFM

7a2

7a3 discussed layout of com tape for graphics with RLB and HGL and changes to be made in Output Processor to handle graphics and page processing

7a3

7a4 Helped Pentagon read new tape

7a4

7a5 Filled out Review forms for Kirk

7a5

7a6 puzzled over WM file system and ioexec

7a6

7a7 Worked with Jan Cornish on design of Cobol first phase system

7a7

7a8 Many meetings

7a8

7b To do next week

7b

Weekly NLS report Jun-20-75

7b1 Try to get samples from George litho to take east	7b1
7b2 meet with Al Wilson and Ron Feria of George Litho to discuss any remaining problems and their software to support graphics	7b2
7b3 Gather questions and answers to take east	7b3
7b4 Code works manager file stuff (probably in the cml with a dummy back end) for test	7b4
7b5 Test with Millstein	7b5
7b6 Start reel file stuff	7b6

Weekly NLS report Jun-20-75

(J26050) 22-JUN-75 18:05;;; Title: Author(s): Elizabeth K.
Michael/EKM; Distribution: /RWW([ACTION]) JBP([ACTION]) JCN([
INFO-ONLY]) NPG([INFO-ONLY]) DVN([INFO-ONLY]) DCE([INFO-ONLY
]) ; Sub-Collections: SRI-ARC NPG; Clerk: EKM; Origin: < NLS,
WEEKLY,NLS;10, >, 22-JUN-75 18:02 EKM ;;;;####;

1 26050 Distribution

1a Richard W. Watson, Jonathan B. Postel, James C. Norton, Jan A. Cornish, Larry L. Garlick, Robert Louis Belleville, Elizabeth J. Feinler, Joseph L. Ehardt, Jonathan B. Postel, Kirk E. Kelley, Karolyn J. Martin, David S. Maynard, Kenneth E. (Ken) Victor, James E. (Jim) White, Elizabeth K. Michael, Don I. Andrews, J. D. Hopper, Charles H. Irby, Harvey G. Lehtman, Dirk H. Van Nieuhuys, Douglas C. Engelbart,

Dialogue about Marker Problems.

1 19-JUN-75 1240-EDT HOPPER: MARKERS
Distribution: VANNOUHUYS
Received at: 19-JUN-75 12:40:48-EDT

1

1a NOTHING HAS CHANGED IN NLS FOR ABOUT 2 WEEKS. BETTER VERIFY
YOUR FILES.

1a

2 They verify. The problem has been around for longer than two
weeks. Nearer two months, i have just been too lazey to complain.
Try it.

2

Dialogue about Marker Problems.

(J26051) 22-JUN-75 23:16;;; Title: Author(s): Dirk H. Van
Nouhuys/DVN; Distribution: /FEEDBACK([ACTION]) JDH([ACTION]) ;
Sub-Collections: SRI-ARC FEEDBACK; Clerk: DVN;

Documentation weekly Report

- 1 POOH 1
- 1a continued work on graphics command descriptions 1a
- 1b reworked the two figures for the preface and started them on the art cycle 1b
- 1c worked on various and sundries for the NSW proposal 1c
- 1d began generating a list of the differences between NLS 8.5 and NLS 9 1d
- 1e played in the SRI mixed doubles tournament 1e
- 1f Next week 1f
- 1f1 continue work on graphics documentation and other NSW documentation, meet with applications to discuss needs of users and how we can coordinate documentation 1f1
- 2 KIRK 2
- 2a See <bbnb,kkelley,do,done,d> or <office-1,kelley,do,done,d> 2a
- 3 DVN: 3
- 3a final Report: SRI edits have been read in. Illustrations partly set up; need to copy proof the thing again. 3a
- 3a1 NEXTWEEK: Proof, send draft to RWW, DCE, SRI management for review and approval. 3a1
- 3b Glossary: As discussed in (26054,) the tape bearing the Glossary from ISI to DDSI mysteriously disappeared, costing us 16 calendar days and several hours work. It was sent again Friday. 3b
- 3b1 NEXTWEEK: wait for Proofs from DDSI. 3b1
- 3c NSW: working on Help File for works manager, Sample session for Format Subsystem went through Documentation Review. 3c
- 3c1 NEXTWEEK: Sample Session for Format Subsystem should go for review to DIRI, the help file for the worksmanager should go for review to documentation plus Charles and Kirk Satterly. At that point we will have to discuss with KS who takes the next step. Begin work on Sample Session for worksmanager. 3c1
- 4 BEV 4

Documentation weekly report

- 4a Completed first draft of File-viewing Sample Session. 4a
- 4b Went over part of third course with PKA. 4b
- 4c Reviewed status of documentation with rest of documentors. 4c
- 4d NEXT WEEK:
Journalize (after review): Editing SS III; Sendmail SS II;
File-Viewing SS. Do last and final (hopefully) COM version of
Editing SS I. Begin work on NLS-UM (or whatever we're calling it
now.) 4d

Documentation Weekly Report

(J26052) 23-JUN-75 12:19;;; Title: Author(s): Dirk H. Van Nounuys,
Ann weinberg, Beverly Boll, Kirk E. Kelley/DVN POOH BEV KIRK;
Distribution: /ARC-DEV([INFO-ONLY]) DIRT([INFO-ONLY]) ;
Sub-Collections: SRI-ARC ARC-DEV DIRT; Clerk: BEV;

1 26052 Distribution

1a Elizabeth K. Michael, Richard W. Watson, Elizabeth J. Feinler,
Harvey G. Lehtman, Kirk E. Kelley, Laura E. Gould, Jeanne M. Beck,
Dirk H. Van Nouhuys, James C. Norton,
1b Jan A. Cornish, Larry L. Garlick, Delorse M. Brooks, Beverly Boli,
James E. (Jim) White, Ann Weinberg, Kenneth E. (Ken) Victor, Dirk H.
Van Nouhuys, Jonathan B. Postel, Elizabeth K. Michael, David S.
Maynard, Karolyn J. Martin, Harvey G. Lehtman, Kirk E. Kelley,
Charles H. Irby, Joseph L. Ehardt, Robert Louis Belleville, Don I.
Andrews, Richard W. Watson, Douglas C. Engelbart, Jonathan B. Postel,
Priscilla A. Wold, Rita Hysmith, Pamela K. Allen, Delorse M. Brooks,
Elizabeth F. Finney, Beverly Boli, Lawrence A. Crain, Kirk Sattley,
Susan Gail Roetter, Robert N. Lieberman, Ann Weinberg, Kenneth E.
(Ken) Victor, Douglas C. Engelbart, James H. Bair

Weekly report

- 1 Last week 1
- 1a took responsibility for specifying which directories to establish at isic and which files should be copied there 1a
- 1a1 directories all for arc-dev and a few for arc-app will be established plus most of the files only directories 1a1
- 1a2 only online files (not archived files) will be transferred for a subset of the directories established. 1a2
- 1b worked some on updating the document specifying the pcpb8 format for dps internost messages as agreed to at the protocol meeting 1b
- 1c distributed as an online rfc a document on protocol information 1c
- 1d distributed as an online rfc some comments on proposed host/imp protocol changes 1d
- 2 Next week 2
- 2a complete the preparations for the move to isic, 2a
- 2b complete updating the pcpb8 and filepackage specification documents. 2b

Weekly report

(J26053) 23-JUN-75 18:01;;; Title: Author(s): Jonathan B.
Postel/JBP; Distribution: /SRI-ARC([INFO-ONLY]); Sub-Collections:
SRI-ARC; Clerk: JBP;

1 26053 Distribution

1a Harvey G. Lentman, James C. Norton, Jeffrey C. Peters, Dirk H. Van Nounuys, Kenneth E. (Ken) Victor, Richard W. Watson, Don I. Andrews, 1b Laura J. Metzger, Karolyn J. Martin, Jan A. Cornish, Larry L. Garlick, Priscilla A. Wold, Pamela K. Allen, Delorse M. Brooks, Beverly Boli, Fita Hysmith, Log Augmentation, Joseph L. Ehardt, Raymond R. Panko, Susan Gail Roetter, Robert Louis Belleville, Rene C. Ochoa, Ann Weinberg, Joan Hamilton, Adrian C. McGinnis, Robert S. Ratner, David S. Maynard, Robert N. Lieberman, Sandy L. Johnson, James H. Bair, Jeanne M. Leavitt, Rodney A. Bondurant, Jeanne M. Beck, Marcia L. Keeney, Elizabeth K. Michael, Jonathan B. Postel, Elizabeth J. Feinler, Kirk E. Kelley, N. Dean Meyer, James E. (Jim) White, Douglas C. Engelbart, Martin E. Hardy, J. D. Hopper, Charles H. Irby

Format Sample Session

Augmentation Research Center

28 JUN 75

Stanford Research Institute
333 Ravenswood Avenue
Menlo Park, California 94025

INTRODUCTION

This "Format Sample Session" shows you how to use an online subsystem called Format to impose a standard layout on an NLS file when it is printed. Since the Format subsystem is not available automatically, this sample session also shows you how call it through the Programs subsystem.

You will find it useful to be at a typewriter terminal, typing in the commands and text as the sample session describes them.

This document describes specific functions and notes at each step generalize the operation. It includes the actual printout of an formatted document. Using this scenario as a model, the inexperienced user should be able to perform any of the operations described here and refer to Help and other documentation for related information about formatting.

The Format session here shows how you can put a file in one of several specific layouts available. Beyond the standard formats, the NLS Output Processor has hundreds of directives to controll exactly the appearance of printed files. The Format Subsystem inserts the directives correctly for each format. Hand modification of the format requires special training.

This scenario will format the file created in the "Editing Sample Session II". However, you may format any file you choose.

Throughout this sample session, we spell out the sequence of keys you strike to make something happen and separately show what will appear on your terminal in response. Keys that do not print, such as Carriage return and altmode (called "escape" on some terminals), are named inside angle brackets, e.g. <CR>, <ALT>. <Sp> represents a space. The control key <CTRL> is used like the shift key. You hold it down while you type the letter that is after the hyphen. The notation for control keys is <CTRL-(some character)>.

Some control keys to remember...

- <CTRL-X> aborts commands before you have typed a <CR>.
- <CTRL-O> stops printing. Commands that send pages to terminals such as the Output Terminal command discussed in step 7 below, paginate after <CTRL-O>
- <CTRL-A> deletes the character you have just typed.
- <CTRL-W> deletes the word you have just typed.

Format Sample Session
Introduction

When you see <CR>, use the return or carriage return on your keyboard.

If you get stuck or confused, typing "?" will show you the next possible alternatives.

You then type in one of the alternatives and continue your command.

Typing <CTRL-Q> will provide you with information and explanations about the Format Subsystem.

Typing <CTRL-X> will put you where you were before you typed <CTRL-Q>.

For more about getting information via <CTRL-Q> see the "Preface to NLS Tools" and "Help Services Sample Session,"Text[Section]="Instruction";

INSTRUCTION

1. Access to the Format subsystem is through the Programs subsystem,

.....
You type: gp<CR>lpformat<CR>gf<CR>

You see:

BASE C: Goto (subsystem) C: programs OK:

PROG C: Load C: Program T/[A]: format

Loading User Program

Don't Execute via RUN PROGRAM Command

Use GOTO SUBSYSTEM Command

Loading User Program

Subsystem FORMAT Now Available (Attached)

PROG C: Goto (subsystem) C: Format OK:

FORM C:

.....
2. The Jump Commands are available in all subsystems so you can now go to your file that contains a report on editing. The file should be updated,

.....
You type: jl<CR>Editing,<CR>

You see:

FORM C: Jump (to) C: Link T/[A]: Editing,
<DIRECTORYNAME, EDITING,NLS;1,>

Format Sample Session
Introduction

3. Format's Insert Format command does the job of adding directives that control printing. After the command words, you type <CR> to show you want to format the file you have loaded. Typing "y" next will show you a list of formats available. You choose a format by typing in its number. The system will then question you for certain information to put on the title page.

.....
You type: if<CR>y1<CR>Editing Report<CR>JCU<CR>12345<CR>
You see:

List formats?

- 0: title page only
- 1: simple printer format
- 2: journal format
- 3: 8 pt News Gothic, level one titles
- 4: 9 pt Times Roman, level one titles
- 5: 10 pt News Gothic, level one titles
- 6: 8 pt News Gothic, lev 1 titles, lev 2 subtitles, right stmnt nums
- 7: 9 pt Times Roman, lev 1 titles, lev 2 subtitles, right stmnt nums
- 8: 8 pt News Gothic, level 1 titles, 2 columns; you will have to hand
format to balance columns at end of each branch
- 9: 9 pt Times Roman, level 1 titles, 2 columns; you will have to hand
format to balance columns at end of each branch
- 10: 9 pt Times Roman, indented paragraphs, no statement numbers
- 11: ARC userguides format

.....Format # T/[A]: 1

(Title:) T/[A]: Editing Report

(Author Ident(s):) T/[A]: JCU

(Journal Number:) T/[A]: <CR>

(Formatting File)
.....

How to respond to the prompts:

Format Sample Session
Introduction

: You do not need to load a file to format it; if you had typed in the name of another file at the first prompt A:, it would have formatted that other file.

List: You need not see the list of formats every time you use the command. If you type "n" for "no" instead of "y" for yes at that step, it will go on to ask you for the format number you want. For more information about the formats, use the Help command.

Author: If the author has an IDENT (we used the hypothetical IDENT JCU) the system will gather her name and address and add them properly to the title page. If the author is unknown to the Ident system, you may type in his name and address. To use carriage returns to end lines in the name and address, you must precede them with <CTRL-V> which prevents them from interrupting your command.

Number: The Augmentation Research Center maintains a numbered and automatically cataloged online collection of documents called the Journal. The simple format chosen in this sample session does not require a journal number. For the process of getting a journal use number, ask for "preassigned number" with the Help command. If you do not have such a number, you may hit <CR> and go on in any format. The place usually occupied by the number in the layout will then be blank.

FORM C: Insert C: Format (in file at) A: (using Format #)

4. You must leave the Format Subsystem to see what you have done:

.....
You type: qtb<CR>
You see:

FORM C: Quit OK/C: To C: Base OK:
BASE C:

5. You may see many of the directives which Format inserted by printing statement 0.

.....
You type: pb0<CR>

You see:

```
BASE C: Print C: Statement (at) 0
<DIRECTORYNAME,EDITING,NLS;1> DATE TIME IDENT
;;;LM=-3;SN=0;RM=72;BRM=68;SNF=72;SNFshow=<=3;
,YBS=1,6p;YBL=0,2p;F="page .GPN;";H1="Editing Report";
.PN=0;.PES;.FP=FR;.PxPShow=1;.PxFShow=1,2;.PxFYD=1;
.PxFYS=2;.PxFYU=2;
```

.....
The expressions bounded by . on one side and ; on the other are directives. RM=72, for example, sets the right margin to 72 characters. To learn more about them, see the Output Processor Users' Guide or type "directives" in the Help command. If you use a different format, the directives that appear in statement 0 will be a little different, of course.

6. Printing arrangements vary according to what printer or terminal you are printing on and may effect details of page width and length. You may see a close approximation of what your printed page will look like by using the Output Terminal Command. Output Terminal uses dashes (-----) to indicate page breaks.

.....
You type: ot<CR>yyn
You will see the following including the actual formatted pages:

BASE C: Output (to) C: Terminal OK/C: OK:

(Send Form Feeds?) Y/N:

(Wait at page break?) Y/N:

(Go?) Y/N:

Processing Output

Editing Report

Editing Report

Insert: This command allows you to add, duplicate, or create information in a file. The command Insert Statement was presented in the "Editing Sample Session I." This sample scenario adds Insert Word and Character. 3a

Replace: This command allows you to erase a string or structure at a specified destination and put in some other content. 3b

Delete: Delete erases something which you specify, such as a character or statement, from the destination you specify. This command was introduced in the "Editing Sample Session I." 3c

Copy: The Copy command is used to reproduce a source (such as string or structure) at a specified place. 3d

Substitute: The command Substitute allows you to put a new string in the place of an old string everywhere it appears in the structure you specify. Substitute is the most common editing command used on the typewriter terminal. 3e

Move: This command is being introduced in this sample scenario. Move transfers a specified source (such as string or structure) to a destination you specify. 3f

Transpose: Transpose allows you to make strings or structures change places. 3g

3g1

DVN 24-JUN-75 16:01 26054

Editing Report

Jonathan C. User

28 JUN 75

Gull Flight Research Center

Aerodynamic Research Institute
333 Sandy Avenue
Seaside, California 94025

Format Sample Session
Instruction

.....

Format Sample Session
Instruction

Note that the title page is always last in a formatted file.

7. NLS files cannot be sent directly to printing media, you may creat a formatted text file with the Output Printer File Command. You can save this text file and later send it to a printer that understands ASCII code.

.....
You type: opfediting,print;<CR>
You see:

BASE C: Output (to) C: Printer OK/C: File T/[A]:
editing,print;
Processing Output

BASE: C
.....

Now you have a file named Editing,print;1 for future printing purposes.

8. All the changes you made in the file since the last time you used the Update command can be removed with the Delete Modifications command. If you updated just before inserting format, you can remove the directives and the Title Page now by deleting modifications.

.....
You type:dm<CR><CR>
you see:

BASE C: Delete C: Modifications OK: (really?) OK:
BASE C:
.....

Format Sample Session
Summary

SAMPLE SESSION SUMMARY

6

To enter the Format subsystem:

Goto Programs, Load Format, Goto Format

Commands in Format:

Insert Format adds directives and a title page so that a file can be printed in one of a list of formats. The list changes as ARC adds new formats.

Another command, Delete Directives, will remove all the directives from a file. You could have use it instead of Delete Modifications above to create a file without directives for easy online reading or you may use it to remove old directives from a file and start fresh with a new format.

After you have formatted the file:

To see a formatted printout ...within the capabilities of your terminal...use the Output Terminal command. With the Output Printer File command you may file away your formatted document in a format ready to go to most printers.

To remove the format:

As an alternative to the Delete Directives command you may use the Base command Delete Modifications which removes all changes made since the last time you used the Base Update command.

For assistance when using Format:

Use <CTRL=Q> or the Help command. (See the "Help Services Sample Session".)

Format Sample Session
Introduction

(J26054) 24-JUN-75 16:01;;; Title: Author(s): Dirk H. Van
Nouhuys/DVN; Distribution: /DMB([ACTION] dirt notebook please) DIRT(
[INFO-ONLY]) DPCS([INFO-ONLY]) ; sub=Collections: SRI=ARC DIRT
DPCS; Clerk: DVN; Origin: < VANNOUHUYS, FORMATSS,,1, >,
24-JUN-75 15:58 DVN ;;;; #####

1 26054 Distribution

1a Jeanne M. Leavitt, Kirk E. Kelley, Duane L. Stone, Elizabeth J. Feinler, N. Dean Meyer, Dirk H. Van Nouhuys, Douglas C. Engelbart, James C. Norton, Richard W. Watson, Charles H. Irby,
1b Delorse M. Brooks, Jonathan B. Postel, Priscilla A. Wold, Rita Hysmith, Pamela K. Allen, Delorse M. Brooks, Elizabeth F. Finney, Beverly Boli, Lawrence A. Crain, Kirk Sattley, Susan Gail Roetter, Robert N. Lieberman, Ann Weinberg, Kenneth E. (Ken) Victor, Douglas C. Engelbart, James H. Bair, Elizabeth K. Michael, Richard W. Watson, Elizabeth J. Feinler, Harvey G. Lehtman, Kirk E. Kelley, Laura E. Gould, Jeanne M. Beck, Dirk H. Van Nouhuys, James C. Norton, Delorse M. Brooks, Elizabeth F. Finney, Beverly Boli, Joseph L. Ehardt, James H. Bair, Robert N. Lieberman, Pat Whiting O'Keefe, James H. Bair, Robert Louis Belleville, Ann Weinberg, Thomas L. Humphrey

x110 debugging

represents new way of putting together debugging package for x110
debuggin; no new functions; also sent via sndmsg to those who i know
to be using these procedures

x110 debugging

- 1 this document attempts to describe how to use some of the debugger back end routines from ddt to assist in debugging x110 programs, 1
- 2 the basic approach consists of editing a file (for address space configuration constraints), compiling one file, loading this file and other precompiled debugger files with the files you wish to debug, using tenex ddt to set breakpoints, examine/modify memory, etc., calling procedures that I have provided to display stack frames, records, catchframes, etc. 2
- 3 detailed instructions: 3
- 3a 1) edit the file [bbnb]<victor>tenmem.nls as follows: 3a
- 3a1 the two constants: frstpage & lastpage define the inclusive bounds of pages in the address space to be used as window pages for examining a fork. set these up to point to an unused area in your address space; the larger this area the better; 3a1
- 3a2 (all these constants are statement names so it should be easy to find them) 3a2
- 3b 2) compile the following file using x110 to whatever rel files you like: 3b
- 3b1 [bbnb]<victor>tenmem.nls % as edited above % 3b1
- 3c 3) load the above compiled rel file and the following rel files (all at [BBNB]<VICTOR>) with your rel files 3c
- 3c1 dtdat,rel 3c1
- 3c2 p10msc,rel 3c2
- 3c3 p10sym,rel 3c3
- 3c4 l10ddt,rel 3c4
- 3c5 l10sym,rel 3c5
- 3c6 l10msc,rel 3c6
- 3c7 debug,rel 3c7
- 3d 4) this step is optional but recommended for your own convenience: 3d
- 3d1 debugger functions are invoked by the execution of the followings instruction in ddt: 3d1

x110 debugging

- 3d1a pushj s,func 3d1a
- 3d2 it is impossible in 110 to define a symbol with a 36bit value such that the righthalf is a relocatable adr, therefore i recommend that in your runfil for loading that after the load is done, you go into ddt and perform the following steps to define shorthand representations for the needed procedure calls (I also recommend that we all use the same shorthands for the obvious reasons) : 3d2
- 3d2a to define the symbol "sf" to have the value "pushj s,func" type the following to ddt: 3d2a
- 3d2a1 pushj s,func<sf: 3d2a1
- 3d2b (see the appendix for a complete list of currently supported functions, recommended shorthands, and arguments reequred,) 3d2b
- 3e 5) using the debugger 3e
- 3e1 the procedures in the debugger all assume that a valid 110 environment exists at the time they are called, therefore it is your responsibility to set up this environment before calling any of the debugger procedures, you may then set tenex ddt breakpoints as you wish and call these procedures while at the breakpoint by typing the following (for example): 3e1
- 3e1a sfx if you did step 4 above or pushj s,funcx 3e1a
- 3e2 after hitting a breakpoint if you wish to examine the stack you must call the procedure stop or sira before calling the procedures snext, sback, sown, or scur 3e2
- 3f 6) debugger output 3f
- 3f1 all outPut is in octal (will be user settable in the nsw debugger) 3f1
- 3f2 the number of declared formals and number of locals will always be zero, but the number of passed formals to a procedure will be right 3f2
- 3f3 in displaying a record the field value will always be displayed in octal, and if there is a symbol in the symbol table with the exact value of the field value it will also be displayed symbollically, 3f3

x110 debugging

3f4 in displaying a record the size of each field is shown in (octal) bits 3f4

3g 7) where to set breakpoints 3g

3g1 for best results set breakpoints at the following places: 3g1

3g1a procedure=name + 1 3g1a

3g1b coroutine=name + 3 3g1b

3g1c after a pcall after the store of the calling frame port id (this is usually a movem 8,=1(M) inst after a jsp a4,pcall inst) 3g1c

4 i believe that the debugger does not clobber anything and that it works, but please understand that it is still under development, please advise me of any problems you run into 4

5 my current plans call for me to work on a higher level in the debugger, but am open for suggestion if you would like other primitives (e.g. show list) that would assist in your current debugging 5

6 APPENDIX - currently supported functions 6

6a each function will be listed by showing first the function name, then the longhand calling sequence, then the recommended shorthand symbol, and finally a description of globals (if any) that need to be set up and the function performed by this procedure. 6a

6b stop = pushj s,stop = st 6b

6b1 this procedure shows the current top of stack frame 6b1

6c sfra = pushj s,sfra = sf 6c

6c1 this procedure displays the stack frame whose mark is in the global "frame" (frame should not be changed by anything the debugger does so it should live across breakpoints) 6c1

6d scur = pushj s,scur = sc 6d

6d1 this procedure will display the current stack frame, the current stack frame is the frame that was last displayed by the debugger in its current instance, this procedure is useful if you have performed other functions and can no longer see the current frame on a display screen 6d1

x110 debugging

6e sback = pushj s,sback = sb 6e
 6e1 this procedure will show the stack frame for the routine
 that called the routine whose stack frame is the current frame 6e1

6f sown = pushj s,sown = so 6f
 6f1 this procedure will show the stack frame for the routine
 that owns the current routine, if the current routine is a
 coroutine, then this procedure will show its owner; if the
 current routine is a procedure, then this procedure is
 equivalent to sback 6f1

6g snext = pushj s,snext = sn 6g
 6g1 this procedure is the inverse of sback 6g1

6h spar = pushj s,spar = sp 6h
 6h1 this procedure will show the passed formals to a procedure,
 in the future it will show the maximum of passed/declared
 formals for a procedure and the declared formals for a
 coroutine 6h1

6i scat = pushj s,scat = scp 6i
 6i1 this procedure will show the invoked catchphrases for the
 current frame, the most recently invoked catchphrase will be
 the last displayed catchphrase, the address preceding the
 colon in the display is the address on the system catchframe
 stack for this catchphrase, 6i1

6j sstr = pushj s,sstr = ss 6j
 6j1 this procedure will display the string whose address is in
 the global csname, (csname should not change by anything the
 debugger does,) 6j1

6k srec = pushj s,srec = sr 6k
 6k1 this procedure will display the instance of the record
 whose name is in the l10 global string crname and whose
 instance address is in the global cradr, (neither cradr or
 crname will change by anything the debugger does,) (note that
 crname is an l10 string and must have valid l10 string syntax,) 6k1

6l ssig = pushj s,ssig = ssg 6l
 6l1 this procedure will display the current signal status, to

x110 debugging

make best use of this function, set a breakpoint at bptctn, the active catchphrase displayed will then be the catchphrase that will be dispatched (activated) upon continuing from the breakpoint at bptctn

611

6m fcon = pushj s,fcon = fc

6m

6m1 this procedure will find the content contained in cell "srcval" as masked by the value in "srcmask" between the bounds specified in cells "srscadr" (starting address) and "srceadr" (ending address)

6m1

6n fncon = pushj s,fncon = fnc

6n

6n1 this procedure is a "not content" search using the same cells as fcon.

6n1

6o fadr = pushj s,fadr = fa

6o

6o1 this procedure will search the bounds specified by "srscadr" and "srceadr" for the address which is in "srcval"

6o1

x110 debugging

(J26055) 24-JUN-75 16:08;;; Title: Author(s): Kenneth E. (Ken)
Victor/KEV; Distribution: /NPG([ACTION]); Sub=Collections: SRI-ARC
NPG; Clerk: KEV; Origin: < VICTOR, DOC-DEBUGGER,NLS;1, >,
24-JUN-75 12:43 KEV ;;;;###;

re:message systems discussions

1 Dick: who from ARC has been participating in these discussions on
mail systems (see=32806,). =jon,

1

JBP 24-JUN-75 20:56 26056

re:message systems discussions

(J26056) 24-JUN-75 20:56;;; Title: Author(s): Jonathan B.
Postel/JBP; Distribution: /RWW([ACTION]); Sub-Collections:
SRI-ARC; Clerk: JBP;

Frontend Weekly Status Report - 20-Jun-75

1 CLI=10:	1
1a Recently completed:	1a
1a1 See <25983,>	1a1
1b In progress:	1b
1b1 Processing of HELP temporary returns in CLI and CML-compiler	1b1
1b2 Show syntax of commands	1b2
1b3 Command backup,	1b3
1b4 Half duplex and line at a time support	1b4
1b5 Interfacing to Stu Schaffner's three-way page sharing hack to help checkout FE=WM=TOOL interactions. This is forcing me to also provide multiple grammars, universal commands, etc,	1b5
1b6 Helping JEW as needed in DPS checkout,	1b6
1c Near-term todo list:	1c
1c1 CML list variables	1c1
1c2 CML LOOP facilities	1c2
1c3 CML PERFORM facilities,	1c3
1c4 CML grammar for PDP-11 -- debugging aid only,	1c4
2 CLI=11:	2
2a Recently completed:	2a
2a1 Actually compiled the CLI using the L1011 compiler,	2a1
2a2 Discovered serious memory consumption problem with PDP=11 128K words,	2a2
2b In progress:	2b
2b1 Transfer of knowledge from CHI to JLE,	2b1
2c Near-term todo list:	2c
2c1 Begin actual debugging of the CLI on the PDP=11,	2c1

Frontend Weekly Status Report - 20-Jun-75

3	L1011:	3
3a	Recently completed:	3a
3a1	All major parts of L1011 are functioning except signals and LISTS. Assume many hidden bugs until we have more programs to run on the 11.	3a1
3a2	Have reduced size of procedure entry code and openport statement.	3a2
3b	In progress:	3b
3b1	Debugging signals and compressing code that gets produced.	3b1
3c	Near-term todo list:	3c
3c1	Have compiler compile and produce code for LIST syntax.	3c1
3c2	Map the LIST runtime Package over to the 11.	3c2
3c3	Check out and debug LIST stuff on 11.	3c3
4	NSW-debugger:	4
4a	Recently completed:	4a
4a1	groups of procedures that will comprise final debugger written and debugged and being used in conjunction with ongoing x110, nls, and dps debugging	4a1
4b	In progress:	4b
4b1	restructuring of above procedures to more closely resemble their final form.	4b1
4c	Near-term todo list:	4c
4c1	start to implement final form using dps, cml, etc.	4c1
5	VM=ELF:	5
5a	Recently completed:	5a
5b	In progress:	5b
5c	Near-term todo list:	5c

Frontend Weekly Status Report - 20=Jun=75

5c1 Monday (23 June) afternoon will see the SCRL sub-release of
a new VM=ELF.

5c1

5c2 Build and test new TSP VM=ELF early Tuesday a.m.

5c2

Frontend Weekly Status Report - 20-Jun-75

(J26057) 24-JUN-75 21:08;;; Title: Author(s): Charles H. Irby/CHI;
Distribution: /SRI=ARC([INFO-ONLY]); Sub=Collections: SRI=ARC;
Clerk: CHI; Origin: < NSW=SOURCES, 20-JUN-FE=STATUS,NLS;3, >,
24-JUN-75 15:51 KEV ;;;;###;

1 26057 Distribution

1a Harvey G. Lehtman, James C. Norton, Jeffrey C. Peters, Dirk H. Van Noughuys, Kenneth E. (Ken) Victor, Richard W. Watson, Don I. Andrews,
1b Laura J. Metzger, Karolyn J. Martin, Jan A. Cornish, Larry L. Garlick, Priscilla A. Wold, Pamela K. Allen, Delorse M. Brooks, Beverly Boli, Rita Hysmith, Log Augmentation, Joseph L. Ehardt, Raymond R. Panko, Susan Gail Roetter, Robert Louis Belleville, Rene C. Ochoa, Ann Weinberg, Joan Hamilton, Adrian C. McGinnis, Robert S. Ratner, David S. Maynard, Robert N. Lieberman, Sandy L. Johnson, James H. Bair, Jeanne M. Leavitt, Rodney A. Bondurant, Jeanne M. Beck, Marcia L. Keeney, Elizabeth K. Michael, Jonathan B. Postel, Elizabeth J. Feinler, Kirk E. Kelley, N. Dean Meyer, James E. (Jim) White, Douglas C. Engelbart, Martin E. Hardy, J. D. Hopper, Charles H. Irby

Response to LINK vs Addresses <32811,> of JHB

I would strongly urge the use of < and > as the 'standard' or 'default' link delimiters. Second, I understand the problems of teaching the concept of link to beginners so your 'new' definition of address and link makes some sense. My only worry is when users become more sophisticated confusion might result since addresses are not synonymous with links (whether in text or not), the real problem is of course with the prompt (and what that implies)/

1

RLL 25-JUN-75 00:30 26058

Response to LINK vs Addresses <32811,> of JHB

(J26058) 25-JUN-75 00:30;;; Title: Author(s): Robert N.
Lieberman/RLL; Distribution: /JHB([ACTION]) ARC=APP([INFO=ONLY])
; Sub-Collections: SRI=ARC ARC=APP; Clerk: RLL;

1 26058 Distribution

1a James H. Bair, Laura J. Metzger, Priscilla A. Wold, Pamela K. Allen, Joan Hamilton, Rene C. Ochoa, Jeffrey C. Peters, Marcia L. Keeney, Jeanne M. Beck, Geoffrey S. Goodfellow, Rodney A. Bondurant, Douglas C. Engelbart, Jeanne M. Leavitt, Susan Gail Roetter, Raymond R. Panko, Adrian C. McGinnis, James C. Norton, J. D. Hopper, Elizabeth J. Feinler, James H. Bair, Robert N. Lieberman, N. Dean Meyer, Sandy L. Johnson, Martin E. Hardy,

RLL 25-JUN-75 01:05 26059

PLANNING: Reduced slot width for initial users.

Response to <32776,> by RA3Y.

PLANNING: Reduced slot width for initial users.

1 This is in response to <32776,> in which Ra3y states a problem and a possible solution, 1

2 Problem 2

2a I do not believe the problem is as Ra3y states. We generally propose to as many clients we think could possibly buy into the utility, even to the point where we know we could not service them. Furthermore I do not think we have a crisis if one client doesn't buy. True this situation is not good and probably will lead to a crisis if the underlining problem is not solved, 2a

2b The real problem I will discuss below. 2b

3 Solution 3

3a I think Ra3y has a good idea here (I only hope that with some refinements there comes a time where we can implement this). Initial reduced slots seems like a reasonable way to allow more than full capacity service on a machine. The problems are contractual complexity, finding the proper reduced level, and opening up requests for reduced service when there is no oversubscription. 3a

3b At a 70% of 3% slice I think that response service will be much poorer than we would like it to be. This would be very counter-productive. 3b

3b1 Moreover, this means (approximately) three slots must run at the reduced width in order to gain one additional slot. 3b1

3c Perhaps reduced service can be provided based upon connect time. The data Ra3y has shown me indicates that initial users do not have much connect time. This of course has some problems. Unless the organizations are geographically distributed according to time zones, it will be difficult to split them up. However a morning/afternoon split might work. 3c

3d We could extend this notion by actually offering morning or afternoon slots but I feel this should be avoided until we have a better feel for the possible effects. In fact, I am not at all convinced that an AM/PM split is worth it but let us discuss the possibility. 3d

3e In both cases (slot and connect time width) the possible savings to the clients is a positive factor. 3e

3f A major difficult with any reduced service is one of reduced income if we do not exceed the available slots. If we have a

PLANNING: Reduced slot width for initial users,

clause in the proposal that says reduced slots will only be available to clients if there is an over subscription might not be taken with much favor by potential customers. They might request reduced service initial no matter what, using the same arguments we do for allowing it initially,

3f

4 Real problem

4

4a Our basic problem is getting customers to take the initial plunge. We need to DISCUSS and PLAN ways in which we can overcome this hurdle without sacrificing the vitality of the workshop and within the given financial constraints as well as the availability of staff/computer/communication facilities,

4a

PLANNING: Reduced slot width for initial users,

(J26059) 25-JUN-75 01:05;;; Title: Author(s): Robert N.
 Lieberman/RLI; Distribution: /JCN([ACTION]) DCE([ACTION]) RA3Y(
 [ACTION]) JHB([INFO-ONLY]) ; Sub-Collections: SRI-ARC; Clerk:
 RLI; Origin: < LIEBERMAN, RA3Y,NLS;7, >, 25-JUN-75 01:01 RLI
 ;;;####;

MEMO

DMB 25-JUN-75 11:13 26060

1 THIS IS JUST TO THANK ALL OF YOU BEAUTIFUL PEOPLE FOR "THE BIRTHDAY" YESTERDAY. IT REALLY MADE THE REST OF MY DAY COMPLETE. YOU ARE ALL VERY THOUGHTFUL AND IT IS INDEED APPRECIATED BY ME. SINCERE THANKS TO YOU, ESPECIALLY SANDY FOR THE CAKE.

1

MEMO

(J26060) 25-JUN-75 11:13;;; Title: Author(s): Delorse M.
Brooks/DMB; Distribution: /SRI-ARC([ACTION]) DMB([INFO-ONLY]) ;
Sub-Collections: SRI-ARC; Clerk; DMB;

reaction to status reports

1 the weekly status reports have been very useful to me and i assume to others such as doug or jim not directly connected with the day to day dev work, but it is also important to know whether they have been or with modifications can be useful to the peoople preparing them, ken has suggested that we need to get together as a group for review alos or for more in depth seminars etc, my goals in the reports are the following 1) some regular mechanism to let people inside and outside dev know what is going on, 2) establishing some sort of format that will record what we plan to do versus what actually happens so that we can see more clearly where time seems to go so that we get better at estimating both for ourselves and with the outside and might serve some function of helping us stay focused on the central tasks, i think the weekly reports and periodic semars or get togethers in conjunction are probably what is required to discuss more generally both the specific work we are doing and the type of issues raised by harvey whcih are very important, i am very concerned about the working environment, computer support terminalss, elf ports, overhead vs project work, training etc and think that some hour sessions to discuss these and possible approaches would be useful, let me have some feedback, dick

1

reaction to status reports

(J26061) 25-JUN-75 12:30;;; Title: Author(s): Richard W,
Watson/RWW; Distribution: /ARC=DEV([INFO-ONLY]) JCN([INFO-ONLY])
DCE([INFO-ONLY]) ; Sub-Collections: SRI=ARC ARC=DEV; Clerk: RWW;

1 26061 Distribution

1a Jan A. Cornish, Larry L. Garlick, Delorse M. Brooks, Beverly Boli,
James E. (Jim) White, Ann Weinberg, Kenneth E. (Ken) Victor, Dirk H.
Van Nouhuys, Jonathan B. Postel, Elizabeth K. Michael, David S.
Maynard, Karolyn J. Martin, Harvey G. Lentman, Kirk E. Kelley,
Charles H. Irby, Joseph L. Ehardt, Robert Louis Belleville, Don I.
Andrews, Richard W. Watson, Douglas C. Engelbart, James C. Norton,
Douglas C. Engelbart,

comment on debug primitives document

i ken, i read your debug primitives doc and the set of primitives seems like the minimal set, but given the descriptions in dps terms it is hard forme to see clearly what problems would be encountered when using them with some system that was hooked to a debug backend by a phone line and not containing dps, unless dps can be substantiallyly subsetted its present size precludes i believe its use in the debugging of systems on the control, commuunications and other applications i think need to be handled on the small standalone machines and there fore some simple commication protocol is required, i think this problem needs some thought before we get to far in implementation so that we are (iam) more sure the debugging stuff will work right in these evnironments as well as a dps one, the ability to place some system into contact with the nsw for debugging at low cost i think is going to be a big win and want to be sure nothing we are doing precludes this, i have in mind that the size of code to handle the remote end on a 16 bit machine should be 2-4k at most, what you are doing is really good work, dick

1

RWW 25-JUN-75 12:42 26062

comment on debug primitives document

(J26062) 25-JUN-75 12:42;;; Title: Author(s): Richard W.
Watson/RWW; Distribution: /KEV([ACTION]) CHI([INFO-ONLY]) JBP([
INFO-ONLY]) JEW([INFO-ONLY]) ; Sub-Collections: SRI-ARC; Clerk:
RWW;

NDM 25-JUN-75 13:44 26063

Contact Report: Jay Shuler

Item rejournalized to add it to the DOCPLAN distribution

Contact Report: Jay Shuler

1 NDM 24-JUN-75 12:47 32816
 Contact Report: Jay Shuler
 Location: (JOURNAL, JRNL28, J32816:gw)

1a Comments: Jay Shuler Co publishes the Arabian Horse magazine,
 interested in computerized typography

1b Message:

1b1 Herb Holden (SRI) brought by two gentlemen for a quick
 demo:

1b1a Jay Shuler, Jay Shuler Co, Inc

1b1a1 815 San Antonio Rd, PA

1b1a2 494-7806

1b1a3 designing programs using graphic page displays

1b1b Wayne Girard, Tektronix

1b1b1 3200 Coronado Dr, Santa Clara

1b1b2 (408) 249-5500

1b2 Jay Shuler publishes the Arabian Horse magazine. He is set
 up for high quality type setting and publication.

1b2a He is interested in computerizing the typography,
 including local proofing and format editing. He is
 considering developing the software on a mini, to interface
 to his typesetting equipment.

1b2b I gave them a quick run through of the online
 environment, and then discussed our interface to COM and a
 bit about the Output Processor.

1b3 They seemed interested in pursuing it, and may invite Herb
 and an ARC person to visit the San Antonio plant.

NDM 25-JUN-75 13:44 26063

Contact Report: Jay Shuler

(J26063) 25-JUN-75 13:44;;; Title: Author(s): N. Dean Meyer/NDM;
Distribution: /KLM([ACTION] docplan notebook please) DOCPLAN([
INFO-ONLY]) ; Sub-Collections: SRI=ARC DOCPLAN; Clerk: DVN;

i 26063 Distribution

1a Kathey L. Mabrey, David R. Brown, Glenn A. Sherwood, N. Dean Meyer, Kathey L. Mabrey, Norman R. Nielsen, Thomas L. Humphrey, Robert Louis Belleville, Elizabeth K. Michael, Richard W. Watson, James C. Norton, Robert N. Lieberman, Pat Whiting O'Keefe, Douglas C. Engelbart, Dirk H. Van Nouhuys,

This is it

1 Helololol, tests

1

JDH 26-JUN-75 16:25 26064

This is it

(J26064) 26-JUN-75 16:25;;; Title: Author(s): J. D. Hopper/JDH;
Distribution: /JCP([INFO=ONLY]); Sub=Collections: SRI=ARC; Clerk:
JDH;

CONTACT: Postman of San Jose, on 26 Jun 75

Why don't we discuss where is the place best place to spend money to maximize sot purchases (if this is our goal). See this report for one possible area.

CONTACT: Postman of San Jose, on 26 Jun 75

1 (Postman) Contact report 26065 1

1a (DATE) 26 Jun 75 1a

1b (BY) Lieberman 1b

1c (ATTENDEES) 1c

1c1 Monroe Postman - City of San Jose 1c1

1c2 Robert Lieberman - SRI-ARC 1c2

1d (ADDRESSES) Full name of organization, address, and phone number 1d

1e (MEDIUM) PHONE 1e

1f (WHERE) Menlo Park and San Jose, CA 1f

1g (ACTION-ITEMS) 1g

1g1 Actions taken, to be taken, etc., dated 1g1

1h (DISTRIBUTION) ARC-LOG DCE JCN RLL RA3Y JHB SGR 1h

1i (REFERENCES) 1i

1j (DOCUMENTS) Hard copy given and received 1j

1j1 (GIVEN) Date and documents given 1j1

1j2 (RECEIVED) Date and documents received 1j2

1k (REMARKS) 1k

1k1 I called Postman after not hearing from him for several months. He said that no money was available to support NLS for the Cities Technology transfer program. 1k1

1kia Perhaps more importantly, there was little support from PTI to get money for it. 1kia

1k2 He was trying to interest the urban consortium (of which San Jose is also a member) in NLS as well as some other systems. One such system is a teleconferencing program by Turoff. Apparently there is some interest in that one and some hope that the Office of Emergency Preparedness will fund it. 1k2

CONTACT: Postman of San Jose, on 26 Jun 75

1k2a This Urban Consortium is composed of the largest 30 urban centers in the U.S,

1k2a

1k3 This points out that we might lose a client to a much simpler and less costly (at least on the surface) system. I would guess the reason is the appeal to some of a teleconferencing system in the 'traditional' sense,

1k3

1k3a How simple would it be to modify and add a few little CML to allow teleconferencing with the Journal. Also and more importantly, we should consider spending (finding) money to built more teleconferencing features into the NLS environment,

1k3a

CONTACT: Postman of San Jose, on 26 Jun 75

(J26065) 26-JUN-75 20:16;;; Title: Author(s): Robert N.
Lieberman/RLL; Distribution: /ARC-LOG([ACTION]) DCE([ACTION])
JCN([ACTION]) RA3Y([ACTION]) JHB([INFO-ONLY]) SGR([
INFO-ONLY]) ; sub=Collections: SRI=ARC ARC=LOG; Clerk: RLL;

BBNB Computer Costs

1 Jim, Using the figures you gave me I believe there has been too much charged to 3803 for computer costs at BBNB. Mar, thru June = 1/3 year, \$30,000 (cost per 5% of BBNB for 1 year)/3=\$10,000. An added \$5000 for July and Aug, \$2,500 for Brian Harvey = \$17,500 total commitments. Instead I have been charged for commitments totaling \$25,000. This is \$7500 over what I think it should be. Can you tell me how I should handle this, or are there other items considered commitments that I have missed? Jake

1

BBNB Computer Costs

(J26066) 26-JUN-75 19:53;;; Title: Author(s): Elizabeth J.
Feinler/JAKE; Distribution: /JCN([ACTION]) MEH([ACTION]) RA3Y([ACTION]) ; Sub-Collections: SRI=ARC; Clerk: JAKE;

Augmented Cross-Net Interface

1 With the influx of tennis players into ARC we thought it would be nice to have an online ladder. We propose that it be created and operate as follows: People interested will tell Dirk or Ann by on- or offline means. We will list the names one-to-a-statement in a file <bbnb,arcdocumentation,ladder,> and for starters shuffle them by means of a guaranteed technological random statement selector. People on the ladder will be able to challenge higher people up to some number of steps above them. If the challenger wins she replaces the looser on the ladder by moving the statment containing her name and adding the score as a substatement and everyone below the looser steps down one. The password for connecting to that directory is kwcs. If the challenger looses, everything stays the same. We will decide the number of steps you may challenge when we see how many people are on the ladder. We expect the ladder to sort itself out soon. A match is two out of three sets with the players to determine if they want to play tie breakers.

1

1a It has been suggested that a Sendmail distribution and Journal Catalog subcollection group named Augmented Cross-Net Interface Community (ACNIC) be formed and submit a weekly report, but those suggestions have been rejected.

1a

1b A challenge must be played within two weeks after it is made or the challengee automatically is defaulted. No excuses will be accepted not even trips to Gunter.

1b

Augmented Cross-Net Interface

(J26067) 27-JUN-75 14:11;;; Title: Author(s): Dirk H. Van Nouhuys,
Ann Weinberg/DVN POOH; Distribution: /SRI-ARC([ACTION]);
Sub-Collections: SRI-ARC; Clerk: POOH; Origin: < VANNOUHUYS,
MYLIN,NLS;112, >, 27-JUN-75 13:37 DVN ;;;;####;

1 26067 distribution

1a Harvey G. Lehtman, James C. Norton, Jeffrey C. Peters, Dirk H. Van Nouhuys, Kenneth E. (Ken) Victor, Richard W. Watson, Don I. Andrews, 1b Laura J. Metzger, Karolyn J. Martin, Jan A. Cornish, Larry L. Garlick, Priscilla A. Wold, Pamela K. Allen, Delorse M. Brooks, Beverly Boli, Rita Hysmith, Log Augmentation, Joseph L. Ehardt, Raymond R. Panko, Susan Gail Roetter, Robert Louis Belleville, Rene C. Ochoa, Ann Weinberg, Joan Hamilton, Adrian C. McGinnis, Robert S. Ratner, David S. Maynard, Robert N. Lieberman, Sandy L. Johnson, James H. Bair, Jeanne M. Leavitt, Rodney A. Bondurant, Jeanne M. Beck, Marcia L. Keeney, Elizabeth K. Michael, Jonathan B. Postel, Elizabeth J. Feinler, Kirk E. Kelley, N. Dean Meyer, James E. (Jim) White, Douglas C. Engelbart, Martin E. Hardy, J. D. Hopper, Charles H. Irby

IMP PM Schedule Change

1 Beginning 1-JUL-75, BBN will take over IMP maintenance responsibility from Honeywell. As of that date, they plan also to switch PM on SRI's IMPs to 1300-1600 on WED of the 3rd full week of each month. Any objections should be relayed to BBN through me ASAP.

1

JEW 27-JUN-75 15:29 26068

IMP PM Schedule Change

(J26068) 27-JUN-75 15:29;;; Title: Author(s): James E. (Jim)
White/JEW; Distribution: /SRI=ARC([ACTION]); Sub-Collections:
SRI=ARC; Clerk: JEW;

1 26068 Distribution

1a Harvey G. Lehtman, James C. Norton, Jeffrey C. Peters, Dirk H. Van Nouhuys, Kenneth E. (Ken) Victor, Richard W. Watson, Don I. Andrews, 1b Laura J. Metzger, Karolyn J. Martin, Jan A. Cornish, Larry L. Garlick, Priscilla A. Wold, Pamela K. Allen, Delorse M. Brooks, Beverly Boli, Rita Hysmith, Log Augmentation, Joseph L. Ehardt, Raymond R. Panko, Susan Gail Roetter, Robert Louis Belleville, Rene C. Ochoa, Ann Weinberg, Joan Hamilton, Adrian C. McGinnis, Robert S. Ratner, David S. Maynard, Robert N. Lieberman, Sandy L. Johnson, James H. Bair, Jeanne M. Leavitt, Rodney A. Bondurant, Jeanne M. Beck, Marcia L. Keeney, Elizabeth K. Michael, Jonathan B. Postel, Elizabeth J. Feinler, Kirk E. Kelley, N. Dean Meyer, James E. (Jim) White, Douglas C. Engelbert, Martin E. Hardy, J. D. Hopper, Charles H. Irby

Frontend status == 27-jun-75

1 CLI-10:	1
1a Recently completed:	1a
1a1 DPS is now to a point that Stu Schaffner's hack can be put to rest. Thus, I have suspended work on that.	1a1
1a2 Processing of help returns by the CLI for the shared page interface seems to be functioning properly so far as I can test it. Have yet to modify CML compiler to allow specification of help rules in calls.	1a2
1a3 the "my second argument was no good; get me a new one" help return is almost debugged.	1a3
1a4 Wrote a memo on PDP-11 FE handling 20 to 30 users == core and disk requirements.	1a4
1a5 Wrote a memo (in response to a request from RWW) responding to DoD standard High Order Language.	1a5
1a6 Reorganized a section of CLI to make it smaller.	1a6
1a7 See <25983,>	1a7
1b In progress:	1b
1b1 Processing of HELP temporary returns in CLI and CML-compiler	1b1
1b2 Show syntax of commands	1b2
1b3 Command backup.	1b3
1b4 Half duplex and line at a time support	1b4
1b5 provide multiple grammars, universal commands, etc.	1b5
1b6 Helping JEW as needed in DPS checkout.	1b6
1c Near-term todo list:	1c
1c1 CML list variables	1c1
1c2 CML LOOP facilities	1c2
1c3 CML PERFORM facilities.	1c3
1c4 CML grammar for PDP-11 == debugging aid only.	1c4

Frontend status == 27-jun-75

2 CLI-11:	2
2a Recently completed:	2a
2b In progress:	2b
2c Near-term todo list:	2c
2c1 Begin actual debugging of the CLI on the PDP-11.	2c1
3 L1011:	3
3a Recently completed:	3a
3a1 All major parts of L1011 are functioning except signals and LISTS. Assume many hidden bugs until we have more programs to run on the 11.	3a1
3a2 Have reduced size of procedure entry code and openport statement.	3a2
3b In progress:	3b
3b1 Debugging signals and compressing code that gets produced.	3b1
3c Near-term todo list:	3c
3c1 Have compiler compile and produce code for LIST syntax.	3c1
3c2 Map the LIST runtime package over to the 11.	3c2
3c3 Check out and debug LIST stuff on 11.	3c3
4 NSW-debugger:	4
4a Recently completed:	4a
4a1 Groups of procedures that will comprise final debugger written and debugged and being used in conjunction with ongoing xl10, nls, and dps debugging	4a1
4a2 restructuring of above procedures to more closely resemble their final form.	4a2
4b In progress:	4b
4b1 start to implement final form using dps, cml, etc.	4b1
4c Near-term todo list:	4c

Frontend status -- 27-jun-75

4c1	continue in progress work	4c1
5	VM=ELF:	5
5a	Recently completed:	5a
5a1	Built and tested the new version of TSP VM=ELF--detected a sufficient number of bugs that it could not be used as an operational system. Moreover, it could only handle 6 jobs as opposed to the 12 predicted (a consequence of a bug).	5a1
5a2	Set-up ARSELF directory with appropriate files so that Operations has a backup ELF bootstrap host system identical to our primary host (SRI-AI) for re-loading the TSP machine.	5a2
5b	In progress:	5b
5b1	Perform mini-generation of a special EVM=ELF system to determine memory resource requirements of an ELF running a small number of processes.	5b1
5c	Near-term todo list:	5c
5c1	Discuss with Retz the problems that have been discovered to-date.	5c1
6	FE RESOURCE MANAGEMENT STUDY	6
6a	Recently completed:	6a
6a1	Created file containing Dec 1974 FE storage estimates	6a1
6a2	Extended that file to include the June 1975 estimates	6a2
6a3	Developed an alternative approach to handling FE resources and reported the memory consumption estimates required by that approach	6a3
6b	In progress:	6b
6c	Near-term todo list:	6c
6c1	Convene a meeting to discuss the consequences of these various approaches with the intention of preparing a viable plan that will be implemented for NSW	6c1

CHI 27-JUN-75 21:22 26069

Frontend status == 27-jun-75

(J26069) 27-JUN-75 21:22;;; Title: Author(s): Charles H. Irby/CHI;
Distribution: /SRI=ARC([INFO=ONLY]); Sub=Collections: SRI=ARC;
Clerk: CHI; Origin: < NSW=SOURCES, 27-JUN-FE-STATUS,NLS;2, >,
27-JUN-75 19:22 JLE ;;;;###;

1 26069 Distribution

1a Harvey G. Lehtman, James C. Norton, Jeffrey C. Peters, Dirk H. Van Nouhuys, Kenneth E. (Ken) Victor, Richard W. Watson, Don I. Andrews, 1b Laura J. Metzger, Karolyn J. Martin, Jan A. Cornish, Larry L. Garlick, Priscilla A. Wold, Pamela K. Allen, Delorse M. Brooks, Beverly Boli, Rita Hysmith, Log Augmentation, Joseph L. Ehardt, Raymond R. Panko, Susan Gail Roetter, Robert Louis Belleville, Rene C. Ochoa, Ann Weinberg, Joan Hamilton, Adrian C. McGinnis, Robert S. Ratner, David S. Maynard, Robert N. Lieberman, Sandy L. Johnson, James H. Bair, Jeanne M. Leavitt, Rodney A. Bondurant, Jeanne M. Beck, Marcia L. Keeney, Elizabeth K. Michael, Jonathan B. Postel, Elizabeth J. Feinler, Kirk E. Kelley, N. Dean Meyer, James E. (Jim) White, Douglas C. Engelbart, Martin E. Hardy, J. D. Hopper, Charles H. Irby

Arpanet directory inclusion criteria

1 The criteria listed below have been outlined by ARPA as guidelines for deciding who is eligible to be included in the Arpanet Directory: 1

1a 1. ARPA contractors and their staff members or other individuals involved in ARPA contract work and using the Arpanet for official contract business. 1a

1b 2. ARPA employees using the Arpanet for management use or official ARPA business. 1b

1c 3. Paying DOD agencies (or other federal agencies with hosts on the network) using the Arpanet for R & D purposes. 1c

1d 4. TIP users previously registered with ARPA. 1d

1e 5. Systems and maintenance personnel associated with the various hosts on the network. 1e

1f The following information is required for each individual listed in the Arpanet directory (Please type "none" if no information is available) 1f

- 1f1 - Name (Last name, First name, and Middle initial)
- U. S. Mail Address (Please do not abbreviate; include ZIP)
- Network (Online) Mailbox Address (NAME@HOSTNAME)
- Phone (Include area code and extension, if any)
- Host(s) located at your organization, if any. (If several, give one(s) you are most closely associated with)

1f1

1g Data can be sent online to:
FEINLER@BBNB (preferred)
Or it can be sent by U. S. Mail to:
Elizabeth Feinler
Network Information Center
Stanford Research Institute
333 Ravenswood Avenue
Menlo Park, California 94025

** ENTRIES MUST BE RECEIVED BY 28-MAY-75 TO BE INCLUDED **

1g

1h -----

1h

Arpanet directory inclusion criteria

1i PLEASE NOTE: This notice has been sent to the Network Liaison, Network Principal-Investigators, the ARPA IPT Office, and several representatives of DCD agencies on the network. For this reason there will probably be overlap and you or members of your organization may be contacted twice. If you have already responded, please ignore duplicate requests. On the other hand, if you know of persons who should be in the Directory but who were probably not covered by this distribution, please tell them to contact me.

1i

1j Thanks to all,

Jake Feinler

1j

JAKE 28-JUN-75 18:52 26070

Arpanet directory inclusion criteria

(J26070) 28-JUN-75 18:52;;; Title: Author(s): Elizabeth J.
Feinler/JAKE; Distribution: /JAKE([INFO-ONLY]); Sub-Collections:
SRI=ARC; Clerk: JAKE; Origin: < FEINLER, IDENT=CRITERIA,NLS;8,
>, 28-JUN-75 18:45 JAKE ;;;;###;

Access to Information Concerning Individuals Maintained by the NIC

1 Jim Norton has asked me to respond to your request for information concerning NIC files that contain information about individuals. Here is input:

1a There are essentially three file sources, maintained by the NIC that contain information about individuals. These are:

- 1a1 1. [BBNB]<Feinler>Hostaddr=Master.NLS
- 2. [BBNB]<Identfile>Idents.Master
- 3. [BBNB]<Netinfo> individual host write-ups (over 100 files)

1b Information is captured and edited in the first two and transferred into the many <NETINFO> files; therefore, the only two "master" files are 1, and 2, above.

1c I am sending you a copy of [BBNB]<Feinler>Hostaddr=Master and some sample entries from [BBNB]<Identfile>Idents.Master, (The entire file is several hundred pages).

1d Please note that:

1d1 1. All information has been solicited from either the host, organization, or individual involved. We do not enter it without being asked to do so.

1d2 2. Duplicates of the master files and the <NETINFO> files are maintained at [OFFICE=1], but the data is identical to master files at BBNB. Other versions of <NETINFO> files exist also, but personnel information has not been changed; that is, it has merely been copied into a viewing file from the master.

1d3 3. Any bona fide Arpanet user may view information describing himself that is maintained at the NIC or the ARC OFFICE=1 Utility. If any user objected to his data, every attempt would be made to change it or delete it.

1e If you need further input please contact:

1e1 FEINLER@BBNB
(415) 326-6200 ext 3695

1f Regards,

1g Jake Feinler
Network Information Center

JAKE 28-JUN-75 18:56 26071

Access to Information Concerning Individuals Maintained by the NIC

(J26071) 28-JUN-75 18:56;;; Title: Author(s): Elizabeth J.
Feinler/JAKE; Distribution: /JAKE([INFO-ONLY]) ; Sub-Collections:
SRI-ARC; Clerk: JAKE; Origin: < ROETTER,
LICKLIDER-PRIVACY,NLS;2, >, 28-MAY-75 22:11 SGR ;;;;####;

Tennis: yes.

1 Tennis:

1

1a I agree with DVN and POOH that a tennis ladder would be fun,
Here are few comments and suggestions,

1a

1b Include in substatement the score, name of opponent, and date
of match,

1b

1c Emphasize the need to update file after someone modifies it,

1c

1d Perhaps something more than just a ladder would be neat,

1d

1d1 How about round robin doubles matches? (this could be run
in a number of ways),

1d1

1e How About keeping percentages, wins and loses?

1e

1f How about a group ident called TENNIS or ARC=Tennis?

1f

Tennis: yes.

(J26072) 29-JUN-75 21:02;;; Title: Author(s): Robert N.
Lieberman/RLL; Distribution: /SRI-ARC([ACTION]); Sub-Collections:
SRI-ARC; Clerk: RLL;

1 26072 distribution

1a Harvey G. Lehtman, James C. Norton, Jeffrey C. Peters, Dirk H. Van Nouhuys, Kenneth E. (Ken) Victor, Richard W. Watson, Don I. Andrews, 1b Laura J. Metzger, Karolyn J. Martin, Jan A. Cornish, Larry L. Garlick, Priscilla A. Wold, Pamela K. Allen, Delorse M. Brooks, Beverly Boli, Rita Hysmith, Log Augmentation, Joseph L. Ehardt, Raymond R. Panko, Susan Gail Roetter, Robert Louis Belleville, Rene C. Ochoa, Ann Weinberg, Joan Hamilton, Adrian C. McGinnis, Robert S. Ratner, David S. Maynard, Robert N. Lieberman, Sandy L. Johnson, James H. Bair, Jeanne M. Leavitt, Rodney A. Bondurant, Jeanne M. Beck, Marcia L. Keeney, Elizabeth K. Michael, Jonathan B. Postel, Elizabeth J. Feinler, Kirk E. Kelley, N. Dean Meyer, James E. (Jim) White, Douglas C. Engelbart, Martin E. Hardy, J. D. Hopper, Charles H. Irby

Documentation Informal Weekly Report

1	POOH	1
1a	continued work on Graphics commands	1a
1b	finished list of differences between 8,5 and 9	1b
1c	planning meeting	1c
2	Next Week	2
2a	work with bob on some graphics things that Larry Crain sent us	2a
2b	begin graphics intro and scenario	2b
2c	work on editor help data base	2c
3	BEV	3
3a	This Week	3a
3a1	Completed final version of Editing SS III and sendmail SS 2.	3a1
3a2	Completed final version of File-Viewing SS.	3a2
3a3	Redid COM directives on Editing I SS and Sendmail I SS. Put into COM directory.	3a3
3a4	Reviewed all of sample sessions for errors which might have gotten by us.	3a4
3a5	Reviewed proposed milestones, tasks, for 9-mo. proposal with Jon and rest of Dev. coordinators.	3a5
3a6	Began learning about multi-file Help.	3a6
3b	Next Week	3b
3b1	Meet with Jon again to finalize 9-mo proposal schedule.	3b1
3b2	Start working on multi-file Help.	3b2
3b3	Get cover/folder for Sec. Functions Guide into the works.	3b3
3b4	Review completed documentation for printing.	3b4
4	DVN	4
4a	This is my last full week working on ARC Development	

Documentation Informal Weekly Report

Documentation. In the future I will be available to assist on a consulting basis. I spent some time this week handing Documentation Coordination functions over to Beverly and planning for a future meeting with Applications to clarify ARC Documentation preparation.

4a

4b Glossary: The first complete draft came back from DDSI. It is reasonably good but by no means perfect. Ann and I found scattered problems and at the end of the week Susan Roeter was checking it. I discussed printing cost with Toni Clough. Printing 500 copies with comb binding (lies flat easily) will cost \$800 from the point we have masters from DDSI

4b

4b1 NEXTWEEK: revise draft, send it to DDSI.

4b1

4c Final Report: Dee Brooks is proofing the copy with SRI edits added, finding a few new errors which she will correct. Jeanne Leavitt has made white space for illustrations. I am handing coordination of this effort over to Jeanne but will be available for consultation.

4c

4c1 NEXTWEEK: Complete proofing and correction of SRI edits. Give copies for review to DCE, RWW, then Bart Cox.

4c1

4d NSW: Sent Format Sample Session to DIRT Review, Failed to Bring Worksmanager Help file to the point of documentation review but got a lot of work done.

4d

4d1 NEXTWEEK: Respond to Review of Format Sample Session by members of DIRT and prepare it for printing. Take the Worksmanager Help file to the point where Charles, Kirk Satterly, and the ARC Documentation people can review it. At that point I think the ball should go to MCA. In the next couple of weeks I intend to complete work on the Publication Help file.

4d1

5 KIRK: On vacation the middle of this week through the middle of next week.

5

Documentation Informal Weekly Report

(J26073) 30-JUN-75 11:43;;; Title: Author(s): Beverly Boli, Ann
Weinberg, Dirk H. Van Nouhuys/BEV POOH DVN; Distribution: /DMB([ACTION
] dirt notebook please) DIRT([INFO-ONLY]) ; Sub-Collections:
SRI-ARC DIRT; Clerk: DVN;

1 26073 Distribution

la Delorse M. Brooks, Jonathan B. Postel, Priscilla A. Wold, Rita Hysmith, Pamela K. Allen, Delorse M. Brooks, Elizabeth F. Finney, Beverly Boli, Lawrence A. Crain, Kirk Sattley, Susan Gail Roetter, Robert N. Lieberman, Ann Weinberg, Kenneth E. (Ken) Victor, Douglas C. Engelbart, James H. Bair, Elizabeth K. Michael, Richard W. Watson, Elizabeth J. Feinler, Harvey G. Lehtman, Kirk E. Kelley, Laura E. Gould, Jeanne M. Beck, Dirk H. Van Nouhuys, James C. Norton,

a bug, a bug, a buggy

1 When you use the Archive File command and then continue to update the file several times, the version that you designated to be archived gets deleted. This happens when you say ARchive File or when you use the command and any of the options available. You cannot delete the file, but it will be automatically deleted if you do updates. Ken said that NLS knows to delete all but the two latest versions of a file and that it does not check to see what the Archive status of a file. He also said that BBN is working on something that would make archiving happen immediately which would solve this problem. I would appreciate knowing if this is going to be fixed so that I can document what the reality is. thanks...meow meow, meow

1

a bug, a bug, a buggy

(J26074) 30-JUN-75 14:14;;; Title: Author(s): Ann Weinberg/POOH;
Distribution: /FEED([ACTION]) ; Sub-Collections: SRI-ARC; Clerk:
POOH; Origin: < WEINBERG, A.NLS;5, >, 30-JUN-75 13:19 POOH
;;;####;

CONTACT: Dr. Grochla of BIFOA in Germany on 30Jun75

1 (BIFOA) Contact report 26075	1
1a (DATE) 30 June 1975	1a
1b (BY) Lieberman	1b
1c (ATTENDEES)	1c
1c1 Dr. Erwin Grochla - BIFOA	1c1
1c2 Robert Lieberman - SRI-ARC	1c2
1d (ADDRESSES) Full name of organization, address, and phone number	1d
1d1 Grochla	1d1
1d1a Executive Director of the BIFOA	1d1a
1d1b Institute for Organization and Automation at the University of Cologne	1d1b
1d1c Universitätsstrasse 45	1d1c
1d1d 5 Köln 41 (Lindenthal)	1d1d
1d1e West Germany	1d1e
1d1f Phone (0221) 44 60 81	1d1f
1e (MEDIUM) FACE-TO-FACE	1e
1f (WHERE) SRI, Menlo Park, CA	1f
1g (ACTION-ITEMS)	1g
1g1 Actions taken, to be taken, etc., dated	1g1
1h (DISTRIBUTION) ARC-LOG DCE JCN RLL	1h
1i (REFERENCES)	1i
1j (DOCUMENTS) Hard copy given and received	1j
1j1 (GIVEN) Date and documents given	1j1
1j1a "Coordinated Information Services for a Discipline- or Mission-Oriented community," Douglas Engelbart, 12-DEC-72, (mjurnal,12445,)	1j1a

CONTACT: Dr. Grochla of BIFOA in Germany on 30Jun75

1j1b "The Augmented Knowledg Workshop," Douglas C. Engelbart, Richard W. Watson, and John C. Norton, 1-MAR-73, (1journal,14724,) 1j1b

1j2 (RECEIVED) Date and documents received 1j2

1k (REMARKS) 1k

1k1 Dr. Grochla wrote a letter to JCN stating he would be visiting the U.S.A and would like to see us. I responded by a letter and he arrived surprisingly today. 1k1

1k1a Dr. Licklider of ARPA directed him to us. 1k1a

1k2 He was expecting more on the network but was very excited about what he saw. 1k2

1k3 Grochla is doing a study of the latest technology in man/machine interface, networking, and minicomputers. 1k3

1k4 His organization is funded by several private organizations as well as some government funds. 1k4

1k5 He plans to have an international conference on man/machine communication next year. He suggested that perhaps we might participate. 1k5

RLL 1-JUL-75 14:30 26075

CONTACT: Dr. Grochla of BifOA in Germany on 30Jun75

(J26075) 1-JUL-75 14:30;;; Title: Author(s): Robert N.
Lieberman/RLL; Distribution: /ARC-LOG([INFO-ONLY]) DCE([INFO-ONLY
]) JCN([INFO-ONLY]) RLL([INFO-ONLY]) ; Sub-Collections:
SRI-ARC ARC-LOG; Clerk: RLL;

Weekly Report

1 30-June-75

1

1a Last Week

1a

1a1 continued to watch developments on the move to isic for nsw staff

1a1

1a1a current status: directories have been established with the account unspecified (this prevents login) no files have been transferred, the additional disk space is not yet available; current estimate is that the soonest that we will be able to use isic is thursday.

1a1a

1a2 worked not at all on updating the document specifying the pcpb8 format for dps interhost messages as agreed to at the protocol meeting

1a2

1a3 worked not at all on updating the document specifying the file package as agreed to at the protocol meeting

1a3

1b Next Week

1b

1b1 complete the move to isic.

1b1

1b2 complete updating the pcpb8 and filepackage specification documents.

1b2

1b3 take a more active role in coordinating the nsw activities of potential tool bearing host organizations: multics and ucla-ccn

1b3

Weekly Report

(J26076) 30-JUN-75 20:12;;; Title: Author(s): Jonathan B.
Postel/JBP; Distribution: /SRI-ARC([INFO-ONLY]); Sub-Collections:
SRI-ARC; Clerk: JBP;

1 26076 Distribution

1a Harvey G. Lehtman, James C. Norton, Jeffrey C. Peters, Dirk H. Van Nouhuys, Kenneth E. (Ken) Victor, Richard W. Watson, Don I. Andrews,
1b Laura J. Metzger, Karolyn J. Martin, Jan A. Cornish, Larry L. Garlick, Priscilla A. Wold, Pamela K. Allen, Delorse M. Brooks, Beverly Boli, Rita Hysmith, Log Augmentation, Joseph L. Ehardt, Raymond R. Panko, Susan Gail Roetter, Robert Louis Belleville, Rene C. Ochoa, Ann Weinberg, Joan Hamilton, Adrian C. McGinnis, Robert S. Ratner, David S. Maynard, Robert N. Lieberman, Sandy L. Johnson, James H. Bair, Jeanne M. Leavitt, Rodney A. Bondurant, Jeanne M. Beck, Marcia L. Keeney, Elizabeth K. Michael, Jonathan B. Postel, Elizabeth J. Feinler, Kirk E. Kelley, N. Dean Meyer, James E. (Jim) White, Douglas C. Engelbart, Martin E. Hardy, J. D. Hopper, Charles H. Irby