

NIC 7104, the Protocol Notebook

Dear Jeanne and Marcia,

I just received the July 13 update to NIC 7104, and it reminds me that RFCs #381 and #394 no longer belong in the "IMP-HOST PROTOCOL" section. therefore, the next time the notebook is updated, please tell people to throw those two entries away. On the other hand, until BBN Report No. 1822 is next updated, that section SHOULD contain RFC # 533

Regards,

Alex McKenzie

NIC 7104, the Protocol Notebook

(J17977) 23-JUL-73 12:45; Title: Author(s): Alex A. McKenzie/AAM;
Distribution: /JBN MLK; Sub-Collections: NIC; Clerk: AAM;

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.

1

(J17980) 23-JUL-73 13:30; Title: Author(s): David L. Daughtry,
David L. Daughtry/DLD2 DLD2; Distribution: /FJT; Sub-Collections: NIC;
Clerk: WPB;

info on ejk group

personnel		
ejk	1.0	1
elf	0.6	1a
rbp	0.7	1b
dls	1.0	1c
jpc	1.0	1d
maw	0.3	1e
		1f
		1g
TOTAL	4.6	1h

job	ejk	elf	rbp	dls	jpc	maw	TOTAL	
AKW eval.				.1			.1	2a
line printer						.1	.1	2b
NLS service				.1			.1	2c
Terminals		.1		.1		.2	.4	2d
NLS/IDS	.3		.3		.5		1.1	2e
Training	.2						.2	2f
Adv Manag Tech			.3	.1	.4		.8	2g
AKW Eval	.3	.4		.4			1.1	2h
*****								2i
NIC/ARC 0927	.1	.1	.1	.1	.1		.5	2j
Data sup A/S 9339	.1			.1			.2	2k
								2l
TOTALS	1.0	.6	.7	1.0	1.0	.3	4.6	2m

info on ejk group

(J17981) 23-JUL-73 13:38; Title: Author(s): Edmund J. Kennedy/EJK;
Distribution: /EJK JLM FJT(for bucciero); Sub-Collections: RADC; Clerk:
EJK;
Origin: <KENNEDY>GROUP.NLS;1, 23-JUL-73 13:36 EJK ;

a meeting has been set up during the period one thru three august with mrrs caral giammo of the joint technical support agency and several contractors doing work related to pertinent jtsa efforts...the contractors are sdc, prc, and sai...project monitors are iourno, daughtry, and wingfield respectively..purpose of the meeting is to brief synopsis of jtsa efforts to giammo and introduce giammo to daughtry.....signed .. dave daughtry.

1

(J17982) 23-JUL-73 13:38; Title: Author(s): David L. Daughtry/DLD2;
Distribution: /JLM; Sub-Collections: NIC; Clerk: WPB;

Invalid Username

While looking through the identfile I found that you have an invalid username. This is because you have specified your delivery as online, while you do not yet have your own or someone elses directory in which to receive online journal mail. I suggest you talk to the Liaison at CASE-10, Patrick Foulk about getting a directory or using the groups directory, or however they work such things at your site. In the meantime I have changed your delivery to "hardcopy" so that you'll be sure to receive mail sent to you till you have your user. Marcia keeney, Station Agent, Network Information Center.

1

Invalid Username

(J17983) 23-JUL-73 14:48; Title: Author(s): Marcia Lynn Keeney/MLK;
Distribution: /TLB; Sub-Collections: SRI-ARC; Clerk: MLK;

Why your Ident File entry was changed

Dave-- Marcia gave you NETWORK Journal delivery at my request. On 18-JUN you responded via SNDMSG to my RFC soliciting requests for NETWORK delivery. You specified host and mailbox information; your ident file entry was updated accordingly. Did I misread your SNDMSG?
--Jim

1

Why your Ident File entry was changed

(J17984) 23-JUL-73 15:51; Title: Author(s): James E. (Jim)
White/JEW; Distribution: /DHC; Sub-Collections: SRI-ARC; Clerk: JEW;

re: IMNLS for SDAC

```
Ken: here's the branch, plus associated definition of "sdac":      1
sdac=13; %SDAC-Tip Imlac%                                         1a
ELSE IF OPTION site=sdac THEN CONSTANT                             1b
    intco=1, intkbd=1, inttr=1,                                     1b1
    armwd=72B, iogear=0, tablet=0, lvh=1,                          1b2
    serint=0, parchk=0, dpage=1B4,                                  1b3
    lcht=1240B, keybd=stdkbd, loader=17640B,                       1b4
    ldfmt=4                                                         1b5
Thanks...Buz                                                       2
```

re: IMNLS for SDAC

(J17985) 23-JUL-73 15:52; Title: Author(s): A. D. (Buz) Owen/ADO;
Distribution: /KEV; Sub-Collections: NIC; Clerk: ADO;

Question about DEC's weekly PM

Our processor problems at the end of last week raises an important question about the thoroughness of DEC's weekly PM. We experienced consistant difficulty starting Wednesday evening at 6:00 PM through Thursday and Friday until the trouble was diagnosed. Unless this was one of those wierd ones that went away by restarting the machine, DEC's diagnostics should have detected the problem during one of their two PM periods.

1

Question about DEC's weekly PM

(J17986) 23-JUL-73 16:07; Title: Author(s): J. D. Hopper/JDH;
Distribution: /JCN WRF MEH; Sub-Collections: SRI-ARC; Clerk: JDH;

NIC-query

Could you add me to the NIC-QUERY interest group?

1

NIC-query

(J17987) 23-JUL-73 19:43; Title: Author(s): Kirk E. Kelley/KIRK;
Distribution: /JAKE; Sub-Collections: SRI-ARC; Clerk: KIRK;

17988 Distribution
Marcia Lynn Keeney,

network mailbox

please use O'SULLIVAN at isi for my netmail ,thanks.

TO 24-JUL-73 07:58 17988

network mailbox

(J17988) 24-JUL-73 07:58; Title: Author(s): Thomas O'Sullivan/TO;
Distribution: /MLK; Sub-Collections: NIC; Clerk: TO;

Recent NGG meeting minutes are available

I have prepared minutes for the NGG meeting. They are in
<DMCG-MIT>NGGMIN Please edit them as you see fit. I plan to submit
the minutes as an RFC on Friday Aug 3 if I don't hear howls from you.
Since that is a week and a half from now, you should get this in
time. You may know I can be reached at JCM@DMCG when the system is
up. phone 617-253-1430.

1

17989 Distribution

Ira W. Cotton, Elaine L. Thomas,

Recent NGG meeting minutes are available

(J17989) 24-JUL-73 08:44; Title: Author(s): James C. Michener/JCM;
Distribution: /IWC ELT; Sub-Collections: NIC; Obsoletes Document(s): ;
Clerk: JCM;

Three week Preview

- (jfourth) 1
- (jm4) 1a
- (jt4) 1b
- (jw4) 1c
- Nelson/McNamara dry runs 1300 for Col T - Program call 1c1
- Laboratory Activity Reports are due tomorrow. 1c2
- (jth4) 1d
- Nelson/McNamara center program review - all morning 1d1
- Laboratory Activity Reports due today: Bucciero must have them by 1000, ISM must have them by 1100, and DOT must have them by 1600. 1d2
- (jf4) 1e
- For TB and Bobbie only - Submit travel figures to ISM/Aggie by 1200 hrs. 1e1
- (jfifth) 2
- (jm5) 2a
- (jt5) 2b
- form 2's (jemployee time expenditures) are due today. 2b1
- form 6's (jprojected manpower) are due today. 2b2
- (afirst) 3
- (aw1) 3a
- For TB only - Financial Forecasting - FY-74 and Prior Years Balances is due today. 3a1
- Accomplishment Report is due today. 3a2
- Laboratory Activity Reports are due tomorrow. 3a3
- (ath1) 3b
- Laboratory Activity Reports due today: Bucciero must have them

Three week Preview

by 1000, ISM must have them by 1100, and DOT must have them by 1600.

3b1

(af1)

3c

For TB and Bobbie only - Travel figures due at 1200 hrs to ISM.

3c1

Timecards are due today

3c2

17990 Distribution

**John L. McNamara, Edmund J. Kennedy, Frank J. Tomaini, Joe P. Cavano,
Duane L. Stone, Rocco F. Iuorno,**

Three week Preview

(J17990) 24-JUL-73 11:44; Title: Author(s): Frank J. Tomaini/FJT;
Distribution: /JLM EJK FJT(Please comment) JPC DLS RFI;
Sub-Collections: RADC; Clerk: FJT;

Network Journal Delivery Problems

Chuck -- To retrieve the entire text of a file whose citation is delivered to you via FTP mail, present the pathname given in the 'Location:' field of the citation to SRI-ARC's server FTP process in a RETR command. See the documentation (NDM RFC 543 -- 17777,5a3b:gy).

We send deliveries out from here in upper- and lower-case. If you see it as all upper-case, could be your system is doing you favors you aren't aware of. If that's not the case, let me know. --Jim

1

17991 Distribution
Chuck S. Kline,

Network Journal Delivery Problems

(J17991) 24-JUL-73 12:58; Title: Author(s): James E. (Jim)
White/JEW; Distribution: /CSK; Sub-Collections: SRI-ARC; Clerk: JEW;

mr enen townes 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.

17992 Distribution
Frank J. Tomaini,

(J17992) 24-JUL-73 14:07; Title: Author(s): David L. Daughtry/DLD2;
Distribution: /FJT; Sub-Collections: NIC; Clerk: WPB;

NWG/RFC# 555
Response to Critiques of the Proposed MP

JEW 30-JUL-73 12:12 17993
RFC 555 / NIC 17993

RFC # 555
NIC # 17993

James E. White (JEW)
SRI-ARC
27 July 73

Response to Critiques of the Proposed Mail Protocol

A number of people have responded to my proposal for a Mail Protocol (JEW RFC 524 -- 17140,2:y). In the current RFC, I've attempted to collect and respond to the questions, complaints, and suggestions that various individuals in the Network community have offered. I intend to critique myself in a forthcoming RFC.

I hope that dialog on the protocol proposal will continue, and that others will join in the discussion. I will respond via RFC to any additional critiques I receive (I hope there'll be many).

1

2

3

I. QUESTIONS

HOW DOES THE SERVER VERIFY AN ID?

References:

(DHC JBP RFC 539 -- 17644,3g:gy)

Discussion:

One postulates the existence of AT LEAST ONE host whose Mail server process implements the User Verification Function (JEW RFC 524 -- 17140,5f7:gy). Any process can contact that server, give him the name of any Individual in the Net and a test Id, and the server will determine whether or not the Individual and Id agree.

The NIC, for one, will without question provide this service.

With such support available to it, ANY FTP server process can then require (of any or all user processes that contact it) an ID command wherever it wishes within the user-server interchange (within the constraints of the Protocol). The server simply prompts for the Id, gets it, opens a connection to the User Verification Agent, presents to it the Individual's name and purported Id, receives a positive or negative response, and deals with the original user process accordingly.

Example:

Suppose a user process opens a connection to UCLA-NMC's server process, invokes the Delivery function, and in the course of the interchange identifies the Author as Roberts at USC-ISI.

The implementors of UCLA-NMC's server process chose to require proof, in all Delivery transactions, that the Author is who he claims he is. It therefore prompts for an Id in response to the AUTHOR command from the user process, and receives in return the command 'ID arpawheel <CA>'.

UCLA-NMC's server then connects to the NIC's server, invokes the User Verification function there, specifying 'REQUESTOR roberts @ usc-isi <CA>' and

'ID arpawheel <CA>'. The NIC informs UCLA-NMC that the Id is incorrect.

4a2c3

UCLA-NMC then rejects the original ID command.

4a2c4

Of course, the Protocol does not require that a server demand Ids from users that contact it. Servers who choose not to require proof of identity simply never prompt for ID commands, and treat any they receive as NOPs. For such implementations (which represent the current, FTP mail protocol situation), no third-part interchanges are ever required.

4a2d

Each user in the Net has a single Id that he uses throughout the Net for purposes of sending and receiving mail. That Id need not (but may, either coincidentally or by design) have any other use. In particular, a user's Id is independent of the passwords by which he gains access to accounts that he might possess on hosts around the Net.

4a2e

Of course, a user could and might see to it that his passwords and Id are the same. The NIC, for example, might require that a user log in to its system with NIC ident and Id, rather than with host name and password, as it does currently.

4a2e1

I emphasize again that Ids have nothing whatsoever to do with accounting. UCLA-NMC doesn't force the Author to prove his identity so UCLA has someone to whom it can bill the resources consumed in processing the Delivery transaction. It does so to prevent Jim White from authoring a piece of mail and claiming that Larry Roberts wrote it.

4a2f

UCLA-NMC does have the option of requiring that a user process log in before it delivers mail so that it can be billed for the resources it uses. The appropriate commands to require of the user process are USER, PASS, and ACCT. But, the billing process is separable from that of identifying Author, Clerk, etc.

4a2f1

The NIC, for example, in its role as a Distribution Agent, might establish an account at UCLA-NMC to use whenever it delivers mail there. UCLA-NMC will bill ALL of the NIC's activity at UCLA to that account. But when the NIC delivers a piece of mail it claims

was authored by Larry Roberts, UCLA-NMC may still wish to verify that claim. Hence the ID command. 4a2f2

ACK, PROGRESS REPORT, OR REPLY WITH NO REFERENCE SERIAL NUMBER 4b

References: 4b1

(DHC JBP RFC 539 -- 17644,3h:gy) 4b1a

Discussion: 4b2

A Delivery of type POSITIVE or NEGATIVE ACKNOWLEDGMENT, PROGRESS REPORT, or REPLY requires a Reference Serial Number of the user process. Should the server determine that one is lacking when the final EXIT command is given, he should reject the EXIT command with an appropriate error response. 4b2a

The same applies in the Distribution function: a Reference Serial Number MUST be specified if the Delivery Type is REPLY. 4b2a1

The Protocol document is deficient in that it doesn't state the above. 4b2b

II. COMPLAINTS

TERMINATING BOTH THE SUBSYSTEM AND FUNCTIONS WITH EXIT

References:

(AAM -- 17404,)

Discussion:

I have no objection to defining two terminating commands, one to exit a function, the other to exit the subsystem. I guess I'd suggest defining a command 'GO <CA>' to be used to terminate a function.

I don't believe, however, that's it's necessary to distinguish the two cases to avoid confusion by human users.

Even though the command language is ASCII, rather than binary, and even though I've adopted Mike Padlipsky's concept of a Unified USER Level Protocol', I don't consider that MP is a protocol for direct use by humans (although nothing can STOP a human user from speaking MP if he has access to a TELNET user program and is determined to do so).

The concept I mean to extract from the UULP and exploit is its model of a single process with many subsystems, not its philosophy of a Network-standard command language for use by human users (the latter may be a good idea, too, but it's not the one I'm concerned with at the moment).

I don't think that designing a protocol to govern an exchange between processes is the same task as designing a protocol to mediate a conversation between a process and a human user. Using ASCII commands suggests (as it did for FTP, RJE, etc.) that the latter problem is the one being addressed; it's not.

USING TELNET GO AHEAD TO TERMINATE CERTAIN COMMANDS

References:

(AAM -- 17404,)

(RCC -- 17822,1a:gy)

5

5a

5a1

5a1a

5a2

5a2a

5a2b

5a2c

5a2d

5a2e

5b

5b1

5b1a

5b1b

(DHC JBP RFC 539 -- 17644,3b:gy)

5b1c

Discussion:

5b2

Agreed. My mistake.

5b2a

I simply have a strong distaste for the current FTP convention of terminating commands whose argument may itself contain CR LF with 'CR LF . CR LF'. That seems a little extravagant to me. Personally, I'd prefer a single NVT character as a delimiter.

5b2b

<CA2> only terminates two MP commands (COMMENTS and TEXT). Some NVT character (ESC? ETX? ...) can easily be chosen that need not appear (and can therefore be prohibited from appearing by the Protocol) in the argument to either of those commands.

5b2c

SUBSYSTEM OR SEPARATE, RJE-LIKE SERVER PROCESS

5c

References:

5c1

(DHC JBP RFC 539 -- 17644,4a:gy)

5c1a

(AAM -- 17404,)

5c1b

(ADO RFC 552 -- 17809,3:y)

5c1c

Discussion:

5c2

There are two separable issues here:

5c2a

(1) Server Process Proliferation or Not?

5c2a1

If the concensus of the Network community is that Padlipsky's UULP approach to protocol design and implementation is in fact superior to the current scheme, which calls for the implementation of each new Network protocol as a distinct server process with its own contact socket, then we should begin to embrace that concept and begin reshuffling existing protocol implementations accordingly. Even more surely, NEW protocols (like MP), should be designed in accordance with the new standards, not the old.

5c2a1a

I think Buz Owen's suggestion (ADO RFC 552 -- 17809,3:y) -- that a skeletal UULP be defined, a socket assigned to server processes which

implement it, and MP defined as a subsystem under it -- is excellent. I retract my suggestion (JEW RFC 524 -- 17140,3a2:gy) in favor of Owen's. 5c2a1b

I further suggest that the latest revision of FTP (NPN RFC 542 -- 17759,) be similarly implemented (i.e., as a UULP subsystem), rather than implemented temporarily under a new socket and later moved over to socket 3 as suggested in RFC 542. 5c2a1c

(2) RJE's Model for FTP Use or Not? 5c2a2

If both MP (as currently defined) and RJE were instated as UULP subsystems, they would still embrace different philosophies regarding their use of FTP. As the person who proposed and fought for the current RJE model (i.e., to its use of FTP), I (still) believe it to be an elegant one, more elegant by far than the one I've proposed for MP. 5c2a2a

An alternative I considered and discarded SOLELY for reasons of efficiency (neglecting, perhaps, the issue of cleanness of implementation), is that the command currently defined as 'FILE <CA>' (JEW RFC 524 -- 17140,4q2a:gy), both in specifying Content and in the Citation Retrieval function, be 'FILE <fileaddr> <CA>' instead. 5c2a2b

The server is then obliged to retrieve the Content of the Mail from the designated server process via a third-party exchange. 5c2a2b1

The redefined FILE command would be similar to the LOCATION command, except that the former would specify JUST Content (and none of the other Static Attributes), and that the Server must retrieve the file (which may be a temporary file created by the user process) in real time, i.e. BEFORE it sends its response to the FILE command. 5c2a2c

This alternative eliminates the need to borrow the BYTE, SOCK, PASV, TYPE, STRU, MODE, REST, and SITE commands from FTP (JEW RFC 524 -- 17140,7cl:gy). It also allows the user process the flexibility of specifying a file at a host other than his own. 5c2a2d

After some thought, I think I agree with Crocker and Postel that theirs is the better implementation.

5c2a2e

As they point out, however, this implementation introduces the problem of somehow reconciling the desire to permit (in general) the transfer of mail files without requiring a login, with a server's inability to distinguish that case from the general case of file retrieval (for which many hosts will require a login).

5c2a2e1

USE OF THE DATE FORM 1/2/73 (JAN 2 OR FEB 1?)

5d

References:
(RCC -- 17822,1b)

5d1

5d1a

Discussion:
Agreed.

5d2

5d2a

ORDER OF PARAMETER SPECIFICATION

5e

References:

5e1

(DHC JBP RFC 539 -- 17644,3l:gy)

5e1a

Discussion:

5e2

The Protocol does not, as Crocker and Postel state, impose an order upon command specification within a function (see for example, JEW RFC 524 -- 17140,5f1b:gy).

5e2a

Having considered their suggestion only briefly, it does seem to me appropriate to impose some constraints on the order of parameter specification by the user. Off hand, the order suggested -- Dynamic, Optional, Static -- seems good.

5e2b

III. SUGGESTED ADDITIONS

6

FORWARDING AT DELIVERY TIME

6a

References:

6a1

(DHC JBP RFC 539 -- 17644,4b:g)

6a1a

Discussion:

6a2

Including provision for the forwarding of mail at Delivery Time, in contrast to sometime after Delivery in response to a specific Forward request (i.e., function), seems to me a useful addition to the Protocol.

6a2a

As Crocker and Postel note, only one of the three mechanisms for such forwarding bears upon the Protocol (although the Protocol might mention the other two and either encourage or discourage their use).

6a2b

I suggest the following reply format, however, rather than the one suggested by Crocker and Postel (DHC JBP RFC 539 -- 17644,4b3c2:gy):

6a2c

476 <localname> -- is his location.

6a2c1

DEFAULT SIGNATURE SHOULD BE THE AUTHOR

6b

References:

6b1

(DHC JBP RFC 539 -- 17644,3c:gy)

6b1a

Discussion:

6b2

Agreed.

6b2a

LEVELS OF INTERRUPT

6c

References:

6c1

(DHC JBP RFC 539 -- 17644,3d:gy)

6c1a

Discussion:

6c2

I see no value to defining numeric shades of urgency, unless the Protocol suggests some particular action the server might take in response to each one.

6c2a

The whole notion of flagging some pieces of mail as urgent seems to me useless unless the MP server process (not the human recipient) takes some kind of special

action for urgent mail, BEFORE the human recipient would otherwise be apt to read the mail. If one accepts that argument, there's clearly no point to defining shades of urgency if they have meaning only to the human recipient. True, any pair of human users could privately agree on meanings, but it seems to me preferable to define those meanings formally or not at all.

6c2b

WARNING THE SERVER OF THE SIZE OF MAIL

6d

References:

6d1

(DHC JBP RFC 539 -- 17644,3f:gy)

6d1a

Discussion:

6d2

Agreed. Further suggestions as to the implementation?

6d2a

DISCOURAGING SERVERS FROM REQUIRING LOGINS

6e

References:

6e1

(DHC JBP RFC 539 -- 17644,3j:gy)

6e1a

Discussion:

6e2

Agreed. This is not a new issue.

6e2a

IV. META-COMMENTS

7

SIZE OF THE PROTOCOL DOCUMENT

7a

References:

7a1

(RCC -- 17822,le:gy)

7a1a

Discussion:

7a2

I offer an apology for the format of the the Protocol document. It differs radically from that of previous protocol documents (e.g., FTP, RJE), and is certainly not tutorial in its orientation. The glossary is a device I found useful in designing the Protocol. If the substance of the Protocol were agreed upon, then friendlier documentation would have to be written. The choice of approach was greatly affected by my own time constraints.

7a2a

As I find time, I would like to define the minimum implementation subsets that Clements requests. For the moment, consider the command breakdown below. It represents the case where the server permits only the function by which mail is delivered to users in his host. It has the following attributes:

7a2b

(1) It supports all of the functions of the current FTP mail protocol. In addition,

7a2b1

(2) It makes specification of author and title explicit, avoiding the current problem of multiple headers (one supplied by the server, the other embedded by the user in the text of the message),

7a2b2

(3) It allows the text of the message to reside at a third host, and

7a2b3

(4) It permits multiple recipients.

7a2b4

The breakdown is the following:

7a2c

COMMANDS THAT MUST BE IMPLEMENTED

(Author and Title could be treated as NOPs)

7a2c1

To enter the Mail subsystem:

7a2c1a

MAIL <CA>

7a2c1a1

To invoke the Delivery function:

7a2c1b

DELIVER <CA>

7a2c1b1

To specify the text of the message:	7a2c1c
FILE <CA>	7a2c1c1
LOCATION <fileaddr> <CA>	7a2c1c2
TEXT <string> <CA2>	7a2c1c3
To identify author(s), recipient(s), and title:	7a2c1d
AUTHOR <individual> <CA>	7a2c1d1
RECIPIENT <individual> <CA>	7a2c1d2
TITLE <title> <CA>	7a2c1d3
To exit the function or subsystem:	7a2c1e
ABORT <CA>	7a2c1e1
EXIT <CA>	7a2c1e2

COMMANDS THAT CAN BE TREATED AS NOPS
(they can legally appear in the Delivery function) 7a2c2

ACCESS <individual> <CA>	7a2c2a
ACCESSTYPES <accesstypes> <CA>	7a2c2b
CATALOG <catalog> <CA>	7a2c2c
CLERK <individual> <CA>	7a2c2d
COMMENTS <comments> <CA2>	7a2c2e
CREATIONDATE <datetime> <CA>	7a2c2f
DELIVERYTYPE <deliverytype> <CA>	7a2c2g
DISPOSITION <disposition> <CA>	7a2c2h
GENERALDELIVERY <CA>	7a2c2i
GREETING <greeting> <CA>	7a2c2j
ID <id> <CA>	7a2c2k
REFERENCE SERIAL <serialnumber> <CA>	7a2c2l
SERIAL <serialnumber> <CA>	7a2c2m
SIGNATURE <signature> <CA>	7a2c2n

COMMANDS THAT NEEDN'T BE RECOGNIZED
(they cannot legally appear in the Delivery function) 7a2c3

Commands that invoke unsupported functions: 7a2c3a

DISTRIBUTE <CA>	7a2c3a1
FORWARD <CA>	7a2c3a2
RECORD <CA>	7a2c3a3
RETRIEVE <CA>	7a2c3a4
UPDATE <CA>	7a2c3a5
VERIFY <CA>	7a2c3a6

Miscellaneous parameter specification commands: 7a2c3b

ACKCONDITION <ackcondition> <CA>	7a2c3b1
ACKTYPE <acktype> <CA>	7a2c3b2
CITATIONTEMPLATE <citationtemp> <CA>	7a2c3b3
CUTOFF <interval> <CA>	7a2c3b4

FORWARDEE <individual> <CA>	7a2c3b5
MONITOR <individual> <CA>	7a2c3b6
PATHNAME <pathname> <CA>	7a2c3b7
REPORTINTERVAL <interval> <CA>	7a2c3b8
REQUESTOR <individual> <CA>	7a2c3b9
UPDATETYPE <update type> <CA>	7a2c3b10
 CA AND CA2 NOT EXPLAINED SOON ENOUGH	 7b
References:	7b1
(DHC JBP RFC 539 -- 17644,3a:gy)	7b1a
Discussion:	7b2
Agreed.	7b2a
 CHANGE 'INTERRUPT' TO 'URGENT' OR 'PRIORITY'	 7c
References:	7c1
(DHC JBP RFC 539 -- 17644,3e:gy)	7c1a
Discussion:	7c2
Agreed.	7c2a
How about 'URGENT'.	7c2b
 CARRY STATIC/DYNAMIC ATTRIBUTE DISTINCTION INTO FORMAL SYNTAX	 7d
References:	7d1
(DHC JBP RFC 539 -- 17644,3i:gy)	7d1a
Discussion:	7d2
Agreed.	7d2a
 CRYPTIC DEFAULT DESCRIPTIONS	 7e
References:	7e1
(DHC JBP RFC 539 -- 17644,3k:gy)	7e1a
Discussion:	7e2
Agreed.	7e2a

NWG/RFC# 555
Response to Critiques of the Proposed MP

JEW 30-JUL-73 12:12 17993
RFC 555 / NIC 17993

(J17993) 30-JUL-73 12:12; Title: Author(s): James E. (Jim)
White/JEW; Distribution: /NLG NAG NSAG JDDT FTPIG; Sub-Collections: NIC
NWG SRI-ARC NLG NAG NSAG JDDT FTPIG; RFC# 555; Clerk: JEW;
Origin: <WHITE>MAILRESP.NLS;15, 27-JUL-73 14:34 JEW ;

17993 Distribution

A. Wayne Hathaway, Robert C. Clements, Marc S. Seriff, Thomas F. (Tom) Knight, Abhay K. Bhushan, Robert T. Braden, Arvolo Chan, Steve D. Crocker, Eric F. Harslem, John F. Heafner, Jerry Fitzsimmons, John T. Melvin, Robert M. (Bob) Metcalfe, Jonathan B. Postel, Ray S. Tomlinson,
Steve G. Chipman, John P. Barden, Martha A. Ginsberg, Shirley W. Watkins, Janet W. Troxel, Connie D. Rosewall, Linda M. Webster, Anita L. Coley, Carol J. Mostrom, James E. (Jim) White, Richard W. Watson, J. D. Hopper, Diane S. Kaye, Walt Bass, L. Peter Deutsch, Paul R. Johnson, Milton H. Reese, Nancy J. Neigus, Ric Werme, Alex A. McKenzie, Peter Kirstein, Bradley A. Reussow, Michael A. Padlipsky, Robert H. Thomas, Robert G. Merryman, James M. Pepin, L. Peter Deutsch, Michael D. Kudlick, John D. Day, Robert D. (Bob) Bressler, Neal D. Ryan, Richard A. Winter, Richard W. Watson, Gregory P. Hicks, James E. (Jim) White, Stephen M. Wolfe, Kenneth T. Pogran
Paul M. Rubin, Paula L. Cotter, O. A. Hansen, H. A. Thompson, Dan Dechatelets, Nancy C. Thies, Travis L. Greening, Robert Silberski, Marcia Lynn Keeney, Margaret A. (Maggie) Bassett, J. A. Smith, Leina M. Boone, Diana L. Jones, Nancy J. Neigus, Terry Sack, Frances A. (Toni) McHale, Lucille C. (Lucy) Gilliard, Ed J. Collins, Gary Blunck, John F. Heafner, Kathy Beaman, David J. King, C. Jane Moody, Sue Pitkin, Jerry Fitzsimmons, Gregory P. Hicks, Gloria Jean Maxey, Roberta J. Peeler, Craig Fields, Ermalee R. McCauley, Margaret Iwamoto, Dee Larson, Robert E. Doane, Brenda Monroe, Jeanne B. North, Pam J. Klotz Cutler, Barbara Barnett, Stan Golding
Paul Baran, Henry Chauncey, J. T. Sartain, Robert N. Lieberman, Ralph Alter, Nils Maras, Philip H. Enslow, Robert M. Dunn, Joseph B. Reid, William T. Misencik, Toshiyuki Sakai, Louis Pouzin, Yngvar Lundh, Robert H. Hinckley, Marvin Zelkowitz, Don D. Cowan, Louis F. Dixon, Michael O'Malley, Peter Kirstein, David J. Farber, Dave Twyver, Art J. Bernstein, Dave E. Liddle, A. Kenneth Showalter, D. D. Aufenkamp, Derek Leslie Arthur Barber, Tjaart Schipper, Richard M. Van Slyke, E. M. Aupperle, Hubert Lipinski, Robert F. Hargraves, C. D. (Terry) Shephard, Maurice P. Brown, Robert L. Ashenurst, Pitts Jarvis, Barbara A. Nicholas, Jacquie A. Priest, Terence E. Devine
Thomas O'Sullivan, Sol F. Seroussi, Scott Bradner, Robert H. Thomas, John C. Thomas, Michael J. Romanelli, Ronald M. Stoughton, A. D. (Buz) Owen, Robert L. Fink, Jeanne B. North, Steve D. Crocker, Thomas F. Lawrence, John W. McConnell, James E. (Jim) White, A. Wayne Hathaway, Patrick W. Foulk, Richard A. Winter, Harold R. Van Zoeren, Alex A. McKenzie, Abhay K. Bhushan, B. Michael Wilber, Edward A. Feigenbaum, Robert T. Braden, James M. Pepin, John T. Melvin, Harold F. Arthur, Peter R. Radford, Wayne R. Robey, Joshua Lederberg, Connie Hoog, Leonard B. Fall, James A. Blumke, David Hsiao, Michael L. Marrah, Vinton G. Cerf, Richard G. Powell, Gerald L. Kinnison
Carl M. Ellison, Robert P. Blanc, Jay R. Walton, Steven F. Holmgren, Terence E. Devine, David J. King, William L. Andrews, Milton H. Reese, Kenneth M. Brandon, Lou C. Nelson, Jeffrey P. Golden, Richard B. Neely, Dan Odom, Ralph E. Gorin, Robert G. Merryman, P. Tveitane, Adrian V. Stokes, David L. Retz, Reg E. Martin, Gene Leichner, Jean Iseli, James E. (JED) Donnelley, William Kantrowitz, Michael S. Wolfberg, Yeshiah S. Feinroth, James Hurt, Anthony C. Hearn, Eric F.

Harslem, Robert M. (Bob) Metcalfe, Bradley A. Reussow, Daniel L.
Kadunce, George N. Petregal, Michael B. Young, Michael A. Padlipsky,
Schuyler Stevenson, L. Peter Deutsch, John Davidson

PDP-10 IMP72 COMPILER ABSTRACT

IMP is a simple higher-level language intended primarily for system programming. It has been implemented on the PDP-10 and CDC 1604 and 6600 computers. It is meant to provide language facilities roughly at the level of FORTRAN II yet allow the programmer the flexibility of machine language programming including use of all the machine's registers and instructions and arbitrary control of the program and data areas while the program is running. IMP72 is a version of IMP for the PDP-10 which provides the user with the following facilities: 1

1. Extensibility. The user may specify extensions to the syntax and semantics of the language in forms ranging from simple "macros" to productions which generate calls to compiler code-generating routines. More efficient object code may easily be specified for special cases. 1a
2. Floating point capabilities. A REAL data type and floating point arithmetic are provided. 1b
3. Byte manipulation capability. 1c
4. No reserved words in the syntax. 1d
5. Syntactic error correction, admissibility of ambiguous syntax, and improved diagnostics. 1e

PDP-10 IMP72 COMPILER ABSTRACT

(J17994) 24-JUL-73 18:38; Title: Author(s): Walter Bilofsky/WB ;
Distribution: /NLG ; Sub-Collections: NIC NLG; Clerk: KIRK ;

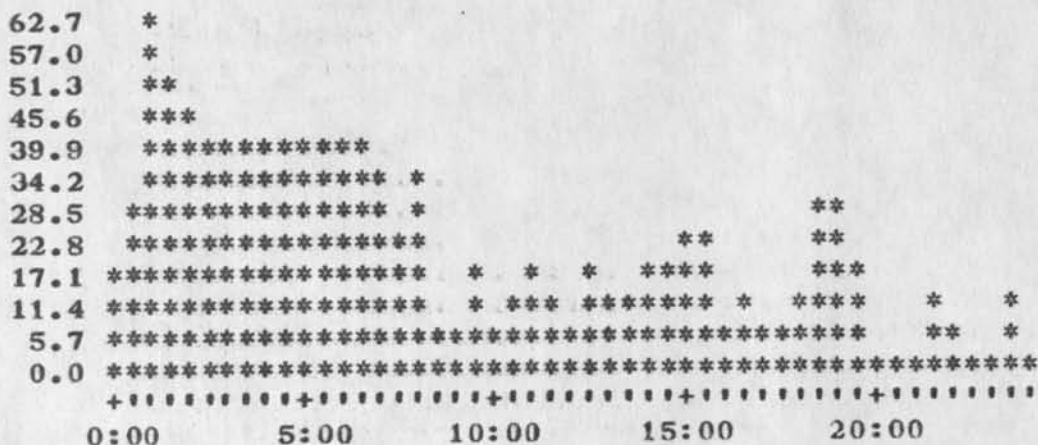
17994 Distribution

Robert H. Thomas, John C. Thomas, Michael J. Romanelli, Ronald M. Stoughton, A. D. (Buz) Owen, Robert L. Fink, Jeanne B. North, Steve D. Crocker, Thomas F. Lawrence, John W. McConnell, James E. (Jim) White, A. Wayne Hathaway, Patrick W. Foulk, Richard A. Winter, Harold R. Van Zoeren, Alex A. McKenzie, Joel M. Winett, Abhay K. Bhushan, Thomas N. Pyke, B. Michael Wilber, Edward A. Feigenbaum, Robert T. Braden, James M. Pepin, Barry D. Wessler, John T. Melvin, Steven F. Holmgren, Terence E. Devine, David J. King, William L. Andrews, Milton H. Reese, Kenneth M. Brandon, Lou C. Nelson, Jeffrey P. Golden, Richard B. Neely, Dan Odom, Ralph E. Gorin, Robert G. Merryman, P. Tveitane, Adrian V. Stokes, David L. Retz, Reg E. Martin, Gene Leichner, Jean Iseli, James E. (JED) Donnelley, William Kantrowitz, Michael S. Wolfberg, Yeshiah S. Feinroth, James Hurt, Anthony C. Hearn, Eric F. Harslem, Robert M. (Bob) Metcalfe, Bradley A. Reussow, Daniel L. Kadance, George N. Petregal, Michael B. Young, Michael A. Padlipsky, Schuyler Stevenson, L. Peter Deutsch, John Davidson, Thomas O'Sullivan, Sol F. Seroussi, Scott Bradner

Superwatch Average Graphs for Week of 7/16/73

TIME PLOT OF AVERAGE IDLE TIME FOR WEEK OF 7/16/73
 x axis labeled in units of hr:min, xunit = 30 minutes

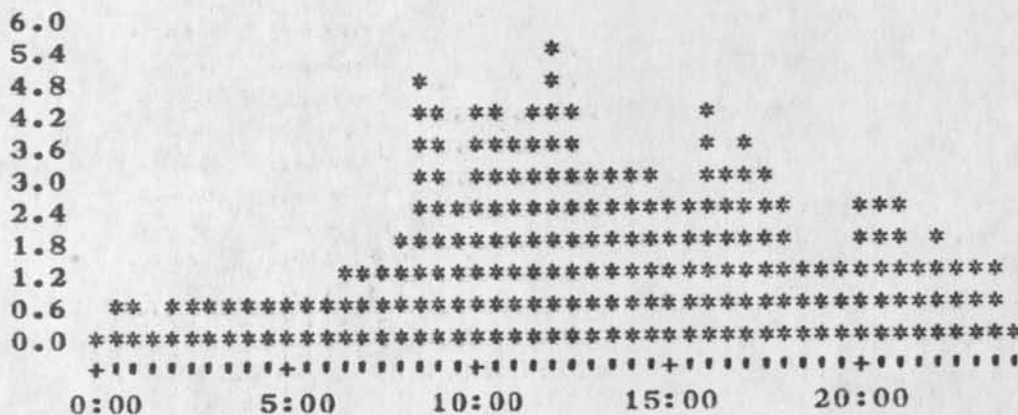
1



1a

TIME PLOT OF AVERAGE NUMBER OF GO JOBS FOR WEEK OF 7/16/73
 x axis labeled in units of hr:min, xunit = 30 minutes

2

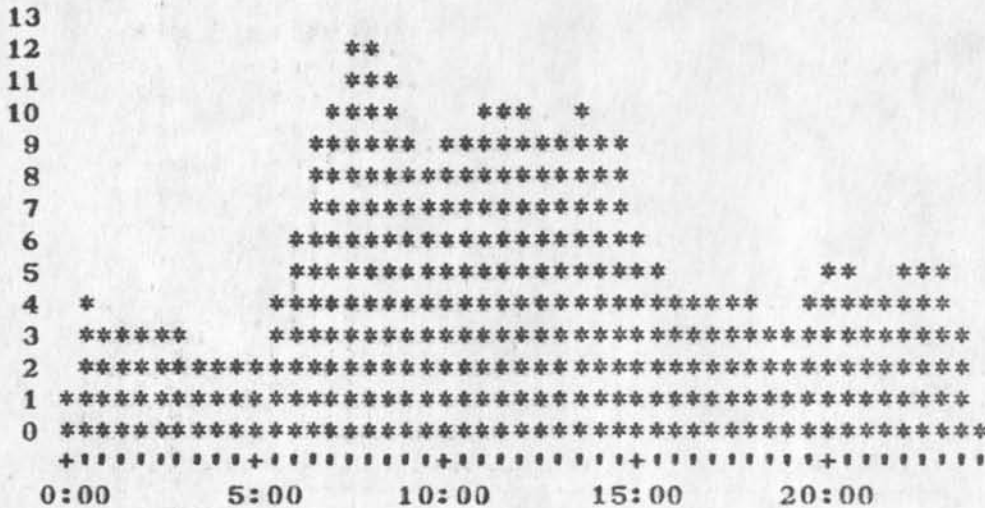


2a

Superwatch Average Graphs for Week of 7/16/73

TIME PLOT OF AVERAGE NUMBER OF NETWORK USERS FOR WEEK OF 7/16/73
x axis labeled in units of hr:min, xunit = 30 minutes

3

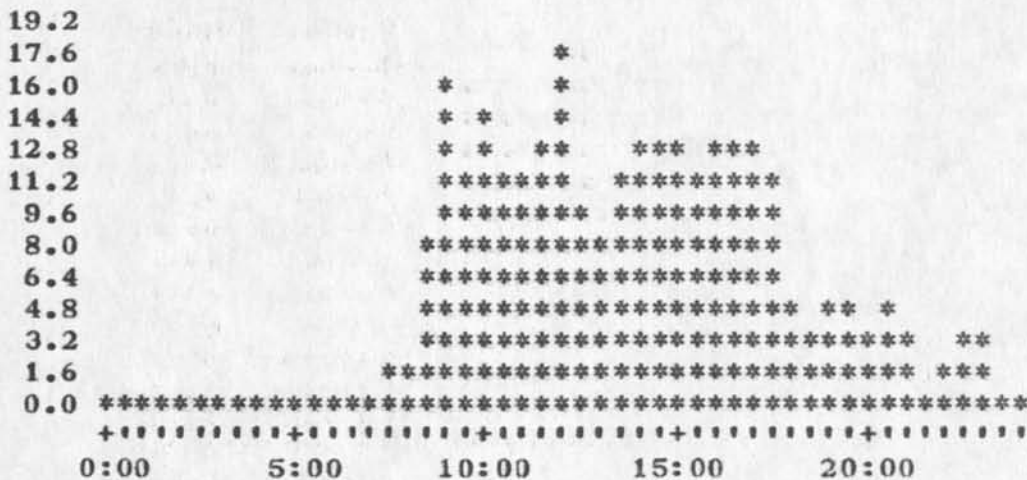


3a

TIME PLOT OF AVERAGE PER CENT OF SYSTEM USED IN DNLS FOR WEEK OF 7/16/73

x axis labeled in units of hr:min, xunit = 30 minutes

4



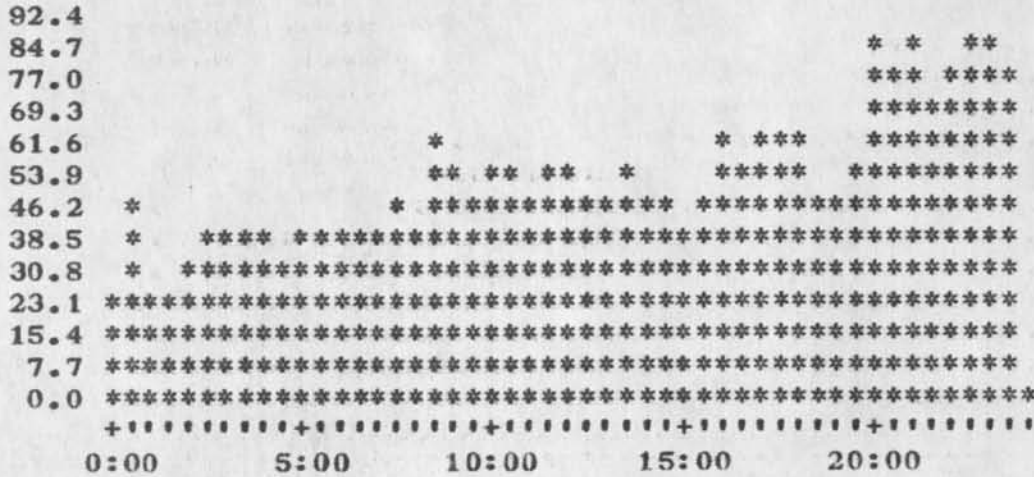
4a

Superwatch Average Graphs for Week of 7/16/73

TIME PLOT OF AVERAGE PER CENT OF CPU TIME CHARGED TO USER ACCOUNTS FOR WEEK OF 7/16/73

x axis labeled in units of hr:min, xunit = 30 minutes

5

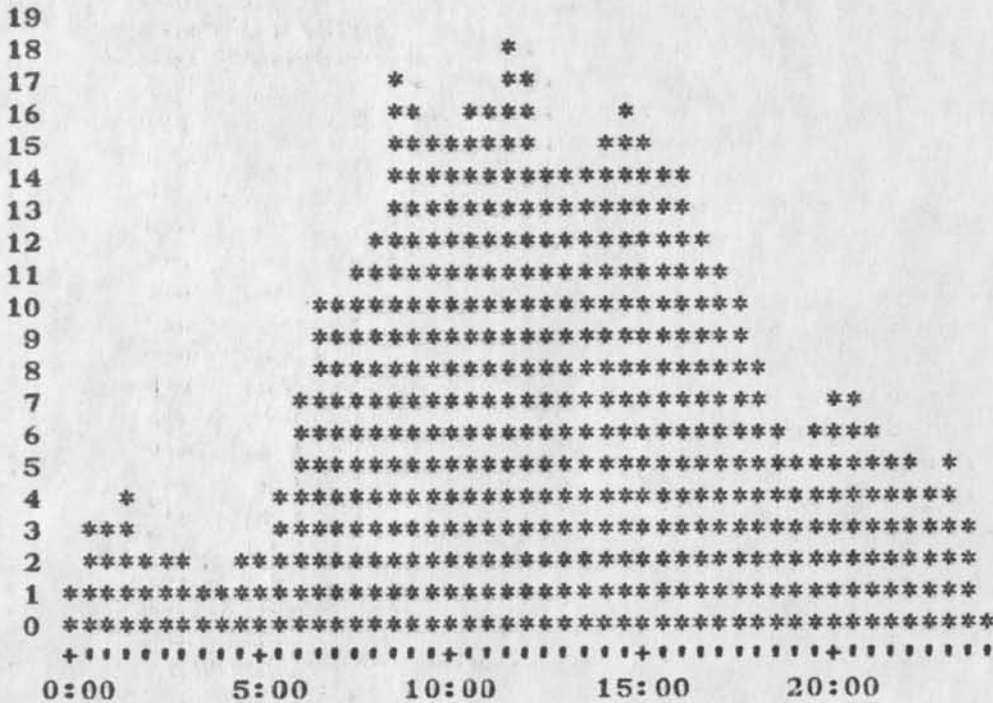


5a

TIME PLOT OF AVERAGE NUMBER OF USERS FOR WEEK OF 7/16/73

x axis labeled in units of hr:min, xunit = 30 minutes

6



6a

17995 Distribution

James C. Norton, Richard W. Watson, Douglas C. Engelbart, Paul Rech,
Donald C. (Smokey) Wallace, Jeffrey C. Peters, Dirk H. Van Nouhuys,
Elizabeth J. (Jake) Feinler, Charles F. Dornbush, Kirk E. Kelley,
Duane L. Stone, Beauregard A. Hardeman,

Superwatch Average Graphs for Week of 7/16/73

(J17995) 24-JUL-73 14:46; Title: Author(s): Susan R. Lee/SRL;
Distribution: /JCN RWW DCB PR DCW JCP DVN JAKE CFD KIRK DLS BAH;
Sub-Collections: SRI-ARC; Clerk: SRL;
Origin: <LEE>WEEK7/16GRAPHS.NLS;1, 24-JUL-73 14:44 SRL ;

Criteria for the Performance of the Organization, RADC Established by the Management

RESULTS AND RECOMMENDATIONS: CONSULTATION WITH DR. CONRATH

CRITERIA for Performance of Organization established by Col. Thayer and Mr. Tomaini in meetings with Dr. Conrath and Capt. Bair.

If AHI is to be evaluated on the basis of improved performance of organizational units then what are the current standards of performance established by those managers responsible for the Division and the Branch?

Performance criteria for individuals:

1. Performance memos
2. National recognition for technical work (papers, chairing symposia, etc.)
3. Original work
4. Knowledge of field
5. Ability to identify resources to accomplish mission
6. Peer acceptance

Criteria for the organizational units, which includes the following in addition to the above:

1. Production:

REPORTS -- timely, and numerous (publish) Includes progress reports which constitute feedback to the manager.

PEOPLE -- knowledgeable and prolific, breadth of contacts, ability to identify original work, awareness of literature (references), etc.

2. Flexibility:

To restructure paperwork quickly and responsively, and then present it

3. Credibility:

ACCEPTANCE of the results, ability to sell to higher levels (using agencies) and to the research community.

Criteria for the Performance of the Organization, RADC Established by the Management

4. Performance in general:

RESPONSIVENESS, the lack of which is indicated by deadlines not met, particularly overdue progress reports

PARTY LINE ADHERANCE -- behavior consistant with the goals, policies and procedures of the organization (staying within the chain of command)

QUALITY of reports (subjective judgement by supervisors and reviewers)

MANPOWER: relative manpower to complete jobs

MEASURES that are feasible:

1. Report rating form for managers

Instrument: a 9 scale semantic differential, 7 position, which will load 3 scales on each of 3 factors:

I Presentation

II Content

III Impact

2. Feedback checklist form:

a. Weekly deadlines missed per section

b. Overdue progress reports

c. Messages, memos and requests not responded to within the specified time or 1 week where no date is set

d. Rating of criticality/importance of item

important --- --- --- --- --- --- --- unimportant

3. Uses of system (changes in methods of doing business)

a. Communication tally

A form to tabulate the number of communicative transactions per individual in traditional modes and through the system. The modes are: telephone, face to

Criteria for the Performance of the Organization, RADC Established by
the Management

face interactions, meetings, general and specific
corresponce, and AHI. (see attachment)

This will show how the system is used for communication
as compared to usual means of conveying information. The
pattern of communication is an indicator of the
performance of the organization.

b. A record of some sort about the kind of specific uses of
AHI, i.e. what connect time is used for. This must be done
automatically, and thus may not be possible in the near
future. Important differentiations are: editing, perusing
files, Journal, sndasg, linking, searching, and output
processing.

CONCLUSION

The foregoing measures with the exception of 3b should be
implemented as soon as possible.

17997 Distribution

Donna R. Robilotta, David L. Daughtry, Richard H. Thayer, Frank J. Tomaini, Mike A. Wingfield, Edmund J. Kennedy, Ray A. Liuczi, Richard Calicchia, 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, Frank J. Tomaini, Richard H. Thayer, Edmund J. Kennedy, John L. McNamara, Rocco F. Iuorno,

Criteria for the Performance of the Organization, RADC Established by
the Management

(J17997) 24-JUL-73 18:31; Title: Author(s): James H. Bair/JHB;
Distribution: /RADC(For your your information only) FJT RHT2 EJK JLM
RFI; Sub-Collections: RADC; Clerk: JHB;
Origin: <BAIR>CONRATHR.NLS;1, 24-JUL-73 18:16 JHB ;

The PDP-10 IMP72 COMPILER exists.

This is to publicize the existence of a compiler which may be of interest to PDP-10 installations on the ARPA net. A brief description of the language from the manual is online in NIC 17994 (17994,). The compiler is in directory <BILOFSKY> on the BBN-TENEX-A PDP-10, and is accessible to net users. The manual is file IMP.RNO (in RUNOFF format), and there are also source and REL files, a SAV file, and a run-time library. The SAV file will run under both TENEX and DEC system-10 operating systems.

1

17998 Distribution

Robert H. Thomas, John C. Thomas, Michael J. Romanelli, Ronald M. Stoughton, A. D. (Buz) Owen, Robert L. Fink, Jeanne B. North, Steve D. Crocker, Thomas F. Lawrence, John W. McConnell, James E. (Jim) White, A. Wayne Hathaway, Patrick W. Foulk, Richard A. Winter, Harold R. Van Zoeren, Alex A. McKenzie, Joel M. Winett, Abhay K. Bhushan, Thomas N. Pyke, B. Michael Wilber, Edward A. Feigenbaum, Robert T. Braden, James M. Pepin, Barry D. Wessler, John T. Melvin, Steven F. Holmgren, Terence E. Devine, David J. King, William L. Andrews, Milton H. Reese, Kenneth M. Brandon, Lou C. Nelson, Jeffrey P. Golden, Richard B. Neely, Dan Odom, Ralph E. Gorin, Robert G. Merryman, P. Tveitane, Adrian V. Stokes, David L. Retz, Reg E. Martin, Gene Leichner, Jean Iseli, James E. (JED) Donnelley, William Kantrowitz, Michael S. Wolfberg, Yeshiah S. Feinroth, James Hurt, Anthony C. Hearn, Eric F. Harslem, Robert M. (Bob) Metcalfe, Bradley A. Reussow, Daniel L. Kadance, George N. Petregal, Michael B. Young, Michael A. Padlipsky, Schuyler Stevenson, L. Peter Deutsch, John Davidson, Thomas O'Sullivan, Sol F. Seroussi, Scott Bradner

The PDP-10 IMP72 COMPILER exists.

(J17998) 24-JUL-73 18:40; Title: Author(s): Walter Bilofsky/WB ;
Distribution: /NLG ; Sub-Collections: NIC NLG; Clerk: KIRK ;

Features desired in typewriter-like keyboard hardware for optimal user control.

Double Characters

Currently on a lot of keyboards, signals are sent on the downstroke except when two keys are down at the same time in which case the signal sent is determined by the order of the upstroke (release of the key). Using the upstroke to control the signal is backwards and causes a lot of frustrating double characters. If a second key is pressed and released before the first one is released, the second key should be input and not a double signal from the first key. Upstrokes should not be significant, they should be ignored. A lot of missing character problems might also be solved by this change. There are some keyboards (IBM) that do the right thing.

1

DEX (NLS Deferred EXecution) Needs

DEX requires a <EOL> or some special character approximateley every line so that it wont have to stop at every word, and it wont choke on long statements. A line sees to be about right.

2

The best solution to this problem would be having the T-I automatically send out an <EOL> when it automatically returns at the end of a line. This would allow maximum similarity with TNLS but would not affect TNLS when using the same T-I because the TNLS automatic return point is before the T-I's.

2a

Currently the typist enters a <CR> <LF> at the end of each line and DEX software changes it into a <SP> in the NLS file. Besides being a significant drag on typing speed, this also requires a modification in the T-I so that a warning bell would ring close to the end of the line. (A standard feature on most typewriters but not on T-I's) This is important because if a <CR> <LF> is entered in the middle of a word, DEX changes it into a <SP>.

2b

Use DVORAK key positions instead of the current cludge if there must be only one standard keyboard configuration. At least make it easily available.

3

Save that expensive T-I Thermal Paper:

4

Move the roller bar out of the line of printing text as is done in Execu-port models.

4a

Lower the window frame so the bottom line of text can be seen.

4b

17999 Distribution

Nps Np, Richard W. Watson, Charles H. Irby, Michael D. Kudlick, James
C. Norton, Martin E. Hardy,

Features desired in typewriter-like keyboard hardware for optimal user control.

(J17999) 24-JUL-73 20:47; Title: Author(s): Kirk E. Kelley/KIRK ;
Distribution: /NP MDK JCN MEH ; Sub-Collections: SRI-ARC NP; Clerk:
KIRK ;
Origin: <KELLEY>T-I.NLS;3, 24-JUL-73 20:44 KIRK ;

I would like to be part of the Network working group to work on the activities, not just follow them. I am particularly interested in making available Network Program documentation through NIC Query language.

18000 Distribution
David H. Crocker,

(J18000) 24-JUL-73 21:19; Title: Author(s): Kirk E. Kelley/KIRK;
Distribution: /DHC; Sub-Collections: SRI-ARC; Clerk: KIRK;

Request for Inclusion of Execute Edit Control Charactes in TNLs
Documentation

Bernie Cosell suggests that the next revision of TNLs instructions
include the control characters for Execute Edit -- Jeanne N

1

Request for Inclusion of Execute Edit Control Charactes in TNL\$
Documentation

(J18002) 25-JUL-73 08:36; Title: Author(s): Jeanne B. North/JBN;
Distribution: /NDM DVN JMB; Sub-Collections: SRIARC NIC ; Clerk: JBN;

Distribution Info for Members of BBN-NET

Marcia,
 I have just gone over the entire list of members of BBN-NET and tried to determine if the status for each is correct. It is, in most cases, and I have listed the desired corrections below. In case this is confusing, hardcopy follows by Air Mail.
 Regards,
 Alex McKenzie

AMC is not in group BBN-NET, and should be deleted from the list.

For BPC
 Delete "online" and "hardcopy" delivery modes

For WRC
 Delete "online" delivery mode
 Add "network" delivery mode to
 CROWTHER@BBN-TENEX

For PH
 Add "online" delivery mode

For RLM
 Add "hardcopy" delivery mode

For AAM
 Delete "network" delivery mode

For NWM
 Add "network" delivery mode to
 MIMNO@BBN-TENEX

Distribution Info for Members of BBN-NET

(J18003) 25-JUL-73 09:00; Title: Author(s): Alex A. McKenzie/AAM;
Distribution: /MLK; Sub-Collections: NIC; Clerk: AAM;

Question about your letter

Carol, I received your letter today. I'm unclear on a couple of things. First of all where am I to send Network Mail to (What host and username) so that it will get to you? Also, you mentioned that you wanted the Liaison not to receive mailings anymore; I assume you mean the RFC mailings that come approximately weekly. What about functional document updates -- shall we stop sending him those also? I added Walton to the ident file and made him the new Liaison per your request, checked phone numbers, etc. Let me know on those questions. Marcia.

1

Question about your letter

(J18004) 25-JUL-73 10:02; Title: Author(s): Marcia Lynn Keeney/MLK;
Distribution: /CJM; Sub-Collections: SRI-ARC; Clerk: MLK;

Reply to RLL@NSRDC Concerning DDT and NLS-DDT

Jim Norton gave me a copy of your inquiry concerning DDT and the NLS-DDT system recently implemented within NLS. DDT is a TENEX timesharing system subsystem which is based on the earlier versions available on other computers and in particular the version supplied by DEC for all PDP-10 computers. As such it may be used with languages other than LLO.

1

A description of the (somewhat cryptic) TENEX DDT commands may be found in the PDP-10 Reference Handbook published by DEC; the TENEX version differs in a few minor respects.

2

In using DDT to debug NLS programs written in LLO, we very often made use of standard techniques to examine the call-return stack which is part of the LLO/NLS run-time environment, and to compile small sections of code and replace existing code in the system with them to test out new features. The NLS-DDT system has commands which are more related to English language constructions than the TENEX DDT commands, but its major benefits for NLS system programmers come from its knowledge of the LLO/NLS runtime environment.

2a

It is possible in NLS-DDT to examine the call-return stack much more easily than in TENEX DDT; there are, of course, other differing and, we hope, improved features, but the assumption is that NLS-DDT is used while one is running NLS. While running a FORTRAN (or other language) program one neither (currently) runs NLS nor has a similar run-time environment. NLS-DDT would offer little in the way of assistance.

2b

TENEX DDT in general is very powerful, assuming the user knows about the run time environment of the language and system being debugged and about the machine language code dropped out by the compiler or assembler being used. It provides the user with the opportunity to "set breakpoints where DDT will suspend execution of his program and await further commands. This allows the user to check out his program section by section. Either before starting execution or during breakpoint stops, the user may examine and modify the contents of any location.... DDT also performs searches, gives conditional dumps, and calls user-code debugging subroutines at breakpoints." (DEC PDP-10 Reference Handbook, p.539)

2c

There has been some discussion at ARC about providing access within NLS to other compilers, assemblers, and interpreters. I assume such developments imply access to improved debugging systems. There are, however, no firm plans to provide these interfaces in the near future because of competing features which we feel have higher priorities. Even without such interfaces, the use of the system for organizing and editing code is

Reply to RLL@NSRDC Concerning DDT and NLS-DDT

worthwhile. With such an evolution evolution, it will be even more valuable.

2d

I highly recommend looking at the DEC DDT document. If you wish to see a description of that or of the NLS-DDT version (13716,), I can arrange to send you copies.

3

HGL 25-JUL-73 10:09 18005

Reply to RLL@NSRDC Concerning DDT and NLS-DDT

(J18005) 25-JUL-73 10:09; Title: Author(s): Harvey G. Lehtman/HGL;
Distribution: /RWW RLL JCN CHI DCE CFD; Sub-Collections: SRI-ARC; Clerk:
HGL;

tnls documentation--execute edit command

answer to your journal message of 25-july-73, 18002
The current on-line version of the chapter of TNL User
Guide--Section 5-Text Editing--includes a description of the Execute
Edit command. see-(userguides, tnl-editing,12). Is it a
satisfactory and complete description? Jeanne, do you think I should
tell this directly to Bernie Cosell?

1

tnls documentation--execute edit command

(J18006) 25-JUL-73 10:40; Title: Author(s): Jeanne M. Beck/JMB;
Distribution: /JBN; Sub-Collections: SRI-ARC; Clerk: JMB;

ms caral giammo will arrive radc at approximately 1130 hrs on wednesday 1 aug. she will be briefed by sai the same afternoon and by prc the following morning. she will talk to isi personnel in a mtg the afternoon of 2 aug...attendees will be...daughtry, iurno, mcnamara, tomaini, sliwa, etc.

1

(J18007) 25-JUL-73 11:39; Title: Author(s): William P. Bethke/WPB;
Distribution: /JLM; Sub-Collections: RADG; Clerk: WPB;

TEST OF JOURNAL SUBMISSION

THIS IS A TEST OF THE NETWORK JOURNAL SUBMISSION
STUFF.

THIS IS BEING SENT TO PRJ AND RCC FROM SNDMSG ON BBN-TENEX.

THANK YOU FOR RECEIVING THIS.

---PAUL

TEST OF JOURNAL SUBMISSION
- - - - -

(J18008) 25-JUL-73 11:54; Title: Author(s): Paul R. Johnson/PRJ ;
Distribution: /PRJ RCC ; Sub-Collections: NIC; Clerk: PRJ;
.SNF=HIRM;

How About 'RFC-524' Instead of '17140'?

I would like, for the record, to propose the following syntax change for Journal numbers. I have a feeling that this KIND of suggestion may have been made before, discussed, and rejected. I may unwittingly be entering an arena where many have already perished. My apologies if this suggestion is redundant.

The reader will notice (as I did as I proofed this memo) that there are really two (probably separable) proposals being made here:

(1) that, as mentioned above, the Journal filename syntax be changed, and

(2) that the RFC concept be generalized.

I propose that Journal files, rather than having numeric filenames, have names of the form:

<prefix> '-' <integer>

where <integer>, like the current numeric Journal filenames, are assigned sequentially by the system; and where <prefix> identifies a broad dialogue category (I have in mind values for <prefix> such as 'RFC', 'SUR', etc.).

The proposal is motivated by belief in the following:

The new Journal filenames would be more meaningful to the user. Knowing the name of the file tells him something about it's content. It probably even tells him whether or not he cares to read it.

The new Journal filenames would be easier to remember.

With the new filenames, it would be a straightforward task for an on-line user, unaided by catalog, to get at and read any items with a particular prefix he suspects might have been written since he last looked.

It's of psychological help to the user to have a smaller name space to have even to be aware of (<integer> is guaranteed to grow more slowly than the current numeric filenames).

I have long heard arguments that a NIC number is an adequate document handle for a user, and that the very concept of an alternate naming scheme (like RFCs) is ill-conceived. I for one have never felt the weight of that argument; neither did the NWG when ARC once-upon-a-time proposed doing away with RFCs altogether. The SUR and ASS series, and others of it's type

How About 'RFC-524' Instead of '17140'?

which have sprung up demonstrate, I think, that many other users feel the concept an important one.

4d1

It's unnecessary to provide two different names (e.g., 'RFC 524' and '17140') for the same file.

4e

RFCs, unlike SUR notes or similar series, are special-cased by the software. The value of that will dwindle in time, as an ever smaller portion of the user community is served by it.

4f

As research interests broaden and even as the development of Network-related protocols (the area which RFCs were/are intended to serve) becomes, as it already has, not a single discipline but one of many, more specialized ones; the simple RFC/non-RFC distinction the software currently supports will become less and less meaningful.

4f1

Implementation might go like the following:

5

Defining new <prefix>'s

5a

This might be a function performed upon request by the NIC. It probably ought to be considered an act that's on a par with the creation of a new group ident, in terms of the thought given to it beforehand, and in terms of the level of built-in difficulty a user faces in bringing it about.

5a1

Preassigning <integer>'s

5b

The user would specify the <prefix> for which he desired an <integer> and the system would assign it, preserving if it saw fit the user to whom it was assigned and the date.

5b1

I can think of no reason for querying the user for expected title, distribution list, etc.

5b1a

Submitting Journal Articles

5c

In the Journal submission process, the user would be prompted for or otherwise given an opportunity to supply a <prefix>. The system would attempt to locate <prefix> in a list of defined prefixes.

5c1

If <prefix> didn't appear in the list, it would reject it.

5c1a

Otherwise, it would:

5c1b

allow the user to supply a preassigned value for <integer> if he had one, or

5c1b1

How About 'RFC-524' Instead of '17140'?

assign to the article the next <integer> in the sequence, either on the fly or, if number selection was deferred, in background mode.

5c1b2

Locating Journal Files

5d

If the user typed '<JJOURNAL>RFC-524', the TENEX gtjfn mechanism would locate the file without difficulty (as it does now for '<JJOURNAL>17140').

5d1

If the user typed just 'RFC-524', the gtjfn would fail. NLS would then look for a dash in the filename.

5d2

If it found none, it would recognize the file as nonexistent or archived (as it does now if the filename is non-numeric).

5d2a

If the dash was present, it would search the Journal catalog for the file (as it does now if the filename is numeric).

5d2b

Eliminating the current RFC special cases in NLS

5e

It's my understanding that RFCs are the only set of notes that are known to the software. All of the special-case software which supports RFCs would be eliminated from the system in favor of the above.

5e1

JEW 25-JUL-73 16:50 18011

How About 'RFC-524' Instead of '17140'?

(J18011) 25-JUL-73 16:50; Title: Author(s): James E. (Jim)
White/JEW; Distribution: /SRI-ARC NP; Sub-Collections: SRI-ARC NP;
Clerk: JEW;
Origin: <WHITE>ARCMMSG.NLS;3, 25-JUL-73 16:48 JEW ;

Further re Putting Execute Edit Control Characters on QRG

Bernie Cosell and Jeannie Beck -- On reading BPC's message in hardcopy I can tell he was referring to the Quick Reference Guide Card. Opinion is that because Execute Edit is an alternative way, and not usually a preferred way to accomplish the text changes, that it would take up a large space on the QRG without a compensatory contribution. Anyway, JMB has the idea dropped in the hopper, and BPC has JMB's message re the online version. -- Jeanne

1

Further re Putting Execute Edit Control Characters on QRG

(J18012) 25-JUL-73 17:51; Title: Author(s): Jeanne B. North/JBN;
Distribution: /BPC JMB NDM DVN; Sub-Collections: SRIARC NIC ; Clerk:
JBN;

Discussion Log: 19 Jul 73, Pat Henry of SRI with DCE, PR, RWW, on SRI Energy Program

This meeting, between Doug Engelbart, Dick Watson, Paul Rech, and Pat Henry, is a follow up on a conversation that Paul had yesterday with Pat (who is Manager of the Energy Technology Department, and Chairman of the SRI Energy Committee -- to which Paul belongs). These notes were taken in DCE's office (mostly online during the discussion) with some summary notes added after the meeting. They are working notes and should not be construed as representing anyone's final position on these subjects. We invite and welcome comments, suggestions and criticisms.

1

Paul Rech had been discussing with Pat the activities of the SRI Energy Committee; Pat had mentioned the needs for information services. This led Paul to describe to him a general approach for helping communities that want centralized information services. (PR and MDK have been preparing a paper on that subject; note also ARC's general statement about this topic -- 12445,)

1a

A) A first question that Pat raises is what can be done with an SRI Skills Inventory data bank that could make it more useful, especially for the needs he has in the energy field.

2

ARC could do something to help -- but our most direct manner of helping (using our system) wouldn't be particularly sensible unless there were a fairly good probability that the Energy activity at SRI would subsequently be following through with more extensive use of this system.

2a

In any event, we'd want to have some of our people take a preliminary look, to ascertain the need, possibilities, potential value and cost in using our system, alternative possibilities and costs in using other available computerized systems, etc. We might be able to offer short term help in adapting to another system, but most interest would be in the case where/if it proved sensible to go ahead in an NLS-based system.

2b

Fundamental part of the "system" would be the means for acquiring the data, and keeping up with changes. Also, part of the problem would be means for flexibly collecting and editing biographies for a given proposal.

2c

We all agree that ARC will do approximately one man-week study, leading to an informal proposal bearing upon the skills inventory, and perhaps upon the biographical assembly and tailoring process when putting together a proposal. Charge to a number from Pat's group. We'll try to get this proposal to him within a month.

2d

DCE Note: I have certain conditions for our going ahead with

Discussion Log: 19 Jul 73, Pat Henry of SRI with DCE, PR, RWW, on
SRI Energy Program

providing Workshop Support on a short-term basis -- i.e. not on
our regular Workshop Utility basis:

2d1

1) For this particular project, it must be coordinated
with SRI's general approach to managing and using these
skill-inventory data.

2d1a

2) We would do it for a group only if we judge there to be
a significant probability that they may evolve on into more
extensive application of the AKW system, our Utility,
participation in our bootstrapping communities, etc.

2d1b

3) We would want a contingent plan for being able to move
its data base and operations onto some other available
computer system in the event that the group did not proceed
with the AKW approach.

2d1c

4) If the group does carry on with our approach, the
operational staff that runs its information system (gathers
the data, updates the files, generates the output) are to be
staff within its organization -- and we would evolve a
relation with them that is basically the same as for any
organization that is a client to our KW Utility.

2d1d

B) A larger issue we discussed is an SRI proposal (under
development) to establish a World-Wide Energy Data Base for a large
group of international organizations. We indicated our interest in
certain supportive aspects of the information handling part of this
proposal.

3

We gave Pat an indication of the type of information handling
technology that is already available for supporting the
information needs of communities. Besides supporting
collaborative dialogue and special documentation aids, our
approach contains an explicit aim in this context -- to provide a
coherent type of "workshop interface" to many specialized computer
resources available through a computer network; and this includes
interfacing through different data-base-management systems to a
variety of data bases.

3a

Our forthcoming "Workshop Utility" is set up to provide, on an
operational basis, computer services for relatively extensive
access to system such as this. For discussion of costs, now and
in the future, see (14724,5:gebtzb).

3b

C) A related issue is the means of coordinating any large-scale SRI
program that would heavily involve some of the different divisions.

4

Discussion Log: 19 Jul 73, Pat Henry of SRI with DCE, PR, RWW, on
SRI Energy Program

We described last year's discussions with Bart Cox and Don Scheuch, much of which dealt with SRI's need to move into effective handling of very large, long-range, multi-disciplinary programs.

4a

The explicit example upon which these discussions were based was just such a case as this --

4b

where our planned "business" (our Utility, our "bootstrapping communities" plan, etc.) for providing augmented knowledge-workshop support to discipline- and mission-oriented collaborative communities

4b1

could support special-interest groups within SRI in their nucleating and facilitating the development of collaborative communities around their special interest.

4b2

D) Gave Pat a copy of both 12445 and 17427

5

D. C. Engelbart, COORDINATED INFORMATION SERVICES for a DISCIPLINE- OR MISSION-ORIENTED COMMUNITY, paper presented at the Second Annual Computer Communications Conference, San Jose, California, 24 January 1973. (Journal -- 12445,)

5a

D. C. Engelbart, R. W. Watson, J. C. Norton, THE AUGMENTED KNOWLEDGE WORKSHOP, paper presented at the National Computer Conference, New York City, June 1973. (Journal -- 14724,)

5b

E) Action Items: (Note that developing and serving special communities is coordinated within ARC by Dick Watson, and this would be so with Paul's actions below.)

6

1) Conduct a quick analysis (of the order of one man week) of the "Skills Inventory" problem of SRI's Energy groups and make recommendations about what could be done about it.

6a

In particular, find out:

6a1

- the real needs,
- expected response time and tolerable response times,
- expected usage,
- real value of retrieved information (cost-benefit analysis),
- the need for tailoring information into specific format to answer specific needs,-

6a1a

See whether or not SRI's "Skills Inventory System" could be

Discussion Log: 19 Jul 73, Pat Henry of SRI with DCE, PR, RWW, on
SRI Energy Program

utilized, and, if not, propose an alternate solution approach
with cost estimates. 6a2

2) At Pat Henry's suggestion, PR is going to contact Stan Field,
Manager of the Energy Economics Department to get better
acquainted with him and possibly explore with him some potential
areas of common interest. 6b

3) Within the framework of SRI's Energy Committee, PR will follow
up the question of our possible involment in the establishment of
energy community information centers. 6c

In particular, it appears that a large scale, multidisciplinary
development proposal for the creation of an integrated energy
information center which would take advantage of the existing
computer communication technology should be considered by SRI.
We believe that it is technically feasible and in conformity
with SRI's mission. 6c1

4) Collaborate on this with Dave Brown. 6d

5) Engelbart to keep Bart Cox informed. 6e

Discussion Log: 19 Jul 73, Pat Henry of SRI with DCE, PR, RWW, on
SRI Energy Program

(J18013) 25-JUL-73 18:33; Title: Author(s): Douglas C. Engelbart,
Paul Rech/DCE PR ; Distribution: /rww jcn pr mdk bc drb dnb ;
Sub-Collections: SRI-ARC; Clerk: DCE ;

Comments on Strategies to Support an Integrated SPF.

The enclosed package of material is in response to Steve Warshall's request of July 11, 1973 for comments on strategies to support an integrated SPF.

1

The Augmentation Research Center at SRI has had an interest in participating in a community of people desiring to create an SPF for many years. We have been calling such a facility a Software Engineering Augmentation System (SEAS) and have been pursuing various aspects as described by Weissman toward the development of such a system.

2

We feel that NLS offers a framework for Warshall's strategies 1 and 2 and a possible starting point for strategy 3. At the next meeting we hope to demonstrate some of the present NLS SPF capabilities.

3

The Papers enclosed were chosen to show the following:

4

17409 22-JUN-73 DCE Responding to Bob Balzer (17118), nominating Dick Watson to represent me/ARC in IPT's Automatic Programming Study Group, and briefly describing the SEAS Community plan

4a

This note of Engelbart's to Balzer indicates ARC's long time intent to try to help set up a SEAS community.

4a1

14724 1-MAR-73 DCE RWW JCN The Augmented Knowledge Workshop

4b

This paper describes ARC's overall framework for creating an integrated workshop such as an SPF and has a brief section on our present SPF capabilities.

4b1

13537 11-JAN-73 DCE SRI-ARC Summary for IPT Contractor-Meeting

4c

This summary of our R&D program indicates our plans to provide workshop services through a Tymshare run machine to groups such as one interested in an SPF.

4c1

7409 16-JUN-72 SRI-ARC CHI WHP APPENDIX E (Proposal ISU 71-94):
Software -Engineering Augmentation System

4d

This description was an appendix to our last ARPA proposal outlining some directions we hoped to pursue in SPF directions.

4d1

15249 22-MAR-73 NMDT A Look at the MPS Conversion

4e

This document was written at ARC management request to present arguments for reimplementing of NLS in a new programming system MPS which has had joint development by ARC and Xerox.

4e1

pages 196-199 of 13041 16-MAR-73 &SRI-ARC Online Team Environment

Comments on Strategies to Support an Integrated SPF.

/ Network Information Center and Computer Augmented Team
Interaction

4f

This excerpt from our last ARPA report described thoughts and
capabilities which existed at that point.

4f1

Comments on strategies to support an integrated SPF.

(J18014) 25-JUL-73 21:04; Title: Author(s): Richard W. Watson/RWW;
Sub-Collections: SRI-ARC; Clerk: KIRK;
Origin: <WATSON>COVER-LETTER.NLS;2, 25-JUL-73 18:33 KIRK ;

Arpanews

Jean--

I noticed that the June issue of the Arpanet News was not sent out in hardcopy. I also noticed that no one around here has bothered to read it online. Some people have asked me whether it even came out. I would like to suggest that you continue to release it in hardcopy at least to station agents (and maybe liaisons as well), or else no one will read it. That seems like wasted effort. In addition we will never reach the user population that we would like to contact for USING if the paper only exists online. If you return to hardcopy I'd like a copy of the JUNE issue as well please. Thanks, Nancy

1

18015 Distribution
Jean Iseli,

Arpanews

(J18015) 26-JUL-73 07:46; Title: Author(s): Nancy J. Neigus/NJN;
Distribution: /JI; Sub-Collections: NIC; Clerk: NJN;

Distribution List addition

Jeanne--

Peter Radford from Logica Limited in London has been staying with our imp group at bbn for several months. They have an arrangement with us to marketimps in Europe. While he was here I have been supplying him with RFC's and other information that comes in from you about the net. He is returning to London next week, and in order to continue to receive info on the net, I think he should be put on some distribution list. I thought that the Network Associates Group would be the most appropriate place, but I may have the wrong idea of who is supposed to be in that group. In any case I leave it up to you to place him smewhere. He needs to receive all protocol documents, possibly RFC's, and things like therpanet News. His address is as follows:

Peter Radford
Logica Limited
31-36 Foley Street
London W1P 7LB
England

Phone = 01-637 1511

I gave him your name and address so he can contact you if he doesn't hear anything further. I hope you can get this straightened out.

Thanks very much. --Nancy
(therpanet News = the Arpanet News)

1

18016 Distribution
Jeanne B. North,

Distribution List addition

(J18016) 26-JUL-73 08:05; Title: Author(s): Nancy J. Neigus/NJN;
Distribution: /JBN; Sub-Collections: NIC; Clerk: NJN;

Indicating Interest in Working Out More Satisfactory Numbering Policy

JEW -- As you say, in proposing a change in the number conventions, you are entering an arena of previous encounters, some of them before my time and wrapped in myth. Some protagonists have been silenced but unconvinced, which indicates the issue is not satisfactorily resolved, and I too would like to look again at the issue and at alternative ways of meeting it. Freshly inspired by your exposition, I am working on what is as yet a plonking-sounding essay (perhaps the influence of Watergate hearin's). When I have it further thought-out and better stated, I'll put it in the dialogue. This is to respond to you that I share your concern about the dissatisfaction with the present number system, and want to work to find more satisfactory practices -- JBN

18017 Distribution

James E. (Jim) White, Richard W. Watson, Michael D. Kudlick,

Indicating Interest in Working Out More Satisfactory Numbering Policy

(J18017) 26-JUL-73 09:07; Title: Author(s): Jeanne B. North/JBN;
Distribution: /JEW RWV MDK; sub-Collections: SRIARC NIC ; Clerk: JBN;

Comment on Measurements in General and on the Measurement of CA
Patterns (17880,) in Particular

In JBN's study of times for various content analyzer patterns, there appears to be some discrepancy. In Example 3 (["Protocol"] OR ["Postel"]) the time for execution is listed as being 20.2 seconds. In Example 4 (["Protocol"] / ["Postel"]) the time for execution is 39.0 seconds.

1

The results (size of output file) in both cases is the same, implying some great inefficiency in the compiler. I checked the code dropped out in both cases and discovered it to be identical. This implies to me that the measurement procedure is suspect.

2

Such measurements and analyses are extremely valuable and will be carried out with increasing frequency on all parts of our system. It behooves us to be extremely careful and exact in the mode of measurement in order not to bias the results; publication of the results should indicate the method used in greater detail so that the procedures could be checked for accuracy and/or correctness.

3

Care must be taken with respect to the dispersal of inaccurate measurements and comparisons; any "scientific" study should include a statistical error analysis based on a suitably large sampling. I have not noted this to be the case in any of our measurements to date.

4

18018 Distribution

Donald C. (Smokey) Wallace, Richard W. Watson, Don I. Andrews,
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, Kay F. Byrd, James E. (Jim)
White, Diane S. Kaye, Paul Rech, Michael D. Kudlick, Ferg R.
Ferguson, Linda L. Lane, Marilyn F. Auerbach, Walt Bass, 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, William H. Paxton, Jeffrey C. Peters, Jake Ratliff,
Edwin K. Van De Riet, Dirk H. Van Nouhuys, Kenneth E. (Ken) Victor

Comment on Measurements in General and on the Measurement of GA
Patterns (17880,) in Particular

(J18018) 26-JUL-73 09:18; Title: Author(s): Harvey G. Lehtman/HGL;
Distribution: /SRI-ARC; Sub-Collections: SRI-ARC; Clerk: HGL;

Network Users Group (USERS)

Please notify people at your site who might be interested that there is now a network group known as the Network Users Group (USERS). This group is an offshoot of the Network Users Working Group (USING) that was formed in June of this year with Dave Crocker and Nancy Neigus as coordinators. Members of USERS should be willing to make comments and contributions as a Network user, and will be on distribution for Network dialog concerning user needs. To become a member of USERS send name and Network mailing address to: Jake Feinler (JAKE or FEINLER@NIC)

1

18020 Distribution

Jean Iseli, David H. Crocker, Nancy J. Neigus, Stephen M. Wolfe,
Ronald M. Stoughton, Jim O. Calvin,
Sol F. Seroussi, Scott Bradner, Robert H. Thomas, John C. Thomas,
Michael J. Romanelli, Ronald M. Stoughton, A. D. (Buz) Owen, Robert
L. Fink, Jeanne B. North, Steve D. Crocker, Thomas F. Lawrence, John
W. McConnell, James E. (Jim) White, A. Wayne Hathaway, Patrick W.
Foulk, Richard A. Winter, Harold R. Van Zoeren, Alex A. McKenzie,
Abhay K. Bhushan, Thomas N. Pyke, B. Michael Wilber, Edward A.
Feigenbaum, Robert T. Braden, James M. Pepin, Barry D. Wessler, John
T. Melvin, Leroy (Lee) C. Richardson, Frank G. Brignoli, Elizabeth J.
(Jake) Feinler, Michael D. Kudlick, James E. (Jim) White, Michael A.
Padlipsky, Kenneth L. Bowles, A. Wayne Hathaway
Jeanne B. North, Jay R. Walton, Steven F. Holmgren, Terence E.
Devine, David J. King, William L. Andrews, Milton H. Reese, Kenneth
M. Brandon, Lou C. Nelson, Jeffrey P. Golden, Richard B. Neely, Dan
Odom, Ralph E. Gorin, Robert G. Merryman, P. Tveitane, Adrian V.
Stokes, David L. Retz, Reg E. Martin, Gene Leichner, Jean Iseli,
James E. (JED) Donnelley, William Kantrowitz, Michael S. Wolfberg,
Yeshiah S. Feinroth, James Hurt, Anthony C. Hearn, Eric F. Harslem,
Robert M. (Bob) Metcalfe, Bradley A. Reussow, Daniel L. Kadunce,
George N. Petregal, Michael B. Young, Michael A. Padlipsky, Schuyler
Stevenson, L. Peter Deutsch, John Davidson, Thomas O'Sullivan

Network Users Group (USERS)

(J18020) 26-JUL-73 11:41; Title: Author(s): Elizabeth J. (Jake)
Feinler/JAKE; Distribution: /NICSTA NLG USING(for your information);
Sub-Collections: SRI-ARC NICSTA NLG USING; Clerk: JAKE;

Ident Information and FAIL Documentation

Jed-- Marcia Keeney passed your memo (17940,) along to me. 1

First, the meanings of some of the fields in your (and everyone else's) ident file entry: 2

IDENT: This field is your NIC ident, the name by which the NIC knows you. 2a

IMP: This field is now obsolete, is not used by any software here at the NIC, and will disappear entirely at some point. 2b

HOST: This field represents the host at which you will receive delivery of your Journal mail via the FTP mail protocol. 2c

The host name ('BBN-TENEX') you provided (17448,4b3:gy) in response to my RFC query for Network mailbox addresses (JEW RFC 510 -- 16400,2:y) is what got stuffed in here. 2c1

You get NETWORK Journal delivery if and only if the 'Delivery:' field contains the value NETWORK (it may also contain either ONLINE or HARDCOPY or both in addition). 2c2

LOCAL NETWORK MAILBOX ADDRESS: This field represents the user name (at the host in the 'Host:' field) to which your Journal mail will be delivered via the FTP mail protocol. 2d

The mailbox name ('JED') you provided (17448,4b3:gy) in response to my RFC query for Network mailbox addresses (JEW RFC 510 -- 16400,2:y) is what got stuffed in here. 2d1

The 'Ident:' and 'Local Network Mailbox Address:' fields are not, in general, the same. They're only the same in your case because you happen (apparently) to have a directory at BBN-TENEX whose name is the same as your NIC ident. 3

If you wanted Journal delivery to RISOS@ISI, rather than to JED@BBN, you would change (or ask us to change) HOST to 'ISI' and LOCAL NETWORK MAILBOX ADDRESS to 'RISOS'. 4

Some hardcopy documentation on FAIL is coming to you by mail (I know of no on-line stuff around, though it may exist somewhere). --Jim White 5

18021 Distribution
James E. (JED) Donnelley,

Ident Information and FAIL Documentation

(J18021) 26-JUL-73 12:00; Title: Author(s): James E. (Jim)
White/JEW; Distribution: /JED; Sub-Collections: SRI-ARC; Clerk: JEW;
Origin: <WHITE>JEDMSG.NLS;2, 24-JUL-73 12:41 JEW ;

Hardware Costs

It seems extremely obvious we do not care much about saving hardware costs.

Most of us still do not turn off our displays (top red button) when done.

1

18022 Distribution

Donald C. (Smokey) Wallace, Richard W. Watson, Don I. Andrews,
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, Kay F. Byrd, James E. (Jim)
White, Diane S. Kaye, Paul Rech, Michael D. Kudlick, Ferg R.
Ferguson, Linda L. Lane, Marilyn F. Auerbach, Walt Bass, 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, William H. Paxton, Jeffrey C. Peters, Jake Ratliff,
Edwin K. Van De Riet, Dirk H. Van Nouhuys, Kenneth E. (Ken) Victor

Hardware Costs

(J18022) 26-JUL-73 12:03; Title: Author(s): Martin E. Hardy/MEH;
Distribution: /SRI-ARC; Sub-Collections: SRI-ARC; Clerk: KFB;