

More on "NETED"

In response to everyone's responses, let me respond:

I withdraw my numerous objections/suggestions, as long as we don't call it THE network Editor. How about calling it EDS (since that's what it is)?

The proposed editor does not reflect the wisdom of the Network. It is not, in my mind, a particularly great editor, tho it is clearly usable. My objections run along the lines of "what will it be like for a non-computer person to learn?".

Expediency has been a consistently poor reason for choosing an existing mechanism, instead of developing a better one. Therefore, don't tout it as THE network Editor.

1

More on "NETED"

(J17570) 29-JUN-73 12:47; Title: Author(s): David H. Crocker/DHC;
Distribution: /USING; Sub-Collections: NIC USING; Clerk: DHC;

Journal Bug??

I just received a journal message link for Document (17564,) entitled DNLS COUSE OUTLINE and dated 29-JUN-73. I attempted to read it and got 'No Such Document'.

Hmmm.

1

Journal Bug??

(J17571) 29-JUN-73 12:54; Title: Author(s): David H. Crocker/DHC;
Distribution: /BUGS; Sub-Collections: NIC BUGS; Clerk: DHC;

mail problem

is there any way that a journal message can be retrieved after it has been deleted ? i had journal mail and accidentally destroyed it before i could read it. (i typed r b .journal - thinking r for "read" instead of p for "print". the result was i replaced the branch with null text.) if the message itself can't be restored, is there anywhere else i can look to see who it was from ?

thanks, gary

1

mail problem

(J17572) 29-JUN-73 13:57; Title: Author(s): Gary L. Bockweg/GLB;
Distribution: /SRL; Sub-Collections: NIC; Clerk: BAR2;
Origin: <ARPA>RUIN.NLS;1, 29-JUN-73 13:42 BAR2 ;

Ron, About the only place of which I know that uses Jovial is Systems Development Corporation [believe they were early developer of JOVIAL] ; for information, call Jerry Cole : (213) 393-9411 ext. 6186 - he is a nice guy.....Incidentally, was delighted with your response to NETED - really great to see group incentives ascribed more importance than personal desires. My sentiments, which I expressed to Mike were very much along the same lines - think that going with an available, tried one will ultimately lead to better one faster and in a more sure manner. Incidentally, Ron, we will send you a draft copy of the user network handbook soon, within a week or two - would very much appreciate your telling JRP who has been most gracious to our invitation for collaboration and coordination in this area - will try to write him a response in very near future. Also, thank you for your efforts on behalf of the newsletter article - [it is great and will write Roland a note to that effect]. Hoping to see you all in the fall sometime. With warmest regards, Jean I.

1

(J17573) 29-JUN-73 13:58; Author(s): Jean Iseli/JI; Distribution:
/RMS JRP(will write you a note soon, thanks) RFB(thank you for the
fine article, really appreciate it : Jean); Sub-Collections: NIC;
Clerk: JI;

I would like to cast my small vote in confidence with the evolving majority opinion - going with something that works should enable us in the long run to progress more surely towards our desired goals - believe Mike merits our expression of thanks for his rapid response, Jean.

(J17574) 29-JUN-73 14:07; Author(s): Jean Iseli/JI; Distribution:
/USING; Sub-Collections: NIC USING; Clerk: JI;

More about the print command

Charles, Would it make sense to have two separate print commands (hopefully both mnemonic), such that one will not reset the pointer and the other will? I guarantee that I would use the non-resetting one most (if not all) of the time, and so would, I think, a lot of others (especially new users). On the other hand, it's probable that the resetting one serves a usefully purpose; also, people who like it shouldn't be penalized.

(It's too bad that the default is to reset the pointer and that extra work is required to undo it. I would probably have recommended the opposite, i.e. that the pointer be reset only if the user said to.) As for the suggestion that the pointer be reset on 'o' and not otherwise, that doesn't appeal to me, because I imagine it would do the wrong thing fairly often and it seems somewhat non-intuitive (perhaps inconsistent).

One disadvantage of having two commands is the proliferation of commands, which you might prefer to avoid. You could consider having a single print command and adding an extra argument for resetting the pointer, with a default of not resetting it (or vice versa). Offhand, though, two separate commands seems better to me.
Eleanor Warnock

1

More about the print command

(J17575) 29-JUN-73 14:23; Title: Author(s): Eleanor H.
Warnock/EHW2; Distribution: /CHI; Sub-Collections: NIC; Clerk: EHW2;

Why Laura Gould should Come to ARC

Our contracts man will use this text for a formal letter asking to use project money to pay Laura's expenses.

Why Laura Gould should Come to ARC

BBN in Boston is developing a computer aided instruction system called SCHOLAR. The Air Force Electronic Systems Division at Hanscom Air Force Base partly sponsors this work. For some time people in the SCHOLAR program have been studying NLS as a subject for trial applications of SCHOLAR. Sylvia Meyer of SSD has also discussed teaching NLS through SCHOLAR with the staff at Rome Air Development Center.

1

Last week Mike Kudlick and I were at BBN teaching NLS. Several members of the SCHOLAR program audited the class to study the learning/teaching process. We talked with them at some length about the problems of learning and teaching NLS and allied matters. We were particularly struck by the sensitivity and analysis of one staff member, Laura Gould. In addition to programming experience, she is trained and experienced in both the theory and practice of teaching. Mike Suggested and I immediately agreed it would be worth while for her to come to ARC to share her thought with others at ARC, particularly those concerned with rationalizing the command language and adapting it to novices.

2

Why Laura Gould should Come to ARC

(J17576) 29-JUN-73 14:35; Title: Author(s): Dirk H. Van Nouhuys/DVN;
Distribution: /EKM MCG MDK CHI EKM JCN LPD RWW DCE DLS; Sub-Collections:
NIC SRI-ARC; Clerk: DVN;
Origin: <VANNOUHUYS>SCHOLAR.NLS;3, 29-JUN-73 14:25 DVN ;

Answer to 17497:Unrecorded Journal

As a member of the Journal Design Team, I'd say there is such a possibility. We are currently spending resources on some other areas. However, your suggestion has come up and the need is recognized.

1

Answer to 17497:Unrecorded Journal

(J17577) 29-JUN-73 14:38; Title: Author(s): Diane S. Kaye/DSK;
Distribution: /DHC; Sub-Collections: SRI-ARC; Clerk: DSK;

Yellow and Blue Books

Pam, Here I am again. I need more copies of the yellow and blue booklets that ARPA puts out: The Arpa Network and Resource Sharing Computer Networks. I will be needing 20 of each. Can you send them sometime soon? Thank you Marcia.

1

Yellow and Blue Books

(J17578) 29-JUN-73 14:55; Title: Author(s): Marcia Lynn Keeney/MLK;
Distribution: /PJK; Sub-Collections: SRI-ARC; Clerk: MLK;

**9

i will not be able to attend the network graphics meeting as i will
be on vacation july 17-26.

1

(J17579) 29-JUN-73 15:37; Author(s): Jonathan B. Postel/JBP;
Distribution: /SRB AAM; Sub-Collections: NIC; Clerk: JBP;

could you please correct the spelling of my first name of the inwg
mailing list? the correct spelling is "Jon". thank you.

1

(J17580) 29-JUN-73 15:40; Author(s): Jonathan B. Postel/JBP;
Distribution: /MLK; Sub-Collections: NIC; Clerk: JBP;

The VELA Project : Some Miscellaneous Notes

THE VELA PROJECT AND SOME MISCELLANEOUS NOTES

1

The following rough notes summarize my present views about the VELA Project and our possible relations to them. They include some notes I have taken during a meeting of the "Seismic Data Working Group" (SDWG) I have attended in Washington D.C. on May 29th as well as a statement of the goals and purpose of the project. I have gotten the latter material, via TELNET, from the VELA directory at USC-ISI.

2

INTRODUCTION AND SUMMARY

3

The objective of the VELA project is to design, develop, operate, and evaluate a world-wide seismic data collection, processing, analysis, and storage system which will be using satellite communications, the ARPANET, large frame special purpose computers, and newly developed mass storage systems. Its purpose is to investigate the important remaining problems affecting the seismic verification of a comprehensive TEST BAN TREATY and to obtain the operational experience necessary to design an optimum seismic verification system.

3a

Thus, the VELA Project is a very large scale project involving many geographically distributed contractors whose tasks and schedules are tightly interrelated. The management of such a large project is a difficult task by itself which, in this case, is compounded by the fact that many iterations in the design of the seismic verification system will probably be necessary to arrive at the desired optimal configuration.

3b

Consequently, given that slippages in the development schedules and rates of expenditures will have serious consequences, any improvement in communications, information handling procedures, and support to the group cooperation process will have a significant impact on the final outcome of the project.

3c

Thus, the VELA project is an ideal candidate for possible "augmentation" by the NLS technology. It appears that it would be beneficial for both the project and ARC to introduce the existing NLS technology, procedures and methodologies into the VELA project, and to study how these techniques can be adapted to such an environment.

3d

Basically, the Vela Project has a primary need for project management support. It is made up of a group of contractors whose interactions and schedules are tightly interrelated. The organization of the project is centralized under ARPA's leadership with spurs going towards the various contractors. This organization requires a great deal of formal and, most

The VELA Project : Some Miscellaneous Notes

importantly, informal communications between the geographically distributed parties of this project. There is a need for frequent reporting and many informal information exchanges about the latest developments.

3e

Therefore, this project seems to present an application possibility where the power of NLS could probably be demonstrated. Provided easy access to NLS could be guaranteed to the main parties concerned and enough initial technical support could be given to the project it could probably be demonstrated quite easily that the use of the presently available augmentation techniques could be beneficial for the management of large scale projects.

3f

They have a need for a quick and reliable message system. The SNDMSG feature available on the ARPA network seems ideal for that purpose. For more elaborate information exchange and processing a type of journal system adapted to their specific needs would probably be worth considering. I believe that in the long run it would be the availability of such a system which would really make a difference in the final outcome of this project. The necessary iterative process for arriving at an optimal design of the seismic verification system would certainly be facilitated.

3g

TYPE OF SUPPORT ARC COULD PROVIDE FOR THE VELA PROJECT

4

The VELA project is considering using NLS for facilitating its communication needs and project management requirements. They are contemplating sponsoring a low level back up project over a one year period to get our support and gain access to our engineering services.

4a

The purpose of the project could be twofold.

4b

1) To assist the management of the VELA project and its contractors in the utilization and evaluation of NLS .

4b1

2) To study how project management can be facilitated by the use of NLS, to assist the VELA project in developing appropriate procedures for that purpose, and to make recommendations leading to an effective on-line project management system.

4b2

In particular, we could study the possibility of adapting known project management techniques, such as CPM and PERT, for use within the NLS framework.

4b2a

The work could cover the following tasks.

4c

The VELA Project : Some Miscellaneous Notes

- 1) Training and assistance in the use of the full capabilities of NLS, its user programming packages, and other relevant techniques available on the ARPA Network. 4c1
- 2) Technical assistance and engineering support in linking up involved parties. This could include: 4c2
 - providing file space, identifications, passwords and other system resources to accommodate up to four initial users until the NLS Utility becomes available, and 4c2a
 - giving assistance in the use of the available procedures to assure the privacy of file access. 4c2b
- 3) Provide support for the distribution of hard copy information through NIC. 4c3
- 4) Participate in the analysis of their information handling problems and assist them in the development of appropriate solution procedures. 4c4
- 5) Help in the development and utilization of an on-line project management information base, and participate in the assessment of its effectiveness for project coordination and control. 4c5
- 6) Make recommendations towards the design of an on-line project management. 4c6

THE VELA PROJECT 5

OBJECTIVE OF THE VELA PROJECT 5a

To design, develop, operate, and evaluate a world-wide seismic data collection, processing, analysis, and storage system using satellite communications, the ARPA net, large frame special purpose computers, and newly developed mass storage systems. 5a1

The purpose is to investigate the important remaining problems affecting the seismic verification of a comprehensive Test Ban Treaty and to obtain the operational experience necessary to design an optimum seismic verification system. 5a2

BASIC CONCEPTS 5b

The seismic data communications, processing, analysis, and storage system developed by this program will emphasize remote and automatic acquisition of data from selected Overseas

The VELA Project : Some Miscellaneous Notes

Seismic Arrays/Stations by communication satellites to the United States. 5b1

Overseas seismic data received at a U.S. gateway and data from U.S. seismic arrays will be transmitted to a central data storage device via the ARPA net. 5b2

Trade-offs between station detection processing and centralized processing will be investigated. 5b3

Detection processing, event processing, and multi-station processing will be accomplished using computer resources available on the ARPA net. 5b4

The data storage system for both raw and processed data will be designed to permit remote access over the ARPA net by other interested users (both foreign and U.S.). 5b5

Multi-station seismic data communications and data analysis program processing and analysis techniques will be emphasized. 5b6

AGENDA OF THE WASHINGTON MEETING (May 29, 1973) 6

Location 6a

Seismic Data Analysis Center
314 Montgomery Street
Alexandria, Virginia 6a1

Agenda 6b

Introduction and Overview
of Seismic Verification Dr. Willis/ARPA 6b1

Program Discussion Col. Russell/ARPA 6b2

Status of SRO Program Mr. Murphy/NOAA
Mr. Peterson/NOAA 6b3

Status of Iranian Array Mr. Murphy/NOAA
Mr. Peterson/NOAA 6b4

Status of NORSAR Data Link VSC 6b5

Review of Data Link Design Study BBEN 6b6

Communication Satellite Link
Options to NORSAR and IRAN,

The VELA Project : Some Miscellaneous Notes

Future Plans

COMSAT

6b7

Status of Data Processing, Analysis,
and Retrieval Plan to Support the
SeismicData Program

TELEDYNE GEOTECH

6b8

summary of Data Storage Options

CCA

6b9

Discussion and Summary

Col. Russell/ARPA

6b10

Reporting Procedures

6c

Presentations should provide a short summary of work to date
and future plans.

6c1

Where appropriate, each speaker should indicate where decisions
by the government are required to guide future work.

6c2

A meeting of government groups is scheduled for 30 May 73 to
review the program and act on identified problems. Review of
the tasks/schedule file in the <VELA> USC-ISI directory is
suggested and problems in meeting target dates shown in that
file should be clearly identified.

6c3

The target date for completion of planning for the design of
the seismic data program remains 31 jul 73. (Task 74-6 <VELA>
TASKS/ SCHEDULE file.)

6c4

Signed: Dave Russell/ARPA

6d

NOTES TAKEN DURING THE MEETING

7

Dr Willis

7a

ARPA network is an important tool for expediting the tasks to
be performed by the SDWG.

7a1

Fiscal constraints require now a constant rate of expenditures
and slippages will have crucial consequences (new law imposed
by Congress).

7a2

He urges the use of the ARPA network and asks everyone to get
acquainted with it.

7a3

Murphy from NOAA

7b

(Boulder, Colorado & Seismological Center Albuquerque NM)

7b1

The VELA Project : Some Miscellaneous Notes

The SRO Program covers from 15 to 20 stations.

7b2

The Iranian Program includes 7-9 elements.

7b3

This program has been discussed with the Iranian Government and its technical people. Program has to catch up with the rest of the SRO Program.

7b3a

Priority is for the development of 8-9 of these stations in selected areas. U.S. Government will provide advantages to countries which cooperate.

7b4

Contacts with foreign Governments are made through the embassies with the help of the State Department.

7b5

The U.S. Government will provide advantages to countries which cooperate and in return will expect facility support, technical support and access to the records produced. Some political hassle is expected.

7b5a

Replies are expected in a few months.

7b6

Remote sites require remote recording and protection of the system. SRO people won't have to stay on these sites permanently.

7b7

The SRO system has four hole sensor (7 inch hole). The objective is to provide ARPA with the data from sensors. Holes are at a depth of 75 to 300 meters.

7b8

In Iran the site is 60 km from Teheran.

7b9

USO: Unmanned Seismic Observatory

7b10

Data will be recorded locally. Must be in a format adequate for transmission by communication satellites. It will then be sent through the ARPA Network to mass storage in NASA Ames, California.

7b11

Data will be transmitted in digital form to the worldwide system

7b12

The amount of data generated will be 2 reels per week per station and 2 to 4 times that amount if short observations are taken. All these data has to be transmitted through the ARPA network.

7b13

The delay between generation of data and its arrival into the

The VELA Project : Some Miscellaneous Notes

network could be up to 2 months. A quality review will take place in Albuquerque.

7b14

NORSAR Data Link

7c

The NORSAR SPS and the NORSAR TIP (local terminals are linked to it) are linked to an MPX and a MODEM. The later through 9.6 KB leased lines will be connected to a MODEM AND an MPX in the U.S. which are linked to SDAC-SPS and SDAC TIPS connected to local terminals again, and a a360/44.

7c1

Another scheme would be to lease a 50kb line between the U.S. and Norway. The scheme would be the following:

NORSAR ---> PLI ---> TIP ---> SIMP ---> shared 50kb
transatlantic line

7c2

PLI : Private Line Interface

SIMP : Satellite IMP

7c2a

This mode should be less expensive. But no decision has been reached because the common carriers cannot decide about the price of the system.

7c2b

BB&N Data Link

7d

Emphasis was on where new technology may be used. The study started by looking at communication problems.

7d1

ARPA net communications
leased links
mail

7d1a

Concentration was on the ARPA network. In Europe we only have spurs (no multiple connectivity).

7d2

Interface. Data is passed in packets which are routed separately towards their destination. There is a packet switching which optimizes the utilization of the network. Transmission delays are less than 1 sec.

7d3

Advantages of the Network

7d4

One needs to access only one node to send messages to many sites.

7d4a

When one wants to change destination one just needs to change the header of the messages.

7d4b

The VELA Project : Some Miscellaneous Notes

Usage rate of any link may vary. Therefore there is a flexibility in data rate.	7d4c
Communication system does error control (not too important for transmission of raw data which has a lot of redundancy).	7d4d
Two way communication possibility	7d4e
Significantly increased reliability.	7d4f
Payments proportional to usage (pay by packets).	7d4g
Economies of scale of high band width lines (a capacity increase of a factor of 5 only costs twice as much). There is a 20% overhead for data transmission.	7d4h
Disadvantages	7d5
Not suitable for voice because of variable delays. Voice grade requires constant delays.	7d5a
More complicated sytem.	7d5b
Difficulties in introduction of new technology.	7d5c
High cost of IMP : \$100 K (should decrease rapidly).	7d5d
SIMP : Satellite IMP	7d6
A satellite IMP does not want to talk with other computers but only with other IMPS.	7d6a
Total site cost is \$50 K in addition to communication facilities.	7d7
COMSAT GROUP	7e
Objectives of the Group	7e1
1) Evaluate technical alternatives.	7e1a
2) Compare costs	7e1b
3) Recommendations	7e1c
Approach	7e2
Access to nearest earth station	7e2a

The VELA Project : Some Miscellaneous Notes

Improvement to interconnection links	7e2b
Suitability for DICOM	7e2c
Standard earth station vs DICOM	7e2d
Recommendations	7e2e
Example of Schedule	7e3
Facilities trade-off	7e3a
Cost analysis	7e3b
Recommendations	7e3c
Preparation of report	7e3d
Far East survey	7e3e
Facilities trade-off	7e3f
.....	7e3g
Problem Areas	7e4
Tariffs. Facility ownership. Acceptance of new technology by PTT's.	7e4a
TELEDYNE	7f
Topology for seismic markets : three basic types.	7f1
Spider network. Octopus network. Stegosaurus network.	7f2
The last one has the sites connected to mass storage (ILLIAC 4) through the ARPA network.	7f3
Data acquisition and storage	7f4
Raw data : 18,000 tapes per year.	7f4a
Event Summary : 2 tapes per year.	7f4b
Signal Waveforms : 540 tapes per year.	7f4c
Signal Description: 4 tapes per year.	7f4d
Data Processing	7f5

The VELA Project : Some Miscellaneous Notes

1000 detections per day. (2.10,000 bits per detection)	7f5a
Queries would be essentially for event summary and signal description.	7f6
The data storage system would be the ARPA network data storage system.	7f7
DATA COMPUTER Corporation	7g
Design concepts	7g1
Storage, retrieval and file maintenance.	7g1a
Large on-line files.	7g1b
Uniform interface: datalanguage	7g1c
Reformatting & Conversion	7g1d
Shared data	7g1e
Shared system	7g1f
Inverted files	7g1g
Content addressable	7g1h
Checkpoint restart	7g1i
Fully redundant (optional by file)	7g1j
Access security (at user level, at file level, at subfile level)	7g1k
Economy of scale	7g1l
Two types of storage are considered:	7g2
Ampex TBM	7g2a
UNICOM (strip capacity: 1.7 billion bits) (Max capacity : .75 trillion bits) (average access time : 8 sec)	7g2b
Application to seismic data: Needs	7g3
Bits per year: between 3.15 and 6.11 trillion bits per year.	7g3a

The VELA Project : Some Miscellaneous Notes

Yearly transmission costs : \$ 945,000 to \$ 1,833,000. It costs 10 cents per kilopacket for any single hop in the network

7g3b

Questions

7g4

Will datacomputer approach be used for seismic data?

7g4a

How much of the raw data has to be kept on-line?

7g4b

Will all computing be done on the ARPA network?

7g4c

The VELA Project : Some Miscellaneous Notes

(J17581) 29-JUN-73 16:00; Title: Author(s): Paul Rech/PR;
Distribution: /RWW DCE SRL JCN MDK DVN; Sub-Collections: SRI-ARC; Clerk:
PR;
Origin: <RECH>U.NLS;2, 29-JUN-73 15:52 PR ;

On Proposed Journal ACTION/COPY Distinctions

Feedback on (IJOURNAL,16935,1): Journal "action items" and "copies".

1

1) There should be a default distribution type, either "action" or "copies". I see no reason to have NO default. However, it's not entirely clear what it should be. The arguments as I see them are these:

1a

On the one hand, if we want to be sure that people will send action items judiciously, then we should make it easier to send "copy" items, and slightly harder to send "action" items. This argues for making the default be "copy".

1a1

On the other hand, it makes sense to me to make the change be upwards compatible with the present distribution mechanism. That is, it would be nice if the user didn't suddenly find out that "D" for Distribution no longer works. This argues that the default should be "action", as it is now.

1a2

My own preference is that the default be "action".

1a3

P.S. --- The use of the word "INFORMATION" in the Journal Command Form, as suggested in (KAYE,ACTION,) is misleading. Sounds too much like "COMMENTS". I suggest "CC's:" or "COPIES TO:"

1a4

2) The title of the "JOURNAL" branch should read

1b

(JOURNAL) Journal Mail: Action Items --- Most Recent Items First

1b1

3) The title of the "COPIES" branch should read:

1c

(COPIES) Journal Mail: Non-Action Items --- Most Recent Items First

1c1

4) The "execute secondary distribution" mechanism should also allow one to specify "action" and "copy" (with default to one or the other). The new addressees should be added to the distribution list of the original journal item, and be accessible by all subsequent readers of that item.

1d

It makes sense to me to always have ALL the addressees stored in one place, so that a reader of an article will be able to determine who got it, whether it was via secondary distribution or primary.

1d1

Either we should add the new addressees to the origin statement of the original Journal item, or put all addressees (including

On Proposed Journal ACTION/COPY Distinctions

those on the original distribution list) in some updatable file that is linked to through the origin statement.

1d2

Some Personal Observations:

2

The justification for the action/copy dichotomy in the initial file is basically as stated in #16935, namely:.

2a

"When reading his mail, the user will be able to determine which items should receive his urgent attention, and which he needs to read to keep abreast of the general happenings."

2a1

Personally, I don't believe the distinction in the initial file between "action" and "copy" is desirable. (But I suspect I'm in the minority on that.)

2b

I'd prefer to receive all my mail in one bucket initially and then pigeonhole it myself. I'd even prefer "author" copies along with my regular journal mail, so I wouldn't have to do a separate "jump" to see that my stuff got delivered.

2c

WHAT'S WRONG WITH SIMPLY TAGGING EACH CITATION IN THE (JOURNAL) BRANCH AS ACTION OR COPY OR AUTHOR OR WHATEVER ?

2c1

On Proposed Journal ACTION/COPY Distinctions

(J17582) 29-JUN-73 16:21; Title: Author(s): Michael D. Kudlick/MDK;
Distribution: /DSK JDH RWW JCN CHI; Sub-Collections: SRI-ARC; Clerk:
MDK;
Origin: <KUDLICK>CC'S.NLS;2, 29-JUN-73 13:38 MDK ;

q.v.

Jake ... Two quickies (RSVP):

1) Were you able to move the programs stuff over to the resource notebook, and did you let Schelonka know? Where does it live now?

2) Where does the siteident situation sit now ... still waiting for Cerf?

1

q.v.

(J17583) 29-JUN-73 16:32; Title: Author(s): Michael D. Kudlick/MDK;
Distribution: /JAKE; Sub-Collections: SRI-ARC; Clerk: MDK;

Jun 17-23, 1973: A WEEK IN REVIEW

WEEKLY ANALYSIS REPORT:

WEEK: JUN 17 - 23, 1973 (24 HOURS/DAY)

TOTAL SYSTEM CPU: 58.617

(ARC)

IDENT	CPU HRS	CON HRS	CPU/CON	% SYS	CON/CPU: 1
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(STAFF)

(MFA)	.250	12.606	.020	.426	50.424
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(DCE)	.389	14.716	.026	.664	37.830
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(BAH)	1.366	24.458	.056	2.330	17.905
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(SRL)	.321	9.895	.032	.548	30.826
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(JCN)	.620	8.605	.072	1.058	13.879
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(DVN)	.203	16.540	.012	.346	81.478
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(PR)	.085	3.656	.023	.145	43.012
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(RWW)	.065	2.094	.031	.111	32.215
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(TOTAL)	3.282	84.585		5.599	
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(PSO)

(KFB)	.065	5.952	.011	.111	91.569
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(MEJ)	.899	60.278	.015	1.534	67.050
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(KIRK)	4.295	92.868	.046	7.327	21.622
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Jun 17-23, 1973: A WEEK IN REVIEW

(LLL)	-	-	-	-	-	6a4d
(NDM)	1.981	44.356	.045	3.380	22.391	6a4e
	-----	-----		-----		6a4f
(TOTAL)	7.240	203.454		12.352		6a4g
						6a4h
(NIC)						6a5
(JDC)	.027	1.489	.018	.046	55.148	6a5a
(EJF)	.381	20.172	.019	.650	52.945	6a5b
(CBG)	.009	.219	.041	.015	24.333	6a5c
(MLK)	.422	22.648	.019	.720	53.668	6a5d
(MDK)	.270	9.283	.029	.461	34.381	6a5e
(JBN)	.344	19.066	.018	.587	55.424	6a5f
	-----	-----		-----		6a5g
(TOTAL)	1.453	72.877		2.479		6a5h
						6a5i
(HARDWARE)						6a6
(MEH)	.149	13.866	.011	.254	93.060	6a6a
(JR)	.013	.289	.045	.022	22.231	6a6b
(EKV)	.012	1.040	.012	.020	86.667	6a6c
	-----	-----		-----		6a6d
(TOTAL)	.174	15.195		.296		6a6e
						6a6f
(TENEX)						6a7
(DIA)	.746	13.720	.054	1.273	18.391	6a7a
(KEV)	.540	17.175	.031	.921	31.806	6a7b

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(DCW)	1.819	41.881	.043	3.103	23.024	6a7c
-------	-------	--------	------	-------	--------	------

-----	-----	-----				6a7d
-------	-------	-------	--	--	--	------

(TOTAL)	3.105	72.776		5.297		6a7e
---------	-------	--------	--	-------	--	------

6a7f

(NLS)

6a8

(WLB)	.077	1.783	.043	.131	23.156	6a8a
-------	------	-------	------	------	--------	------

(CFD)	.748	28.117	.027	1.276	37.590	6a8b
-------	------	--------	------	-------	--------	------

(JDH)	1.036	18.294	.057	1.767	17.658	6a8c
-------	-------	--------	------	-------	--------	------

(JDH)	.050	1.288	.039	.085	25.760	6a8d
-------	------	-------	------	------	--------	------

(CHI)	.478	15.179	.031	.815	31.755	6a8e
-------	------	--------	------	------	--------	------

(DSK)	.480	13.426	.036	.819	27.971	6a8f
-------	------	--------	------	------	--------	------

(HGL)	.707	14.314	.049	1.206	20.246	6a8g
-------	------	--------	------	-------	--------	------

(EKM)	.263	14.543	.018	.449	55.297	6a8h
-------	------	--------	------	------	--------	------

(JEW)	2.206	184.094	.012	3.763	83.451	6a8i
-------	-------	---------	------	-------	--------	------

-----	-----	-----				6a8j
-------	-------	-------	--	--	--	------

(TOTAL)	6.045	291.038		10.311		6a8k
---------	-------	---------	--	--------	--	------

6a8l

(GROUP) TOTALS

6b

GROUP	CPU HRS	CON HRS	CPU/CON	% SYS	CON/CPU	6b1
-------	---------	---------	---------	-------	---------	-----

6b2

(STAFF)	3.282	84.585	.039	5.599	25.772	6b3
---------	-------	--------	------	-------	--------	-----

(PSO)	7.240	203.454	.036	12.351	28.101	6b4
-------	-------	---------	------	--------	--------	-----

(NIC)	1.453	72.877	.020	2.479	50.156	6b5
-------	-------	--------	------	-------	--------	-----

(HARDWARE)	.174	15.195	.011	.297	87.328	6b6
------------	------	--------	------	------	--------	-----

(TENEX)	3.105	72.776	.043	5.297	23.438	6b7
---------	-------	--------	------	-------	--------	-----

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(NLS)	6.045	291.038	.021	10.313	48.145	6b8
	-----	-----		-----		6b9
(TOT)	21.299	739.925		36.336		6b10
						6b11
(STATS)						6c
HIGHEST CPU: KIRK	4.295 hrs	LOWEST CPU:	CBG	.009 hrs		6c1
HIGHEST CON: KIRK	92.868 hrs	LOWEST CON:	CBG	.219 hrs		6c2
HIGHEST CPU/CON: JCN	.072	HIGHEST CON/CPU:1: MEH	93.060			6c3
						6c4
(OVERHEAD)						6d
(JCP)	2.056	32.822	.063	3.508	15.964	6d1
BACKGROUND	3.500	83.474	.042	5.971	23.850	6d2
CAT	10.818	30.556	.354	18.455	2.825	6d3
DOCB	-	-	-	-	-	6d4
DOCUMENTATION	.012	.132	.091	.020	11.000	6d5
GILBERT	-	-	-	-	-	6d6
NETINFO	-	-	-	-	-	6d7
NIC-WORK	.182	1.662	.110	.310	9.132	6d8
OPERATOR	.670	14.336	.047	1.143	21.397	6d9
PRINTER	5.254	83.726	.063	8.963	15.936	6d10
SYSTEM	8.243	165.947	.050	14.062	20.132	6d11
	-----	-----		-----		6d12
(TOTAL)	30.735	412.655		43.469		6d13
						6d14
(XEROX)						6e

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NAME	CPU HRS	CON HRS	CPU/CON	% SYS	CON/CPU:1
(LPD)DEUTSCH	.092	1.515	.061	.157	16.467
(CMG)GESCHKE	.003	.233	.013	.005	77.667
(JGM)MITCHELL	.083	3.372	.025	.142	40.627
(WHP)PAXTON	-	-	-	-	-
(EHS)SAT-WTE	.293	15.063	.019	.500	51.410
(RES)SWEET	.076	2.738	.028	.130	36.026
	-----	-----		-----	
(TOTAL)	.547	22.921		.929	

(RADC)

NAME	CPU HRS	CON HRS	CPU/CON	% SYS	CON/CPU:1	DIR
BAIR	.241	18.425	.013	.411	76.452	228
BERGSTRM	-	-	-	-	-	40
BETHKE	.020	1.611	.012	.034	80.550	52
CAVANO	.090	5.909	.015	.154	65.656	115
IUORNO	.075	7.229	.010	.128	96.387	33
KENNEDY	.263	19.375	.014	.449	73.669	37
LAMONICA	.221	11.072	.020	.377	50.100	97
LAWRENCE	-	-	-	-	-	43
MCNAMARA	.084	4.344	.019	.143	51.714	131

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PANARA	.034	2.969	.011	.058	87.324	114	6f13
RADC	.126	7.271	.017	.215	57.706	88	6f14
RZEPKA	.059	5.406	.011	.101	91.627	24	6f15
SLIWA	.006	.661	.009	.010	110.167	18	6f16
STONE	.365	16.626	.022	.623	45.551	299	6f17
THAYER	.002	.048	.042	.003	24.000	4	6f18
TOMAINI	.015	.617	.024	.026	41.133	40	6f19
	-----	-----		-----		-----	6f20
(TOTAL)	1.601	101.563		2.732		1363.000	6f21
(PER CENT TOTAL DISK CAPACITY)						2.799%	6f22

(NETUSERS) TOP FIVE

NAME	CPU HRS	CON HRS	CPU/CON	% SYS	CON/CPU:1	
BBN-TENEX	1.004	73.306	.014	1.713	73.014	6g4
NSRDC	.515	18.954	.027	.879	36.804	6g5
BBN-NET	.508	50.352	.010	.867	99.118	6g6
UCLA-NMC	.462	15.929	.029	.788	34.478	6g7
NBS-TIP	.383	13.669	.028	.653	35.689	6g8
	-----	-----		-----		6g9
(TOTAL)	2.872	172.210		4.900		6g10

(NET) TOTAL	CPU HRS	CON HRS	CPU/CON	% SYS	CON/CPU:1	6h
						6h1

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NET

4.419 269.395

.016

7.539

60.963

6h2

6h3

7

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(J17584) 29-JUN-73 17:18; Title: Author(s): Beauregard A.
Hardeman/BAH; Distribution: /WAR; Sub-Collections: SRI-ARC WAR; Clerk:
BAH;

** 17585

John - JJP is no longer with MITRE, he may be found at the Bureau of Customs in Washington, d.c.

1

(J17585) 29-JUN-73 19:23; Author(s): Jerry J. Powell/JJP;
Distribution: /JRP(John, if you need to contact Jerry Powell, please let
me know and can do for you); Sub-Collections: NIC; Clerk: JJP;

userguide userguide

This is a user's guide to the userguides. It consists of a proposed list of conventions that are designed to meet the following criteria:

1

allow the fastest find-it-yourself online answering to a user's question on how to use the particular feature he needs of the many available in the system,

1a

be intuitive enough for the user to eventually learn the meanings from the context in which they are used though they should also be made easily available at any time, and

1b

be general enough to function consistantly for all the userguides.

1c

Conventions:

2

In syntax descriptions, alternative user responses to feedback from the system are represented by separate statements (lines) one level down from the system feedback syntax.

2a

Explanations of the user responses should be conceptual substructure to the syntax for the response. (See -- 16347, conceptual:w)

2b

Information Echoed by the system is enclosed in Square Brackets. This would be in addition and separate from the keys typed by the user. For example: co[Comments] instead of co[mments].

2c

This is for two reasons. First of all, I found the division of a word (especially from the first character) by a square bracket very confusing when I was trying to learn NLS. Second, it seems innaccurate in concept as well as in representing the case of the first character.

2c1

The descriptions on how to use the system are addressed to the second person plural or impersonal you.

2d

This is to eliminate the gender problem (is The User a he or she?) and to simplify the instructions by eliminating the number of words and syntactical gymnastics necessary for third person singular. Also this should provide a more direct and personal style to the userguides similar to that used for the TNLS Primer and in Locator.

2d1

userguide userguide

(J17586) 29-JUN-73 19:56; Title: Author(s): Kirk E. Kelley/KIRK;
Sub-Collections: SRI-ARC; Clerk: KIRK;
Origin: <KELLEY>USERGUIDES.NLS;4, 20-MAY-73 13:45 KIRK ;

Sailhackbull

Jim: since this is the NIC, it seems to be most appropriate to message you with the Journal, ergo: in reference to the part of my sendmsg about DEC ALGOL, and your notice on SAIL, yes i'd be very interested. An earlier problem I had with ALGOL was that I couldn't use the 10/50 io modes to control echo in the fancy tenex sort of way that I wanted to, and you obviously havent got that problem, or have overcome it with HACK.

1

yhs Buz.

2

Sailhackbull

(J17587) 29-JUN-73 20:36; Title: Author(s): A. D. (Buz) Owen/ADO;
Distribution: /JOC; Sub-Collections: NIC; Clerk: ADO;

Annoying name delimitator bug.

Occasionally, a statement will become all caps preceeding an edit. Shows up using null name delimitators (even after they have been changed back to default) when editing the very beginning or very end of a statement, or if the statement begins with special characters: *] etc. Very annoying as it occurs without warning after extensive editing, is a hassle to fix. AND THERES NO WAY TO GET AROUND IT Please look at it as more people are beginning to use null delimitators.

1

Annoying name deliminators bug.

(J17588) 30-JUN-73 18:17; Title: Author(s): Kirk E. Kelley/KIRK;
Distribution: /CFD BUGS; Sub-Collections: SRI-ARC BUGS; Clerk: KIRK;

Visit Notice: for 2 Jul 73, Eric Foxley and Steven Hague, University of Nottingham

Special attention MDK, JBN, RWW: First objective, NIC/NET familiarity: MDK logical host; Dave Brown alerted if they want to discuss topics in his area.

Visit Notice: for 2 Jul 73, Eric Foxley and Steven Hague, University of Nottingham

Dr. Eric Foxley, Director of Computing, Cripps Computing Centre, University of Nottingham, Nottingham, U.K. and, Mr. Steven J. Hague, Coordinator, Nottingham Algorithms Group.

1

To visit ARC Monday, 4 Jul 73, 0930; whole day set aside for SRI visit, ARC being primary contact point. I assume that it is mainly the ARPANET and NIC that initiates the visit, since the London TIP is scheduled to become operational soon.

2

I want Mike to be their official host. (see -- 14724,4c4:mgwy)

2a

Dave Brown (ext 2944) is alerted and would be interested in having them visit with people in his Information Sciences Laboratory if the visitors are interested. Let it be their host's job to learn early in the day if they want to see other people in SRI, and make arrangements. The AI Group has not yet been contacted; don't know whether Foxley or Hague have AI interests.

2b

Visit Notice: for 2 Jul 73, Eric Foxley and Steven Hague, University
of Nottingham

(J17589) 1-JUL-73 11:54; Title: Author(s): Douglas C. Engelbart/DCE
; Distribution: /rww drb jcn mdk jbn chi ; Sub-Collections:
SRI-ARC; Clerk: DCE ;

Request for OP Directive Preventing Substatement Page Breaks

CHI -- For the Directory, as well as for production of formatted reports, there is urgent need for an Output Processor directive to produce page breaks at statements of a certain level only. This is not the directive to produce page breaks at specified levels at each occurrence, but one to insure that page breaks are not made at substatements when this is not desired, and the whole branch should be carried to the next page. I have asked for this before, and perhaps there is some reason it cannot be done? -- Jeanne

1

Request for OP Directive Preventing Substatement Page Breaks

(J17590) 1-JUL-73 20:07; Title: Author(s): Jeanne B. North/JBN;
Distribution: /NP CHI MDK NDM; Sub-Collections: SRI-ARC NP; Clerk: JBN;

Use of Catalog Programs by non-ARC People to be Prevented

Beau -- There have been inquiries about use of our catalog progrms by outsiders. MDK says we cannot support such use at this time. Please be sure that password on program directory or directories is secure.
-- Jeanne.

1

Use of Catalog Programs by non-ARC People to be Prevented

(J17591) 1-JUL-73 22:13; Title: Author(s): Jeanne B. North/JBN;
Distribution: /BAH MDK RWW MEJ MEJ MLK CHI; Sub-Collections: SRI-ARC;
Clerk: JBN;

NIC Efforts to Meet Your Need for Input and Retrieval

The novice statement of Content Analyser will be ready in a day or so, and we will send it to you.

1

As we discussed, this capability will allow you to prepare bibliographies in any format you choose, and to make searches on them using a content analysis for any term you select.

2

I have talked to Mike Kudlick again about your needs. Reconsideration results in the same conclusions. NIC cannot support the use of catalog programs by any others at this time. Nor, unfortunately, can we see our way to promise to catalog and input items into the NIC data base to have them included in the NIC Catalog.

3

We are looking for a way to allow either or both of these possibilities, and will let you know of the means we find to serve your needs.

4

5

NIC Efforts to Meet Your Need for Input and Retrieval

(J17592) 1-JUL-73 23:12; Title: Author(s): Jeanne B. North/JBN;
Distribution: /PLM MDK RWW MEJ NDM; Sub-Collections: SRI-ARC; Clerk:
JBN;
Origin: <NORTH>MILLERREPLY.NLS;1, 1-JUL-73 22:52 JBN ;

Policy Reason for Declining to Issue UCLA Document as Part of RFC 499

A slow response to your last communication giving your reasons for wanting the UCLA manual to accompany RFC 499 as you had requested.

1

I have talked this over with Mike Kudlick, and it is agreed we should stand by our policy of declining to issue documents which are actually Site documentation as contrasted with Network documentation. The entire RFC actually is Site documentation and properly should be the responsibility of Harvard to publish. We published and distributed the basic document but we could have declined to do this. We certainly have to draw the line at the lengthy UCLA manual cited by it.

2

Policy Reason for Declining to Issue UCLA Document as Part of RFC 499

(J17593) 1-JUL-73 23:39; Title: Author(s): Jeanne B. North/JBN;
Distribution: /BAR MDK RWW MLK JEW; Sub-Collections: SRIARC NIC ; Clerk:
JBN;
Origin: <NORTH>REUSSOWREPLY.NLS;1, 1-JUL-73 23:29 JBN ;

Request for Status of Work on Sndmsg Address List

Jim -- When you get back and have time, please let me know of the success of your efforts to put sndmsg addresses into a record. We are continuing to receive requests for this information for Network people, and MDK says you have worked on this. -- Jeanne

1

Request for Status of Work on Sndmsg Address List

(J17594) 1-JUL-73 23:57; Title: Author(s): Jeanne B. North/JBN;
Sub-Collections: SRIARC NIC ; Clerk: JBN;

Efforts to Handle Document Requests Without Referring to SDC2

Steve -- As you request, we are working out a cost estimate for functional documents so that we can reply to many of the requests with an offer to supply for a price. We'll let you know what we come up with. Another, basic reason for referring such requests for documents for your opinion was to insure that we didn't offend requestors who had a closer relation to the Network than we were aware of; we have not yet succeeded in getting into a satisfactory information situation so that we are not surprised by new Sites occurring full-blown, but this is being worked on. For the time being, I have asked Marcia to refer to me all the requests she was referring to you, and we'll try not to burden you unnecessarily. -- Jeanne

1

Efforts to Handle Document Requests Without Referring to SDC2

(J17595) 2-JUL-73 00:05; Title: Author(s): Jeanne B. North/JBN;
Distribution: /SDC2 MDK RWW MLK; Sub-Collections: SRIARC NIC ; Clerk:
JBN;

Reply to DHC on some Journal Suggestions

Dave, I don't know if anyone else answered your suggestions, but we do pla to allow unrecorded dialog through the Journal and have been thinking about how to aallow an addressee how is not in the ident system but is known to exist at a site. I can't give you a date for when tese features will happen at this time but they are on the stack.

1

Reply to DHC on some Journal Suggestions

(J17596) 2-JUL-73 08:30; Title: Author(s): Richard W. Watson/RWW;
Distribution: /DHC MDK JEW; Sub-Collections: SRI-ARC; Clerk: RWW;

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** 17597

Business Cards for COM

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Business Cards for COM

(J17597) 2-JUL-73 09:28; Title: Author(s): N. Dean Meyer/NDM;
Distribution: /NDM; Sub-Collections: SRI-ARC; Clerk: NDM;
Origin: <MEYER>JCNCARD.NLS;4, 2-JUL-73 09:26 NDM ;

WHEN THIS GOES TO THE PRINTER FOR FINAL PRINTING:

use calling card stock

do not print this page

this is being printed 10-off: make 7 cuts to
produce 2 by 3 1/2 cards

Comments on Your Command Categories for HELP

RE:<Kudlick>nov/exp

Comments on Your Command Categories for HELP

Comments on <kudlick>nov/exp

1

Thank you for preparing this first draft of a HELP system. Since it didn't happen to coincide exactly with what I had in mind, and since you had to be out of town, I discussed it with some people, but we didn't approve it yet.

2

I want very much for you to "interview" Dick Watson on this subject. He is very interested in the details of this and will probably have good ideas to contribute.

3

Below is a list of comments I have to make.

4

The approach you took is basically what I had in mind. However, we can go one step further, I think, and take the extreme Novice point of view in the sense that we label the top level categories very much by FUNCTION, not parallel to our arbitrary NLS system divisions. For example,

4a

You show a top level category, "subsystems". The guy you want to assist has a job to get done like "doing arithmetic" or whatever. His mind doesn't think in subsystems (yet) although at the bottom level of the information in the HELP system, he will of course find out that there is a subsystem for doing arithmetic, a thing he ultimately has to know to use the system.

4a1

You mention under ADDRESSING "distinguishing DNLS from NLS addressing problems"...?

4b

Maybe you mean DNLS from INLS. Yes, in general we need to define separate text for the two NLSes wherever commands actually differ, a task which should "fall out" of Chuck's table-driven command language approach anyway. He has flagged differences internally.

4b1

In general, you seem to be combining two approaches here (I may misunderstand). I get that you want to communicate "philosophy" and reasons why things are done a certain way, a little salesmanship, an NLS overview, etc. This is all fine, and can largely be borrowed text from already existing sources I would think. The important thing here is HOW the guy perceives his choices at each node.

4c

If he comes to get syntax for links (and he may be somewhat of an Expert) we want to approach it so that he may quickly get this WITHOUT philosophy.

4c1

With respect to HOW choices are presented to him, I would

Comments on Your Command Categories for HELP

ultimately like us to come up with a scenario of the tree of choices, something like what I wrote up for our 3-point HELP proposal. Know what I mean?

4d

Also, I have requested documentation on the Carnegie Mellon ZOG system, which may be very relevant to this topic.

5

I really appreciate your working on this. I very much liked your earlier short manual and think you do this kind of thing well. It seems like we can afford to take the time to do this right, but I want to make sure we keep thinking about it, and maybe try out some examples using QUERY.

6

Comments on Your Command Categories for HELP

(J17598) 2-JUL-73 11:02; Title: Author(s): Diane S. Kaye/DSK;
Distribution: /MDK; Sub-Collections: SRI-ARC; Clerk: DSK;
Origin: <KAYE>MIKE.NLS;2, 2-JUL-73 10:42 DSK ;

Network Journal Mail

Jim-- Why is it that only some of my journal mail gets delivered to my network mailbox (i.e. NEIGUS at BBN) and the rest just gets to my initial file here at NIC. There does not seem to be any pattern; I have received both messages, and journal references at BBN. Also I tried to FTP a journal reference to BBN, and each time my connection was terminated without the file being sent. I tried to retrieve <JJOURNAL>17564.NLS;XNLS. Would the results have been different if I had using lower case letters?
Thanks for looking into this. Nancy

1

Network Journal Mail

(J17599) 2-JUL-73 11:13; Title: Author(s): Nancy J. Neigus/NJN;
Distribution: /JEW; Sub-Collections: NIC; Clerk: NJN;

.AUTHOR branch

jim, i did a upde of the file MM.NLS;4 . it said that the update was unnecessary. this message is being typed after the update was tried. I am using the submit Message command.

1

.AUTHOR branch

(J17600) 2-JUL-73 14:33; Title: Author(s): Michael L. Marrah/MLM;
Distribution: /JCN; Sub-Collections: NIC; Clerk: MLM;

In response to Dave's response to my response ... (assuming everybody's seen 'em all)

I never said it was T*H*E Network editor. Clearly I need to introduce the paragraph on Limitations.

Will whomp one up soon and send around. Re names: I fear that eds is too likely to conflict with

existing installed commands. How abt neteds as a compromise, if many people share Dave's fear abt the

implications of neted. Final thought: somebody (maybe even me)

thought at the mtg that it would be a nice touch

to have NET-USING rather than MIT-Multics as the home base entry on the RFC version. How does this strike people?

(meant to be 'people'). For that matter, should this be labelled NET-USING Memo 1 (or 2) or the like?

At any rate, I seem to have gotten through a whole message without forgetting the ctl-v's, so I'd better

quit while I'm ahead. cheers, map

(J17601) 2-JUL-73 14:44; Author(s): Michael A. Padlipsky/MAP;
Distribution: /USING; Sub-Collections: NIC USING; Clerk: MAP;

Response to DHC's Response to Responses

I'm confused (not unusual for me) I thought our intent was to avoid (resist?) the temptation of building a 'great' editor. I tend to agree (again, from an (almost) totally ignorant point of view) with Dave that 'eds' is not a 'great' editor. However, what little greatness it does possess is derived from its simplicity. Where novice users are concerned, I'm inclined to cast my vote in favor of simplicity at the expense of elegance. From my experience, these tend to be mutually exclusive characteristics.

1

Response to DHC's Response to Responses

(J17602) 2-JUL-73 15:05; Title: Author(s): Ronald M. Stoughton/RMS;
Distribution: /USING; Sub-Collections: NIC USING; Clerk: RMS;

Visitor log: Jeff Franklin, Naval Ordinance Lab , 2-JUL-73

Visitor: Jeff Franklin

1

Address:

2

Code 431
Naval Ordinance Lab
White Oak
Silver Springs, Md
(301) 495 8544

2a

Note: DCE met Jeff at the NCC in New York. Jeff is involved in the development of a graphics based circuit design and verification system. He is interested in NLS as a tool for group management. HGL and JCN demonstrated parts of the system emphasizing those parts related to community development and software implementation. DCE spoke to him about possible utility participation.

3

Materials to be sent:

4

1972 Report

4a

1970 Report

4b

1962 Report

4c

NCC paper (14724,)

4d

Visitor log: Jeff Franklin, Naval Ordinance Lab , 2-JUL-73

(J17603) 2-JUL-73 15:20; Title: Author(s): Harvey G. Lehtman/HGL;
Distribution: /DCE JCN RWW; Sub-Collections: SRI-ARC; Clerk: HGL;

Text Editors: Answer to Message from RLL

Text Editors: Answer to your Message

1

Thanks for letting us know of your interest in comparative analysis of the information handling systems available over the ARPANET. We'll gladly cooperate with you on that area, and we would be very pleased to hear about your present views on the subject. In particular we would be interested in getting the results and conclusions you have reached so far about SOS, TECO, DED, and NLS.

1a

As far as we are concerned, we have, indeed, a small analytical effort going on in that domain. Our main objective is to gain some perspective in this field in order to back our development group in understanding how we fare in general and finding out what specific functions need to be improved.

1b

We have first looked at the question of frequency of usage of the various commands in NLS and their timings. We found out that less than 20 commands are responsible for over 80% of the total command usage. It is this group of commands that we attempt to optimize first. In particular we have already improved the text input in NLS by a factor of 2 or 3 as a result of these studies.

1c

Some further references:

1d

Note: The following journal items will give you some additional information about our work in this area. I would like to remind you that they are only informal working papers reporting incomplete results and tentative conclusions. These documents should not be considered as reports and we would prefer not to be quoted from them. If you need some further assistance to get to this material please contact Susan Lee (SRL).

1d1

Cost of text insertion with NLS (14351,)

1d2

Revised Timing and cost of text insertion with NLS (15466,)

1d3

The DNLS Command Language Monitor. Function and Results (14170,)

1d4

Command Usage Analysis: Report on phase I (13788,)

1d5

Analysis of the NLS language: Phase II Design (15367,)

1d6

The economics of text editing functions: cost effectiveness analysis of NLS (16017,)

1d7

Text Editors: Answer to Message from RLL

Computer Augmentation of Human Intellect: A revolution in
communication (17061,)

1d8

Please let me know if you need any further help.

1e

Paul RECH SRI-ARC

1f

Reference

from NSRDC : Text Editors - Comparisons
Date: 29-JUN-73 0729-PDT

2

PAUL,

2a

Jim Norton said to contact you for information on text editors.
We at NSRDC are very interested in the various text editors that
are around especially those on the ARPANET. I have info on SOS,
TECO, DED, and NLS. What we really would like to know is

(1) personal experiences with each

(2) statistics comparing various editors.

We have one journal item that is particularly interesting
comparing NLS, MTST, WYLBUR, and a recent update on TECO. Are
there any other documents or papers in a similar vain? Thanks
for any help; I can be reached via the journal as RLL or
sendmessage as NSRDC attn RLL.

2b

ROBERT LIEBERMAN

2c

Text Editors: Answer to Message from RLL

(J17604) 2-JUL-73 17:00; Title: Author(s): Paul Rech/PR;
Distribution: /RLL SRL; Sub-Collections: SRI-ARC; Clerk: PR;
Origin: <RECH>RLL.NLS;2, 2-JUL-73 16:57 PR ;

Somewhere past the three R's

(Isn't controversy fun?)

I hereby cast my vote in favor of NETEDS (tho I doubt EDS would conflict with other site's names). All previous objections are hereby (temporarily) retracted.

Mike -- I don't understand you comment about NET-USING vs. MIT-Multics. Do you mean as the originator or NETEDS?. Also: congratulations on the control-v's.

--Dave.

1

Somewhere past the three R's

(J17606) 2-JUL-73 17:31; Title: Author(s): David H. Crocker/DHC;
Distribution: /USING; Sub-Collections: NIC USING; Clerk: DHC;

Minor clarification on previous Journal suggestion

Dick -- thanks for the response about the journal suggestions. A point of clarification on my 'unknown' addresse: In addition to people without idents, but known to other sites, I would like to be able to enter a U.S. Postal address, at submission time (or even be able to refer to a statement which has the address. this last is probably not worthwhile -- if I record it in a statement, I might as well record it in the ident file.).

1

Minor clarification on previous Journal suggestion

(J17607) 2-JUL-73 17:34; Title: Author(s): David H. Crocker/DHC;
Distribution: /RWW; Sub-Collections: NIC; Clerk: DHC;

NP for voting capabilities.

I would like to vote for Jeannes suggestion (17590,) in the NPS file but I don't know how. Is sending another Journal message the only way? It might be worth while to devise a simple voting system allowing people to associate their ident by someone elses suggestion in the NPS file. Decision makers might like to have an indication of how much user weight is behind a particular improvement. Maybe people would be more inclined to use the NP and BUGS files if they could easily vote for suggestions. I know one user who would feel he had a little more of a role in the bootstrap feedback process.

1

NP for voting capabilities.

(J17608) 2-JUL-73 19:12; Title: Author(s): Kirk E. Kelley/KIRK;
Distribution: /NPS JBN JCN DCE DVN; Sub-Collections: SRI-ARC; Clerk:
KIRK;

**09

Diane, I would be very intersted in seeing the ZOG documentation when it comes if you could remember to notify me.

1

(J17609) 2-JUL-73 19:20; Author(s): Kirk E. Kelley/KIRK;
Distribution: /DSK; Sub-Collections: SRI-ARC; Clerk: KIRK;

Online Correspondence Before the TNLS Class in Cambridge June 18

This file records the online correspondence that led up to the class offered in TNLS by Dirk van Nouhuys, Marilyn Auerbach, andd Mike Kudlick from the Augmentation Research Center at BBN in Cambridge in the week beginning June 18. Sendmessages are given in full. ARC journal items are given either as catalog citations or as the note left in an author's "(author)" branch.

1

(AUERBACH)NWG/RFC 488: NLS Classes at Network Sites
23 Mar 73 15266 Auerbach
(15266,1:wznC)

2

RAW 6-APR-73 08:05 15620

3

RESPONSE TO RFC 488

Message: IF YOU HOLD A CLASS ON NLS AT A SITE IN THE CAMBRIDGE AREA, WE WILL SEND SOMEONE.

3a

6-APR-73 11:35:00,974

4

4a

Date: 6-APR-73 1134

4b

From: BBN-NET

4c

Re: nls-Boston

4d

- - - -

4e

4f

I've been checking around about interest in nls courses and there seem to be people hiding in the woodwork who either haven't heard about travelling nls or who always think of it as a great expenditure of time and effort because in the past it included a trip to the west coast. When it is made clear to them that nls will come to them they seem to express some interest--like, if it's here I might as well learn about it. Therefore I suspect that response to your inquiry will be slow. Other good news: we will be getting our refurbished (8k with mouse and keyset) imlac late in may (with the likelihood of having a substitute in its absence) so it appears that there will be interest in a DNLS course here in June. I think I can guarantee three or four people in my group alone, and maybe some from the Tenex group. Do you want me to follow that up? Ciao --Nancy-----

4g

(NOUHUYS)More on Boston TNLS

Online Correspondence Before the TNLS Class in Cambridge June 18

6 Apr 73 15610 Nouhuys
(15610,1:wznC)

5

5-MAY-73 13:04:15,322

6

NJN 14-MAY-73 06:20 16391

7

TNLS-Boston

Message: Dirk--

TNLS has caught on. I have heard from 13 people who are definite and three others who may have some question about the date. All of these are novice users--no refresher course or DNLS. A few may come in this week. I guess this great a number of students will require two classes. What do you propose to handle that? Two classes in a row or separated by some time? The only thing that worries me about two in a row is tying up resources (the conference room and the teletypes) for that long.

The dates are fine for me and my group (hardware people). All the others have indicated that any time in June is fine. The people who have responded are mostly from Sutherland's group in case you wondered.

Let me know soon what you decide. Ciao. --Nancy

7a

DVN 14-MAY-73 21:19 16456
Current State of Boston TNLS
Location: (IJOURNAL, 16456, 1:w)
*****Note: Author Copy*****

8

DVN 16-MAY-73 08:48 14997
Letter to Sylvia Mayer about Boston TNLS
Location: (IJOURNAL, 14997, 1:w)
*****Note: Author Copy*****

9

(J16629) 16-MAY-73 14:01; Title: Author(s): Nancy J. Neigus/NJN;
Distribution: /DVN; Sub-Collections: NIC; Clerk: NJN;

10

BTNLS

DVN 25-MAY-73 17:16 16827
 Plans for TNLS Courses in June
 Location: (IJOURNAL, 16827, 1:w)
 *****Note: Author Copy*****

11

DVN 16-MAY-73 20:00 16638
 There's a Crowd Waiting at BBN
 Message: Marilyn and Mike, Last night I got (Journal, 16629,). It's a
 Message so I'm doing a kind of secondary distribution of this item.
 Jim wants to consider the politics of the situation with Dick before
 we answer. I have already promised one of the places in the upcoming
 course to Sylvia Mayer. I am going to urge offering another course
 late in July.
 *****Note: Author Copy*****

12

DVN 25-MAY-73 10:47 16808
 Thanks and Backup on Dealing with DMCG
 Location: (IJOURNAL, 16808, 1:w)
 *****Note: Author Copy*****

13

(NOUHUYS)Plans for TNLS Courses in June
 25 May 73 16827 Nouhuys
 (16827,1:wznC)

14

29-MAY-73 06:31:25,1210

15

Date: 29-MAY-73 0631-PDT

16

From: BBN-NET

16a

Re: nls and btnls

16b

- - - -

16c

Hi Dirk--

16d

I had some weird symptoms in nls this morning. NLS would not echo
 anything I typed at it though it did send all of its prompts, such
 as A:, etc. I had no trouble in exec; everything i typed
 there was echoed properly. I sent an echo remote command from the
 TIP and I also gave the exec a fullduplex command, but none of
 this

16e

16f

16g

16h

16i

BTNLS

did any good. I linked to Smokey and told him about it ; he said 16j
 he would check it out, but had no more information for me. 16k

16l

Actually, to be more confusing, nls did echo viewspecs that I 16m
 typed.

For example, I would excute a print branch instruction by 16n

typing 16o

pb.2CAmCA 16o1

and all i would see on my tty was 16p

*A: V: m 16p1

What's happening? 16q

16r

Got your mesage. Glad you are coming to Boston. I have got the 16s
 classes

pretty much straightened out, except that I haven't heard from 16t
 Abhay.

I'll lay an ultimatum on him today. Also having a bit of trouble 16u

rounding up terminals. I'm going to NCC next week so I will have 16v
 to

16w

Thanks for the coffee. Jake wouldn't take any money. I hope you 16x

won't be so stubborn. 16y

--Nancy 16z

----- 16a@

absent myself from this whole mess for a while. 16aa

DVN MEJ 31-MAY-73 08:30 16912
 Idents for Bostnls
 Location: (IJOURNAL, 16912, 1:w)

BTNLS

*****Note: Author Copy*****

17

1-JUN-73 06:14:11,1161

18

 Date: 1-JUN-73 0614-PDT
 From: BBN-NET
 Re: bostnls

Dirk--

I am extremely busy these days. I have one day to finish some writing that has to be sent out right away and I am going to New York for the NCC next week and will not be available at all then. The earliest I could send all that information is the second week in June.

18a

As for Users Guides and cue cards I have no idea who has what. You may assume that no one has anything. I am having a hard enough time trying to arrange for terminals for this thing; I didn't expect to have to handle your end of it as well.

18b

People taking the class:

Paul Johnson Bill Merriam Eleanor Warnock Joe Pasafiume
 Sonya Shapiro Jerry Wolf Linda Amsden Gail Hedtler
 (Bonnie Nash-Webber or Bill Woods)
 these from the BBN-TENEX group

18c

Nancy Mimno Phyllis Hauser Pete M.W. Bliss Dick MacDonald from
 the BBN-NET group

18d

Alan Collins from BBN Div. 3.

18e

Lt Diane Shaw from Hanscom Field (AF)

18f

J.C.R. Licklider from MIT-DMCG.

18g

I hope this is enough. I haven't got time for more. You can call the people at BBN or sndmsg to them for more info.

--Nancy

BTNLS

18h

DVN 1-JUN-73 09:29 16946

We will Get Idents for Boston Students

Message: I got your sndmsg listing names and reporting your over work and the manual situation. We'll take care of it. We will call the people who are not in the ident file and will send manuals to a selected few.

later Thanks and,

D

*****Note: Author Copy*****

19

(JERNIGAN)NIC TNLS Class 18-22 June 73, at BBN, Status Report

6 Jun 73 17055 Jernigan

(17055,1:wznC)

20

(J17104) 11-JUN-73 07:14; Title: Author(s): Nancy J. Neigus/NJN;

Distribution: /DVN; Sub-Collections: NIC; Clerk: NJN;

21

BOSTNLS

(NOUHUYS)Next to Last Journal Item on Arrangeents for BOSTNLS

11 Jun 73 17120 Nouhuys

(17120,1:wznC)

22

DVN 12-JUN-73 17:37 17144

Who will Teach NLS in Boston

Message: Marilyn will be with me too teach Monday and Tuesday; Mike Kudlick will replace her the last three days.

*****Note: Author Copy*****

23

(J17147) 13-JUN-73 06:01; Title: Author(s): Nancy J. Neigus/NJN;

Distribution: /DVN; Sub-Collections: NIC; Clerk: NJN;

24

Maybe this is the last?

NJN 13-JUN-73 06:01 17147

Maybe this is the last?

Location: (JJOURNAL, 17147, 1:w)

25

DVN 27-JUN-73 21:29 17511

Teaching NLS at BBN in Cambridge

Location: (JJOURNAL, 17511, 1:w)

*****Note: Author Copy*****

26

Online Correspondence Before the TNLS Class in Cambridge June 18

(J17610) 2-JUL-73 20:07; Title: Author(s): Dirk H. Van Nouhuys/DVN;
Distribution: /MEJ NJN MDK; Sub-Collections: NIC SRI-ARC; Clerk: DVN;
Origin: <VANNOUHUYS>BOSTNLS.NLS;3, 2-JUL-73 20:04 DVN ;

For Voting on Needs and Possibilities

I vote for (journal,17608,).

1

For Voting on Needs and Possibilities

(J17611) 2-JUL-73 20:09; Title: Author(s): Dirk H. Van Nouhuys/DVN;
Distribution: /JBN KIRK CHI NP; Sub-Collections: SRI-ARC NP; Clerk: DVN;

Redistribution of 17599

I came upon your message to Jim White about network delivey. He is off getting married [<journal,15088,>;an item worth your attention]. I have executed it secundarilly distributedly to Charles Irby and Dave Hopper who are the right people anyway.

1

I enjoyed my visit to Cambridge.

2

17612 Distribution
Nancy J. Neigus,

1
1a

Redistribution of 17599

(J17612) 2-JUL-73 20:43; Title: Author(s): Dirk H. Van Nouhuys/DVN;
Distribution: /NJN; Sub-Collections: DPCS; Clerk: DVN;
Origin: <VANNOUHUYS>MYLIN.NLS;1, 2-JUL-73 20:28 DVN ;

What to do If Your Journal Branch Is Destroyed

SRL is on vacation, I am answering 17572.

1

When a journal item has been sent it resides until it is delivered in a file named after the sender's ident with a bunch of numbers in the directory <tejournal>. You can read it there.

2

Once it has been delivered a reference lives for a time in a temporary catalog file called <journal, tjcat,2 :xbrrm>. "xbrrm" give a nice, 2-line view. You can search for it there by content on the author's or recipient's ident or title words.

3

In a week or two, when the regular catalog's are run, it graduates to the various indices cited in <nic,locator,2:xmb>.

4

17613 Distribution

1

Bertha A. Rousseau, Gary L. Bockweg, Susan R. Lee, Paula Kazanjian,

1a

What to do If Your Journal Branch Is Destroyed

(J17613) 2-JUL-73 21:13; Title: Author(s): Dirk H. Van Nouhuys/DVN;
Distribution: /BAR2 GLB SRL PK2; Sub-Collections: NIC SRI-ARC; Clerk:
DVN;
Origin: <VANNOUHUYS>MYLIN.NLS;1, 2-JUL-73 20:28 DVN ;

Jean, I got the link to "j17383:gw" but was told that this was illegal can you clarify?

17614 Distribution
Jean Iseli,

1
1a

(J17614) 3-JUL-73 05:18; Author(s): M. R. Leavitt/MRL; Distribution:
/JI; Sub-Collections: NIC; Clerk: MRL;

My two cents on NETED

I've finally caught up with all this wildly flying correspondence on NETEDS or whatever it is being called these days. Much of it was picayune and childish. I have the following comments to add.

1

As a whole the editor is good. The only way to get a consensus on an editor is to make it simple; those people who want something more complex will never be satisfied with anything but their own. They are free to use their own. It is all right for an editor to have limitations, but in concurrence with others I think they should be explicitly stated.

2

For individual commands, I think a "backspace line" command is necessary, especially since you can't say "go to linenumber" (since there are none). It may be more difficult to implement, but we need a challenge somewhere. I think it should be a separate command as Ron suggested--that is, b[ackspace] m; or possibly a letter command with + or - preceding the number of lines--that is, m[ove] <+,->m.

2a

Read is not a necessary command; in fact it may be easier this way (that is, with the file name specified when calling the editor). The DEC 10/50 system has an exec command MAKE which takes a filename as an argument and puts you in TECO with the proper file manipulation. People always seemed to prefer that to creating a new name within TECO, if you weren't patching several files together which you can't do in NETEDS anyway.

2b

Several years ago I taught LINED (which is eds with line numbers) to non-computer oriented students who had no trouble with it, except for the line numbers which they found confusing. I believe therefore that it is a simple enough editor for our purposes; the limitations are irrelevant for the level of operation for which it is planned; and no line numbers is a good thing.

3

LINEED required that the filename be given on output, and that a file to be edited be read in. This proved to be very confusing to the students, who often forgot to name their files after they had completed working on them and all was lost. I think this supports the argument for the filename being a parameter of the NETEDS call.

3a

A final note: The expediency argument is a very bad one to use, especially since we are in no particular rush at this point. I have had a bit of experience trying to patch up an expedient version of FTP and, believe me, it is a drag. I think we should take our time and come up with a neat, clean solution.

4

17615 Distribution

1

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, Jean Iseli, David H.
Crocker, Nancy J. Neigus, Stephen M. Wolfe, Ronald M. Stoughton, Jim
O. Calvin,

1a

My two cents on NETED

(J17615) 3-JUL-73 06:27; Title: Author(s): Nancy J. Neigus/NJN;
Distribution: /USING; Sub-Collections: NIC USING; Clerk: NJN;

17614

**6

Hope I do this correctly.

This is a note of appreciation for the course in NLS at BBN two weeks ago.

1

It was an excellent experience, and I want to thank you sincerely for seeing to it that I really got the word about NLS.

1a

Mike Kudlick and Dirk VanNuyhuys were very effective. Both are extremely good at communicating. They took the interests, abilities, and backgrounds of the members of the class into account---on an essentially individual, tutorial basis. They absorbed some slightly cantankerous suggestions without a bit of ruffling, and they made the very best of the opportunity to engage the class members through admixing exposition with on-line practice.

1b

The class I was in was not as fast as the one that had been introduced to NLS just a day or two earlier. That was a good thing for me. I think I got a lot out of the course, and I think I shall now settle down to using NLS in some of my work.

1c

On the basis of my experience in the course, I think that NLS has great potential. I think that I must say, however and reluctantly, that there is still a problem in the initial learning phase, a problem due to the fact that any such system must be complex and also to the fact that there is not yet a sufficiently simplified approach to learning it. Doubtless everyone thinks he sees how to develop such an approach, and of course I think I do, but the import of this part of this note is simply that I want you to know that I am concerned, that I wish you and NLS the very best of success and see this matter of complexity as being the one thing that could inhibit success significantly.

2

The difficulty in learning is not attributable at all, I emphasize, to the manner or procedure or organization of the teachers or the course. The difficulty is inherent in NLS itself. It is not that NLS is in fact very difficult. It is that busy people are not tolerant of anything that stands in the way of instant reinforcement. I think, therefore, that there should be a deliberate effort to define a habitable subset of NLS that can be taught and learned, to the point of effective use, in 15 minutes. The learner's first look at the procedure should convince him that he has to type only, say, 25 control characters to produce and send a memo of one page length. Something like that.

2a

The real reason I am putting this thought into a note of appreciation is not that I found NLS too difficult at the course, or even last January when I used it in preparing and communicating with Steering Committee members about the report on the SUR project to the Principal Investigators' meeting. The real reason is that I have been noting a reluctance on the part of people who ought to use the NLS in communicating with one another---a reluctance to settle down and use it. In particular, at the meeting Jim Watson attended at Harvard last week, there was

discussion (unfortunately after Jim had left for his plane) of procedures for carrying out further work this summer via teleconferencing. I suggested the NLS, but there was more interest in trying out the teleconferencing system of the Institute for the Future. The only voiced reaction to the idea of using NLS was that it required too much investment of time to learn.

2b

Please forgive me for getting into criticism when my purpose is to thank you for a great experience. I say again that I did so only because I have a genuine concern for the realization of a shared dream.

3

I think that I shall be in California about the middle of July. I'll let you know just when as soon as I can in the hope that I shall be able to visit you---but, of course, I realize that the middle of the summer is not just the time to catch you home. Incidentally, this exercise---typing this memo---is going pretty well. I am developing enough speed to make the whole thing very workable. One of the main things is not to wait for the echo. I am going to look into how to get local echo. (All the parameters have been set up for me by Abhay Bhushan---via a file called '.LOGIN (INIT) here and (perhaps, though I think it got deleted accidentally) my initial file in NLS.) Anyway, I hope you get this. Please give my compliments, thanks, and best wishes to Mike, Dirk, Jim, and other colleagues in your lab.

4

17616 Distribution
Douglas C. Engelbart,

1
1a

(J17616) 3-JUL-73 06:35; Author(s): J. C. R. Licklider/JCRL;
Distribution: /DCE; Keywords: als course complexity kudlick vannuyhuys
bbn thanks; Sub-Collections: NIC; Clerk: JCRL;
Origin: <MIT-DMCG>MEMOTODOUG.NLS;2, 3-JUL-73 06:18 JCRL ;

Mike, you can get to link by printing the branch with the reference and then typing: (space)↑(CR) then (space).j17383(cr) then print(cr) - one of the responses will say file locked by XXXX - this does not mean anything relative to your being able to read the target of the link. Please leave me a message in MITRE-TIP directory if this either works or does not work - I just tried it to affirm to myself that things still worked as I remembered them; and they do. Hope this is of help to you.....Regards, Jean

17617 Distribution
M. R. Leavitt,

1
1a

(J17617) 3-JUL-73 07:13; Author(s): Jean Iseli/JI; Distribution:
/MRL(call me at 893-3500 ext 2371 if you have any problems.);
Sub-Collections: NIC; Clerk: JI;

exercise

We would like you to do some specific things with the following information to see how efficiently you operate in the AHI system. I hope the instructions are sufficiently clear so you will have no difficulty in understanding what you are to do.

1

This exercise was generated on the execuport terminal. There are no correct answers to any of the questions, but we do want get your general feelings. Try and work as rapidly as is comfortable for you. If you have time interruptions please note them.

2

time started (0910)

2a

I have been using the AHI system for 4 months.

2a1

When I am writing or editing a manuscript I feel very comfortable with the AHI language.

2a2

--strongly agree --agree --neutral x disagree --strongly disagree.

2a2a

Why? I have very little recent experience with the system, especially since the adoption of the new conventions.

2a2b

The AHI system is helpful in my everyday work.

2a3

--strongly agree --agree --neutral x disagree --strongly disagree.{

2a4

time completed (1130)

2b

17618 Distribution
James H. Bair,

1
1a

exercise

(J17618) 3-JUL-73 08:52; Title: Author(s): Frank P. Sliwa/FPS;
Distribution: /JHB; Sub-Collections: NIC; Clerk: FPS;
Origin: <SLIWA>EXERCISE.NLS;1, 3-JUL-73 06:17 FPS ;

†T and cr-lf

lack of cr-lf is intentional in †T for use in tty window in DNLS

1

17619 Distribution
David H. Crocker,

1
1a

†T and cr-lf

(J17619) 3-JUL-73 08:54; Title: Author(s): Kenneth E. (Ken)
Victor/KEV; Distribution: /DHC; Sub-Collections: SRI-ARC; Clerk: KEV;