

Resource Notebook Information

Jake, here is some more input for the Resource Notebook which I extracted from the last transmittal letter or two:

1

NIC 14134 (RFC 450) by Mike Padlipsky

1a

Announces an increase in the amount of CPU time permitted
'guest' users

1a1

NIC 14740 (RFC 466) by Joel Winett

1b

A detailed description of Lincoln Lab's Server TELNET (this
should at least be cited in the RNB).

1b1

15145 Distribution

Feinler, Elizabeth J. (Jake) ,

JEW 19-MAR-73 15:34 15146

Offer to Write a Proposed, Detailed Mail Spec

Attention, Abhai Bhushan.

Offer to Write a Proposed, Detailed Mail Spec

I hereby offer to write a detailed spec for handling Network mail. Since we didn't get to that topic at the Boston Meeting, it seems to me (as suggested to me by Alex Mc Kenzie) that we ought to go ahead and make a firm proposal, to get things rolling.

1

The command set might follow the example of RFC 479 (see -- 14948,).

2

Bob Braden suggested to me a rather interesting idea regarding the structure (as opposed to the substance) of the Mail dialog.

3

He suggested that, instead of taking place within the FTP command space, the mail dialog might be implemented as a distinct server process, using FTP in the same manner as the RJE server process does.

3a

Thus a Mail server process, governed by a protocol like that of RJE and FTP (i.e., NVT command language, numbered replies, etc.), would assume the existence of FTP as a resource upon which it could draw.

3b

The Mail user-server exchange would consist of the kind of dialog described in RFC 479, and the Mail user process would always pass to the server a pathname for the mail, rather than the text of the mail itself, which the server Mail process would fetch with its user FTP process.

3c

The file containing the text of the mail would either be short-lived (deleted by the Mail user process as soon as its receipt was acknowledged by the Mail server process) or permanently available (i.e., the mail is recorded), and hence might be fetched by the Mail server process (or his user) at his convenience.

3c1

The Mail server process might also support read-mail commands, as suggested by Bressler and Thomas in RFC 458 (see -- 14378,).

3d

15146 Distribution

Day, John D. , Bressler, Robert D. (Bob) , Deutsch, L. Peter , Ryan,
Neal D. , Winter, Richard A. , Watson, Richard W. , Hicks, Gregory P.
, White, James E. (Jim) , Wolfe, Stephen M. , Neigus, Nancy J. ,
Pogran, Kenneth T. , Hathaway, A. Wayne , Clements, Robert C. ,
Seriff, Marc S. , Knight, Thomas F. (Tom) , Bhushan, Abhay K. ,
Braden, Robert T. , Chan, Arvolo , Crocker, Steve D. , Harslem, Eric
F. , Heafner, John F. , Fitzsimmons, Jerry , McKenzie, Alex A. ,
Melvin, John T. , Metcalfe, Robert M. (Bob) , Postel, Jonathan B. ,
Tomlinson, Ray S. ,

Data-Base Facilities. Report #2. Release of the NIC/QUERY
Language.

this article retraces the history of the project, explains the particular goals it was aimed at and documents th commands available in the present system. A mechanism is provided for comments and suggestions in the form of a new ident group called NIC-QUERY.

Data-Base Facilities. Report #2. Release of the NIC/QUERY Language.

JFV 15-MAR-73. RELEASE OF THE NIC/QUERY LANGUAGE.

1

This is to announce the release of a new version of the Query language. At this occasion it seems useful to place NIC/QUERY in perspective so that members of the ARC community who are not prime users of the system may understand what we're trying to do and why we go about it in this particular way. The following retraces the history of the project, explains the particular goals it was aimed at, and documents the commands available in the present system. A mechanism is provided for comments and suggestions.

2

1. HISTORY.

3

The first attempt to develop a retrieval language prototype was aimed at a display-oriented system. I spent several weeks implementing an experimental program that would split the screen and give users access to both a data-base template and the data itself under that template, because such a system would take ideal advantage of the capabilities of NLS in terms of both structure and display.

3a

The prototype began to work but the whole idea was shot down because of the imminent ICCC demonstration where we needed a teletype-oriented system restricted to the Resource Notebook.

3b

In response to this we had to devise a very simple way to manipulate complex data structures, including on-line indices. The other constraints we had were i) to have the capability to handle a single file both on-line and off-line, without the duplication found in other systems, ii) to have a self-documenting language and iii) to give access to complex hierarchical structures to users who could not be trained in the use of levels and viewspecs.

3c

The program offered at the ICCC, which is documented in previous Journal articles, provided the above capabilities. In addition, it could potentially support other data-bases than the Resource Notebook, but this feature was not utilized.

3d

The decision to implement a second version of Query was made for two reasons. The first reason was the difficulty of handling large files in economical fashion under NLS, and the desirability of splitting the Resource Notebook into smaller units. The second reason was the obvious need to provide access to our data-bases even in the case of users who knew very little about NLS as a language.

3e

Data-Base Facilities. Report #2. Release of the NIC/QUERY Language.

2. CHARACTERISTICS OF NIC/QUERY.

4

The second version of Query which is now released to Network users has the following features:

4a

i) It enables users to load any NLS file through the "bring" command. This command is NOT a simple load file in the NLS sense because it defaults the file directory according to an algorithm that gives priority to the <NETINFO> directory where NIC files are stored, then to the directory under which the user is logged in.

4b

ii) The command language is such that the names of the most commonly-used data-bases are also the names of the commands to load them. Thus the Resource Notebook can be "brought" into view just by typing the letter R, the ARPANET NEWS can be brought by the letter A, etc. The user can always return to what looks to him like the beginning by typing an N for NIC, as he did when he entered the sub-system either from EXEC or from TNLS.

4c

iii) There exists a directory of less frequently used files that can be accessed by typing the letter D. It gives further instructions in using the data-bases.

4d

iv) When the user is in need of further instruction in the use of the language he can type a question mark to obtain a complete description of commands. This avoids the need to provide all potential users with manuals and it places that information where they need it, namely at the terminal itself. Both the initial instructions and the help information are data files too, so that they can be maintained without recompiling QUERY itself. In fact, QUERY is completely bootstrapped in the sense that its first action is to load its own initial instruction file and jump to the first statement in that file.

4e

v) Whenever a file is "brought", a jump is executed to the first statement in that file. This enables data-base administrators to "lead the user by the hand" by instructing him in the use of the particular structure of their data-base. It limits the responsibility of QUERY itself in providing context-dependent information.

4f

vi) Once a data-base has been "brought" into core, successive views of it are obtained by use of the "show" command. This command automatically manipulates the viewspecs for the user

Data-Base Facilities. Report #2. Release of the NIC/QUERY Language.

so that only the statement designated by name is displayed, together with the first level of the plex under it.

4g

This approach has the following characteristics:

4g1

a) A template (or "menu") is always given to the user, so that he has an awareness of the structure below him.

4g2

b) Any statement that lies more than one level down from a named statement is invisible to on-line users. This was done by design to mask long textual information (say, in the Resource Notebook) from terminal users, while retaining this information in the off-line file used for printing.

4g3

vii) A viewspec capability is provided so that instructions to display statement numbers or signatures are transparent to QUERY. Naturally the viewspecs that act upon the number of levels displayed, or the indentation, will be inoperative since QUERY controls them for its own purposes.

4h

3. FUTURE EVOLUTION.

5

It is imperative that NIC/QUERY, which is now in active use over the ARPANET, remain VERY STABLE both in operation and in command language over the coming months. Therefore we do not intend to make drastic changes in the present context. We do, however, have here an opportunity to study the dynamics of a simple retrieval mechanism. We have already learned a great deal from both the ICCC experiment and the second version, and we need to actively investigate proposals for future implementations.

5a

A recent users meeting at ARC has set up a mechanism for review and evolution of the language. A new ident group called NIC-QUERY has been defined and will allow us to centralize suggestions. My own proposal is that we place any ideas about future retrieval systems based on NLS in the context of the "Data Base Facilities" effort, because we should not take a piecemeal view of our file organization problems.

5b

REFERENCES

6

25-JUL-72 (KJOURNAL, 11136, 1:w)

A facility to interrogate network resources

7

Comments: This article outlines a service to be demonstrated at the ICCC conference, providing a simple-minded way of

Data-Base Facilities. Report #2. Release of the NIC/QUERY Language.

getting 'resource notebook' type information from a teletype.

7a

22-AUG-72 (KJOURNAL, 11558, 1:w)

File Control instructions for simple NETINFO queries

8

Comments: A retrieval system that saves casual users the trouble to learn about NLS file structures is described. It is applied to the on-line query of ARPANET information with the ICCS conference as a target for demonstration. The service will be maintained after the Conference. Instructions for update and maintenance of the data-base are given.

8a

19-SEP-72 (LJOURNAL, 11841, 1:w)

Q1: A Simple Retrieval Tool for TNLS Structured Files.

9

Comments: This describes a prototype that is available for testing. It can be used for accessing personal files as well as the NIC Resources Notebook. It will be integrated in NLS within a couple of weeks. To use the prototype in the mean time, do the following:

```
get <rel-nls>xnls
ddt
tnls [alt mode]g
then proceed as shown in the example.
```

9a

8-DEC-72 (MJOURNAL, 13224, 1:w)

Viewspecc capability implemented in Query.

10

Comments: Query language users can now specify their own viewspeccs. Also formatting of individual branches is now possible through viewspeccs embedded in the file.

10a

10b

Data-Base Facilities. Report #2. Release of the NIC/QUERY
Language.

(J15147) 19-MAR-73 10:58; Title: Author(s): Vallee, Jacques F. /JFV;
Sub-Collections: NIC-QUERY; Clerk: JFV;
Origin: <VALLEE>NQ.NLS;1, 19-MAR-73 10:54 JFV ;

JHB 19-MAR-73 5:25 15148

Introductory Command Summary for TNLS (FEB 73)

Collated for use at RADC; Journalized for Accessable Storage

Introductory Command Summary for TNLS (FEB 73)

.H1="COMMAND SUMMARY;

1

AHI INTRODUCTORY COMMAND SUMMARY

2

For reference. Small subset of NLS commands selected to enable user to have almost full capability for routine use.

2a

Pages (eg. p.1) reference the respective section of the NIC TNLS Users Guide. See for explanation of command.

2b

DEFINITIONS:

3

SP = space

CR = carriage return

CDOT = control shift B (CTRL key and capital B hit together)
To repeat the same command without typing it in again

EMPTY = you enter nothing in that field

BRACKETS = used to denote what system echos back to you after you type the specified character

3a

ESC = Escape key, completes names, commands, etc. from first 3 characters in Exec. Use optional in most cases, but recommended since it saves typing the whole command.

3b

VIEWSPECS = Single characters that control what you view, eg. "w" = all lines all levels. More than one may be used at a time. (see card for all viewspecs)

3c

LIT = Any literal text you wish to enter

3d

Section 1. EXECUTIVE COMMANDS NOTE: Executive command mode preceded by a @

4

log SP USERNAME SP PASSWORD SP ACCOUNT NO. CR (p.1)

4a

USERNAME CR PASSWORD CR CR (=the fast way, system will echo stuff--ignore it, then wait for "Job #, etc.)

4b

dir[ectory] CR (lists all your files) (p.4)

4c

dir[ectory] SP <OTHER DIRECTORY'S NAME> CR (p.4)

4d

dir[ectory] SP, CR (takes you to directory subsystem) (p.4)	4e
@@size CR (system gives you @@ for subcommand mode)	
@@EMPTY CR (p.4)	4e1
@@everything CR (prints all information about files)	
@@EMPTY CR (p.5)	4e2
@@deleted [files only] CR	
@@EMPTY CR (p.5)	4e3
delete SP FILENAME CR (p.6)	4f
undelete SP FILENAME CR (p.7)	4g
rename ESC [(existing file)] FILENAME ESC [(to be)] FILENAME CR (p.7)	4h
link [(to)] USERNAME CR (p.9)	4i
break [(links)] CR (p.10)	4j
sys CR (gives list of users when system load is low) (p.10)	4k
where [(is user)] USERNAME CR (p.11)	4l
nls CR (takes you to the on-line system) (p.12)	4m
con[tinue] CR (p.12)	4n
quit CR (p.13)	4o
logout CR (p.14)	4p
snd ESC [CR] (to send a MESSAGE)	
[USERS:]USERNAME,USERNAME,etc. CR	
[subject:] YOUR TITLE CR	
[message (? for help):] YOUR MESSAGE Control Z	
(System will prompt you, variations may occur)	

4q

TNLS COMMANDS NOTE: Used only when in TNLS as indicated by
command herald: *

5

Section 2. TNLS FILE COMMANDS

l[oad] f[ile] FILENAME CR	(p.11)	6a
u[pdate file CR o[(to old version)] CR	(p.13)	6b
o[utput] f[ile] FILENAME CR	(p.14)	6c
o[utput] d[evice] t[eletype] CR	(p.16)	6d
e[xecute] a[ssimilate structure] statement [at] ADDR CR VIEWSPEC CR branch [at] plex [at] group [at] ADDR CR ADDR	(p.19)	6e
NULL File (to create a new file)		6f
n[ull] f[ile] FILENAME CR		6f1

Section 3. ADDRESS COMMANDS

MOVE Control Marker TO ADDRESS =	(p. 19)	7a
SP ADDR CR		7a1
ADDR = any of the following preceded by a SPACE (except for statement #):		7b
statement number preceeded by a period.		7c
statement name (eg. (TOREAD), given by you)		7d
n(ext) (move to next statement) b(ack) (previous statement) h(ead) (first statement in plex) t(ail) (last statement in plex) e(nd) (last statement in branch)		7e
[LIT] (enclosed in brackets)		7f
right-left specification=		7g

COMMAND SUMMARY;

+ or -c(haracter) precede by #
 + or -w(ord) precede by #
 < (to beginning of statement
 > (to end of statement) 7h

LINK specification (must be enclosed
 in parentheses) eg.
 (directory,filename,ADDR:viewspecs) 7i

† (jump to file specified in link) 7j

@ (jump to file ahead) 7k

& (jump to file return) 7l

< (move to beginning of statement) 7m

> (move to end of statement) 7n

print context of Control Marker 7o

or any valid combination of the above
 7p

PRINT CURRENT CONTROL MARKER LOCATION = (p. 22) 7q

. 7q1

PRINT STATEMENT AT CONTROL MARKER = (p. 22) 7r

7r1

/ 7r2

PRINT STATEMENT BACK FROM CM = (p. 23) 7s

† 7s1

PRINT STATEMENT NEXT TO CM = (p. 23) 7t

LF 7t1

Section 4. TEXT CREATING & VIEWING COMMANDS

8

i[nsert] s[tatement at] ADDR CR EMPTY CR
u(p) SP
d(own)
LIT (type in any length of text, auto returns carriage) CR
or (p.1)

i[nsert] c[haracter at] ADDR CR
w[ord at]
l[ink at]
t[ext at]
LIT CR

(p.4) 8a

EDITING WHILE ENTERING TEXT <Grab=7> 8b

The following characters may be used as follows when
entering text: 8b1

BC or !A - 8b1a

backspace previous character. One character is
deleted each time this key is pressed. 8b1a1

BW or !W - 8b1b

backspace previous visible/word. One word and its
preceding space is deleted each time this key is
pressed. 8b1b1

A visible is any series of printing characters. 8b1b1a

BS or !Q - 8b1c

backspace statement. The entire current LIT is
deleted when this key is pressed. 8b1c1

!R - 8b1d

show current LIT. This key causes the system to
print the current content of LIT as it is being
entered. This is helpful when several of the above
editing characters have been used during text entry
and the user is unsure of the current content of LIT. 8b1d1

p[rint] s[tatement] ADDR CR VIEWSPEC CR
b[ranch]
p[lex]
g[roup] ADDR CR ADDR (p.7) 8c

STOP PRINTING:
control O (simultaneously; not the number 0) 8d

v[iewspecs] VIEWSPECS CR (p.12) 8e

e[xecute] v[iewchange] CR (p.17)
f[eedback] CR
c[haracters xx] XX CR Control X 8f

Section 5. TEXT EDITING COMMANDS 9

m[ove] s[tatement to] ADDR CR [from] ADDR CR EMPTY CR
b[ranch to] u[p]
p[lex to] d[own]
g[roup to] ADDR CR ADDR

w[ord to] ADDR CR [from] ADDR CR
c[haracter to]
l[ink to]
t[ext to] ADDR CR ADDR (p.1) 9a

c[opy] s[tatement to] ADDR CR [from] ADDR CR EMPTY CR
b[ranch to] u[p]
p[lex to] d[own]
g[roup to] ADDR CR ADDR

w[ord to] ADDR CR [from] ADDR CR
c[haracter to]
v[isible to]
i[nvisible to]
n[umber to]
l[ink to]
t[ext to] ADDR CR ADDR (p.4) 9b

d[elete] s[tatement] CR [ok?] CR
b[ranch] ADDR
p[lex]
g[roup] ADDR CR ADDR
w[ord]
c[haracter]
l[ink]
t[ext] ADDR CR ADDR (p. 6) 9c

r[eplace] s[tatement] ADDR CR [by text?] y[es CR] LIT CR
b[ranch] n[o] ADDR
p[lex]
g[roup] ADDR CR ADDR
w[ord]
c[haracter]
t[ext] ADDR CR ADDR (p. 8) 9d

t[ranspose] s[tatement at]
b[ranch at] ADDR CR [and] ADDR CR
p[lex at]
g[roup at] ADDR CR ADDR ADDR CR ADDR
w[ord at]
c[haracter at]
t[ext at] ADDR CR ADDR ADDR CR ADDR (p.10) 9e

a[ppend to] ADDR CR [from] ADDR CR EMPTY CR
LIT (p.12) 9f

b[reak statement at] ADDR CR EMPTY CR
u[p]
d[own] (p.14) 9g

s[ubstitute] t[ext in] s[tatement at] ADDR CR
b[ranch at]
p[lex at]
g[roup at] ADDR CR ADDR

[text] LIT CR [for text] LIT CR [Go?] y[es]
CR
n[o]... (p.16) 9h

s[ubstitute] w[ord in] s[tatement at] ADDR CR
b[ranch at]
p[lex at]
g[roup at] ADDR CR ADDR

[word] LIT CR [for word] LIT CR [Go?] y[es]
CR
n[o]... (p.16) 9i

x[set] m[ode] c[apital] CR
l[ower]
s[tatement at] ADDR
c[haracter at]
w[ord at]
l[ink at]
t[ext at] (p.18) 9j

JOURNAL SUBSYSTEM

10

SENDING/RECEIVING MESSAGES TO/FROM OTHER USERS <PBS>

10a

SUBMITTING ITEMS TO THE JOURNAL

10a1

e[xecute] j[ournal] CR
s[ubmit] s[tatement] ADDR CR [CR]
f[ile]
m[essage CR] LIT

10a1a

[number:] CR [CATNUM]

10a1b

JOURNAL COMMANDS

10a2

INTERROGATE

10a2a

i[nterrogate] CR

10a2a1

AUTHOR

10a2b

a[uthor(s):] CR
IDENTLIST CR

10a2b1

TITLE

10a2c

t[itle:] LIT CR

10a2c1

DISTRIBUTION	10a2d
d[istribution:] IDENTLIST CR	10a2d1
STATUS	10a2e
st[atus] CR	10a2e1
QUIT	10a2f
q[uit] CR	10a2f1
GO	10a2g
g[o?] y[es] CR n[0] SP	10a2g1

JHB 19-MAR-73 5:25 15148

Introductory Command Summary for TNLS (FEB 73)

(J15148) 19-MAR-73 5:25; Title: Author(s): Bair, James H. /JHB;
Keywords: training aids introduction TNLS; Sub-Collections: RADC; Clerk:
JHB;
Origin: <BAIR>COMMANDS.NLS;7, 20-FEB-73 13:34 JHB ;

Sam,

By now< you should have received the first issue of the ARPANET News which will be distributed on a monthly basis and augmented with on-line, through the NIC "NIC" query feature with weekly updates.

I would appreciate any newsworthy items you might be able to supply relative to your plans Et. Al. Items can be sent to JI at the NIC through journal mail, or sent to: John Iseli, The MITRE Corporation, 1820 Dolly Madison Blvd., Westgate Research Park, McLean, Virginia 22101.

Thnak you for your consideration and rely.

Regards, John

1

15149 Distribution

McCutchen, Samuel P. , Monroe, Brenda ,

(J15149) 19-MAR-73 8:15; Author(s): Iseli, Jean /JI; Distribution:
/SPM(Have also taken the liberty to copy BM) BM; Sub-Collections: NIC;
Clerk: JI;

Richard,

By now, you should have received the first hard-copy issue of the ARPANET News which will be distributed monthly. To provide rapid exposure for the news< we are providing a weekly on-line update which may be viewed through the "NIC" query feature at SRI-ARC.

I would appreciate your consideration relative to providing me with any newsworthy items from CCA and the DATACOMPUTER effort.

Such items may be forwarded to JI at the NIC through the Journal System< or if more convenient for you, through SNDMSG to ISELI@USC-ISI.

Thanks and regards,Jean

1

15150 Distribution
Winter, Richard A. ,

Bradley,

Thank you for your contribution to the first issue of ARPANET News; it has been distributed as hard-copy as you are probably aware.

I would appreciate any newsworthy items you could supply now and on an on-going basis since we are also providing weekly on-line updates to the News to ensure rapid exposure to the ARPANET community. These may be directed to JI at the NIC through the JJournal System or to ISELI@USC-ISI.

Thanks again for your support and consideration. Regards,...Jean

1

15151 Distribution
Reussow, Bradley A. ,

Gentlemen:

As you are probably aware, the first issue of the ARPANET News has been distributed as hard-copy. To provide for rapid exposure of the news, we are producing a weekly on-line update of the news which can be viewed at the NIC through the "NIC" query feature.

As Liaisons for your sites, you could provide a valuable service to the ARPANET community by submitting timely newsworthy items to J1 at the NIC, or to ISELI@USC-ISI if more convenient.

Thank you for your on-going consideration.

Regards,Jean Iseli

1

15152 Distribution

Hathaway, A. Wayne , Romanelli, Michael J. , Padlipsky, Michael A. ,
Hearn, Anthony C. , Pepin, James M. , Davidson, John , Madden, James
M. , Stoughton, Ronald M. , Ollikainen, Ari A. J. , Braden, Robert T.
, Martin, Reg E. , Feigenbaum, Edward A. , Stein, James H. , Wilber,
B. Michael , Shoshani, Arie , Falk, Gil , Harslem, Eric F. ,
Lawrence, Thomas F. , Metcalfe, Robert M. (Bob) , Deutsch, L. Peter ,
Pyke, Thomas N. , Bhushan, Abhay K. , Kantrowitz, William ,
Donnelley, Jed E. , Winett, Joel M. , Fink, Robert L. , McConnell,
John W. , Meir, Jaacov , Bradner, Scott , Thomas, John C. , Reins, E.
R. (Dick) , Petregal, George N. , Van Zoeren, Harold R. , Foulk,
Patrick W. , Thomas, Robert H. , McKenzie, Alex A.

Test from JRP

hiya roland, this is a test message from pickens so that you can
see how the message stuff works.

1

15153 Distribution
Bryan, Roland F. ,

NP -- thoughts on a Jump from Mouse command.

Concerning a "DNLS Query language"

1

This is to be used with very structured NLS files
(kelley,history,1:telbB) (kelley,science,1:telE) some form of
which may eventually be usable as an easily accessed
encyclopedia of knowledge. see -- kelley,science,10:wy>

1a

This could eventually be incorporated in the jump mode of NLS
as: Jump from Mouse. It allows the user to access any file
with no more than three commands corresponding to the three
buttons on the mouse:

1b

[OUT] [?] [IN]

1b1

in which case

1c

Pushing the first button on the mouse is equivalent to Jump
to Return.

1c1

Pushing the second button on the mouse is equivalent to
Jump to Item with viewspec: s.

1c2

Pushing the third button on the mouse is equivalent to Jump
to Link command,

1c3

Ideally (but differing from current NLS and therefore maybe
not trivial to implement at this time),

1c4

Each button would require only one push instead of two.

1c4a

The first button would be capable of returning to all
previous locations, except those between an identical
location, including Jump to File Return whenever
necessary, and including any viewspec changes as a
different location.

1c4b

If that much memory is not available, it would be
helpful if the the user could get to the original
view of the original file by saving that view in the
jump stack somehow.

1c4b1

Pushing the third button should be equivalent to Jump to
Item with viewspecs: eb if no link is found.

1c4c

I think something like this should be a feature of
the NLS Jump to Link command anyway, instead of
saying ILLEGAL LINK.

1c4c1

15154 Distribution

Irby, Charles H. , Dornbush, Charles F. ,

Bug in TRANSPOSE STATEMENT with respect to SIDs.

There is a bug in the way "Transpose Statement" works, with respect to the SID's. The bug is that the TEXTS of the statements are transposed, but the NODES aren't. That is, the SID's stay with the old nodes rather than being transposed also. Try it on the following text.

1

For example, instead of

2

2) SIMPLE names ought to be used.

3

"renaming"; "copying".

3a

1) Each file

3b

15155 Distribution

Kaye, Diane S. , Lehtman, Harvey G. , Irby, Charles H. , Dornbush,
Charles F. , Watson, Richard W. ,

To: Bob Wing From: Jim Norton for ARC

1

This is all I could come up with under the pressures that exist today. I'm leaving for Washington tomorrow 3/13 and won't be back until Friday (or late Thursday pm).

1a

MOTOR GENERATOR: for ARC and/or AI and other use

2

Approximate cost: \$25,000.

2a

Need:

2b

We in ARC want to proceed with obtaining a Motor-Generator as outlined in the attached study by Martin Hardy (14154,). What remains to be done is for us to:

2b1

Submit a purchase order for approval. A 50KW unit would be adequate for ARC. The installed cost would be in the neighborhood of \$18,000. If it is desirable to support ARC, AI and the PDP-11 we will need G.E's 150KW unit. Installed cost is in the neighborhood of \$25,000. This seems like better future planning to us

2b1a

TEMPERATURE, HUMIDITY, AND LINE MONITOR with automatic alarm.

3

Approximate cost: \$2,000.

3a

Need: To continually monitor our facilities temperature, humidity, and voltage conditions and automatically turn off power when an over-temperature is sensed. In the past we have had many week-end air conditioner troubles that have pushed temperature beyond hardware specifications. We must turn off power if we are to expect a reliable hardware system.

3b

TV PROJECTOR SPARE PARTS:

4

Approximate cost: \$1,000.

4a

Need: To provide back-up spare parts for the hard to get items that will require replacement from time to time.

4b

SWEEP GENERATOR:

5

Approximate cost: \$2,500.

5a

Need: To align, calibrate and test our television associated equipment. 5b

VIEW FINDER CAMERA: 6

Approximate cost: \$2,000. 6a

Need: As a dedicated camera, (with a built in view finder monitor mounted on top and provisions for external sync), so that we can properly video tape and project live, our seminars and conferences. Our current camera equipment does not provide this. 6b

PROTOTYPE EQUIPMENT FOR WORKSHOP UTILITY TERMINALS 7

Approximate cost: \$6,000. (?) 7a

Need: We will need to find and test several terminals with the goal of finding a terminal that can effectively and cheaply provide DNLS service over the ARPANET to users of the planned Workshop Utility. 7b

INPUT DEVICES FOR THE IMLAC TERMINAL 8

Approximate cost: \$3,000. (?) 8a

Need: We need to test other input devices for terminals. These would include light pens, joy sticks, and tablets, with the purpose of trying to find other ways to give input capabilities to a wider variety of terminals and uses. 8b

Journal Bug on Delivery of Author's Copy.

I believe there is a bug in the Journal distribution mechanism which is causing hardcopy distributions to be made to AUTHORS even though their delivery attribute is "on-line".

1

The NIC would appreciate this being fixed as soon as possible to cut down on unnecessary mailings, and to remove the need of the NIC Station Agent to handle as special cases all those authors who say they absolutely don't want their own stuff to be mailed to them.

2

The fix should make the delivery mechanism for individuals when they receive an AUTHOR's COPY be the same as the delivery mechanism for individuals when they are addressees in someone else's Journal item.

3

That is, the delivery MECHANISM should always obey the delivery ATTRIBUTE.

4

15156 Distribution

Kaye, Diane S. , Lehtman, Harvey G. , Irby, Charles H. , Hopper, J.
D. , Watson, Richard W. , Lee, Susan R. , North, Jeanne B. ,

Network Mail Meeting Summary

Abhay ... Please see my RFC #469, NIC # 14798, for the summary
I
wrote on the Network Mail Meeting of 23-Feb-1973 at SRI.
For some reason it never got distributed properly, though
it was submitted on 8-Mar-73.

1

MDK 19-MAR-73 11:03 15157

Network Mail Meeting Summary

(J15157) 19-MAR-73 11:03; Title: Author(s): Kudlick, Michael D.
/MDK; Distribution: /akb jew ; Sub-Collections: SRI-ARC; Clerk: MDK;

Dean ... Please plan to spend some time with me on the 22d or 23d. Maybe a couple of hours' worth, both on Resource Notebook related things and on Directory (i.e. mem-list) stuff. ...
Thanks, Mike Kudlick.

1

15158 Distribution
Meyer, N. Dean ,

Coffee Proposal

Kaye ... I think that coffee ought to be on a "pay- for - what - you - drink" basis, just like the AI group apparently had it. This could be either through pay as you go (a dime a cup) or through marking off a sheet each time you take a cup (paying for the number of cups you have drunk at the end of a week, say.)

1

15159 Distribution
Byrd, Kay F. ,

On the file <NIC>DATABASE

In response to JFV (LJOURNAL, 15128, 1:w), my thoughts about the "DATABASE" file that NIC/QUERY accesses are these:

1) Each file that is listed ought to be listed with a one or two line explanation of what the file IS (or is good for).

2) SIMPLE names ought to be used for files that are listed, to make it reasonably easy to type with the "bring" command.

For example, instead of <IDENTFILE>IDENTS.MASTER, I'd prefer to see IDENTs, which takes advantage of the NIC/QUERY default to <NETINFO>.

In some cases, this forcing of simple names may mean simply "renaming" (via TENEX); in other cases, this will require copying the file into a new name.

The latter case comes up with the identfile, since several processes --- e.g., the Journal, the Number System, the Identification system --- use the file <IDENTFILE>IDENTS.MASTER and renaming would probably be disastrous.

3) Here are some candidates of filenames that ought to be placed in <NETINFO>DATABASE:

(For the source of these files see -- NIC, LOCATOR, 2:xb)

PHONES: Directory Of Enterprise And Zenith Numbers
(NIC,Dirent, entry:wDmh)

PEOPLE: Directory Of Network Individuals
(nic,ideiincnl, entry:Dwn)

ORGZNS: Directory Of Network Organizations
(nic,ideaaincni, entry:wmDh)

GROUPS: Directory Of Network Working Groups

ANTS Support Group
(asgmemlist,1:xmh)

ALOHA Satellite System
(assmemlist,1:xmh)

Computer Based Instruction Group
(cbgmemlist,1:xmh)

On the file <NIC>DATABASE

File Transfer Protocol Interest Group (ftpigmemlist,1:xmh)	4d4
Imlac Interest Group (iigmemlist,1:xmh)	4d5
International Network Working Group (inwgmelist,1:xmh)	4d6
International Network Working Group Sub-Comittee One (inwg1memlist,1:xmh)	4d7
International Network Working Group Sub-Comittee Two (inwg2memlist,1:xmh)	4d8
Network Working Group Steering Committee (nwgscmemlist,1:xmh)	4d9
Network Associates Group (nagmemlist,1:xmh)	4d10
Network Facilitators (nfmelist,1:xmh)	4d11
Network Graphics Group (nggmelist,1:xmh)	4d12
Network Liason Group (nlgmelist,1:xmh)	4d13
Network Measurement Group (nmgmemlist,1:xmh)	4d14
Network Station Agent Group (nsagmemlist,1:xmh)	4d15
Remote Job Entry (rjemelist,1:xmh)	4d16
Speech Understanding Research Group (surgmelist,1:xmh)	4d17
Speech Understanding Research Group Steering Committee (surscmemlist,1:xmh)	4d18
TENEX Users Group (tugmemlist,1:xmh)	4d19

On the file <NIC>DATABASE

TIP Users Group (tipugmemlist,1:xmh)	4d20
TNLS Users Group (tumemlist,1:xmh)	4d21
XIC3 Group (xic3memlist,1:xmh)	4d22

4) I think that EJP should care for the <NETINFO> DATABASE file. 5

"caring for" includes the responsibility for naming the file appropriately, for inserting a useful first statement or branch as instructions to the NIC/QUERY user, and for avoiding conflicts or out-of-date-ness whenever new versions are created via the catalogue system or otherwise.

5a

15160 Distribution

Feinler, Elizabeth J. (Jake) , North, Jeanne B. , Kudlick, Michael D.
, Irby, Charles H. , Vallee, Jacques F. ,

Transmittal to Station Agents -- 77

Transmittal to Station Agents -- 77
Jeanne North

NIC 15175
28 MAR 73

1

1a

Enclosed:

1b

NIC 14742 *NWG/RFC #468 FTP DATA COMPRESSION;
Robert Braden (UCLA-CCN)

1b1

NIC 14799 *NWG/RFC #470 Change in Socket of TIP News
Facility; Bob Thomas (BBN-NET)

1b2

NIC 14800 *NWG/RFC #471 Announcement of A (Tentative)
Workshop On Multi-Site Executive Programs;
Bob Thomas (BBN-TENEX)

1b3

NIC 15060 *MATHEMATICAL SOFTWARE AND COMPUTER NETWORKS;
Lawrence McDaniel

1b4

NIC 15109 *Announcing First Issue of ARPANET NEWS;
Jeanne North, Jean Iseli

1b5

1c

*sent to Liaisons

1d

JBN 27-MAR-73 19:44 15175

Transmittal to Station Agents -- 77

(J15175) 27-MAR-73 19:44; Title: Author(s): North, Jeanne B. /JBN ;
Distribution: /SA SRI-ARC ; Sub-Collections: NIC SRI-ARC; Clerk:
KIRK ;

TRANSMITTAL TO: W.S. Stevenson

TRANSMITTAL TO: W.S. Stevenson
TIP Liaison
Dept. of Commerce R523
325 South Broadway
Boulder, Colorado 80302

FROM: Marcia Keeney (NIC)
Station Agent

1

At your request, I am sending the following documents:

1a

NIC 11305 TRANSMITTAL for NIC 6740
NIC 11863 SCENARIOS for using the ARPANET

1a1

SRL 26-MAR-73 0:25 15177

TRANSMITTAL TO: W.S. Stevenson

(J15177) 26-MAR-73 0:25; Title: Author(s): Lee, Susan R. /SRL ;
Distribution: /SA ; Sub-Collections: NIC ; Clerk: KIRK ;

TRANSMITTAL TO: Derek Barber

TRANSMITTAL TO: Derek Barber
National Physical Laboratory
Computer Science Division
Teddington, Middlesex, ENGLAND

FROM: Marcia Keeney (NIC)
Station Agent

1

May we have your permission to list for distribution, and to
distribute to the ARPANET International Network Working Group,
the following reports you supplied to us?

1a

56 Sept 71
57 Sept 71
58 Sept 71
58 July 72
59 March 72

1a1

SRL 26-MAR-73 0:24 15178

TRANSMITTAL TO: Derek Barber

(J15178) 26-MAR-73 0:24; Title: Author(s): Lee, Susan R. /SRL ;
Distribution: /SA ; Sub-Collections: NIC ; Clerk: KIRK ;

TRANSMITTAL TO: Buz Owen

TRANSMITTAL TO: Buz Owen
Alexandria Laboratory
Teledyne Geotech
Box 334
Alexandria, Virginia 22813

FROM: Marcia Keeney (NIC)
Station Agent

1

At your request, I am sending the following document:

1a

NIC 8140 UCLA SUMMARY REPORT

1a1

Dave Walden, the ASS group coordinator, will contact you as to whether the ASS notes can be sent to CFK.

1b

MLK 10-APR-73 18:42 15179

TRANSMITTAL TO: Buz Owen

(J15179) 10-APR-73 18:42; Title: Author(s): Keeney, Marcia Lynn /MLK
; Distribution: /SA ; Sub-Collections: NIC ; Clerk: KIRK ;

MLK 10-APR-73 18:40 15180

TRANSMITTAL TO: Bob Metcalfe

TRANSMITTAL TO: Bob Metcalfe
Xerox Palo Alto Research Center
Computer Systems Building
3180 Porter Drive
Palo Alto, California 94304

FROM: Marcia Keeney (NIC)
Station Agent

1

At your request, I am sending the following document:

1a

NIC 4762 A SIMPLIFIED NCP PROTOCOL

1a1

MLK 10-APR-73 18:40 15180

TRANSMITTAL TO: Bob Metcalfe

(J15180) 10-APR-73 18:40; Title: Author(s): Keeney, Marcia Lynn /MLK
; Distribution: /SA ; Sub-Collections: NIC ; Clerk: KIRK ;

MLK 10-APR-73 18:41 15181

TRANSMITTAL TO: Dave Crocker

TRANSMITTAL TO: Dave Crocker
UCLA
3771H Boelter Hall
Los Angeles, California 90024

FROM: Marcia Keeney (NIC)
Station Agent

1

At the request of Dirk vanNouhuys, I am sending 2 copies of the
following document:

1a

NIC 9934 Deferred Execution (DEX) User Guide

1a1

MLK 10-APR-73 18:41 15181

TRANSMITTAL TO: Dave Crocker

(J15181) 10-APR-73 18:41; Title: Author(s): Keeney, Marcia Lynn /MLK
; Distribution: /SA ; Sub-Collections: NIC ; Clerk: KIRK ;

TRANSMITTAL TO: Toni McHale

TRANSMITTAL TO: Toni McHale
Fleet Numerical Weather Central
Monterey, California 93940

FROM: Marcia Keeney (NIC)
Station Agent

1

At your request, I am sending the following documents:

1a

NIC 5480 An NCP For the ARPA Network
NIC 11863 SCENARIOS for using the ARPANET

1a1

MLK 10-APR-73 18:43 15182

TRANSMITTAL TO: Toni McHale

(J15182) 10-APR-73 18:43; Title: Author(s): Keeney, Marcia Lynn /MLK
; Distribution: /SA ; Sub-Collections: NIC ; Clerk: KIRK ;

TRANSMITTAL TO: Anita Coley

TRANSMITTAL TO: Anita Coley
UCLA
Computer Science Dept.
3732 Boelter Hall
Los Angeles, California 90024

FROM: Marcia Keeney (NIC)
Station Agent

1

At your request, I am sending the following document:

1a

NIC 11401 A Graphic Facility for an Interactive Simulation
System

1a1

Unfortunately, I was not able to locate NIC 6183 although
according to our records it should be here. I am ordering a new
copy for our files from University of Illinois. You may do the
same or borrow our copy when we receive it.

1b

MLK 10-APR-73 18:35 15183

TRANSMITTAL TO: Anita Coley

(J15183) 10-APR-73 18:35; Title: Author(s): Keeney, Marcia Lynn /MLK
; Distribution: /SA ; Sub-Collections: NIC ; Clerk: KIRK ;

ARPA Network Information Center
Stanford Research Institute
Menlo Park, California 94025;

MLK 6-APR-73 14:34 15184
NIC 15184
INWG 23
26 March 73
Obsoletes NIC 13156

International Packet Network Working Group:
Procedures for distribution of INWG Notes
Monday, 26 March, 1973

1

Gentlemen:

2

The attached note specifies procedures to be used in distributing
INWG Notes. If you wish to distribute the notes yourself, kindly

3

a) verify with Marcia Keeney at NIC that you have a up-to-date
mailing list.

3a

b) be sure to send one clean copy to Marcia Keeney at NIC

3b

If you send me material for distribution, try to make sure it
will fit on 8 1/2" x 11" bond, even if you use a larger size
sheet. (Britishers beware).

4

ARPA Network Information Center
Stanford Research Institute
Menlo Park, California 94025;

MLK 6-APR-73 14:34 15184
NIC 15184
INWG 23
26 March 73
Obsoletes NIC 13156

INWG FRENCH TRANSLATION PROCEDURE

5

1. FORWARD ORIGINAL WITH COVER LETTER TO

5a

MARCIA KEENEY
NETWORK INFORMATION CENTER
STANFORD RESEARCH INSTITUTE
333 RAVENSWOOD AVE
MENLO PARK, CALIFORNIA 94025
(415) 326-6200 x3007

5a1

2. FORWARD COPY AND COVER LETTER TO

5b

DR. HOWARD FRANK
NETWORK ANALYSIS GROUP
BEECHWOOD, OLD TAPPAN ROAD
GLEN COVE, NEW NEW YORK 11542
(516) 671-9580

5b1

3. FORWARD COVER LETTER TO

5c

DR. VINT CERF
ERL 407
STANFORD UNIVERSITY
STANFORD, CALIFORNIA 94305
(415) 321-3300 x3656

5c1

Cover Letter:

5d

- a) identify author, title of paper
- b) state that it is for INWG distribution

5d1

ARPA Network Information Center
Stanford Research Institute
Menlo Park, California 94025;

MLK 6-APR-73 14:34 15184
NIC 15184
INWG 23
26 March 73
Obsoletes NIC 13156

INWG NOTE DISTRIBUTION PROCEDURE

7

1. FORWARD ORIGINAL TO

7a

DR. VINT CERF
ERL 407
STANFORD UNIVERSITY
STANFORD, CALIFORNIA 94305
(415) 321-3300 x3656

7a1

2. I will produce a cover letter and forward to Marcia Keeney, at NIC, who will reproduce and distribute notes to INWG mailing list.

7b

3. You may optionally state to which working subgroup the note is addressed. In these early days, we'll distribute all notes to all INWG members, regardless of group membership.

7c

Vint Cerf
INWG Chairman

7d

ARPA Network Information Center
Stanford Research Institute
Menlo Park, California 94025;

MLK 6-APR-73 14:34 15184
NIC 15184
INWG 23
26 March 73
Obsoletes NIC 13156

(J15184) 6-APR-73 14:34; Title: Author(s): Keeney, Marcia Lynn /MLK;
Distribution: /SA; Sub-Collections: SRI-ARC; Clerk: LLL;
Origin: <LANE>NIC15184.NLS;4, 30-MAR-73 11:39 LLL ;

TRANSMITTAL TO: Ed Collins

TRANSMITTAL TO: Ed Collins
Courant Institute of Mathematical Sciences
Computer Documentation Office
251 Mercer Street
New York, New York 10012

FROM: Marcia Keeney (NIC)
Station Agent

1

At your request, I am sending the following documents:

1a

NIC 12997 Image Restoration, Enhancement, and Detection
NIC 13302 Optical Processing and Holography

1a1

We are ordering NIC 12816. I will send it to you when we receive it.

1b

MLK 10-APR-73 18:37 15185

TRANSMITTAL TO: Ed Collins

(J15185) 10-APR-73 18:37; Title: Author(s): Keeney, Marcia Lynn /MLK
; Distribution: /SA ; Sub-Collections: NIC ; Clerk: KIRK ;

TRANSMITTAL TO: Philip H. Enslow

TRANSMITTAL TO: Philip H. Enslow
Office of Telecommunications Policy
Executive Office of the President
Washington D.C. 20504

FROM: Marcia Keeney (NIC)
Station Agent

1

At the request of Larry Roberts, I am sending you the RFC's which we sent out during the month of March.

1a

For local assistance, you are encouraged to contact Jean [Zhahn] Iseli at MITRE, (703) 893-3500 x 2318, or your friends Crocker, Kahn, Perry, or Dolan at ARPA.

1b

Enc.

1c

NIC 15064	RFC 486	Data Trasfer Revisited
NIC 15063	RFC 485	MIX and MIXAL at UCSB
NIC 15061	RFC 483	Cancellation of the Resource Notebook Framework Meeting
NIC 14949	RFC 480	Host-Dependent FTP Parameters
NIC 14948	RFC 479	Use of FTP by the NIC Journal
NIC 14920	RFC 476	IMP/TIO Memory Retrofit Schedule (Revision 2)
NIC 14919	RFC 475	FTP AND NETWORK MAIL SYSTEM
NIC 14811	RFC 473	MIX and MIXAL?
NIC 14800	RFC 471	Announcemet Of A (Tentative) Workshop On Multi-Site Executive Programs
NIC 14799	RFC 470	Change in Socket for TIP News Facility
NIC 14798	RFC 469	Network Mail Meeting Summary
NIC 14742	RFC 468	FTP Data Compression
NIC 14741	RFC 467	Proposed Change To Host-Host Protocol Resynchronization of Connecction Status
NIC 14740	RFC 466	TELNET LOGGER/SERVER For Host LL-67
NIC 14966	RFC 482	Traffic Statistics (February 1973)

1c1

MLK 10-APR-73 18:26 15186

TRANSMITTAL TO: Philip H. Enslow

(J15186) 10-APR-73 18:26; Title: Author(s): Keeney, Marcia Lynn /MLK
; Distribution: /SA ; Sub-Collections: NIC ; Clerk: KIRK ;

TRANSMITTAL TO: Tom Fox

TRANSMITTAL TO: Tom Fox
Kustom Electronics
1010 West Chestnut
Chanute, Kansas 66720

FROM: Jeanne North (NIC)
Information and Station Agent Coordinator

1

We regret we must deny your request for distribution of ARPA documents. Distribution is limited to Network participants as approved by ARPA Information Processing Technology Division. You may wish to request Network participation from that Division.

1a

MLK 10-APR-73 18:38 15187

TRANSMITTAL TO: Tom Fox

(J15187) 10-APR-73 18:38; Title: Author(s): Keeney, Marcia Lynn /MLK
; Distribution: /SA ; Sub-Collections: NIC ; Clerk: KIRK ;

MLK 28-MAR-73 22:00 15189

TRANSMITTAL TO: Thomas O'Sullivan

TRANSMITTAL TO: Thomas O'Sullivan
Advanced Research Projects Agency
1400 Wilson Blvd.
Arlington, Virginia 22209

FROM: Marcia Keeney (NIC)
Station Agent

1

At your request, I am sending the following document:

1a

NIC 10814 TNLS Beginner's Guide

1a1

MLK 28-MAR-73 22:00 15189

TRANSMITTAL TO: Thomas O'Sullivan

(J15189) 28-MAR-73 22:00; Title: Author(s): Keeney, Marcia Lynn /MLK
; Distribution: /SA ; Sub-Collections: NIC ; Clerk: KIRK ;

Letter to Steve D. Crocker

ARPA Network Information Center
Stanford Research Institute
Menlo Park, California 94025

NIC 15190
27-MAR-73

1

TRANSMITTAL TO: Steve D. Crocker
Advanced Research Projects Agency
1400 Wilson Boulevard
Arlington, Virginia 22209

2

3

FROM: Jeanne B. North
Information and Station Agent Coordinator

4

5

Steve,

Enclosed is the correspondence about Boulder groups requesting
Associate Status.

6

JBN 29-MAR-73 11:26 15190

Letter to Steve D. Crocker

(J15190) 29-MAR-73 11:26; Title: Author(s): North, Jeanne B. /JBN;
Distribution: /SA; Sub-Collections: SRI-ARC; Clerk: LLL;
Origin: <LANE>TRANSMITTAL.NLS;104, 29-MAR-73 11:19 LLL ;

TRANSMITTAL TO: Yngvar Lundh

TRANSMITTAL TO: Yngvar Lundh
NDRE
2007 Kjeller
NORWAY

FROM: Marcia Keeney (NIC)
Station Agent

1

At the request of Dave Walden, you have been added to the TIPUG distribution list. Enclosed are copies of TIPUG notes # 1-9. You will receive any following notes whenever they are distributed to the group.

1a

MLK 10-APR-73 18:28 15191

TRANSMITTAL TO: Yngvar Lundh

(J15191) 10-APR-73 18:28; Title: Author(s): Keeney, Marcia Lynn /MLK
; Distribution: /SA ; Sub-Collections: NIC ; Clerk: KIRK ;

TRANSMITTAL TO: Computer Science

TRANSMITTAL TO: Computer Science Corporation
Attn: Mrs. Barrett, Library
6565 Arlington Blvd.
Falls Church,

FROM: Marcia Keeney (NIC)
Station Agent

1

At the request of Steve Crocker, I am sending 2 copies each of
the following documents:

1a

NIC 7812 Data Transfer Protocol
NIC 7813 File Transfer Protocol.

1a1

MLK 10-APR-73 18:31 15192

TRANSMITTAL TO: Computer Science

(J15192) 10-APR-73 18:31; Title: Author(s): Keeney, Marcia Lynn /MLK
; Distribution: /SA ; Sub-Collections: NIC ; Clerk: KIRK ;

Letter to Raynor K. Rosich

ARPA Network Information Center
Stanford Research Institute
Menlo Park, California 94025

NIC 15193
27-MAR-73

TO: Raynor K. Rosich
U.S. Dept. of Commerce
OT/ITS
325 Broadway, Room 1-3415M
Boulder, Colorado 80302

FROM: Jeanne B. North
Information and Station Agent Coordinator

In response to your request of December 7, 1972, and our further conversations in regard to setting up additional Network stations in Boulder for receipt of NIC documents, I must report that these stations cannot be added at this time. In consultation with our ARPA sponsors it was agreed that the present DOCB station in Schuyler Stevenson's office is offering the level of service consistent with the present policies for station service.

At the present, Stevenson's office stands ready to loan or allow copying of Network documents.

If the status of a Boulder project or the policies regarding NIC distribution change, the matter can be reconsidered. Presently, NIC appreciates the cooperation of all concerned in accepting any inconvenience occurring.

c: Steve Crocker
Schuyler Stevenson
William Roberts
Peter McManamon
Roger Salaman
Lawrence Campbell
Douglas Crombie

JBN 29-MAR-73 11:17 15193

Letter to Raynor K. Rosich

(J15193) 29-MAR-73 11:17; Title: Author(s): North, Jeanne B. /JBN;
Distribution: /NICSTA; Sub-Collections: SRI-ARC NICSTA; Clerk: LLL;
Origin: <LANE>L-ROSICH.NLS;5, 29-MAR-73 11:10 LLL ;

TRANSMITTAL TO: Paul Baran

TRANSMITTAL TO: Paul Baran
Cabledata Associates Inc.
701 Welch Road Suite 326
Palo Alto, California 94303

FROM: Marcia Keeney (NIC)
Station Agent

1

At the request of Dave Walden, you have been added to the TIPUG distribution list. Enclosed are copies of TIPUG notes # 1-9; NIC 14791 Terminal Access to the ARPA Network; and NIC 10916 The TIP User's Guide.

1a

In a separate mailing, you will receive 4 of the 5 functional documents.

1b

NIC 5145 Current Catalog of the NIC Collection
NIC 7590 NIC User Guide
NIC 5150 Current Directory of Network Participants
NIC 7104 Current Network Protocols.

1b1

NIC 6740, Network Resources Notebook will be sent as soon as it is ready.

1c

MLK 4-APR-73 21:15 15196

TRANSMITTAL TO: Paul Baran

(J15196) 4-APR-73 21:15; Title: Author(s): Keeney, Marcia Lynn /MLK
; Distribution: /SA ; Sub-Collections: NIC ; Clerk: KIRK ;

TRANSMITTAL TO: Richard Manueck

TRANSMITTAL TO: Richard Manueck
Computer Science Library
Stanford University
Stanford, California 94305

FROM: Marcia Keeney (NIC)
Station Agent

1

At the request of Cordell Green and Ted Strollo, I am sending you the Speech Understanding Research Group Notes #1-74 which have been issued to date.

1a

Numbers 22,23, 24, and 34 were never issued. Due to their size, SUR Notes 40, SCRL'S Proposal to ARPA for Research on Natural Speech Analysis for Automatic Speech Recognition, and 49, UNIVAC Semiannual Technical Report (NIC 12167), are available only upon special request.

1b

MLK 10-APR-73 18:27 15197

TRANSMITTAL TO: Richard Manueck

(J15197) 10-APR-73 18:27; Title: Author(s): Keeney, Marcia Lynn /MLK
; Distribution: /SA ; Sub-Collections: NIC ; Clerk: KIRK ;

TRANSMITTAL TO: Richard Binder

TRANSMITTAL TO: Richard Binder
University of Hawaii
The Aloha System
2540 Dole St.
Honolulu, Hawaii 96822

FROM: Marcia Keeney (NIC)
Station Agent

1

At the request of Robert Kahn, you have been added to the Packet
Radio distribution list.

1a

MLK 4-APR-73 20:53 15199

TRANSMITTAL TO: Richard Binder

(J15199) 4-APR-73 20:53; Title: Author(s): Keeney, Marcia Lynn /MLK
; Distribution: /SA ; Sub-Collections: NIC ; Clerk: KIRK ;

Notes on Dr. Eric Willis' Visit to ARC on 19 March

Notes on: Dr. Eric Willis' visit to ARC on 19 March

Dr. Eric H. Willis, Director of ARPA's Nuclear Monitoring Research Office (NMRO) visited SRI for about 5 hours on Monday, 19 March. The time was spent as follows:

1

8:30-9:00 Initial discussion with Doug Engelbart (DCE) and Jim Norton (JCN) about the visit and a look at ARC's console area.

1a

9:00-10:15 NLS demonstration and discussion with JCN in the ARC conference room with display console and projection TV. We shared DNLS screens (with speakerphone audio link) with Duane Stone at RADC in Rome, New York.

1b

10:15-11:00 Discussion with DCE and JCN about potential NMRO use of the Workshop Utility Service.

1c

11:00-1:00 (through lunch) Discussion with DCE, JCN and SRI Systems Evaluation Department (SED?) (upstairs above ARC) including: Dick Schmidt (ext 3051) and three others: Lynn Spraggs, Dave Berg, and Bob Rodden. We discussed the possible integration of NLS techniques into a SED \$40K, 4-month feasibility study of an energy data management system SED has proposed to NMRO. This study will probably start right away, with incorporation of NLS use in the system and in the development of the study to be worked out soon by ARC and SED. The problem of ARC capacity still has to be resolved, as does the selection of the ARC person to interact with SED during the study.

1d

1:00-1:30 Summary with DCE and JCN. Dr. Willis sent a message (via ARPANET - USC-ISI SNDMSG to Dave Russell at his office) about the prospects of further development.

1e

THE ARC/NMRO RELATIONSHIP:

2

The NMRO is one of several ARPA offices now making plans to use the ARC Knowledge Workshop (including NLS, our online system) in their own operations. The other offices are: the Information Processing Techniques Office (Dr. L. Roberts) and the Human Resources Office (Col. A. Kibler)

2a

ARC plans to set up a Workshop Utility to provide computer and technical personnel services to selected initial users

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including the above groups starting about September 1. The computer portion of the Utility will be operated for ARC by a commercial timesharing organization. Tymshare, Inc. has been selected for this role on a competitive bid basis. Final contractual negotiations with Tymshare are in progress.

2a1

The ARC proposal to ARPA for Workshop Utility Support (it will be -- 14946,) is in draft approval stage at SRI.

2a2

Proposals to RADC and other potential user organizations will follow the ARPA proposal shortly.

2a2a

Further discussion of the Augmented Knowledge Workshop concept is contained in (14724,), a paper to be presented at the National Computer Conference in June 1973.

2a3

A relevant discussion of Coordinated Information Services for a Discipline- or Mission-Oriented Community is contained in (12445,), a paper by D. C. Engelbart published in "Time Sharing: Past, Present, Future," Proceedings of the Second Annual Computer Communications Conference at California State University, San Jose, December 1972.

2a4

NMRO is considering integration of workshop technology into their management of the VELA program.

2b

This is a world-wide seismic event monitoring (and analysis?) operation supporting the U.S. (and other countries?) monitoring of potential nuclear tests on the Earth, attempting to distinguish them from natural seismic occurrences and determining their point of origin, timing and magnitude.

2b1

The use of NLS in the energy program (as discussed below) is considered to be a first trial leading toward use the of NLS in the NMRO office and on the VELA program. Early benefits from its use on the energy program are the formation of the data base management system using NLS files (where appropriate) that will later be easily used by the NMRO office and other system users-- and the exposure of NMRO people to NLS in a non-central part of their operation before "going all the way."

2c

Dr. Willis already perceives many of the key parts of our strategy for workshop evolution including:

2d

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- the need for pragmatic, step-by-step evolution 2d1
- the need for mutual developmental efforts by early users and system designers (at ARC and at user organizations) 2d2
- that NMRO (and other ARPA offices) are becoming interested in mutually experimenting with the knowledge workshop technology at a very opportune time from ARC's point of view 2d3

THE ARC/NMRO/SED RELATIONSHIP:

3

The NMRO is interested in having NLS file structuring and other capabilities incorporated into the design of an energy data management system to be developed after an initial feasibility study by the SRI Systems Evaluation Department under the leadership of Dick Schmidt.

3a

The hierarchical file structure of NLS, its file linking features, and its accessibility over the ARPANET are influencing factors in NMRO thinking.

3a1

In addition, many other features of the Knowledge Workshop (including NLS) that have not yet been discussed in depth with NMRO would aid in this effort. Some of those added features are the Journal system, information retrieval features (content analysis, query, user programs, indexing capabilities) and shared screen teleconferencing.

3a1a

Major NLS subsystems bearing on the design of an energy data management system using the capabilities of our workshop are:

3a1b

The Dialog Support System (in use now)

3a1b1

The Research Intelligence System (in initial development)

3a1b2

The Handbook System (in initial development)

3a1b3

We discussed SED's need to see NLS and to learn of its features firsthand if they are to effectively incorporate it into their energy data management system design.

3b

This may be rather disconcerting to SED people who would (rightly) want to design a system that first meets the NMRO

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energy data system needs and that uses NLS as a secondary consideration only where appropriate.

3b1

It is a challenging problem for ARC people who, through experience, have found that the workshop concept (NLS included) is difficult to just talk about, easier to show, but best appreciated through use itself.

3b2

We are fairly certain that early appreciation for NLS capabilities would have an influence on the design of such a system, but certainly don't want to force it on the system designers.

3b3

The next step here is to show the ARC workshop system to the SED people and to discuss it further.

3b4

THE QUESTION OF ARC COMPUTER/PEOPLE RESOURCES:

4

The Workshop Utility Service through which we at ARC hope to provide service to the interested ARPA offices, possibly the SED energy study team, and other subscribers to the Utility will not be offering computer service until about September 1.

4a

At the present time, the ARC machine is running at capacity during the day, with evening traffic rising. (see -- 15066,) for a detailed analysis of the present load. The only weekday time slot that is relatively lightly loaded is the 5am - 8 am period. That period may be used more and more by early Utility training sessions and by the growing RADC user and general NIC Network users groups.

4b

We have requested approval (from the ARPA IPT office) to use the USC-ISI machine (see --14137,) for some compilations and other "heavy" work during the Spring and Summer to relieve our system during the day hours, but are finding that the USC machine is experiencing a very rapid usage growth rate--and in the same time slots where we need relief.

4c

The provision of system resources for initial training of SED people (a person?) in NLS is still a question to be resolved.

4c1

ARC people are already busy (overcommitted?) with the main set of tasks needed to get the Utility going including the design and implementation of new features the Utility users will need. (see -- 14164,)

4d

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However, the longer-range importance of the proposed energy program to ARPA and ARC planning probably will bring us to redirect some of our energies to help SED with the integration of NLS into their system if we reach agreement on this approach.

4d1

A total of 1 or 1/2 man months of ARC consulting effort during the next 4 months was discussed with SED for proposal purposes, although ARC still needs to see who could do this and when.

4d2

ARC ACTIONS TO FOLLOW:

5

SED/ARC NLS demo should be arranged by ARC.

5a

SED/ARC discussions of stages, timing.

5b

Reply to Willis (via Dave Russell if this week) about ARC's willingness and ability to assist in the energy system design.

5c

ARC to contact Willis again soon about the larger picture, capacity, ARPA architect.

5d

Dave Russell to visit ARC also?

5e

JCN 21-MAR-73 21:26 15201

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(J15201) 21-MAR-73 21:26; Title: Author(s): Norton, James C. /JCN;
Distribution: /RWW DCE EHW DCR2 LGR; Sub-Collections: SRI-ARC; Clerk:
JCN;
Origin: <NORTON>WILLIS.NLS;2, 21-MAR-73 9:19 JCN ; P=2; =76; ="
JCN 23 MAR 73 4:14AM 15201";

Satellite stuff

Please send copies of all ASS notes from the current one down to number 12, except for those which have become obsolete, to CFK.
Thanks very much... Buz Owen

1

Dave: could you add the name of one of our people, Carl F. Koch (CFK), to the ASS distribution list? We would certainly appreciate it. Carl is our communications expert. Thanks, Buz.

1

15203 Distribution
Walden, David C. ,

ADO 20-MAR-73 16:15 15203

(J15203) 20-MAR-73 16:15; Author(s): Owen, A. D. (Buz) /ADO;
Distribution: /DCW3; Sub-Collections: NIC; Clerk: ADO;

CFD 20-MAR-73 11:35 15205

DNLS bug -- current running system

Troubles with the G D T R command from DNLS.

DNLS bug -- current running system

NLS bug -- Goto Display Area Tty simulation area Restore command does not work. It destroys the display area that had been used for a tty simulation area and leaves the display stuff in an unrecoverable state. This bug is accompanied by the following error message: "UASQD failed, setdis".

1

CFD 20-MAR-73 11:35 15205

DNLS bug -- current running system

(J15205) 20-MAR-73 11:35; Title: Author(s): Dornbush, Charles F.
/CFD ; Distribution: /BUGS ; Sub-Collections: SRI-ARC BUGS; Clerk: CFD
;

DEX manual, please

Dirk -- may i have a couple of copies of the DEX manuals. I was going to output them thru the net but couldn't get any response from the Output device Printer (to a file); so i gave up.

thanks.

1

DHC 20-MAR-73 14:28 15206

DEX manual, please

(J15206) 20-MAR-73 14:28; Title: Author(s): Crocker, David H. /DHC;
Distribution: /DVN; Sub-Collections: NIC; Clerk: DHC;

I am told that documentation on FAIL Assembler is available as SRI Op. Note No. 26.1. We need to get some copies and I don't know who to address the request to, at SRI.

Do you know?

thanks.

1

DHC 20-MAR-73 16:11 15207

(J15207) 20-MAR-73 16:11; Author(s): Crocker, David H. /DHC;
Distribution: /DVN; Sub-Collections: NIC; Clerk: DHC;

Name of the Man Involved in Behive Terminals

The guy whom I visisted at Comoarco and who is involved in desgin
of the Super Behive is:

John F. Cogger
Manager Computer Systems
Comarco Inc.
POB 519
Port Huenuma, Calif. 93041
(805) 488 3621.

1

I can't help pointing out that there was a journal link to this
information in he trip report.

2

DVN 20-MAR-73 8:28 15208

Name of the Man Involved in Behive Terminals

(J15208) 20-MAR-73 8:28; Title: Author(s): Van Nouhuys, Dirk H.
/DVN; Distribution: /DIA; Sub-Collections: SFI-ARC DPCS; Clerk: DVN;

This is the title

Tom, this is a test

1

15209 Distribution

O'Sullivan, Thomas , Watson, Richard W. ,

This is the title

(J15209) 20-MAR-73 13:19; Title: Author(s): Norton, James C. /JCN;
Distribution: /TO RWW; Sub-Collections: SRI-ARC; Clerk: JCN;

I ENJOYED UNCLE HERMAN ON THE CAVETT SHOW TONIGHT.
HE'S NOTHING LIKE YOU.
DIANE B.

1

15210 Distribution
Kahn, Robert E. ,

(J15210) 19-MAR-73 22:11; Author(s): Burchfiel, Jerry D. /JDB;
Distribution: /REK2; Sub-Collections: NIC; Clerk: JDB;

Jeannie,

UCLA distributes a newsletter entitled: CCN Newsletter. The appropriate phone number is 213-825-7548. Would suggest that it might be another source for information. Unfortunately, we receive it approximately one month in arrears so that for us to extract news would result in a lack of timeliness.

From their 11 February issue which we received yesterday, the following may be of interest of the Update:

(UCLA-TSO-SERVICE-HOURS)

TSO hours of service have been extended. The schedule of availability is now:

Monday-Friday: 06:00-24:00 (Service subject to interruption by system testing between 22:00 and 24:00)

Saturday: 06:00-17:00

Sunday: No serviceCCN Newsletter -021173

Regards, Jean

1

JI 20-MAR-73 5:46 15211

(J15211) 20-MAR-73 5:46; Author(s): Iseli, Jean /JI; Distribution:
/JBN; Sub-Collections: NIC; Clerk: JI;