

Cost Effectiveness of NLS over the ARPANET

PURPOSE OF TRANSMISSION COST STUDY

1

This note is concerned with the cost effectiveness of NLS over the ARPANET.

1a

Its purpose is to determine the tradeoffs between a centralized and decentralized method of handling groups of commands by comparing the current global NLS configuration with a more distributed configuration utilizing front-end mini-computers. The cost-effectiveness of distributing various subsystems will also be analyzed.

1b

Transmission costs are a large factor in this analysis. Transmission of information is measured in packets which have a 1000 bit capacity. A discussion of the transmission process including cost information follows.

1b1

Computer costs for this analysis will be limited to the cost of CPU time used in command execution. We shall compare transmission costs with the various computer costs.

1b2

The frequency with which commands are used is an important factor and will play a large part in determining which subsystems or subsets of commands should be distributed.

1b3

TRANSMISSION COSTS

2

Technical Description

2a

There are two basic modes of transmission available on the network, full duplex and half duplex. A full duplex circuit is a two-way communication channel making it possible to send and receive simultaneously. Half-duplex transmission on the ARPANET can be of various types but in general allows only one-way transmission. Full duplex is used more widely on the ARPANET because of its speed, however, it is more costly, as is pointed out below.

2a1

Full Duplex Transmission

2b

Transmission costs are a function of the number of packets transmitted. To determine the latter we use the following model.

2b1

When a character is typed,

2b2

(1) The TIP sends a one-character message (1 packet).

2b2a

(2) The destination IMP sends a RFNM (1 packet).

2b2b

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A RFNM is a "request-for-new-message" and simply indicates a state of readiness to receive another message.

2b2b1

(3) Optionally, the destination Host may send an ALLOCATE (1 packet).

2b2c

ALLOCATE messages are used to keep track of how much room is left in the buffer space allocated for the connection. At sites where large buffer spaces are allocated, ALLOCATE messages are not sent after each character.

2b2c1

(4) The TIP sends a RFNM following the ALLOCATE (1 packet).

2b2d

Again, this is optional and would occur only if the ALLOCATE message was sent.

2b2d1

(5) - (8) The above sequence is repeated for the echo character (2-4 packets depending on the ALLOCATE message)

2b2e

For more information on transmission see the cited references (,7).

2b2f

Therefore when a character is typed, four, six, or eight packets may be used. Measurements on the ARPANET have not been made to determine the average number of packets required per character. For this study we assume that six packets were required per character typed.

2b3

Cost estimates for transmitting one kilopacket range from 30 cents to 3 dollars. The cost for typing one character (six packets) then is approximately .2 cents/character when transmission costs are 30 cents/kilopacket or 2 cents/character when transmission costs are 3 dollars/kilopacket.

2b4

Half Duplex Transmission

2c

Half duplex transmission most often implies local echoing. In this case, packets (5) - (8) in the above model would be eliminated totally. ALLOCATE Messages are optional so two to four packets would be required per character.

2c1

Transmission costs for half duplex are then about one-half those for full duplex.

2c2

COMPUTER COSTS

3

Computer costs are based on the amount of CPU time required for

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executing a command. CPU time is charged at the rate of 10 cents per second (\$6 per minute). 3a

Several studies have been conducted over the past year to determine the cost for executing various commands, see (analysis, anex,4) for a list of these. Average values will be used based on the existing studies. 3b

COMMAND FREQUENCY 4

A week-long study of command frequency was conducted in order to determine which commands and sets of commands were used most in DNLS. The results of this study are described in detail in (IJOURNAL,20154,). 4a

There were two categories, jumping and text-editing which accounted for 73% of all commands given. These two homogeneous categories are obviously candidates for some type of optimization. From another viewpoint, the twenty most frequently used commands also account for 73%, and we then have a heterogeneous group which might well be optimized from the network viewpoint. 4b

BREAKDOWN OF COMMAND CATEGORIES BY FREQUENCY AND COST 5

All costs in the following tables are based on studies in DNLS and are expressed in cents. 5a

CASE 1 - Assumes transmission costs of 30 cents per kilopacket 5b

CASE 2 - Assumes transmission costs of 3 dollars per kilopacket 5c

Frequency CPU Transmission 5d

I. Jumping 39% CASE 1 CASE 2 5e

	Frequency	CPU	CASE 1	CASE 2	

Jump to Item	34%	9	.7	7	5e2
Jump to Link	12%	15	.7	7	5e3
Jump to Jump*	11%	-	-	-	5e4
Jump to Successor	9%	9	.7	7	5e5
Jump to Origin	6%	9	.7	7	5e6
Jump to Content	6%	12	1.6	16	5e7

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Jump to File	6%	15	.7	7	5e8
Others	16%				5e9

*Such commands resulted from a person being in the "Jump" mode and unnecessarily retyping Jump. With the current mechanism for recording command frequency, there is no way to tell which particular jump command was being executed.

5e10

----- 5e11

II. Text Editing 34% 5f

----- 5f1

Insert Character	16%	5	.9*	9	5f2
------------------	-----	---	-----	---	-----

Marginal cost/character		.2	.2	2	5f2a
-------------------------	--	----	----	---	------

1000 characters		205	201	2009	5f2b
-----------------	--	-----	-----	------	------

Replace Word	10%	11	1.6*	16	5f3
--------------	-----	----	------	----	-----

Delete Character	9%	8	.7	7	5f4
------------------	----	---	----	---	-----

Replace Text	9%	12	1.2*	12	5f5
--------------	----	----	------	----	-----

Replace Character	8%	11	.9*	9	5f6
-------------------	----	----	-----	---	-----

Delete Text	6%	10	.9	9	5f7
-------------	----	----	----	---	-----

Delete Statement	6%	8	.7	7	5f8
------------------	----	---	----	---	-----

Others	36%				5f9
--------	-----	--	--	--	-----

*Transmission costs for these commands are highly variable due to the wide range in number of characters typed. Amounts given are approximate lower bounds. The marginal costs per character can be used to estimate executing a command where any amount of text is typed.

5f10

----- 5f11

III. Text Creation 8% 5g

----- 5g1

Insert Statement(5 char)	59%	15	1.8*	18	5g2
--------------------------	-----	----	------	----	-----

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Marginal cost/character	.2	.2	2	5g2a	
1000 characters	205	201	2009	5g2b	
Copy Statement	16%	9	.9	9	5g3
Copy Branch	10%	9	.9	9	5g4
Others	15%				5g5

*Transmission costs for these commands are highly variable due to the wide range in number of characters typed. Amounts given are approximate lower bounds. The marginal costs per character can be used to estimate executing a command where any amount of text is typed.

5g6

5g7

IV. File Manipulation	8%				5h
-----------------------	----	--	--	--	----

5h1

Update New	33%	15	.7	7	5h2
Update Old	23%	15	.7	7	5h3
Load File	23%	15	1.6*	16	5h4
Others	21%				5h5

*Transmission costs for these commands are highly variable due to the wide range in number of characters typed. Amounts given are approximate lower bounds. The marginal costs per character can be used to estimate executing a command where any amount of text is typed.

5h6

5h7

SUMMARY					5i
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I. Jumping	39%				5i1
II. Text Editing	34%				5i2
III. Text Creation	8%				5i3
IV. File Manipulation	8%				5i4
V. Other	11%				5i5

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CONCLUSIONS

6

If transmission costs are 30 cents/kilopacket, the cost for transmission is a small percentage of the total cost (5-10%) except for commands involving text insertion. For commands which necessitate entering large amounts of text, transmission and computer costs are approximately equal.

6a

If the cost for transmission is 3.00/kilopacket the transmission costs are approximately equal to the cost for CPU except for text insertion where transmission costs may be as much as five times greater.

6b

The process of using mini-computers for command collection would result in sizeable reductions in total costs, especially for tasks involving text insertion where the transmission costs are such a large factor.

6c

The place for greatest savings are the asterisked commands above.

6c1

The transmission cost for these commands is based on the number of characters typed and these commands for the most part involve at least the possibility of typing 1000 or more characters.

6c2

For example, if one-1000 character statement was entered, the transmission cost would range from 2-20 dollars depending on the base cost. Even at the lower range, 2 dollars is much too expensive for entering one-1000 character statement.

6c3

Through the use of a mini-computer and command collection one such statement could probably be sent in two or three segments(packets), with transmission costs equivalent to transmitting two or three characters i.e. 15 to 25 cents.

6c4

REFERENCES

7

Deutsch, L. Peter, "Cross-Country Network Bandwidth", RFC 567, NIC 18970, 6 Sept 73.

7a

McKenzie, Alex, "Host/Host Protocol for the ARPA Network", NIC 8246, January 1972.

7b

Nelson, Lou, Network Measurement Center, UCLA

7c

20974 Distribution

Douglas C. Engelbart, James C. Norton, Richard W. Watson, Paul Rech,
Michael D. Kudlick, Charles H. Irby, Dirk H. Van Nouhuys,

SRL 19-DEC-73 09:44 20974

Cost Effectiveness of NLS over the ARPANET

(J20974) 19-DEC-73 09:44; Title: Author(s): Susaa R. Lee/SRL;
Distribution: /DCE JCN RWW PR MDK CHI DVN; Sub-Collections: SRI-ARC;
Clerk: SRL;
Origin: <LEE>NETCOST2.NLS;12, 19-DEC-73 09:41 SRL ;

Answers for SRW

The message made it just fine Faith pays off. I just completed my (last) set of college final exams, so I've been negligent in responding to my mail. Sorry for the delay.

1

"The CA program I wrote some weeks ago does not work on my 'live' data. It does not get any matches on searching for EOL. The only difference that I can think of is that the test data was read in from the keyboard, whilst the live data comes in and is processed by DEX. Our data prep equipment puts out the sequence CR LF DEL at the end of line, and I think it may be the DEL which is throwing either DEX or the scan process. Any ideas?

In NLS one cannot search for DEL (or can you?) and editing my original tape when it first gets in the system (using say, Teco) is similarly not possible.

I hope you can think of a way round it. By the way, thanks for the comments, and the circulated reply to someone elses query. I'd better finish now before I get NET Trouble again "

2

DEL is probably a control character, and can be refered to as such. If it has meaning (i.e. would do something), the NLS literal escape character is <control-v> (for trying to put the character in your program file). I don't know what DEX does with it. EOL is different from CR LF. EOL is a single unique character, not a CR-LF. Could that distinction have been screwing you up? TECO converts CR-LF's to EOL's on the way in, and converts EOL's to CR-LF sequences on the way out, so one trick for converting everything to CR-LF's is to bring a file into and then out of TECO. NLS doesn't like EOL's. If you are still having trouble (I haven't answered the DEL question too clearly), let me know and I'll pursue it.

2a

"An L10 program to produce circulation list labels from a list of names and addresses held in an NLS file. The output format would be 3 labels side by side, by say 6 deep, ie. 18 per page. Thus one page of labels would be well over the limit of size for an NLS statement. Is the most sensible way then, to output a sequential (SENDPRINT format?) file, or would it be better to put one set of 3 labels as an NLS statement?"

3

I would set up 3 labels per statement. Look at the user program ADDRESS to see how I got a mailing address from an Ident. Lots of other information is stored for each ident; let me know when you get going and perhaps I can help further. You can output an NLS file to a sequential file under program control; let me know if you need help on this if you still want to do it.

3a

"A strange thing happened the other day. I had some o/p from an on-line session, which I wanted to include as a scenario in a document I am writing. When this was put into an NLS statement,

Answers for SRW

after processing by DEX, all but about the last three lines appeared. Repeated insertion of these lines had apparently no effect when I used 'ps', but using the '/' cmd the text appeared to be there. Splitting the statement in fact did produce the text, plus about 4 more copies which I had in fact successfully edited in. Any comments? The statement size was 1069 chars according to TECO which I had used to put in the primes needed for DEX (is there a better way?) and viewspec 'w' was used for output." 4

I don't know. Maybe the system can't really handle statements as big as we advertise. At any rate, what with the command language changeover and all, we can't really chase the problem down for you unless you provide us with the file that is giving you trouble. By the way, what did you mean by "o/p"? 4a

"Is there any way, (apart from diverting output), of getting journal mail output via the likes of 'pj' to our printer, ie. is it possible to specify a print file? Also, is it possible to use a 'pj' type function on the Author branch, without moving Author to Journal? Producing both of these branches on our printer, properly paged, would be very useful, since the output is difficult to read when printed continuously over the fold " 5

Sounds like a good project for a user program. As a reference for you, look at <MEYER>JPRINT. This program creates a print file for every journal item of a given subcollection new since the last time the program was run. It was written for RADDC. May not be quite what you want, but note how it does the Output Device Printer and the file loading (link parsing). It was set up to be run every night or so, then SENDPRINT would be used to get all the print files to their printer. Let me know what you want to do about this. 5a

"Is there any way of persuading the TENEX system to let control characters get to ones terminal? The problem is that we have a cassette unit attached to our Terminet and to drive this we need the control characters QRST at least to be sent. It would appear from a TRMSTAT that TENEX will not let these out, and there appears to be no way at a user level of altering this state of affairs, eg. like the TABS or FORMFEED commands. Have you any ideas on the subject?" 6

It's probably TELNET that is capturing your control characters. At the TELNET level, specify "Transparent" before you do anything and see if that works. If it doesn't, I'll have to refer you to Bill Ferguson (WRF), who will be back from vacation the first of the year. 6a

Anyhow, sounds like you are making good use of the system. I would be interested to know what you are doing, and how your L10 work is

Answers for SRW

coming. Let me know if these answers are inadequate, or anytime more
come up. Good luck.

--Dean

7

20975 Distribution
Stephen R. Wilbur,

Answers for SRW

(J20975) 19-DEC-73 09:55; Title: Author(s): N. Dean Meyer/NDM;
Distribution: /SRW; Sub-Collections: SRI-ARC; Clerk: NDM;
Origin: <MEYER>SRWANS.NLS;3, 19-DEC-73 09:55 NDM ;

responce to 20571, analysis papers

Yes, I think your suggestions about analysis papers are fine and I think I can get drafts for my parts out by the end of Feb.

1

20976 Distribution
Paul Rech,

DIA 19-DEC-73 10:22 20976

responce to 20571, analysis papers

(J20976) 19-DEC-73 10:22; Title: Author(s): Don I. Andrews/DIA;
Distribution: /PR; Sub-Collections: SRI-ARC; Clerk: DIA;

Request: Cat Proof Progs Correction; Run Proof Progs on Files

To: Beau Hardeman

Info to: JBN, MDK

Subject: Request for Catalog Proof Program Runs

1

Please correct the Catalog Proofing Programs, the Number Index, Titleword Index and Author Index, so that the Title (*c1 field) is not picked up and repeated twice. After the recent changes to the program, the *c1 field is now repeated in EVERY entry except where [#] is used, instead of only those entries where *f1 z appears, as was the former case. Also, in no cases is the field of *c2 printed out, and the reason for any attention being paid to *f1 z is so that the main title carried in *c2 could be entered in those cases where *f1 contains the coding of z. It would be appreciated if the program could be amended to pick up this *c2 entry and print it in such a case.

2

It would be appreciated if you would run catalog proof programs on the following files, all of them in the directory <NIC-WORK>:

- MEJ-CITHOLD/OLDHOLD
- MEJ-CITNICNOTESAUG/FALL
- MEJ-CITNONICAUG/FALL

3

Thank you for your cooperation.

Mil

4

20977 Distribution

Beauregard A. Hardeman, Jeanne B. North, Michael D. Kudlick,

Request: Cat Proof Progs Correction; Run Proof Progs on Files

(J20977) 19-DEC-73 10:51; Title: Run Proof Programs "; Author(s):
Mil E. Jernigan/MEJ; Distribution: /BAH JBN MDK; Keywords: Catalog
Cat-Progs ; Sub-Collections: SRI-ARC ; Clerk: MEJ;
Origin: <JERNIGAN>BEAU.NLS;1, 19-DEC-73 10:45 MEJ ;

ALL ARC MEETING

Doug has called an all ARC meeting for tommorow morning, Thursday the 20th, at 10:30 am. Everyone please come, it's in the conference room.

20978 Distribution

Donald C. (Smokey) Wallace, Richard W. Watson, Doa I. Andrews,
James H. Bair, A. Jim Blum, Meredith(Reddy) E. Dively, Jeanne M.
Leavitt, Rodney A. Bondurant, Jeanne M. Beck, Mark Alexander Beach,
Judy D. Cooke, Marcia Lynn Keeney, Carol B. Guilbault, Susan R. Lee,
Elizabeth K. Michael, Charles F. Dornbush, Elizabeth J. (Jake)
Feinler, Kirk E. Kelley, N. Dean Meyer, James E. (Jim) White, Diane
S. Kaye, Paul Rech, Michael D. Kudlick, Ferg R. Ferguson, Douglas C.
Engelbart, Beauregard A. Hardeman, Martin E. Hardy, J. D. Hopper,
Charles H. Irby, Mil E. Jernigan, Harvey G. Lehtman, Jeanne B. North,
James C. Norton, Jeffrey C. Peters, Jake Ratliff, Edwin K. Van De
Riet, Dirk H. Van Nouhuys, Kenneth E. (Ken) Victor

ALL ARC MEETING

(J20978) 19-DEC-73 10:49; Title: Author(s): Jeanne M. Leavitt/JML;
Distribution: /SRI-ARC; Sub-Collections: SRI-ARC; Clerk: JML;

PERSONAL FILES AND USER PROGRAMS QUESTIONNAIRE

Below is a copy of the questions and answers taken from a questionnaire written by JBN and given to 15 ARC members at random by SRL and BAH. Statements in the answers branch correspond to statements at the same structural level in the questions branch.

QUESTIONS

PERSONAL FILES

What files do you maintain for your personal record of:

Journal items received and sent?

How are these files organized? (Sample copied)

How often are these updated?

How often are these used for reference?

Notes of schedules to be met, actions to be taken, actions taken?

How are these files organized? (Sample copied)

How often are these updated?

How often are these used for reference?

Reports of visitors?

How are these files organized? (Sample copied)

How often are these updated?

How often are these used for reference?

Notes on personal reading, bibliographic references?

How are these files organized? (Sample copied)

How often are these updated?

How often are these used for reference?

Other personal record files?

How are these files organized? (Sample copied)

How often are these updated?

PERSONAL FILES AND USER PROGRAMS QUESTIONNAIRE

How often are these used for reference?	2a1e3
Have you started such files and abandoned them?	2a2
Reasons for abandoning them?	2a2a
What do you do with Journal references in your initial file, if you do not reorganize them or move them?	2a3
USER PROGRAMS	2b
(1) PROGRAM FUNCTION	2b1
() addname Adds name to nameless stmts from first word in stmt C (user-progs,addname,)	2b1a
Buffer pages required: 1	2b1a1
Content Analyzer. Knows about non-default name delimiters.	2b1a2
() address Asks for ident, inserts the address at the bug E (user-progs,address,)	2b1b
Buffer pages required: 1	2b1b1
Execute. It inserts the mailing address (surrounded by a space) after the bugged visible.	2b1b2
() addtext Adds text to front/back of stats in plx/brnch/grp/st E (user-progs,addtext,)	2b1c
Buffer pages required: 1	2b1c1
Execute. It will ask for necessary information.	2b1c2
() append Sequentially appends stmts in group, text between E (user-progs,append,)	2b1d
Buffer pages required: 1	2b1d1
Execute. It will ask for a group and then the text to go between appended statements. All statements in the group will be appended sequentially, regardless of viewspecs. If the first statement reaches its maximum length (2000 characters), a new statement will be begun as the successor to the first.	2b1d2

PERSONAL FILES AND USER PROGRAMS QUESTIONNAIRE

- () appendlist Like APPEND, but leaves substructure
E (user-progs,appendlist,) 2b1e
- Buffer pages required: 1 2b1e1
- Execute. It will ask for a group and then the text to go between appended statements. All statements in the group will be appended sequentially. Substructure will remain as substructure. If the first statement reaches its maximum length (2000 characters), a new statement will be begun as the successor to the first. 2b1e2
- () changed Marks statements changed since a given date
C (user-progs,recompile,changed) 2b1f
- Buffer pages required: 1 2b1f1
- First, put the date you want in the program. Then compile at statement 1. Content analyzer. Puts "<new>" in front of all statements changed since the given date. No REL file exists. 2b1f2
- () delcol Deletes bugged column, assuming next col lined up
E (user-progs,delcol,) 2b1g
- Buffer pages required: 1 2b1g1
- Execute. Bug beginning and end of column. It will ask if you want it to do the delete only if it finds a visible beginning in the column. If you answer yes, it will only do the delete if it finds a visible beginning at the first bug mark. If you answer no, it will delete the character positions between and including the bug marks no matter what. It works on a plex. 2b1g2
- () deldir Deletes Output Processor directives
C (user-progs,deldir,) 2b1h
- Buffer pages required: 4 2b1h1
- Institute as Content Analyzer. If you are not running on the whole file, be sure it knows about changes in directive delimiters (if any). You may have to copy a delimiter change directive to your starting point. 2b1h2
- () delname Deletes statement names
C (user-progs,delname,) 2b1i
- Buffer pages required: 1 2b1i1

PERSONAL FILES AND USER PROGRAMS QUESTIONNAIRE

Content Analyzer. Knows about non-default name delimiters. 2b1i2

() delsp Deletes leading spaces from statements
C (user-progs,delsp,) 2b1j

Buffer pages required: 1 2b1j1

Content analyzer. Deletes all leading spaces from statements. 2b1j2

() format Add print directives to a file
E (user-progs,format,) 2b1k

Buffer pages required: 7 2b1k1

Execute. It will ask for the information it needs. Samples of the COM formats are available in ----- (You will have to be in Browse mode to alter a journal file.) 2b1k2

0: blank format (just does title page) 2b1k2a

1: simple printer format 2b1k2b

2: journal format 2b1k2c

3: 8 pt News Gothic single columns, level one titles 2b1k2d

4: 8 pt News Gothic single columns, level one titles, level two subtitles 2b1k2e

5: 9 pt Times Roman single columns, level one titles 2b1k2f

6: 10 pt News Gothic single columns, level one titles 2b1k2g

7: 8 pt News Gothic two columns, level one titles 2b1k2h

8: 9 pt Times Roman two columns, level one titles 2b1k2i

9: 9 pt Times Roman indented paragraphs 2b1k2j

10: ARC userguides format 2b1k2k

() index Creates a word index for st/br/plex/group
E (user-progs,index,) 2b1l

Buffer pages required: 2 2b1l1

Execute. Creates a word index for a statement, branch,

PERSONAL FILES AND USER PROGRAMS QUESTIONNAIRE

group, or plex. Inserts the Index as a branch after a group, at end of plex, down from a statement, and at end of plex down from branch. Respects viewspecs. This program is slow, and creates a large index. The index may have to be hand edited after creation to shorten it. It excludes all words in a list in the file <user-progs>index.nls;; all numbers, all words less than or equal to two characters, and all words ending with "ly". Candidates for the exclusion list are more than welcome. Send a message to Dean Meyer.

2b1l2

() inmes Inputs all of message.txt file into NLS file
E (user-progs,inmes,)

2b1m

Buffer pages required: 3

2b1m1

Execute. Inputs message.txt file as plex at given level. You probably want to delete the message.txt file after having done this so that subsequent uses won't duplicate the messages.

2b1m2

() inseqh Does a sophisticated Input Sequential file
E (user-progs,inseqh,)

2b1n

Buffer pages required: 1

2b1n1

Statements are delimited by two successive carriage returns. Statement level will be determined by the amount the statement is indented. If it is indented more than the previous statement, it will be taken to be a substatement and put down a level; if it is the same as the previous statement, it will be on the same level. If the statement is indented less than the previous statement, the program will look for a past statement with the same indentation and put it at that level. The indentation of a statement is taken to be the number of spaces preceding either the first or second line of the statement, whichever is less (to ignore paragraph indentation, for example). This is good from 1 to 12 levels. Carriage returns at the end of full (within 10 characters of the right margin, i.e. 62nd column) lines are replaced by spaces.

2b1n2

() inrun Inserts TENEX RUNOFF file into NLS file
E (user-progs,inrun,)

2b1o

Buffer pages required: 6

2b1o1

Execute. Bug location, give level, and give filename of

PERSONAL FILES AND USER PROGRAMS QUESTIONNAIRE

RUNOFF file. Takes the level of the statement from the left margin. The INDEX and PRINT INDEX codes are ignored. Some codes are interpreted as print directives. 2b1o2

() jform1 Reformats journal references 2b1p
 C (user-progs, jform, jform1)

Buffer pages required: 3 2b1p1

Content Analyzer. Reformatted statements will look as follows: 2b1p2

DCE 5-APR-73 10:42 15500 Note to Deaa Meyer re problem
 in
 (MJOURNAL, 15500, 1:w) Journal date/time of
 letters
 entered via his letter
 processor. 2b1p3

Comments: 2b1p3a

*** 5-APR-73 10:42 15500 Note to Deaa Meyer re problem
 in
 (MJOURNAL, 15500, 1:w) Journal date/time of
 letters
 entered via his letter
 processor.
 [From: DCE DCE DCE] 2b1p4

WLB 29-MAR-73 11:09 15387 Re 15312 -- New TNLS
 VIEWCHANGE
 Printing Parameters
 Command 2b1p5

Message: I would like to suggest that instead of
 defining new and confusing terms for TNLS printing
 parameters etc. 2b1p5a

PERSONAL FILES AND USER PROGRAMS QUESTIONNAIRE

() jform2 Reformats journal references
 C (user-progs,jform,jform2) 2blq1

Buffer pages required: 1 2blq1

Content Analyzer. Reformats journal references to look
 as follows: 2blq2

DCE Note to Dean Meyer re problem in Journal
 date/time of letters entered via his letter processor.
 5-APR-73 10:42 15500 (MJOURNAL, 15500, 1:w) 2blq2a

Comments: ... 2blq2a1

DCE DCE DCE Note to Dean Meyer re problems in Journal
 date/time of letters entered via his letter processor.
 5-APR-73 10:42 15500 (MJOURNAL, 15500, 1:w) 2blq2b

WLB Re 15312 -- New TNLS VIEWCHANGE Printing
 Parameters Command
 29-MAR-73 11:09 15387 Message:
 I would like to suggest that instead of defining new
 and confusing terms for TNLS printing parameters etc. 2blq2c

() letter Puts file in letter form, adds dear-- &
 sincerely-- E (user-progs,letter,) 2blr

Buffer pages required: 3 2blr1

Execute. It will ask for the information it needs.
 Since it adds the Dear--- and Sincerely, these should not
 be in the file. Since this format is a standard, you
 probably don't want directives in the file. [The program
 DELDIR deletes directives.] It will default the sender
 ident to your job ident if you don't specify. If the
 receiver is not in the ident system, type CR when
 receiver ident is requested. 2blr2

() makeref Scans for journal links and makes ref branch
 E (user-progs,makeref,) 2bls

Buffer pages required: 3 2bls1

Execute. Available formats of references are: 2bls2

0 (Ref#####) Author, "Title", Date. [Cited in
 StNum:(JOURNAL, #####,--)] 2bls2a

1 (#####,) Author. Title. Augmentation Research

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Center, Stanford Research Institute, Menlo Park,
California 94025. Date. 2b1s2b

2 (StNum) Author. Title. Augmentation Research
Center, Stanford Research Institute, Menlo Park,
California 94025. Date (JOURNAL, ##### --) 2b1s2c

() notabs Replace tab keys by spaces in plex
E (user-progs,notabs,) 2b1t

Buffer pages required: 1 2b1t1

Execute. Designate plex. Assumes default tab settings.
Ignores viewspecs. 2b1t2

() showdir Shows only stmts with Output Processor
directives C (user-progs,showdir,) 2b1u

Buffer pages required: 4 2b1u1

Content Analyzer. If you are not running on the whole
file, be sure it knows about changes in directive
delimiters (if any). You may have to copy a delimiter
change directive to your starting point. 2b1u2

() sortnmskp Sort key extractor: as usual but disregards
st names SK (user-progs,sortkeys,sortnmskp) 2b1v

Buffer pages required: 1 2b1v1

If instituted as sort key program (key extractor),
whenever Goto Sort Plex is executed, the sort will
disregard statement names. It knows about non-default
name delimiters. 2b1v2

() sortnocase Sort key extractor: alphabetic regardless of
case SK (user-progs,sortkeys,sortnocase) 2b1w

Buffer pages required: 1 2b1w1

When instituted as sort key extractor, whenever Goto Sort
Plex is executed, the sort will be done regardless of
character case. 2b1w2

() sortnum Sort key extractor: sorts by first number in
stant SK (user-progs,sortkeys,sortnum) 2b1x

Buffer pages required: 1 2b1x1

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- When instituted as sort key extractor, whenever you execute Goto Sort Plex, the statements will be ordered according to the first number (which may include a decimal and may be immediately preceded by a minus sign) in the statement. All statements without numbers will be put at the end. 2b1x2
- () sortrev Sort key extractor: exactly the reverse of usual SK (user-progs,sortkeys,sortrev) 2b1y
- Buffer pages required: 1 2b1y1
- When instituted as a key extractor, whenever Goto Sort Plex is executed, the sort will be done exactly the reverse of normal. 2b1y2
- () sublist Does substitutions on list of files given links E (user-progs,sublist,) 2b1z
- Buffer pages required: 2 2b1z1
- Execute. This does the substitute command to a list of links, so that a change can be made in a number of files. The syntax is very much like the regular substitute syntax: 2b1z2
- substitute
Character/Word/Number/Visible/Invisible/Link/Text 2b1z2a
- new: TEXT/BUG CA for old: TEXT/BUG CA finished? Yes/No 2b1z2b
- in Statements/Branches/Plexes (note: not group since link points to only one statement) 2b1z2c
- group of links: ADDR CA ADDR CA (this is a group of statements; all links in this group and in their substructure (regardless of viewspecs) will be taken and the given substitutions will be made on each statement/branch/plex) 2b1z2d
- () tblpts Adds periods to end of st out to given col C (user-progs,recompile,tblpts) 2b1a@
- Buffer pages required: 1 2b1a@1
- Put character position as length of test [in DECLARE STRING statement (.2b)]. Compile at statement 2 and institute as Content Analyzer. May be used in

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conjunction with addtext to aid in generation of table of contents. No REL file exists. 2b1a@2

() toc Generates Table of Contents with stmt num
refs E (user-progs,toc,) 2b1aa

Buffer pages required: 1 2b1aa1

Execute. It will ask for a file selection and the number of levels of depth you wish included in the contents. Note that, by creating a table of contents branch, it offsets statement numbering throughout the file. 2b1aa2

() trace NLS call return tracing system for
micro-analysis E (user-progs,trace,) 2b1ab

tracel arms †K (to begin trace) and †L (to stop
trace) 2b1ab1

trace2 disarms †K and †L 2b1ab2

Must be loaded after tracel has been loaded. 2b1ab2a

Buffer pages required: 3 for both 2b1ab2b

Between the time †K is hit and the time †L is hit, a file will be created holding a record of all calls and returns and memory accesses. This file is readable only by the UNTRACE system. 2b1ab2c

untrace subsystem for accessing trace files 2b1ab3

See (user-progs,trace,1:w) for the users' guide for this system. 2b1ab4

() truncate Truncates st/br/plx/grp to one line-assume
3/lev ind E (user-progs,truncate,) 2b1ac

Buffer pages required: 1 2b1ac1

Execute. Works on a statement, branch, group, or plex. Assumes a 72 character line. (That can be changed by changing the value initially put in count in the procedure dotrun.) Also assumes three char/level indenting. 2b1ac2

() wordcount Counts visibles in st/branch/group/plex
E (user-progs,wordcount,) 2b1ad

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Buffer pages required: 1 2b1ad1

Execute. Works on a statement, branch, group, or plex.
Counts visibles in designated structure. It IS mindful
of viewspecs. 2b1ad2

OTHERS: 2b1ae

(2) How did you learn how to use each? 2b2

(3) Where is the documentation for each? 2b3

(4) Have you shown any one else how to use a user program? 2b4

(5) Have you written any user programs? 2b5

(5a) If yes, which? 2b5a

(5b) Alone? or with help? 2b5b

(6) Other comments: 2b6

ANSWERS 3

PERSONAL FILES 3a

(BAH) 3a1

What files do you maintain for your personal record of: 3a1a

branches in iniaal file 3a1a1

according to journal format 3a1a1a

twice weekly 3a1a1b

when needed 3a1a1c

NA 3a1a2

NA 3a1a3

NA 3a1a4

branch in initial file for user programs 3a1a5

alphabetically by programname 3a1a5a

PERSONAL FILES AND USER PROGRAMS QUESTIONNAIRE

when needed	3a1a5b
when needed	3a1a5c
YES	3a1b
too much of a problem with scarce system resources	3a1b1
delete those not relevant	3a1c
(DCW)	3a2
What files do you maintain for your personal record of:	3a2a
branch(es) in initial file	3a2a1
topics of interest	3a2a1a
daily	3a2a1b
spasmodically	3a2a1c
branch(es) in initial file	3a2a2
"to do" and "done" branches	3a2a2a
sporadically	3a2a2b
sporadically	3a2a2c
NA	3a2a3
NA	3a2a4
branch in initial file for record of relevant files and documents	3a2a5
by files	3a2a5a
whenever needed	3a2a5b
whenever needed	3a2a5c
yes	3a2b
too much work to keep up; system limited availability	3a2b1
NA	3a2c

PERSONAL FILES AND USER PROGRAMS QUESTIONNAIRE

(DIA)		3a3
What files do you maintain for your personal record of:		3a3a
branch(es) in initial file		3a3a1
standard journal format		3a3a1a
three times weekly		3a3a1b
useful when needed		3a3a1c
branch in initial file		3a3a2
random		3a3a2a
when needed		3a3a2b
when needed		3a3a2c
NA		3a3a3
NA		3a3a4
idea files		3a3a5
branch in initial file		3a3a5a
when needed		3a3a5b
when needed		3a3a5c
yes		3a3b
unavailability of system		3a3b1
delete the irrelevant		3a3c

(DSK)		3a4
What files do you maintain for your personal record of:		3a4a
branch(es) in initial file		3a4a1
newer things by topics, older things deleted		3a4a1a
twice a week		3a4a1b
seldom, but extremely helpful when are		3a4a1c

PERSONAL FILES AND USER PROGRAMS QUESTIONNAIRE

branches in initial file	3a4a2
according to tasks and status	3a4a2a
daily	3a4a2b
occassionally	3a4a2c
NA	3a4a3
branch in initial file for books (mostly personal)	3a4a4
NA	3a4a5
yes	3a4b
cumbersome	3a4b1
delete the unmeaningful ones	3a4c
(HGL)	3a5
What files do you maintain for your personal record of:	3a5a
branch(es) in initial file	3a5a1
journal format	3a5a1a
frequently	3a5a1b
older ones less frequently	3a5a1c
branch(es) in initial file	3a5a2
categorically	3a5a2a
according to need	3a5a2b
according to need	3a5a2c
branch(es) in initial file	3a5a3
categorically	3a5a3a
according to need	3a5a3b
according to need	3a5a3c
branch(es) in initial file	3a5a4

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categorically	3a5a4a
according to need	3a5a4b
according to need	3a5a4c
branch(es) in initial file	3a5a5
categorically	3a5a5a
according to need	3a5a5b
according to need	3a5a5c
NO	3a5b
NA	3a5c
(JAKE)	3a6
What files do you maintain for your personal record of:	3a6a
NA	3a6a1
NA	3a6a2
NA	3a6a3
tried from time to time but too difficult because referenced files were often offline as a result of archive or dump	3a6a4
send message file	3a6a5
in branches by date, person, subject, text, etc.	3a6a5a
once a week if possible	3a6a5b
frequently	3a6a5c
yes	3a6b
partly because of lack of time to maintain and partly because of inconvenience in trying to keep track of on and off line files	3a6b1
does not have the time at present so just leave them there	3a6c
(JBN)	3a7

PERSONAL FILES AND USER PROGRAMS QUESTIONNAIRE

What files do you maintain for your personal record of:	3a7a
several files	3a7a1
into broad categories: arc, nic, etc.	3a7a1a
daily if possible, purged montly, hard copy is filed	3a7a1b
seldom	3a7a1c
started about three times: too much trouble to keep up	3a7a2
sedom any need	3a7a3
NA	3a7a4
NA	3a7a5
yes	3a7b
too much trouble to keep up	3a7b1
delete when finished	3a7c

(JCP) 3a8

What files do you maintain for your personal record of:	3a8a
branch(es) in initial file	3a8a1
journal format	3a8a1a
twice daily	3a8a1b
seldom	3a8a1c
NA	3a8a2
NA	3a8a3
NA	3a8a4
send message (most important record file)	3a8a5
send message format	3a8a5a
several times daily	3a8a5b
whenever necessary	3a8a5c

PERSONAL FILES AND USER PROGRAMS QUESTIONNAIRE

NO	3a8b
	3a8b1
delete the irrevelant	3a8c
(JEW)	3a9
What files do you maintain for your personal record of:	3a9a
NONE	3a9a1
NONE	3a9a2
NONE	3a9a3
NONE	3a9a4
NONE	3a9a5
YES	3a9b
too much trouble	3a9b1
delete after use	3a9c
(JMB)	3a10
What files do you maintain for your personal record of:	3a10a
file for information to be communicated	3a10a1
branched by subject matter; links are embedded in work schedule	3a10a1a
periodically according to need	3a10a1b
periodically according to need	3a10a1c
branch(es) in initial file	3a10a2
divided according to relevance, links to task areas	3a10a2a
periodically according to need	3a10a2b
constantly	3a10a2c
NA	3a10a3

PERSONAL FILES AND USER PROGRAMS QUESTIONNAIRE

a couple of files	3a10a4
one file per subject area	3a10a4a
not really, just deleted after use	3a10a4b
weekly	3a10a4c
NO	3a10a5
NO	3a10b
NA	3a10c
(JML)	3a11
What files do you maintain for your personal record of:	3a11a
branch(es) in initial file	3a11a1
branch for authored items, received items are deleted after read	3a11a1a
daily or twice daily	3a11a1b
almost never	3a11a1c
NA	3a11a2
file for record of expected visitors	3a11a3
branch for each visitor	3a11a3a
rarely, was designed to be filled in by others	3a11a3b
rarely	3a11a3c
NA	3a11a4
periodically created to satisfy need	3a11a5
NA	3a11b
NA	3a11c
(KIRK)	3a12
What files do you maintain for your personal record of:	3a12a

PERSONAL FILES AND USER PROGRAMS QUESTIONNAIRE

branch in initial file	3a12a1
branched according to topics: unread, to save, etc.	3a12a1a
daily	3a12a1b
weekly	3a12a1c
most of initial file	3a12a2
immensely elaborate scheme (see down)	3a12a2a
Locations (space) For PM	3a12a2a1
ARC	
<:eb>	3a12a2a1a
Apartment	3a12a2a1b
Palo Alto	3a12a2a1c
Menlo Park	3a12a2a1d
San Francisco	3a12a2a1e
Mail -- <offline *US-mail>	3a12a2a1f
daily	3a12a2b
often	3a12a2c
journal	3a12a3
journal format	3a12a3a
whenever opportune	3a12a3b
rarely	3a12a3c
NA	3a12a4
idea files	3a12a5
branches in initial file	3a12a5a
same as for schedules	3a12a5b
same as for schedules	3a12a5c

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yes	3a12b
most if not all other schemes have been traded off for elaborate scheme involved in schedule making (see above)	3a12b1
delete where not wanted	3a12c
(NDM)	3a13
What files do you maintain for your personal record of:	3a13a
branch(es) in initial file	3a13a1
deleted according to needs and wants	3a13a1a
as often as online	3a13a1b
rarely	3a13a1c
minimal	3a13a2
NA	3a13a3
NA	3a13a4
phone directory	3a13a5
poorly	3a13a5a
just created	3a13a5b
just created	3a13a5c
yes	3a13b
lack of usefulness	3a13b1
periodic deletion	3a13c
(PR)	3a14
What files do you maintain for your personal record of:	3a14a
branches in initial file	3a14a1
branches according to special topic areas	3a14a1a
daily	3a14a1b

PERSONAL FILES AND USER PROGRAMS QUESTIONNAIRE

moderately	3a14a1c
NA	3a14a2
visitor file	3a14a3
a branch for each visitor	3a14a3a
whenever applicable	3a14a3b
for record no for reference	3a14a3c
note file	3a14a4
random notes organized by topic by branch	3a14a4a
weekly	3a14a4b
whenever needed (once a week maybe)	3a14a4c
thoughts file(s)	3a14a5
by topic: different areas of research, etc.	3a14a5a
quite frequently, whenever idea comes	3a14a5b
whenever needed, alongside work	3a14a5c
yes	3a14b
change in interest, archive process, etc.	3a14b1
NA	3a14c
(SRL)	3a15
What files do you maintain for your personal record of:	3a15a
branches in initial file	3a15a1
standard journal format	3a15a1a
daily	3a15a1b
several times weekly	3a15a1c
file for significant changes in system behavior and use	3a15a2
chronologically	3a15a2a

PERSONAL FILES AND USER PROGRAMS QUESTIONNAIRE

whenever applicable	3a15a2b
whenever applicable	3a15a2c
NA	3a15a3
file for analysis papers, documents, etc. locally generated: occasionally, notes are jotted down and submitted to the journal for storage	3a15a4
by subject then chronologically	3a15a4a
monthly	3a15a4b
twice monthly	3a15a4c
NA	3a15a5
NO	3a15b
NA	3a15c
USER PROGRAMS	3b

In the following, no answer for (1) means no user programs from the list were used, a number in parenthesis before the name of a program indicates the number of times used per month.

(BAH) ANSWERS	3b1a
(1) OTHERS: mouseprog lame5key lame4key warcalc6 getjitem getradc, plus a bunch in <cat-programs>	3b1a1
(2) through experience	3b1a2
(3) most in comments for each one	3b1a3
(4) Yes	3b1a4
(5) Yes	3b1a5
(5a) mouseprog lame5key lame4key warcalc6 getjitem getradc, plus some more which have been archived	3b1a6
(5b) Both	3b1a7
(6) Other comments: Have found them to be very helpful and has been greatly improved with the REL file (to keep a compiled file around)	3b1a8

PERSONAL FILES AND USER PROGRAMS QUESTIONNAIRE

(DCW) ANSWERS	3b1b
(1) (1) changed	3b1b1
OTHERS: filter, generates user programs to check new or modified system procedures, plus a few other personal ones	3b1b1a
(2) wrote all that are used	3b1b2
(3) is none	3b1b3
(4) YES	3b1b4
(5) YES	3b1b5
(5a) All above mentioned	3b1b6
(5b) With help	3b1b7
(6) Other comments: Currently good for professional programmers only since L10 knowledge is needed; also poor because there is no documentation on procedures available; minimal diagnostics and error checking;	3b1b8
(DIA) ANSWERS	3b1c
(1) (1) letter	3b1c1
(a lot and then none for awhile) trace	3b1c1a
(2) brute force, wrote trace	3b1c2
(3) Yes for trace, not for others	3b1c3
(4) YES	3b1c4
(5) YES	3b1c5
(5a) Trace	3b1c6
(5b) Alone	3b1c7
(6) Other comments: Doesn't really know what's available generally	3b1c8
(DSK) ANSWERS	3b1d
(1) (30) trace	3b1d1

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OTHERS: Many	3b1d1a
(2) Learned in a seminar, and with the help of an individual	3b1d2
(3) Has reference to it in initial file, and in hardcopy	3b1d3
(4) No, probably has but can't remember an occasion, has demonstrated to visitors	3b1d4
(5) YES	3b1d5
(5a) One for JAKE to show names only on statements, wasn't satisfactory so was discarded, was impossible to do	3b1d6
(5b) Alone	3b1d7
(6) Other comments: Does a lot of work with the use of user programs, (1) testing of part of the system (2) research on additions or modifications, simulation of changes	3b1d8
(HGL) ANSWERS	3b1e
(1) (1) append	3b1e1
(1/2) letter	3b1e1a
(2) trace	3b1e1b
(2) Journal, word of mouth, wrote many, user guide contents	3b1e2
(3) Journal, word of mouth, wrote many, user guide contents	3b1e3
(4) Yes	3b1e4
(5) Yes	3b1e5
(5a) Several	3b1e6
(5b) Both	3b1e7
(6)	3b1e8
(JAKE) ANSWERS	3b1f

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(1) (seldom) deldir	3b1f1
(3) inmes	3b1f1a
OTHERS: Special ones to insert output processor directives, one to check to see if there is an additional level to simulate Query (online)	3b1f1b
(2) Some was shown, some talked to people, some learned by self	3b1f2
(3) Doesn't really know	3b1f3
(4) Have told people about ones that exist and shown them occasionally	3b1f4
(5) No, have helped design them	3b1f5
(6) Other comments: Can rarely run them in the daytime, many don't work satisfactorily, there is no clear mechanism to use to get a program written and maintained.	3b1f6
(JBN) ANSWERS	3b1g
(1)	3b1g1
(2) From documentation	3b1g2
(3) <user-guides>-userguide	3b1g3
(4) NO	3b1g4
(5) NO	3b1g5
(6) Other comments: Found that the programs did not work satisfactorily as described	3b1g6
(JCP) ANSWERS	3b1h
(1) NEVER USED ONE	3b1h1
(2) 80% people, 20% documentation, has some personal notes	3b1h2
(3) No	3b1h3
(4) No	3b1h4
(5) No	3b1h5

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(JEW) ANSWERS	3b1i
(1) (very seldom) append	3b1i1
(2) Knew how they worked	3b1i2
(3) Doesn't know of any	3b1i3
(4) No	3b1i4
(5) No	3b1i5
(JMB) ANSWERS	3b1j
(1) (used to use, now has more useful one) addname	3b1j1
(3) addtext	3b1j1a
(2) deldir	3b1j1b
(8) format	3b1j1c
(1) letter	3b1j1d
(3) showdir	3b1j1e
OTHERS: individual ones 5-6	3b1j1f
(2) By talking to people who wrote them	3b1j2
(3) (User guides, manual; referenced in documentation, manual); some are not documented	3b1j3
(4) Yes	3b1j4
(5) No	3b1j5
(6) Other comments: It's more useful to write one for a particular use than the general ones, however the format ones are really great	3b1j6
(JML) ANSWERS	3b1k
(1) (8) letter	3b1k1
(2) From a person	3b1k2
(3) Doesn't know where it is	3b1k3

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(4) YES	3b1k4
(5) No	3b1k5
(6) Other comments: Is not sure whether it is a time saver but feels LETTER is a hopeful feature for future use when idents are known to the system.	3b1k6
(KIRK) ANSWERS	3b1l
(1) (5) address	3b1l1
(4) addtext	3b1l1a
(4) append	3b1l1b
(2) deldir	3b1l1c
(6) inseqh	3b1l1d
(20) jform2	3b1l1e
(3) notabs	3b1l1f
(1) sortnocase	3b1l1g
OTHERS: named, unnamed - are content analyzers which show named and unnamed statements; nostkr - reads part of a file into another eliminating structure; jm - jump to mouse command; tjm - tnl jump to mouse;	3b1l1h
(2) 60% trial and error, 20% documentation, 10% people, 10% luck	3b1l2
(3) the ones listed have a link in locator to documentation, the first 3 listed under OTHER are in <documentation>manual, the last 2 are in <kelley>catalog	3b1l3
(4) Yes	3b1l4
(5) No	3b1l5
(5a) JM & TJM named and unnamed	3b1l6
(5b) With help	3b1l7
(NDM) ANSWERS	3b1m
(1) (6) addtext	3b1m1

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(4) append	3b1m1a
(6) deldir	3b1m1b
(12) format	3b1m1c
(2) inmes	3b1m1d
(20) showdir	3b1m1e
(4) toc	3b1m1f
OTHERS: sysgdform, whenever a new system is brought up, monthly eventually;	3b1m1g
(2) Wrote all used	3b1m2
(3) <user-progs>-contents or NLS version of programs	3b1m3
(4) Yes	3b1m4
(5) Yes	3b1m5
(5a) All but TRACE	3b1m6
(5b) Help from Harvey, and from other people occasionally	3b1m7
(6) Other comments: fantastic potential; augmented accessing would be nice; L10 should be getting more useable, as userguide, sysgd, etc. develops; some programs aren't used for a long time, then are suddenly absolutely necessary; the use of the system of user programs depends on having the right program at the right time, archiving them has discouraged people in the past; i have got repeated requests to make all user programs pemanently available; more comments on demand	3b1m8
(PR) ANSWERS	3b1n
(1) (30) inmes	3b1n1
(2) from a person	3b1n2
(3) doesn't know, but has instructions in initial file	3b1n3
(4) Yes	3b1n4
(5) No	3b1n5

PERSONAL FILES AND USER PROGRAMS QUESTIONNAIRE

(6) Other comments: Thinks they are great	3b1n6
(SRL) ANSWERS	3b1o
(1) (30) inmes	3b1o1
OTHERS: seqgraph - used to format the weekly Superwatch graphs, have on occasion used a program to do some data reduction of journal usage	3b1o1a
(2) Helped write both	3b1o2
(3) There is no formal documentation except for inmes and that is in locator	3b1o3
(4) YES	3b1o4
(5) YES	3b1o5
(5a) the ones mentioned in OTHER above	3b1o6
(5b) with help	3b1o7
(6) Other comments: Can be a real help when you have a repeated process to do	3b1o8

PERSONAL FILES AND USER PROGRAMS QUESTIONNAIRE

(J20979) 19-DEC-73 10:53; Title: Author(s): Susan R. Lee, Beauregard
A. Hardeman, Jeanne B. North/SRL BAH JBN; Distribution: /PR[we can
discuss this) SRL BAH JBN; Sub-Collections: SRI-ARC; Clerk: BAH;

20979 Distribution

Paul Rech, Susan R. Lee, Beauregard A. Hardeman, Jeanne B. North,

I'm not going to be here on Friday the 28th to do the time ards. Evidently Dirk or Jim Norton is ging to be doing then. Please, if you're not going to be here then, let someone know how to fill in your card, either telling me now, or filling it out early next week, or some other mechanism which lets the right people know what yo are doing. Thanks much.

1

20980 Distribution

Donald C. (Smokey) Wallace, Richard W. Watson, Don I. Andrews,
James H. Bair, A. Jim Blum, Meredith(Reddy) E. Dively, Jeanne M.
Leavitt, Rodney A. Bondurant, Jeanne M. Beck, Mark Alexander Beach,
Judy D. Cooke, Marcia Lynn Keeney, Carol B. Guilbault, Susan R. Lee,
Elizabeth K. Michael, Charles F. Dornbush, Elizabeth J. (Jake)
Feinler, Kirk E. Kelley, N. Dean Meyer, James E. (Jim) White, Diane
S. Kaye, Paul Rech, Michael D. Kudlick, Ferg R. Ferguson, Douglas C.
Engelbart, Beauregard A. Hardeman, Martin E. Hardy, J. D. Hopper,
Charles H. Irby, Mil E. Jernigan, Harvey G. Lehtman, Jeanne B. North,
James C. Norton, Jeffrey C. Peters, Jake Ratliff, Edwin K. Van De
Riet, Dirk H. Van Nouhuys, Kenneth E. (Ken) Victor

(J20980) 19-DEC-73 10:54; Title: Author(s): Jeanne M. Leavitt/JML;
Distribution: /SRI-ARC; Sub-Collections: SRI-ARC; Clerk: JML;

trivia, but this is the sort of questions that arise in working on
the database

Dear Dirk,

Do you want your MENUE menued (as an advertisement for the concept
menu), or want it just to print as an example of NLS structure (as
it's also advertised)?

--Jeanne

1

21024 Distribution

Dirk H. Van Nouhuys,

trivia, but this is the sort of questions that arise in working on
the database

(J21024) 19-DEC-73 11:39; Title: Author(s): Jeane M. Beck/JMB;
Distribution: /DVN; Sub-Collections: SRI-ARC; Clerk: JMB;

Status of EJK's wife (hit control o if you are not interested)

In order to save wear and tear on the oral/auditory systems here I am sending out this summary on the state of the wife. 1

She was operated on at about 1000 on 18 dec. As of NOW she is suffering some pain, has a tube in her nose going into her stomach and has an IV in her arm. 2

Except for that she's in good shape. 3

I am beginning to get reinforcement in the form of my kids who are starting to come home for Christmas. 4

I will perssonally be glad when New Year's day gets here. A year like this one I wouldn't wish on my worst enemy or even A. Hitler some of you older folks might remember him). 5

21025 Distribution

Larry M. Lombardo, Anna A. Cafarelli, Roberta J. Carrier, Donna R. Robilotta, David L. Daughtry, Richard H. Thayer, Frank J. Tomaini, Mike A. Wingfield, Edmund J. Kennedy, Ray A. Liuzzi, John W. Johnson, Donald Van Alstine, Dean F. Bergstrom, William P. Bethke, Frank S. LaMonica, William E. Rzepka, Rocco F. Iuorno, Frank P. Sliwa, Thomas J. Bucciero, Robert E. Doane, David A. Luther, Roger B. Panara, John L. McNamara, Joe P. Cavano, Duane L. Stone, Marcelle D. Petell, Josephine R. Stellato, Robert K. Walker, Thomas F. Lawrence, James H. Bair,

EJK 19-DEC-73 12:21 21025

Status of EJK's wife (hit control o if you are not interested)

(J21025) 19-DEC-73 12:21; Title: Author(s): Edauid J. Kennedy/EJK;
Distribution: /RADC; Sub-Collections: RADC; Clerk: EJK;

BBN Documentation Request

Carol Kidston:

We in the UK are at present trying to set up some general documentation for the UK users of ARPANET. The main area of concentration at present is concerned with commonly used manuals. Obviously, TENEX systems are commonly being used, and I believe that the majority of such manuals are available from BBN. Thus several questions arise.

1. What manuals are available from BBN? 1a
2. Which of these is chargeable, and at what cost? 1b
3. A number (if not all) BBN manuals bear copyright. Since we may be asking for between 20 and 40 copies of many manuals eventually would you prefer to bill and mail that number of copies of each, or would you prefer to give us dispensation to copy certain of them, in the same way which we deal with non-copyright documents? 2
4. Are any of the documents which you could provide, on-line anywhere? 2a
5. Do you know of any general list of people on the Network, who could provide us with general documentation of this form? 3

Regards .. Steve Wilbur (U. of London)

----- 4

21026 Distribution
Carol A. Kidston,

BBN Documentation Request

- - - -

Carol Kidston:

(J21026) 19-DEC-73 13:12; Title: Author(s): Stephen R. Wilbur/SRW ;
Distribution: /CAK ; Sub-Collections: NIC; Clerk: SRW;

Imminent IDENT System Changes-- Of interest to programmers and PSO

I have made some changes to the ident system. They will be brought up with the next new system, so watch out. I'll give another notice when this has happened

1

1. I have fixed a bug in the procedure laddress and also made it run more efficiently. One of the changes involves the addition of a parameter which is either the NLS file number of a file which will be searched for IDs if necessary; if it is zero, the identfile will be opened if necessary as is currently the case. It is called in only two places in the NLS system itself in JNLDEL. I have changed those calls. It is called repeatedly in the catalog programs which generate ID directories and I have also fixed those calls. If you are using it in your user programs, see me.

1a

2. I have added a field to Organization idents which must be present. This field is the "Type" field and indicates the type of organization. It may be one of the following five types: User, Server, Tip, Associate, or Independent. When a new organization is defined, the definer is asked for the type of the organization. It may be modified by the usual means of modifying identfile entry fields. I have also run a user program over the ident file to put appropriate fields in existing organization idents based on the contents of the groups which have the idents of the various organization types. Additionally, the verification procedure has been written to check for the occurrence of the Type fields and its validity in org idents.

1b

The following procedures have been modified:

1b1

File IDLIBE--

1b1a

idstatus, xverga

1b1a1

File IDTCTL--

1b1b

newident, tidmodify

1b1b1

The following procedures have been created:

1b2

File IDLIBE--

1b2a

getityp, setityp

1b2a1

File IDTCTL--

1b2b

tjgttp

1b2b1

21028 Distribution

Donald C. (Smokey) Wallace, Richard W. Watson, Don I. Andrews,
James H. Bair, A. Jim Blum, Meredith (Reddy) E. Dively, Jeanne M.
Leavitt, Rodney A. Bondurant, Jeanne M. Beck, Mark Alexander Beach,
Judy D. Cooke, Marcia Lynn Keeney, Carol B. Guilbault, Susan R. Lee,
Elizabeth K. Michael, Charles F. Dornbush, Elizabeth J. (Jake)
Feinler, Kirk E. Kelley, N. Dean Meyer, James E. (Jim) White, Diane
S. Kaye, Paul Rech, Michael D. Kudlick, Ferg R. Ferguson, Douglas C.
Engelbart, Beauregard A. Hardeman, Martin E. Hardy, J. D. Hopper,
Charles H. Irby, Mil E. Jernigan, Harvey G. Lahtman, Jeanne B. North,
James C. Norton, Jeffrey C. Peters, Jake Ratliff, Edwin K. Van De
Riet, Dirk H. Van Nouhuys, Kenneth E. (Ken) Victor

Imminent IDENT System Changes-- Of interest to programmers and PSO

(J21028) 19-DEC-73 15:54; Title: Author(s): Harvey G. Lehtman/HGL;
Distribution: /SRI-ARC; Sub-Collections: SRI-ARC; Clerk: HGL;

PSO group allocation scheme

PSO group allocation scheme

one slot from 8:00 till 14:00, two slots till 17:00
12 hours, 4 people, = 3 hours/person.

MEJ: 8:00 till 10:00, 12:00 till 13:00

JML: 11:00 till 12:00, 13:00 till 15:00

BAH: 10:00 till 11:00, 15:00 till 17:00

KIRK: 14:00 till 17:00

1
2
3
4
5

21029 Distribution

Dirk H. Van Nouhuys, Kirk E. Kelley, Jeanne M. Leavitt, James C.
Norton, Mil E. Jernigan, Beauregard A. Hardeman,

PSO group allocation scheme

(J21029) 19-DEC-73 16:35; Title: Author(s): Kirk E. Kelley/KIRK;
Distribution: /DVN KIRK JML JCN MEJ BAH; Sub-Collections: SRI-ARC;
Clerk: KIRK;

Problems, suggestions, and complaints

I have a few complaints and suggestions about the recent to-do over the directory and I thought I might address them more tactfully in written form.

1

Since Carol and Judy and I are the ones responsible for both the maintenance of an up to date identfile and keeping a current mailing list for sites and associates on the network, it is imperative that we receive information about a new site as soon as it has been approved.

1a

This has not been the case, as is evidenced by the fact that we had to enter some thirty new sites in the identfile in the last week.

1a1

We feel a bit put off that we hadn't been told about these sites before the week that the program was to be run. I think a little more organization and communication is in order.

1a1a

Of course, this leads to another problem. What documentation are we to send to these new sites and associates? For instance, some are off-shoots of BBN and have the same Liaison and Station Agent as TENEX, etc. and may not require additional sets of the functional documents. But someone has got to tell us one way or the other what status these sites are to have with relation to our mailings.

1a2

One thing I would like to suggest, is that quickprints of the new directory be run between publications so that we can check for possible errors in a more leisurely manner.

1a3

The list of people to whom we mail weekly (people who we have considered hosts and associates) has always been in the directory -- under Liaisons, Station Agents and Network Associate Group. I realized upon seeing a printout of Jake's list of hosts and associates that our mailing list and her (the real) list are quite different.

1a4

Naturally, I was a bit horrified to discover this discrepancy. But, frankly, why hasn't anyone ever looked at that list of Liaisons, Station Agents and Associates in the directory before and told us about the problem??

1a4a

We can only update those lists when someone, namely Jake, Mike, or Ed Schelonka tells us; and if no one tells us about things, well, the discrepancy between our lists and the real thing just gets larger and larger.

1a4b

I hate to bitch about things but I think improvement is needed.

Problems, suggestions, and complaints

I feel like we here in the NIC room are not being included as fully as we should be in the NIC. We can only keep things running as efficiently as our communications with our co-workers are accurate and timely.

1a5

21030 Distribution
Michael D. Kudlick,

Problems, suggestions, and complaints

(J21030) 19-DEC-73 16:35; Title: Author(s): Marcia Lynn Keeney, Judy
D. Cooke, Carol B. Guilbault/MLK JDC CBG; Distribution: /MDK;
Sub-Collections: SRI-ARC; Clerk: MLK;
Origin: <KEENEY>PROBLEMS.NLS;3, 19-DEC-73 16:33 MLK ;

NBS still a potential Utility client

Just had a link-chat with Ira Cotton. Asked him if he (or NBS) still had any interest in buying Utility service. He said that he asks Tom Pyke about getting him (Ira) some NLS service almost every week. Ira expressed immediate feeling that he hoped we wouldn't let it all get committed and leave him out. Told him there ought to be enough expansion capability not to worry; and that I figured we owed Tom Pyke at least a phone call, if not a bit of a proposal, to make our offer a little more formal. So, I will call Tom soon -- no action being requested of the rest of you.

1

21031 Distribution

James C. Norton, Michael D. Kudlick, Richard W. Watson, James H. Bair, Ira W. Cotton,

NBS still a potential Utility client

(J21031) 19-DEC-73 21:24; Title: Author(s): Douglas C.
Engelbart/DCE; Distribution: /JCN MDK RWW JHB IWC; Sub-Collections:
SRI-ARC; Clerk: DCE;

Last Call for Comments on Pocket Output Processor Directive Card

A couple of weeks ago we received from DDSI the COM version of a pocket card similar to the viewspec card but showing the most important output processor directives. At that time I brought copies to the attention of some of you. A few people responded with suggestions.

Dean Meyer will still be glad to show you hard copies. The file is online as <meyer,opcard,1>. If we hear no further response by the 26th we will go ahead on the bases of what we have.

1

21032 Distribution

Donald C. (Smokey) Wallace, Richard W. Watson, Dora I. Andrews,
Prentiss H. Knowlton, Data Dissemination Systems Inc. , David C.
Walden, Jean Iseli, Nancy J. Neigus, David H. Crocker, Susan S. Poh,
Ernest H. Forman, Robert N. Lieberman, Duane L. Stone,
James H. Bair, A. Jim Blum, Meredith(Reddy) E. Dively, Jeanne M.
Leavitt, Rodney A. Bondurant, Jeanne M. Beck, Marx Alexander Beach,
Judy D. Cooke, Marcia Lynn Keeney, Carol B. Guilbault, Susan R. Lee,
Elizabeth K. Michael, Charles F. Dornbush, Elizabeth J. (Jake)
Feinler, Kirk E. Kelley, N. Dean Meyer, James E. (Jim) White, Diane
S. Kaye, Paul Rech, Michael D. Kudlick, Ferg R. Ferguson, Douglas C.
Engelbart, Beauregard A. Hardeman, Martin E. Hariy, J. D. Hopper,
Charles H. Irby, Mil E. Jernigan, Harvey G. Lehtman, Jeanie B. North,
James C. Norton, Jeffrey C. Peters, Jake Ratliff, Edwin K. Van De
Riet, Dirk H. Van Nouhuys, Kenneth E. (Ken) Victor

Last Call for Comments on Pocket Output Processor Directive Card

(J21032) 19-DEC-73 21:44; Title: Author(s): Dirk H. Van
Nouhuys/DVN; Distribution: /SRI-ARC PHK DDSI DCW3 JI NJN DHC SSP EHF RLL
DLS; Sub-Collections: SRI-ARC COM DPCS NIC DDSI; Clerk: DVN;

Thanks to DDSI for Quick Return of Draft

Last Friday I put a file on tape at ISI mid morning that contained material for COM. DDSI picked up the tape, ran it, made proofs, and mailed them so they were on my desk Wednesday morning. This rapid turnaround exceeds the best assurances they have given us since the present people have been working with us there (jjournal,19283,). Thank you DDSI. This bodes well.

1

21033 Distribution

Walt Bass, N. Dean Meyer, Dirk H. Van Nouhuys, Marilyn F. Auerbach,
Diane S. Kaye, Douglas C. Engelbart, James C. Norton, Richard W.
Watson, Charles H. Irby, Data Dissemination Systems Inc. ,

DVN 19-DEC-73 21:54 21033

Thanks to DDSI for Quick Return of Draft

(J21033) 19-DEC-73 21:54; Title: Author(s): Dirk H. Van
Nouhuys/DVN; Distribution: /DPCS DDSI; Sub-Collections: SRI-ARC DPCS
DDSI; Clerk: DVN;

John Perry, some things to talk about

To set up for phone talk with John Perry

John Perry, some things to talk about

John: This is a preliminary feeler. I have been very busy over the past two weeks, re-examining ARC's plans, commitments, resources, etc. within SRI's and ARPA's activity environment. This started even before Jim Norton had the stimulating series of talks amongst your offices, and has been considerably affected by the information he gave me.

1

Principle spur to this re-examination actually was my perception of the plight of the Defense Energy Information System (DEIS) activities, and of SRI's (and within SRI, of ARC's) particular project organization in service to the NMRO DEIS pursuits. I became highly alarmed the more I dug into the situation. The culmination of two weeks swirl, as aided greatly by a much-improved DEIS-project management structure within SRI (spurred by alarms similar to mine appearing in a number of places), is as follows:

2

I want to open direct discussion with IPTO and NMRO, and perhaps HRRD (depending upon the extent to which they have actual commitment on Utility slots), about the possibilities of an immediate shift of some portion of ARPA's Utility resources into support of the DEIS activity, under the direct "investment guidance" of NMRO. The limiting extent of the shift could reasonably be proposed as "total," insofar as the apparent urgencies and relevancies (to DoD/ARPA) are concerned; I say that mainly to emphasize the serious extent of my re-examination, and of my strong personal need now to explore these possibilities with ARPA.

3

Intense re-examination has been under way within ARC, too; we are really ready to talk seriously about a highly unified, heavy commitment in support of the energy-crisis management problem, which first off would (likely) start with supporting the DEIS system analysts. There are some definite virtues to our taking on what has arisen as a direct, open invitation/challenge:

4

The unified nature of the application (as currently perceived),

4a

The multiple, "bootstrapping" leverage achieved by an application that directly supports the analysts, designers, perhaps some of the customers, who are involved in the evolution of a complex information system. (That is exactly the situation that old DCE's long-range strategic plan has been working toward.)

4b

The readily apparent (to us) way in which this could lead to a beautifully melded utilization of not just ARPA's NLS, but of its Network, its DataComputer, its TENEXs, perhaps its ILLIAC-IV, etc. etc.

4c

The readily apparent need in this application for early interfacing between a number of disparate information services:

John Perry, some things to talk about

some already on the ARPANET, some on computers yet to be connected, some being services run by hand, and of all sizes and shapes and locations. We'd likely have an early chance for trying it (rather than perennially talking about it) -- providing for "reaching through" from an NLS-based Core Workshop facility to harness special services of a number of other resources.

4d

and of providing some way to establish what we would call a knowledge workshop where the work can go on (and the system can evolve)

4d1

A very direct and visible way in which ARPA-developed technology can get a chance to make a difference in a DoD crisis .

4e

The immense sense of gratification (otherwise sort of deferred) that our augmentation crusade might actually produce some direct benefit in an important national problem.

4f

I am thinking that I should first have a talk with you, to see how things now stand in a sort of general way. There is of course a concern here about the general funding and new-contract timing, and also a number of questions about the management practices for IPTO's Utility resources; but if there is as much mutual advantage (for both ARC and ARPA) as I sense, and if it negotiates out as reasonable to pursue that advantage with decisiveness (abruptness, or??), then the possible shifts in our activities are so large and potentially rapid that I really want to assess them (as outline above) before I worry overmuch about these other items.

5

There is an "internal to SRI" memo that I wrote the other day that I would like for you to read, quietly and sort of privately (for the time being). (20940,).

6

I'll call you, maybe even before you read this... Regards, Doug

7

21034 Distribution

John S. Perry, James C. Norton, Richard W. Watson, Paul Rech, Michael
D. Kudlick, Bonnar Cox, David R. Brown,

John Perry, some things to talk about

(J21034) 19-DEC-73 22:00; Title: Author(s): Douglas C.
Engelbart/DCE; Distribution: /JSP JCN RWW PR MDK BC DRB;
Sub-Collections: SRI-ARC; Clerk: DCE;

Ed, Best wishes and hope that Mrs. Kenneky makes a speedy recovery. Take care of yourself and loved ones. In spite of everything, have a Merry Christmas...CHEERS .. Dave Daughtry.

1

(J21035) 20-DEC-73 05:41; Title: Author(s): David L. Daughtry/DLD2;
Distribution: /EJK; Sub-Collections: NIC; Clerk: DLD2;

Join the NGG.

Jim,
I am very interested in the development of Network Graphic Protocol,
please enter my ident SSP in NGG. Thank you !!!
Susan...

1

Join the NGG.

(J21036) 20-DEC-73 06:10; Title: Author(s): Susan S. Poh/SSP;
Distribution: /JCM; Sub-Collections: NIC; Clerk: SSP;

iMessages I have received from Nov up to 18 December 1973

10-DEC-73 0722-PST BERGSTROM: DM-1 Maintenance Funding.
cc: tomaini
Received 10-DEC-73 07:22:23

1

The last time I spoke with you it was my understanding that the money allocated to the maintenance effort was all set. We were (are) going to borrow 30k from RB for this FY and repay it next FY. Ordinarily this would be no problem. HOWEVER Joe Schramp may need all the money he can get if RB decides to fund Auerbach for the period Apr. 17 - Jul. 31. If this is the case, what is your recommendation?

1a

10-DEC-73 1235-PST KENNEDY: afscmis
cc: tomaini
Received 10-DEC-73 12:35:30

2

there is to be a mtg with gabe tomorrow 11 dec at 1000 his office to discuss our proposal.

2a

11-DEC-73 1122-PST BERGSTROM: DM-1 Funding
cc: tomaini
Received 11-DEC-73 11:22:59

3

Frank, I have talked to Joe Schramp and passed on your inputs. He is going to get together with Mr. Naresky and send a reply to Col. Thayer stating the financial position of RB with regards to the DM-1 program.

3a

11-DEC-73 1220-PST KENNEDY: wife
cc: iuorno, tomaini, stone
Received 11-DEC-73 12:20:50

4

I took her to the md and there is a possibility of an intestinal blockage. She is in the hospital for tests. If all is well she'll be home tomorrow. What happened at the meeting with gabe????? should i continue working on the executive summary at home or what . INFO please. what's happening, communicate will you.

4a

12-DEC-73 0650-PST MCNAMARA: BIO
Received 12-DEC-73 06:50:13

5

Bobbie, I have made a bio in my directry, the file name is bio. I was going to send it to you using the journal but decided it would be faster to use snd mess. thanks.

5a

13-DEC-73 0756-PST CAVANO: ICL presentation to NAFCOSAC
cc: tomaini, iuorno, daughtry
Received 13-DEC-73 07:56:54

6

iMessages I have received from Nov up to 18 December 1973

Mr. Wyman of Nafcosac is working on an IDS query capability and is interested in coming up here next week with 3 other guys for an informal briefing on ICL. Support is needed to handle this visit by 4 people and to prepare a pitch centering around ICL: its background, selection, general capabilities, limitations, etc. A demo must also be prepared. Before I can give these guys the go-ahead on coming up here, I must know whether we will be free next week to handle something like this...I imagine Dave, Don Van, Roc and myself should attend this briefing.

6a

13-DEC-73 0802-PST LAFORGE: syracuse univ. topics for study
cc: iuorno, tomaini
Received 13-DEC-73 08:02:41

7

the file labelled academia in my directory has been brought up to date and i would like your comments prior to getting together with jack kelly

7a

13-DEC-73 0957-PST BERGSTROM: DM-1 Data Management System.
cc: thayer, tomaini, iuorno, cavano
Received 13-DEC-73 09:57:27

8

On 13 Dec. 73 a letter was received from the Asst. Deputy for Advanced Airborne Command Post requesting information regarding the functional testing of DM-1 for the Air Force Data Services Center. They also requested any other performance measurements on DM-1 capabilities. The former part of the request poses no particular problem, since the AFDSC is going to prepare a report on their T&E. The request for performance measurements is a problem. We have none. A suitable reply will be prepared by DFB. Any recommendations will be appreciated.

8a

13-DEC-73 2142-PST TOMAINI: tomaini's initials file
Received 13-DEC-73 21:42:25

9

try printing it . Don't use the mw viewspec. Try the mdbot and see what you get. Surprised eh!!! Think of all the other tricks I could teach you. (could have when i was your age) Poor baby, you missed all the goodies. Forgive the spelling but it is almost 1245 (am) and i am about to get kicked off the system.

9a

13-DEC-73 2146-PST TOMAINI: fjt directory
Received 13-DEC-73 21:46:00

10

Almost forgot, notice that I journaled franks author branch. He is now at 35 pages and there is no way of getting much under that you might consider journaling some of his older journal mail. ie. journal the branch called (rjun) and (rjul) won't hurt much and

iMessages I have received from Nov up to 18 December 1973

will allow more room. Maybe you might want to do this to a quarter at a time.

10a

14-DEC-73 0617-PST CAVANO: nafcosac icl meeting
cc: tomaini, iurno
Received 14-DEC-73 06:17:28

11

CAN WE support a meeting next Tues afternoon -Wed morning with these guyss. They have a dynamic rush interest in this and I'm not going to keep them on the hook later than 2:00 today. Please respond to this via a message. Thank You

11a

14-DEC-73 0855-PST NORTON: visit
Received 14-DEC-73 08:55:44

12

Thanks you dear See you another time then

12a

14-DEC-73 2309-PST KENNEDY: motherhood
Received 14-DEC-73 23:09:14

13

So I left the office at about 5:30. Went home, picked up mykid on the way. Did some chores fed the dog took off. Took Pat to Holiday Inn to eat. Decided that she had had enough hamburgers. SO, we had chopped sirloin instead. She was happy because it looked like a hamburger - I was happy because she ate other stuff besides, also I had a martini. We visited the mother in the hospital. Left about 8:45, went shopping for a couple of things, got home about 10:10. Spoke to wife on phone, read a couple of papers, watched last20 minutes of dean martin show. Put Pat to bed, watched news. Put on old movie, 'Passage to Marseilles' figuring pix on ww2 aare relaxing by comparison. Broke at about 12:15 to mix up some chicken and some hamburg with shake and bake. At aout 1:30 took them out of the oven, set them aside to cool and watched the end of the movie. It's now 2:05, one would figure that after all that attention and love I could at least get laid. But, no dice- you broads have all the luck.

13a

14-DEC-73 2319-PST KENNEDY: wife
cc: tomaini, iurno, stone, panara, cavano, laforge, kennedy
Received 14-DEC-73 23:19:35

14

She's healthy as hell, except for one small problem, her gall bladder. It must come out. Decision point - (she's as physically healthy as can be, she's psychologically at a point where she is ready) do it now, delay 'til after Christmaas and then go back to the hospital, wait until she is acutely ill and then go in at some later time, less healthy and under duress, and get it done. Her decision, do it as soon as possible and get it over with. I

iMessages I have received from Nov up to 18 December 1973

fully concur and hope i do not ever regret it. What this does to the radc mis, I say, at 2:15 am

14a

17-DEC-73 0709-PST CAVANO: your mess
Received 17-DEC-73 07:09:59

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"There is nothing more difficult to carry out, nor more doubtful of success, nor more dangerous to handle, than to initiate a new order of things." Machiavelli I can understand your current plight..I have been trying to do things along the same order the last few months and all I know is that its going to take a greater wisdom than mine t do it. If YOU ever find the solution, please let me know. P.S. I'm retrieving the tick file and I'll have Donna whip it into shape as soon as possible.

15a

18-DEC-73 0700-PST BAIR: your question
cc: bair, norton
Received 18-DEC-73 07:00:25

16

we will answer that question when we get there tomorrow and Thurs., OK? See you...

16a

10-DEC-73 0722-PST BERGSTROM: DM-1 Maintenance Funding.
cc: tomaini
Received 10-DEC-73 07:22:23

17

The last time I spoke with you it was my understanding that the money allocated to the maintenance effort was all set. We were (are) going to borrow 30k from RB for this FY and repay it next FY. Ordinarily this would be no problem. HOWEVER Joe Schramp may need all the money he can get if RB decides to fund A UERBACH FOR THE PERIOD Apr. 17 - Jul. 31. If this is the case, what is your recommendation?

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cc: tomaini
Received 11-DEC-73 11:22:59

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11-DEC-73 1220-PST KENNEDY: wife
cc: iuorno, tomaini, stone
Received 11-DEC-73 12:20:50

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12-DEC-73 0650-PST MCNAMARA: BIO
Received 12-DEC-73 06:50:13

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21a

13-DEC-73 0756-PST CAVANO: ICL presentation to NAFCOSAC
cc: tomaini, iuorno, daughtry
Received 13-DEC-73 07:56:54

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cc: iuorno, tomaini
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13-DEC-73 0957-PST BERGSTROM: DM-1 Data Management System.
cc: thayer, tomaini, iuorno, cavano
Received 13-DEC-73 09:57:27

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24a

13-DEC-73 2142-PST TOMAINI: tomaini's initials file
Received 13-DEC-73 21:42:25

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25a

13-DEC-73 2146-PST TOMAINI: fjt directory
Received 13-DEC-73 21:46:00

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26a

14-DEC-73 0617-PST CAVANO: nafcosac icl meeting
cc: tomaini, iurno
Received 14-DEC-73 06:17:28

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CAN WE support a meeting next Tues afternoon -Wed morning with these guys. They have a dynamic rush interest in this and I'm not going to keep them on the hook later than 2:00 today. Please respond to this via a message. Thank You

27a

14-DEC-73 0855-PST NORTON: visit
Received 14-DEC-73 08:55:44

28

Thanks you dear See you another time then

28a

14-DEC-73 2309-PST KENNEDY: motherhood
Received 14-DEC-73 23:09:14

29

So I left the office at about 5:30. Went home, picked up mykid on the way. Did some chores fed the dog took off. Took Pat to Holiday Inn to eat. Decided that she had had enough hamburgers. SO, we had chopped sirloin instead. She was happy because it looked like a hamburger - I was happy because she ate other stuff besides, also I had a martini. We visited the mother in the hospital. Left about 8:45, went shopping for a couple of things, got home about 10:10. Spoke to wife on phone, read a

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couple of papers, watched last 20 minutes of dean martin show. Put Pat to bed, watched news. Put on old movie, 'Passage to Marseilles' figuring pix on ww2 are relaxing by comparison. Broke at about 12:15 to mix up some chicken and some hamburg with shake and bake. At about 1:30 took them out of the oven, set them aside to cool and watched the end of the movie. It's now 2:05, one would figure that after all that attention and love I could at least get laid. But, no dice- you broads have all the luck.

29a

14-DEC-73 2319-PST KENNEDY: wife
cc: tomaini, iurno, stone, panara, cavano, laforge, kennedy
Received 14-DEC-73 23:19:35

30

She's healthy as hell, except for one small problem, her gall bladder. It must come out. Decision point - (she's as physically healthy as can be, she's psychologically at a point where she is ready) do it now, delay 'til after Christmas and then go back to the hospital, wait until she is acutely ill and then go in at some later time, less healthy and under duress, and get it done. Her decision, do it as soon as possible and get it over with. I fully concur and hope i do not ever regret it. What this does to the radc mis, I say, at 2:15 am

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cc: tomaini, iurno, daughtry
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Received 13-DEC-73 21:42:25

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Received 10-DEC-73 12:35:30

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62a

7-DEC-73 1403-PST KENNEDY: afscmis
cc: cavano, stone, panara, iuorno, tomaini, thayer, daughtry,
Received 7-DEC-73 14:03:57

63

- - - - A copy was hand-carried to Gabe's office at 1615. Al Barnum has one and i have one. There are two more copies, one is on JPC's desk and the other Roger has.

63a

28-NOV-73 0706-PST CAVANO: Control Z's
Received 28-NOV-73 07:06:09

64

Bobbie, in your last journal item, re Travel Voucher, you finished the mess with a control Z. This tends to bomb out the Imlacs. Please be more careful... if you put it in accidentally and realize it, you can still delete it like anyother character. But we are all human, right?

64a

28-NOV-73 1248-PST BAIR: Reading Journal Mail -Connect
cc: bair, NORTON, VANNOUHUYS
Received 28-NOV-73 12:49:01

65

Bobbie: No sweat on questions, although Duane might give you faster answers. Yes, the system is set up so that when you connect you will not be notified of Journal Mail in the conncted to dir. So for the time being it will necessary to log in as Tomain to get his mail. It is still beetter to work on his files from a conncted position (logged in as you). Excuse typos, this keyboard doesnt ge along with my fingers... Take care, Jim.

65a

29-NOV-73 0814-PST KENNEDY: copying
Received 29-NOV-73 08:14:10

66

congratulations - now you ain't a virgon anymore. for virgon read virgin. It's been so long I forgot how to spell it. Now that you have inserted it into the right place, you can try manipulating it. Try a reverse sort on it. That will sort from latest to earliest. gpg<user-progs>sort-rev<cr>gsp and give the address followed by a <cr>.

66a

iMessages I have received from Nov up to 18 December 1973

29-NOV-73 1045-PST BAIR: TYCOM
Received 29-NOV-73 10:45:11

67

Please repeat your question about the tycom, I lost it somewhere. What you say about the thing may be true, but we are not at all responsible for the Tycom...that is strictly Duane's baby. Remember thst it is experimentaal, and that the bugs should be worked out. If there is anything that we can do to the computer system to help the the operation of the terminal you have then we will try. Do you understand what I mean? Jim

67a

3-DEC-73 0521-PST BERGSTROM: dm-1 testing for afdsc
cc: tomaini, iuorno, cavano
Received 3-DEC-73 05:21:27

68

On the 28th thry the 30th of nov. we completed the first phase of testing for the afdsc. An environment was created under dm-1 for this user and his catalogs and files were successfully defined. The compilations of his COBOL programs were accomplished but it has become apparent that the afdsc has about 30 patches to their compiler that we don't have. Honeywell is taking steps to make the compilers identical. Work is going to continue on the compiler business and, when completed, the programs will be altered to include dm-1 calls to the files mentioned above. Testing will procede from this point.

68a

4-DEC-73 1329-PST STONE: NLS Utility
cc: mcnamara, tomaini, iuorno, thayer, kennedy
Received 4-DEC-73 13:29:24

69

Jim Norton of SRI informs me that they have the Utility contract in their hands for signing. The Utility itself is in place and programs have been loaded and exercised in a preliminary way over the ARPANET. I expect to have a trial run on it this Thursday of Friday. RADC will be one of the first groups to be moved over to the Utility, since we represent the largest single user group. This means that we may also be acting as a test site for the month of Dec..helping to clean up last minute glitches.

69a

4-DEC-73 1509-PST KENNEDY: Bair report on MTST
cc: tomaini
Received 4-DEC-73 15:09:06

70

Info for Carrier Roc told me that IBM is asking questions about why radc is not buying more word procesing equipment from them especially in view of the favorable report tha was written by Bair. I have been unbale to find a copy of the report in the system and the last tie i looolked at one was lastJanuary? a copy that Mac had. I told ROC tha t the reason we are not buying

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mtst's is because afsc did a study that said they were not cost effective and prohibited any of the labs for having any. For this reason we turned in the ones we had already except for the masis input. Is this correct Please advise. send a message to me and or roc. Bobbie will input it for you.

70a

4-DEC-73 1510-PST KENNEDY: last msg
Received 4-DEC-73 15:10:26

71

forgivee the lousy typing but i am on elog.

71a

5-DEC-73 0702-PST KENNEDY: ejk
cc: iuorno, tomaini, stone
Received 5-DEC-73 07:02:22

72

Im in.!!!!

72a

5-DEC-73 1309-PST : afsc mis prop
cc: kennedy, stone, panara, iuorno, bergstrom, daughtry,
laforge,
Received 5-DEC-73 13:09:28

73

- - - - You will soon be given still another hardcopy of this proposal. I hope you will be able to spend some time with it and treat it with a fresh approach. As well as commenting on the many hanging details, I would like your overall impressions about the points I am trying to make. If you don't realize what these points are, let me know that as well. Thanks...Joe.

73a

5-DEC-73 1355-PST : meet
cc: kennedy, stone, panara, laforge, tomaini, iuorno, lawrence,
Received 5-DEC-73 13:55:45

74

- - - - The due date for getting this prop to Gabe is Fir. It becomes imperative that we get together early Thur ot review the document so that I can make the necessary changes on the system and have a final product. Please give this your immediate attention if at all possible. Joe

74a

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76

Bobbie: No sweat on questions, although Duane might give you faster answers. Yes, the system is set up so that when you connect you will not be notified of Journal Mail in the connected to dir. So for the time being it will be necessary to log in as Tomain to get his mail. It is still better to work on his files from a connected position (logged in as you). Excuse typos, this keyboard doesn't go along with my fingers... Take care, Jim.

76a

29-NOV-73 0814-PST KENNEDY: copying
Received 29-NOV-73 08:14:10

77

congratulations - now you ain't a virgin anymore. for virgin read virgin. It's been so long I forgot how to spell it. Now that you have inserted it into the right place, you can try manipulating it. Try a reverse sort on it. That will sort from latest to earliest. gpg<user-progs>sort-rev<cr>gsp and give the address followed by a <cr>.

77a

29-NOV-73 1045-PST BAIR: TYCOM
Received 29-NOV-73 10:45:11

78

Please repeat your question about the tycom, I lost it somewhere. What you say about the thing may be true, but we are not at all responsible for the Tycom...that is strictly Duane's baby. Remember that it is experimental, and that the bugs should be worked out. If there is anything that we can do to the computer system to help the operation of the terminal you have then we will try. Do you understand what I mean? Jim

78a

3-DEC-73 0521-PST BERGSTROM: dm-1 testing for afdsc
cc: tomaini, iuorno, cavano
Received 3-DEC-73 05:21:27

79

On the 28th thru the 30th of nov. we completed the first phase of testing for the afdsc. An environment was created under dm-1 for this user and his catalogs and files were successfully defined. The compilations of his COBOL programs were accomplished but it has become apparent that the afdsc has about 30 patches to their compiler that we don't have. Honeywell is taking steps to make the compilers identical. Work is going to continue on the compiler business and, when completed, the programs will be altered to include dm-1 calls to the files mentioned above. Testing will proceed from this point.

79a

4-DEC-73 1329-PST STONE: NLS Utility

iMessages I have received from Nov up to 18 December 1973

cc: mcnamara, tomaini, iuorno, thayer, Kennedy
Received 4-DEC-73 13:29:24

80

Jim Norton of SRI informs me that they have the Utility contract in their hands for signing. The Utility itself is in place and programs have been loaded and exercised in a preliminary way over the ARPANET. I expect to have a trial run on it this Thursday of Friday. RADG will be one of the first groups to be moved over to the Utility, since we represent the largest single user group. This means that we may also be acting as a test site for the month of Dec..helping to clean up last minute glitches.

80a

4-DEC-73 1509-PST KENNEDY: Bair report on MTST
cc: tomaini
Received 4-DEC-73 15:09:06

81

Info for Carrier Roc told me that IBM is asking questions about why radc is not buying more word processing equipment from them especially in view of the favorable report tha was written by Bair. I have been unbale to find a copy of the report in the system and the last tie i looloked at one was lastJanuary. a copy that Mac had. I told ROC tha t the reason we are not buying mtst's is because afsc did a study that said they were not cost effeectiveand prohibited any of the labs for having any. For this reason we turned in the ones we had already except forthe masis input. Is this correct Please advise. send a message to me and or roc. Bobbie willl input it for you.

81a

4-DEC-73 1510-PST KENNEDY: last msg
Received 4-DEC-73 15:10:26

82

forgivee the lousy typing but i am on elog.

82a

5-DEC-73 0702-PST KENNEDY: ejk
cc: iuorno, tomaini, stone
Received 5-DEC-73 07:02:22

83

Im in!!!!

83a

28-NOV-73 0706-PST CAVANO: Control Z's
Received 28-NOV-73 07:06:09

84

Bobbie, in your last journal item, re Travel Voucher, you finished the mess with a control Z. This tends to bomb out the Imlacs. Please be more careful... if you put it in accidently and realize it, you can still delete it like anyother character. But we are all human, right?

84a

28-NOV-73 1248-PST BAIR: Reading Journal Mail -Connect

iMessages I have received from Nov up to 18 December 1973

cc: bair, NORTON, VANNOUHUYS
Received 28-NOV-73 12:49:01

85

Bobbie: No sweat on questions, although Duane might give you faster answers. Yes, the system is set up so that when you connect you will not be notified of Journal Mail in the connected to dir. So for the time being it will necessary to log in as Tomain to get his mail. It is still better to work on his files from a connected position (logged in as you). Excuse typos, this keyboard doesnt ge along with my fingers... Take care, Jim.

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cc: bair, NORTON, VANNOUHUYS
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iMessages I have received from Nov up to 18 December 1973

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89a

23-NOV-73 1035-PST KENNEDY: heatfrom agatha
cc: thayer
Received 23-NOV-73 10:35:42

90

is it still cold in your placd. it looks like it willbe a losing battle for we girlswho are really "cOLD" the thermostate in my office reads 69 degrees. I told col thayer that it could be. his reply was "that that temperature is corredct." now about that.

90a

26-NOV-73 1320-PST KENNEDY: throat
Received 26-NOV-73 13:20:13

91

How is your throat? The rest of you looks good. How is your directory coming? need any help??

91a

27-NOV-73 1214-PST KENNEDY: journal
Received 27-NOV-73 12:14:51

92

When you send out these general info things, ie. the one on not handcarrying vouchers ddo you address them to RADC or to the individuals concerned. Do you know that when you send journal mail addressed to individuals you can insert private comments to any or all of them, by inserting the comment immediately after their initials enclosing the comment in parantheses. If you knew all that why did you let me waste my time sending you messages?

92a

28-NOV-73 0504-PST BERGSTROM: Travel Vouchers.
Received 28-NOV-73 05:04:08

93

Can't travel vouchers be hand carried after passing thru the Branch office? The inordinate delays encountered with normal channels are unreasonable.

93a

20-NOV-73 1212-PST CARRIER:
cc: kennedy
Received 20-NOV-73 12:12:07

94

help

94a

21-NOV-73 0305-PST STONE: Happiness is a ..directory of your own
Received 21-NOV-73 03:05:14

95

So glad your so glad. So sorry I missed you when you were in the hugging mood. Any body can get a directory if the're pretty

iMessages I have received from Nov up to 18 December 1973

enough and bitch long enough..Welcome aboard! I see you've been using it a lot already. 95a

21-NOV-73 0644-PST CAVANO:
Received 21-NOV-73 06:44:20 96
96a

21-NOV-73 0848-PST PETERS: ARCHIVE RETRIEVAL REQUEST
Received 21-NOV-73 08:48:08 97
97a

<JJOURNAL>19302.NLS;1 IS BACK ONLINE. 97a

20-NOV-73 1212-PST CARRIER:
cc: kennedy
Received 20-NOV-73 12:12:07 98

23-NOV-73 1035-PST KENNEDY: heatfrom agatha
cc: thayer
Received 23-NOV-73 10:35:42 99

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26-NOV-73 1320-PST KENNEDY: throat
Received 26-NOV-73 13:20:13 100

How is your throat? The rest of you looks good. How is your directory coming? need any help?? 100a

23-NOV-73 1035-PST KENNEDY: heatfrom agatha
cc: thayer
Received 23-NOV-73 10:35:42 101

is it still cold in your placd. it looks like it willbe a losing battle for we girlswho are really "cOLD" the thermostate in my office reads 69 degrees. I told col thayer that it could be. his reply was "that that termperture is corredct." how about that. 101a

iMessages I have received from Nov up to 18 December 1973

(J21037) 20-DEC-73 06:43; Title: Author(s): Roberta J. Carrier/RJC;
Distribution: /RJC; Sub-Collections: NIC; Clerk: RJC;

Tomaini's journal mail from Jun 73 up through Oct 73

(roct)

(AAM)	1-OCT-73 10:50 19383	Network Software Maintenance	1
	(JJOURNAL, 19383, 1:w)		1a
(ARCG)	5-OCT-73 11:19 19531		1b
	(KJOURNAL, 19531, 1:w)		
(ARCG)	5-OCT-73 12:19 19533	Data for EMB NEWS BRIEF and	1c
	Personnel	Reports	
	(KJOURNAL, 19533, 1:w)		
(ARCG)	10-OCT-73 05:47 19588	Seminar	1d
	(LJOURNAL, 19588, 1:w)		
(DLS)	5-OCT-73 07:06 19521	More or Renamed Directories for RADG	1e
	(KJOURNAL, 19521, 1:w)		
(DLS)	11-OCT-73 12:25 19611	TPO-11 (11 OCT 73)	1f
	(LJOURNAL, 19611, 1:w)		
(DLS)	23-OCT-73 08:05 19824	form30	1g
	(LJOURNAL, 19824, 1:w)		
(DVN)	17-OCT-73 21:55 19749	Next Week a Mysterious File Will	1h
	Appear	In Your Directory if You Use DNLS	
	(LJOURNAL, 19749, 1:w)		
(EJK)	11-OCT-73 13:25 19616	AKW System Inputting	1i

Message: Mrs. Cafarelli has progressed to the point where she can input the system with reasonable proficiency. This I define as being better than many of us males. You may have noticed that yesterday and today I was logged into the system quite a bit. Most of that was really her? She has been inputting quite a few things, some of which will appear in the tickler file as links. For example, when the tickler shows that the R & T Selection of the month is due, moving to the link in that statement will give you the latest instructions on what is appropriate for consideration and the format in which it should be submitted. Anne, however, is not my personal inputter she is available for any sizeable inputting jobs you may have. Please contact me if you have an inputting job, or if you have any questions.

1i1

(EJK)	12-OCT-73 12:26 19637	Borden's Report-Status of AHI	1j
	(LJOURNAL, 19637, 1:w)	Implementation	

Tomaini's journal mail from Jun 73 up through Oct 73

(EJK) 19-OCT-73 10:23 19776 ARPA Directory lk
(LJOURNAL, 19776, 1:w)

(EJK) 23-OCT-73 15:14 19834 AFSC Visitor ll
(LJOURNAL, 19834, 1:w)

(EJK) 26-OCT-73 11:20 19873 borden letter to kennedy lm
(LJOURNAL, 19873, 1:w)

(JLM) 9-OCT-73 07:13 19570 iin house studt outline ln
(KJOURNAL, 19570, 1:w)

Comments: This is a outline of the job required on the Multi processing area. The study includes a pitch down here which has to be given to parts of the pnaeel no later than 1 Dec I will worl out the details with whoever is chosen as the guy or guys ln1

(JLM) 9-OCT-73 07:17 19571 isadpr85 Study lo
(KJOURNAL, 19571, 1:w)

Comments: This is the current plan of the study I will keep sending you a new version of the plan as things progress lol

(TFL) 11-OCT-73 08:07 19604 AHI PRINTER-A MESSAGE TO USERS lp
(LJOURNAL, 19604, 1:w)

(TFL) 31-OCT-73 07:40 19975 MESSAGE TO RADG AKW PRINTER USERS-31 lq
(LJOURNAL, 19975, 1:w) OCT '73

(TFL) 31-OCT-73 12:39 19978 AKW PRINTER MESSAGE-AN UPDATE lr
(LJOURNAL, 19978, 1:w)

(WPB) 9-OCT-73 06:16 19566 WWMCCS study team briefing ls

Message: Mr Robert Walker will breif the WWMCCS Software Team #3 on 10 October (Wednesday) on the procedures necessary to load WWMCCS software on the H635. The current team is investigating JTSA release 3.1 and expect to load JTSA release 4.0 when it is available. All persons interested in attending the briefing should see Mr Walker for exact time and place. ls1

(WPB) 19-OCT-73 05:07 19766 I-D-S in the RADCMIS lt

Message: There is a file entitled <bethke>radcmis that you should read in your spare time. I have a hard copy if you desire it. Also you may attempt to print <bethke>ppmis.1;1, that way you get your own hard copy or "hard" he-he-he. Note .. the file is not repeat not complete. lt1

Tomaini's journal mail from Jun 73 up through Oct 73

DLS 19-OCT-73 07:50 19770
 Response to (19743,) NLS Crunch
 Location: (LJOURNAL, 19770, 1:w)

1u

(rsep)

2

(AAM) 17-SEP-73 05:52 19104 Scheduled Software Release

2a

Message: This is a reminder that Network software Maintenance is scheduled between the hours of 0700 and 0900 (Eastern Time) on Tuesday, 18 September 1973. Although software releases are checked out as much as possible in the BBN test cell, there are sometimes problems of scale which are not detected until after a release; hence there is a small but finite possibility that the software will be troublesome for a few hours after the scheduled release.

Sincerely,
 Alex McKenzie (for the Network Control Center)

2a1

(AAM) 24-SEP-73 06:20 19262 Scheduled Software Release

2b

Message: This is a reminder that Network Software Maintenance is scheduled between the hours of 0700 and 0900 (Eastern Time) on Tuesday, 25 September 1973. Although software releases are checked out as much as possible in the BBN test cell, there are sometimes problems of scale which are not detected until after a release; hence there is a small but finite possibility that the software will be troublesome for a few hours after the scheduled release.

Sincerely,
 Alex McKenzie (for the Network Control Center)

2b1

(DLS) 4-SEP-73 07:36 18803 Tickler

2c

Message: Ref (mjournal,18780,) from Rog P on tickler...The date of the last file change is automatically created in the Origin statement. Maybe this should be printed out with the rest of the file. Explicitly adding the date to the first statement, flagging new statements with the (*), and then deleting the flag seems a round-about way of indicating new items. The K viewspec may also be used to indicate the exact date, time and last changer of each statement. The two week or greater timeperiod for the tickler may be a good idea, if it is not clouded by the standard garbage. It might be better to have the last statement(s) reserved for emphasizing important one-of-a-kind items.

2c1

Tomaini's journal mail from Jun 73 up through Oct 73

(DLS) 13-SEP-73 09:30 19057 Access to On-Line Userguides 2d
(JJOURNAL, 19057, 1:w)

Comments: For Mac..and anyone else who might be
interested..There are a lot of goodies in the system you might
want to read about/try. 2d1

(DLS) 17-SEP-73 09:50 19109 Progress?? with TYCOM 2e
(JJOURNAL, 19109, 1:w)

(EJK) 4-SEP-73 14:57 18808 Note on woman versus machine 2f
(MJOURNAL, 18808, 1:w)

(EJK) 7-SEP-73 06:46 18842 lost execuport 2g

Message: Somewhere between 1830 on 6 Aug and 0830 on 7 Aug an
Execuport was borrowed(hopefully) from the office where Cap
daughtry resides. Does anyone have any information. Please
advise him or me before we call in the CID. 2g1

(EJK) 12-SEP-73 07:26 18991 note to jlm - sadpr-85 2h
(JJOURNAL, 18991, 1:w)

(EJK) 12-SEP-73 07:40 18994 RADC MIS Plan 2i

Message: Just rec'd a request from FJT. He wants a first -cut
proposal from us for a Center MIS? The whole cluge: contracts,
equipment, training, organization of info and data base, cost,
schedule and what have you. He knows that the statement has
already been made that there is no loot available but
apparently they want to spell out specifically what they do't
want to pay for. In any event I feel that jus tperhaps this
might be used as the basis for really selling a MIS. At least
we can give them the chance to put their money where their
mouth(s) are. I must give Frank a date for when the plan can
be pitched. Due Friday. HOHOHOHO! 2i1

Comments: Your views are urgently solicited. For the
mezzaliterati -HELP!!!! 2i2

(EJK) 14-SEP-73 07:35 19076 Directions for r&t selection of the 2j
(JJOURNAL, 19076, 1:w) month

(EJK) 20-SEP-73 15:06 19155 Draft Job Description Para 2k
(JJOURNAL, 19155, 1:w)

(EJK) 25-SEP-73 13:20 19298 RADCMIS 2l

Message: I have received various messages and info on files

Tomaini's journal mail from Jun 73 up through Oct 73

from several people involved in the radcmis plan. I offer no comment at this time since I have a lot of reading and thinking to do. I do think that any routine correspondence on this topic should be sent to everyone concerned. This includes fjt & jlm. Private correspondence is of course encouraged, but results of caucuses etc. should be made available to all of us. I suggest another meeting on 28 Sep at 1000, in your office this time. Items for an agenda should be submitted to the <stone>radcmis file which is open. Hopefully this meeting will provide additional guidance to reduce anxiety levels.

21l

(JLM) 4-SEP-73 06:26 18802

2m

Message: Has any one heard of a set of reports done by a firm called Frost & Sullivan? I got a call from Major Zarra at esd and they have been referred to these reports as a excellent summary of the sota in daa procesing but they are quite expensive and he is hoping that we might have a set. They sound like they are simalar to the ones done by Auerabach. I have to call him back by wed. Send me a message if you have heard of them or know there where abouts.

2ml

(JLM) 11-SEP-73 18:23 18987
(JJOURNAL, 18987, 1:w)

2n

Comments: man i have finally got this to a few peopple i quit

2nl

(JLM) 19-SEP-73 13:35 19151 sadpr85 notes
(JJOURNAL, 19151, 1:w)

2o

(JLM) 20-SEP-73 09:25 19132
(JJOURNAL, 19132, 1:w)

2p

(JLM) 21-SEP-73 07:16 19176 iproject admin
(JJOURNAL, 19176, 1:w)

2q

Comments: this is notes from a meet or presentation made by F Allen thought they might be of some interest

2q1

(JPC) 8-SEP-73 10:36 18953 Stripping...statement names only

2r

Message: Statement names may be stripped off simply by using the appropriate viewspec...D... Bobbie uses this practise when she prints out the tickler file already so I dont think it is much of a problem.

2r1

(RBP) 14-SEP-73 11:37 19082 Notes on AFSC Visit
(JJOURNAL, 19082, 1:w)

2s

Tomaini's journal mail from Jun 73 up through Oct 73

(TFL) 28-SEP-73 07:22 19357 AHI LINE PRINTER - A MESSAGE TO
USERS

(JJOURNAL, 19357, 1:w)

2t

(WPB) 13-SEP-73 14:12 19063

2u

Message: major vargosko, project officer for the WWMCCS ADP users Group conference, has arranged for twin cc accomodations at the ARVA motel 26 thru no, 24 thru 26 sept Wash DC for d. daughtry and one other (d. Robinson). Conference agenda has been sent to all on WWMCCS mailing list.

2u1

(WPB) 14-SEP-73 05:58 19073 WWMCCS Training

2v

Message: The Honeywell course 620 (6000 system software) along with other pre-requisites is a "must" before anyone is accepted to the 630 course (6000 GCOS analysis). 620 is a five day course. At least, 630 should be taken by members of the WWMCCS study group. Therefore, I propose that a 620 course be set up here at RADG for the following personnel and any other interested party in RADG. Attendance must be "required". The people are: Rzepka, Daughtry, Robinson, Vanalstine, Lamonica, Dinitto, Vito, Mott. Otherwise, we must arrange for individual attendance at some WWMCCS sponsored course where TDY is necessary.....Dave Daughtry.

2v1

(WPB) 14-SEP-73 06:05 19074 WWMCCS Training/630 course

2w

Message: Of ten qualified people notified to attend meeting to discuss volunteers to attend 630 course (6000 GCOS analysis) at Mclean on November 5th only three (3) showed. They were Calicchia, Mark, and Mclean. I will submit the names of two people most likely to be heavily involved with WWMCCS for the course at a later date.. by Monday at the latest....Capt Daughtry.

2w1

(WPB) 17-SEP-73 07:27 19105
(JJOURNAL, 19105, 1:w)

2x

(WPB) 17-SEP-73 07:46 19107

2y

Message: The persons listed below are recommended to attend the Honeywell course 6330 (GCOS analysis) at Mclean Va on Nov 5th thru Nov 16th. They are suggested due to their prior experience with GCOS. It is anticipated that these individuals will serve as instructors/trainers for other ISI personnel involved in WWMCCS tasks: Primary 1. Trad, David F. 2. Liuzzi, Raymond Alternates 1. Mark, Donald 2. Cavano, Joseph signed Capt Daughtry / 17 Sept 73

2y1

Tomaini's journal mail from Jun 73 up through Oct 73

(WRF) 14-SEP-73 08:44 19078 Monitor Work for Next Few Weeks

2Z

Message: For the next few weeks, Jim Blum and I will be working on assembling and testing the TENEX monitor for the Tymshare utility. Our work is going to require some amount of system downtime. I realize that this may pose an inconvenience to some of you, but please bear with us. In an attempt to allow you to arrange your schedules, I will keep the UP-DOWN schedule current. If you have any large jobs which will require the system at night, feel free to tell me, and we will negotiate the schedule.

2Z1

(raug)

3

(AAM) 20-AUG-73 09:03 18507 Network Software Maintenance

3a

Message: This is a reminder that Network Software Maintenance is scheduled between the hours of 0700 and 0900 (Eastern Time) tomorrow, Tuesday 21 August 1973. Although software releases are checked out as much as possible in the BBN test cell, there are sometimes problems of scale which are not detected until after a release; hence the Network MAY be shakey for a few hours after the scheduled release.

Sincerely,

Alex McKenzie (for the Network Control Center)

3a1

(AAM) 30-AUG-73 14:32 18728 Scheduled Software Maintenance
(MJOURNAL, 18728, 1:w)

3b

(DLS) 10-AUG-73 06:08 18348 RADC USER STATISTICS--JAN 73-JUL 73
(MJOURNAL, 18348, 1:w)

3c

(DLS) 20-AUG-73 12:02 18510 SOFTWARE SCIENCES TECHNOLOGY TPO-11
(MJOURNAL, 18510, 1:w)

3 D

(DLS) 22-AUG-73 11:34 18616 form30
(MJOURNAL, 18616, 1:w)

3e

(DLS) 23-AUG-73 09:22 18620 TPO 11-FINAL FORMAT
(MJOURNAL, 18620, 1:w)

3f

Comments: This is reformatted TPO 11, according to the official format..took about an hour to redo, which is equivalent to a retyping job.

3f1

(DLS) 28-AUG-73 15:35 18697 Form 30 for FY-74/75 Program Call
(MJOURNAL, 18697, 1:w)

3g

Comments: Bobbie--I need the space

3g1

Tomaini's journal mail from Jun 73 up through Oct 73

(DLS) 30-AUG-73 14:08 18726 AKW Group Meeting..Status and Problems
(MJOURNAL, 18726, 1:w) of Project 3h

(EJK) 9-AUG-73 13:11 18337 pitch preparation 3i

Message: i am creating a file called pitch in it i am putting in little goodies that might beuseful in putting together the pit h for the steering group take a lodk at any time. any inputs will be selocomed. 3i1

(EJK) 24-AUG-73 11:14 18645 info on phone numbers
(MJOURNAL, 18645, 1:w) 3j

(EJK) 28-AUG-73 10:47 18691 quickie comments on Cavano's thoughts
(MJOURNAL, 18691, 1:w) on the Tickler file 3k

(EJK) 30-AUG-73 07:58 18716 Jim Bair's finale 3l

Message: capt Bair will be making a summary and status report on his findings in the evaluation to-date. Mac' office 1500 30 Aug. Too bad if you don't log in and get your mail - you missed it. 3l1

(EJK) 30-AUG-73 10:01 18718 Access to NLS 3m

Message: At this time RADC has a quota of 2 and I am the only one on. If you have difficulty getting on the machine try between 1200 and 1300. No sweat. 3m1

(EJK) 30-AUG-73 12:12 18723 Emergency - delete bad message 3n

Message: Please delete the message relating to Jim Bairs Finale - summary & status report. This message has a control-shift z in it which causes the IMLAG to crash- immediately. Therefore the deletion shoul be made on an Execuport. Sorry about that neighbors. 3n1

(FJT) 17-AUG-73 06:00 18485 tickler for week of 20 August
(MJOURNAL, 18485, 1:w) 3o

(JEW) 9-AUG-73 13:55 18338 Ident Confusion Reported by BBN-TENEX
(MJOURNAL, 18338, 1:w) 3p

(JHB) 10-AUG-73 13:22 18362 What to do in case of trouble with the TIP or printer. 3q

Tomaini's journal mail from Jun 73 up through Oct 73

Message: An SOP has been set up with Capt. Stinson to be used in case of trouble with either the printer or the TIP: CALL the Facility secretary, Mrs. Rossi, at ext. 7009 and report the problem. It has been agreed that she will then notify Jim Moran, et. al., who will then correct the problem.

3q1

(JHB) 20-AUG-73 05:42 18498 Net Reloading effect on users --
(MJOURNAL, 18498, 1:w) suggestions.

3r

Comments: RADC: For your information. (guiea = guinea)

3r1

(JHB) 24-AUG-73 06:37 18631 Silent Connections to Host 2
(MJOURNAL, 18631, 1:w)

3s

Comments: This 2 pp document represents an attempt to deal with some of the problems we have been having at RADC getting into Host 2.

3s1

(JHB) 29-AUG-73 11:23 18703 Net Host Connection Problems --
continued.

3t

Message: The following is BBN's (Neigus) response to SRI's comment (18642,) about the continuing problem of broken and silent connections.

Thanks for your pointer to ILA's message (journal,17838,). It does make sense but is not related to the problem Bair is experiencing. When the load average is high, the NCP is slow to respond to incoming RFC's (requests for connection). The TIP has a timeout of about 30 seconds (to receive a response to the RFC) and if it doesn't come by then, it times out and aborts the login attempt. Most hosts have longer timeout periods in their user Telnets, and the connection attempt is often successful there. The TIP timeout is sufficient for most hosts at most times, but a high load average on a TENEX can cause trouble. One way to get around this on a tip is to do a series of login attempts in a row, until one matches.

--Nancy

3t1

Comments: For your information -- edification.

3t2

(JLM) 20-AUG-73 13:36 18514 largescaleinformationsystems
(MJOURNAL, 18514, 1:w)

3u

(JLM) 29-AUG-73 11:29 18704
(MJOURNAL, 18704, 1:w)

3v

Comments: This is the prop as it now stands .In view of my ESD bit, though i have decided to be proactical and live in clinton, we should get together and make a cut.

3v1

Tomaini's journal mail from Jun 73 up through Oct 73

(JPC) 20-AUG-73 12:56 18512 Meeting Notes on Jocas Cost
Estimating
(MJOURNAL, 18512, 1:w) 3w

(JPC) 27-AUG-73 08:12 18673 Some Thoughts on Usage of our
Tickler
(MJOURNAL, 18673, 1:w) File 3x

Comments: I see some problems with our current use of some of
our systems. Although this is not a definite solution paper it
is intnended to provoke the thoughts of others (hopefully). 3x1

(JPC) 28-AUG-73 06:52 18686 Some Thoughts on the Use of the
Tickler
(MJOURNAL, 18686, 1:w) File 3y

Comments: I would like to know what you think on our use of
these systems. 3y1

(RBP) 31-AUG-73 11:27 18780 comments on tickler file system
(MJOURNAL, 18780, 1:w) 3z

(TFL) 2-AUG-73 09:06 18164 travel duty report, ejk & dls to bbn
-
(LJOURNAL, 18164, 1:w) jul 30,31 '73. 3a@

(rjul) 4

(***) 23-JUL-73 13:30 17980
[From: DLD2 DLD2] 4a

Message: the ids data base has been expanded to handle the
data related to travel in the division or branch. this
expansion was accomplished as of six july. all that is needed
is data to load and an interested user.....signed dave
daughtry. 4a1

(DLD2) 24-JUL-73 14:07 17992 4b

Message: mr enen towmes of esd (sco for wwmccs contract)
has informed me that he is now amending the wwmccs contract to
call for subsequent wwmccs software releases to be sent to
radc...mr townes will send a copy of the amendment to radc/is
attn capt daughtry....he says further that the amendment
probably won't be effective until end of august....signed dave
daughtry. 4b1

(DLS) 27-JUL-73 14:01 18046 NLS Login Procedures (slanted

Tomaini's journal mail from Jun 73 up through Oct 73

toward
 (LJOURNAL, 18046, 1:w) terminet-300 4c

Comments: If you can get this printed out all by yourself,
 you're half way there. 4c1

(EJK) 19-JUL-73 08:17 17885 untitled 4d

Message: uncritical comment, we'll miss you when you're gone -
 but not too much.
 *****Note: this is a test, and the message is for bair***** 4d1

(EJK) 19-JUL-73 14:46 17933 reply to critical comment. 4e

Message: anonymous critical comments are a bit gauche. 4e1

(EJK) 23-JUL-73 13:38 17981 info on ejk group 4f
 (LJOURNAL, 17981, 1:w)

(JHB) 24-JUL-73 18:31 17997 Criteria for the Performance of the
 (LJOURNAL, 17997, 1:w) Organization, RADG Established by
 the Management 4g

Comments: These results are submitted to management for their
 revision, concurrence, ments, rejection, etc. No response will
 be taken as complete concurrence. Thank you. 4g1

(JLM) 13-JUL-73 12:02 17785 TPO Brief 4h
 (KJOURNAL, 17785, 1:w)

(JPC) 19-JUL-73 11:09 17889 SPECIAL NOTICE 4i

Message: There will be an informal luncheon this Friday at JJ's
 on Floyd AV in honor of Frank Sliwa. Everyone is welcome to
 attend! 4i1

Comments: Pay as you go!! 4i2

(JPC) 19-JUL-73 12:40 17890 More on the TICKLER file 4j
 (LJOURNAL, 17890, 1:w)

(RHT2) 17-JUL-73 14:56 17849 SOFT WARE RELIABILITY PAPER 4k

Message: Idneed a paper on software reliability to give to the
 group at woods hole. 4k1

(TFL) 18-JUL-73 14:14 17872 4l

Tomaini's journal mail from Jun 73 up through Oct 73

Message: this is a test message to see if DVN has fixed the
Journal distribution to groups...If he has this should go to
all people listed under the group ident RADC

411

(WPB) 20-JUL-73 08:22 17946 bethke directory

4m

Message: subject..bethke file user.. capt daughtry shares
this file with the esteemed chief..ex-chief that is..submit
messages with appropriate attention comments..thank you. dave.

4m1

(rjun)

5

(JHB) 21-JUN-73 05:58 17385

5a

Message: This a test of the Journal system! Welcome on board!

5a1

Tomaini's journal mail from Jun 73 up through Oct 73

(J21038) 20-DEC-73 08:02; Title: Author(s): Roberta J. Carrier/RJC;
Distribution: /; Sub-Collections: NIC; Clerk: RJC;

Comments on the New Command Language

● Anyone who is using the new command language should read this

Comments on the New Command Language

Comments about the new command language have been pouring in and I would like to encourage everyone to continue recording their thoughts about this by using the ident NEWNLS or sndmsg to Lee. 1

Unless your problem is extremely urgent there is no need to distribute your comment to programmers as well because Charles or someone will review the comments once a week. 2

It is hoped that a feedback loop will result so you will know the status of a request you have made. 3

All comments are in (analysis,nnls,) and you're welcome to browse. If there are any questions or problems with this, let me know. 4

Comments on the New Command Language

(J21039) 20-DEC-73 09:12; Title: Author(s): Susan R. Lee/SRL;
Distribution: /SRI-ARC; Sub-Collections: SRI-ARC; Clerk: SRL;
Origin: <LEE>BLAP.NLS;1, 20-DEC-73 09:07 SRL ;

Schedule for Documentation group allocation

NDM Mon-Fri: 1:00-5:00
KIRK Tue: 8:00-10:00 Fri: 8:00-11:00
JMB The rest

Schedule for Documentation group allocation

(J21040) 20-DEC-73 10:07; Title: Author(s): Kirk E. Kelley/KIRK;
Distribution: /DVN JCN JMB NDM; Sub-Collections: SRI-ARC; Clerk: KIRK;

msg to MLK

Concerning the organization entry that you wrote me about. Go ahead and delete it. It shouldn't be there... Thanks for letting me nknow. Eric Decker (ebd)

msg to MLK

(J21041) 20-DEC-73 12:59; Title: Author(s): Eric Bryant Decker/EBD;
Distribution: /MLK; Sub-Collections: NIC; Clerk: EBD;