ERM2 23-MAR-73 10:55 15276

greetings to ajr

hello from eric the mader

15276 Distribution Rosenfeld, Al J., greetings to ajr

(J15276) 23-MAR-73 10:55; Title: Author(s): Mader, Eric R. /ERM2; Distribution: /AJR; Sub-Collections: NIC; Clerk: ERM2;

Request to Have Person's Group Membership Shown for Person

CHI -- At present there seems no way to find in the Identfile what groups a person belongs to. Is there a sufficiently good reason for this to balance the problem it creates in updating the mailing lists of groups? This is particularly a problem in correcting bunches of preprinted labels. -- Jeanne

15277 Distribution
Irby, Charles H., Norton, James C., Kudlick, Michael D., North,
Jeanne B.,

Request to Have Person's Group Membership Shown for Person

(J15277) 23-MAR-73 12:57; Title: Author(s): North, Jeanne B. /JBN; Distribution: /chi jcn mdk nicsta; Sub-Collections: SRI-ARC NICSTA; Clerk: JBN;

Printer Paper: It is a Problem - and a Costly one

Jeanne: I ran across the same problem about printer paper as you today. I am asking KayB by this message to check into the paper type we order to see if it has recently been changed and to see what we have to pay to get better stock. (kayB: I'm not implying that I think you are cutting corners by ordering lousy cheap paper.. I suspect it's a surprise to you that it is giving us problems too... but please check into it?)

15278 Distribution
North, Jeanne B., Byrd, Kay F., Van Nouhuys, Dirk H., Hardy,
Martin E., Peters, Jeffrey C.,

Printer Paper: It is a Problem - and a Costly one

(J15278) 22-MAR-73 21:25; Title: Author(s): Norton, James C. /JCN; Distribution: /JBN KFB(for action) DVN(for info) MEH(for info) JCP(for info); Sub-Collections: SRI-ARC; Clerk: JCN;

S	NDMSG to Dave Russell, ARPA from Jim Norton, SRI-ARC	
	23-MAR-73 12:06	1
	This is to confirm SRI's readiness for your visit April 5th,	
	Thursday. I suspect that you already know this, through Bob	
	Rodden.	1a
	The state of the	1.00
	I will be away that week, but Dr. Richard Watson, Assistant	
	Director of ARC also, will be here to take part in the	
	discussions. We had a good NLS demonstration and meeting here	
	with Rodden and his associates - Schmidt, Berg, and Spraggs.	1 b
	and the state of t	
	When you come, we thought that it might be best for you to	
	see NLS for a half hour or so first, then move into	
	discussions with one or both groups.	1 c
	On the other hand, you may have an agenda that you want to	
	follow. If so, just let us know.	1c1
	What time do you expect to arrive?	1 d
	I'm assuming you received both the statement of work from	
	Schmidt and the Notes from Dr. Willis' Visit from	
	meunless they are still printing out.	1e
	I have entered your name and Dr. Willis' into the ARC Journal	
	Identification System, so that I may easily direct NLS files	
	to you thru the U.S. mail for now, but preparation for	
	future online if you go that direction.	1 f
	Therefore, you may receive another copy of the Notes	
	document in a few days.	1 4 1

15279 Distribution
Engelbart, Douglas C., Watson, Richard W., Russell, David C., Rodden, Robert M., Schmidt, Richard A.,

Text of SNDMSG (edited) to Dave Russell, ARPA 3/23

(J15279) 23-MAR-73 12:21; Title: Author(s): Norton, James C. /JCN; Distribution: /dce rww dcr2 rmr2 ras; Sub-Collections: SRI-ARC; Clerk: JCN;

Regarding the question of whether or not Tymshare's quote	>
included the Network Interface (see 15240,4c):	1
It did cover that item in Exhibit III, Item I, 1.a	1. 1a

15281 Distribution
Wallace, Donald C. (Smokey), Marrah, Michael L., Kudlick, Michael
D., Watson, Richard W.,

(J15281) 23-MAR-73 7:18; Title: Author(s): Norton, James C. /JCN; Distribution: /dcw mlm mdk rww; Sub-Collections: SRI-ARC; Clerk: JCN; Origin: <NORTON>IMP.NLS;1, 23-MAR-73 7:09 JCN;

Glaser's address

Mike: Responding to the Roberts memo of March 12, Ted (Edward L.) Glaser's message address is
 Case-10. I guess a "@" goes before Case-10.—John Barden.

Glaser's address

(J15282) 23-MAR-73 13:35; Title: Author(s): Barden, John P. /JPB; Distribution: /MDK; Sub-Collections: NIC; Clerk: JPB;

KIRK 23-MAR-73 0:25 15283

BUG concerning line length, split screens, and character size.

After using character size 0 on boths sides of a vertical split and changing back to character size 1 with no split screen, the length of the lines are shortened about 1/3 of the screen.

BUG concerning line length, split screens, and character size.

(J15283) 23-MAR-73 0:25; Title: Author(s): Kelley, Kirk E. /KIRK; Distribution: /bugs ; Sub-Collections: SRI-ARC BUGS; Clerk: KIRK;

Assuming that ARC is serious about maintaining the TENEX JSYS manual (<DOCUMENTATION>JSYSMAN) on-line, I have some suggestions which I believe would enhance its usefulness. For example, make the description of each JSYS be a branch whose name is the JSYS mnemonic. Also, give a name to each table (such as the CCOC table) which is referenced from places other than the JSYS under which it appears, if any, and put links in the descriptions of JSIES which reference the table. I haven't checked the file to see if the chapter-by-chapter index is part of it, but if not, that might be useful too.

(J15284) 22-MAR-73 20:43; Title: Author(s): Deutsch, L. Peter /LPD; Distribution: /KIRK NP; Sub-Collections: NIC NP; Clerk: LPD;

The recent NMDT document on NLS re-implementation plans, coupled with my trip to the East Coast, prompts me to suggest a sixth implementation plan for your perusal.	1
While I don't really expect this plan to be adopted, I hope it will inspire the NMDT to obtain a close comparison with the favored Plan 5.	1a
PLAN 6 Reimplementation of NLS using ECL	2
This strategy has exactly the same properties as Plan 5, modulo differences in features and approach between MPS and ECL.	2a
Advantages of MPS:	2b
Somewhat more flexible control facilities (no syntactic distinction between different control mechanisms);	2ь1
Potentially superior data definition mechanisms, though these are still undebugged even conceptually;	2ь2
Much better facilities for specifying binding of names.	2b3
Advantages of ECL:	2c
A working system (includes interpreter, compiler, debugger, measurement package) now running;	2c1
A larger development staff with a more thorough dedication to development of a programming laboratory, since they have no external commitments (such as NLS);	2c2
The prospect of more fully optimized code through the "closure" facility;	2c3
Complete documentation and definition of the language and the user interface to system features;	2c4
Adoption of LISP (a result-oriented language) rather than L10 (an implementation-oriented language) as the semantic base.	2c5
Discussion	2d

While MPS includes a number of unquestionably superior features, it has never been documented or designed with the same care as ECL. ECL development is well along and being

pursued by a bright and energetic team. Furthermore, theoretical understanding of programs is a significant component of their research program, so that we may expect results in areas such as automatic design of data structures or program verification. ECL is "free" -anything we contribute to their development is a bonus. 2d1 I would like very much to see a believable approximate timescale from the NMDT for the following (which I can produce within a week for ECL): 3 A clear specification of the semantics of MPS control structures, binding facilities, and data definition facility. 3a A complete specification of the syntax of the language. 3b A list of the space occupied at runtime by the various support facilities. 3c A reasonably optimizing compiler including facilities such as compiling specializations of procedures upon request. 3d An implementation of the data definition facility. 3e A complete interpreter for the language. "Complete" means "making it possible to run any program without using the compiler". 3f A complete specification of the MPS virtual machine in terms of accessing functions, so that (for example) one could write a program to symbolically dump the entire state of the system. 3g

15285 Distribution
Irby, Charles H., Dornbush, Charles F., Mitchell, James G.,
Paxton, William H., Deutsch, L. Peter, Wallace, Donald C. (Smokey)
, Satterthwaite, Ed H., Bass, Walt, Andrews, Don I.,

Memos are in the mail. Wish I could remember to suppress cr-lf often enough to be confident of getting multilines sent. (Tried twice this a.m. from TIP, lost because of omitting ctl-v before msg was done. sigh.) cheers, map

15286 Distribution Crocker, David H., In hopes of "You have Journal Mail"

I may as well make this an informative message One of the annoying things (to me) is that the message in
question is issued AS LONG AS there is anything in your Journal
branch, no matter how long it has been there and regardless of
whether or not you have read it. A handy procedure is to create
yet another branch in your initial file named (read) or somesuch
thing into which you move/save journal items that you have
already read. In this manner you will really know when new stuff
has been sent to you or when you still have things to read.
Let me know if you have any more problems...Marilyn

15287 Distribution Rosenfeld, Al J. , Barden, John P. , (none)

to jeanne north: pls authorize paul baran, cabledata associates, inc. 701 welch road, suite 326, palo alto, ca 94304 (AC 415-328-2411) to receive functional documents, rfc's, and tip user group notes. dave waldenat bbn has also been notified. thanks. steve crocker

15288 Distribution North, Jeanne B., Note of our first conversaion

Today 23 march we had our first conversation.

15289 Distribution Rodden, Robert M., Norton, James C.,

A R	PA Order Number: - Program: -	1
	Title: Network Information Center and Augmentation System Development	1 a
	Contractor: Augmentation Research Center, Stanford Research Institute	1ь
	Date of Contract: 10 May 1972	1c
	Amount of Contract: \$2,270,000	1 d
	Contract Number: F30602-72-C-0313	1 e
	Principal Investigator: Dr. Douglas C. Engelbart, phone (415) 326-6200, ext. 2220	1 f
	Contract Expiration Date: 10 February 1974	1 g
1	RESEARCH PROGRAM AND PLAN	2
	As per our proposal and contract, work is progressing in the following areas:	2a
	Developing Service Functions for:	2a1
	External users - the Network Information Center (NIC)	2a1a
	Internal users - prototype systems such as:	2a1b
	Dialog Support System (DSS)	2a1b1
	Documentation Production and Control System (DPCS)	2a1b2
	Software Engineering Augmentation System (SEAS)	2a1b3
	Baseline Management System (BMS)	2a1b4
	System Developers Handbook System (SDHS)	2a1b5
	Developing service delivery and marketing principles and practices	2a2
	Providing operational marketing and delivery of services within the ARC and NIC customer markets	2a3

II MAJOR ACCOMPLISHMENTS

3

Network Information Center (NIC)

3a

Issue # 1 of the ARPANET NEWS was distributed online to Network members on March 15th. The News, edited jointly by Jean Iseli at MITRE and Jeanne North at SRI-ARC, will appear online weekly through the NIC Journal system, and in hardcopy monthly.

3a1

The interactive query language demonstrated at the ICCC has been developed to support several NLS Information Files, notably the NIC Resource Notebook and the ARPANET NEWS. The upgraded version of the language, NIC/QUERY, is available to NIC users as a subsystem under TENEX at SRI-ARC.

3a2

ARC hosted a meeting on February 23 to discuss network mail problems and to extend the File Transfer Protocal to allow for more reasonable mail facilities (14798,). This meeting permitted us to make the plans discussed below (7b1).

3a3

Dialog Support System (DSS)

3ь

We designed mechanisms that will allow network users to submit messages (of arbitrary size) to the Journal (for recording and permanent storage) through the mail-sending system at their site.

361

We have increased the reliability of the Journal and Identification systems, and added some minor improvements to the command language for the Identification system.

362

Software Development

3c

Early this year we replanned most of our software development activity — see (14164,) and (14165,). Ongoing and proposed software development was organized in terms of its contribution either to transfer of NLS to the proposed Modular Programming System, or to preparation for the proposed NLS utility on the ARPA Network. We assigned working design and review groups and rough schedules and predictions of levels of effort.

3c1

On the basis of our experience with our first-stage deferred execution system (DEX) (that allows offline typing of files onto magnetic tape for later insertion into NLS online) we set up a very simple form of input language, DEX

1.5 -- see (14710,). A typist who knows how to use a

teletype-like terminal and the magnetic recorder, can use	
DEX without much training. A version of DEX with extensive	
editing commands comparable to those in TNLS, DEX-II, is	2.0
close to operation.	3e2
We have completed additions to our Output Processor that	
permit output from NLS to microfilm, or printing masters	
made from microfilms, with a wide range of typeface, type	
sizes, and layout. Routine use of the capacity awaits	
debugging of the vendor's software and hardware.	3c3
The state of the second of the state of the	
A TENEX subsystem that allows the user to store his files	
on tape and signal an operator to retrieve them has been	
completed. This system, BSYS, is being adopted by other	
TENEX users.	3c4
Changes in the code have improved the efficiency of	
entering a character by typing literal text from display	
NLS 6-7 times and from TNLS 2-3 times see (14108,).	Je5
Preparation for Workshop Utility	3d
We have met with Tymshare, Inc. people in planning and	
pre-negotiation discussions (15240,). We have started	
training a key systems man in TENEX and the NLS user	
environment.	3d1
We have made job descriptions for the key Workshop Utility	
positions at ARC (15241,) and are seeking applicants and	
considering internal reassignments of current staff	
members.	3d2
III PROBLEMS ENCOUNTERED	4
Present system use demand and expected higher demand during	
the next six months (before the Utility service) indicate a	
requirement for added NLS computer capacity, preferably from	
the PDP-10 at USC-ISI as requested in (14137,).	4a
Low programming support levels from the COM vendor has held up	
the general availability of computer output to microfilm to	
NLS users.	4 b
erach dan	-4.13
IV FISCAL STATUS	5
Estimated expenditures and commitments to date are:	

\$1,125,258 excluding computer lease commitments. Estimated

funds required to complete the work are: \$1,144,742 Estimated date of completion of work: February 10, 1974.	5a
Estimated date of completion of work, represent to, 1574.	54
V ACTION REQUIRED BY THE GOVERNMENT	6
Assistance in helping ARC acquire additional computer	
(PDP-10 TENEX) capacity early in the Spring as outlined in	6
(4a) above.	6a
VI FUTURE PLANS	7
In the next quarter we will study and prepare for:	7 a
The establishment of NLS as a Workshop Utility Service on	
the ARPA Network;	7a1
Training initial Workshop Utility users in using NLS.	7a2
In the area of software we plan:	7 b
To modify the Journal so that a Network user can send or	
receive mail via his host site, without having to learn	
NLS,	751
To make our Identification system available to other	
network mail sending systems. They may address messages to	
NIC idents whether or not they use the Journal's recording and cataloging systems,	7b2
To continue development of a new file system,	7ь3
To continue to gather and analyze information about system	
use,	7b4
To make DEX II operational,	7b5
To operate NLS on another machine on the ARPANET,	756
To plan for movement of files from other text editors on	
the ARPANET into and out of NLS.	7b7

VII ARC Journ	al References	8
(Ref14798)	Michael D. Kudlick, "NWG/RFC 469 #1 Network Mail Meeting Summary", 8-MAR-73. [Cited in 3A3:(14798,)]	8a
(Ref14165)	Richard W. Watson, "NLS in MPS Conversion Planning Framework", 2-FEB-73. [Cited in 3C1:(14165,)]	8ь
(Ref14164)	Richard W. Watson, "Analysis-Development Tasks other than for MPS Conversion", 9-FEB-73. [Cited in 3C1:(14164,)]	8c
(Ref14710)	Harvey G. Lehtman, "DEX: Plans and Progress Report", 22-FEB-73. [Cited in 3C2:(14710,)]	8 d
(Ref14108)	H. Charles Irby, "Faster literal collection for TNLS", 28-JAN-73. [Cited in 3C5:(14108,)]	8 e
(Ref15240)	James C. Norton, "Notes From the SRI/Tymshare meeting in Cupertino 3/21", 22-MAR-73. [Cited in 3D1:(15240,)]	8f
(Ref15241)	James C. Norton, "Proposed Workshop Utility Brief ARC Job Descriptions", 22-MAR-73. [Cited in 3D2:(15241,)]	8g
(Ref14137)	James C. Norton, "Request to ARPA for Approval of Proposed SRI-ARC Use of the USC-ISI PDP-10", 30-JAN-73. [Cited in 4A:(14137,)]	
		8h
Approved by	:	
D. C. Engel	bart, Principal Investigator	9

15290 Distribution Stone, Duane L. , Norton, James C. , Quarterly Management Report 3: RADC/ARPA Project 1868

(J15290) 28-MAR-73 9:23; Title: Author(s): Stanford Research Institute / SSRI-ARC; Distribution: /DLS JCN; Sub-Collections: SRI-ARC; Clerk: KFB;

Origin: <VANNOUHUYS>OTMG.NLS; 4, 28-MAR-73 8:56 KFB;

Pre-initializing Viewspecs

Is there some way to define my favorite Viewspecs in my initial file? (So it'll always get set right when I enter TNLS).

Bernie

(J15291) 24-MAR-73 22:38; Title: Author(s): Cosell, Bernie P. /BPC; Distribution: /DCW; Sub-Collections: NIC; Clerk: BPC;

hello, there dmw, how are you ??

15292 Distribution Wells, Douglas M.,

(J15292) 23-MAR-73 22:59; Title: Author(s): Wells, Douglas M. /DMW; Distribution: /DMW; Sub-Collections: NIC; Clerk: DMW;

Correction to (15280,) reference

Oops, I guess I was responding to (15239,) Prompting with my response (15280,)... not to (15249,) which turns out to be on MPS (Modular Programming System) Conversion.. too many numbers in front of me. haha, Jim

15293 Distribution O'Sullivan, Thomas , Auerbach, Marilyn F. , Van Nouhuys, Dirk H. ,

Correction to (15280,) reference

(J15293) 25-MAR-73 0:08; Title: Author(s): Norton, James C. /JCN; Distribution: /TO MFA DVN; Sub-Collections: SRI-ARC; Clerk: JCN;

The online TENEX JSYS Manual has been moved to <TENEX-DOC>JSYSMANUAL.NLS; 1

The TENEX JSYS Manual has been moved to <TENEX-DOC>JSYSMANUAL.NLS;1

15294 Distribution

White, James E. (Jim), Burchfiel, Jerry D., Murphy, Dan L., Mantiply, Stan L., Tuyl, Bob Van, Knight, Thomas F. (Tom), Page, William J., Durham, Larry Edward, Clements, Robert C., Tomlinson, Ray S., Ferguson, Ferg R., Kremers, Jan H., Murray, Hallam G., Brenneman, Ted L., Pollack, Edward E., Fiala, Edward R., Moorer, James A., Schulz, Rainer W., North, Jeanne B., Melvin, John T., Victor, Kenneth E. (Ken), Fredrickson, Rod M., Wallace, Donald C. (Smokey), Ellison, Carl M., Kudlick, Michael D., Victor, Kenneth E. (Ken), Wallace, Donald C. (Smokey), Watson, Richard W.,

The online TENEX JSYS Manual has been moved to <TENEX-DOC>JSYSMANUAL.NLS; 1

(J15294) 23-MAR-73 17:46; Title: Author(s): Kelley, Kirk E. /KIRK; Distribution: /tug mdk kev dcw rww ; Sub-Collections: SRI-ARC TUG; Clerk: KIRK;

In response to LPD (15284,1:w) regarding TENEX DOCUMENTATION.

ARC is serious about maintaining the TENEX JSYS manual online and is in the process of creating statement names as you suggest. The JSYS manual has been moved to (TENEX-DOC, JSYSMANUAL, 1:x) and also soon to be available in <TENEX-DOC> is The TENEX User's Guide, and the TIP User's Guide. Check (NIC, LOCATOR, 2:ebtn) to keep posted on what is available.

15295 Distribution
Dautsch, L. Peter, Victor, Kenneth E. (Ken), Kudlick, Michael D.,

KIRK 23-MAR-73 19:14 15295

In response to LPD (15284,1:w) regarding TENEX DOCUMENTATION.

(J15295) 23-MAR-73 19:14; Title: Author(s): Kelley, Kirk E. /KIRK; Distribution: /LPD KEV MDK; Sub-Collections: SRI-ARC; Clerk: KIRK;

My sub-division of TUG may reveal my ignorance of TENEX sub-systems.

Please jump to (TENEX-DOC, TUG, 1:xz) Statement names have been created for everything that needs them and the file is really easy to access. The only thing it needs to be complete is the re-formated versions for the sub-systems starting with I-M and O-Z. They have not been formatted like the others which leads me to believe some step in the process was left out. A short description of everyithing is in the file but the actual text only exists for those that are not in the above catagory.

My sub-division of TUG may reveal my ignorance of TENEX sub-systems.

(J15297) 23-MAR-73 23:38; Title: Author(s): Kelley, Kirk E. /KIRK; Distribution: /MDK; Sub-Collections: SRI-ARC; Clerk: KIRK;

Network Working Group [jbp] Request for Comments: 489 NIC # 15298 Jon Postel
UCLA-NMC

26 March 1973

Comment on Resynchronization of Connection Status Proposal

This is a comment on the proposal by Burchfiel and Tomlinson in RFC 467 for a procedure in the host-to-host protocol for resynchronization of connection status. I endorse their proposal with the following trivial change. The commands proposed might be more appropriately be called "reset connection allocation sender" and "reset connection allocation receiver" since the only aspect of the connection which is reset is the allocation. I therefore use the names RAS and RAR respectively.

The table below shows in overly concise notation my interpretation of the resynchronizing procedure proposed by Burchfiel and Tomlinson, this presentation is not intended to superseed thieir document but to clarify the procedure. The sequence shown here can be initiated by either the sender or receiver either for internally generated reasons or upon the reciept of a RAS or RAR, if this latter is the case then sender step 5 or receiver step 4 is satisified.

SENDER

- 1) Set state to "wait-for-RAR" "wait-for-RAS"
- 2) Wait till no RFNM outstanding
- 3) Send RAS
- 4) Process allocates until
- 5) RAR received then
- 6) Zero allocation quantities
- 7) Set state to "open"

RECEIVER

- 1) Set state to
- 2) Send RAR
- 3) Process messages until
- 4) RAS received then
- 5) Zero allocation quantities
- 6) Set state to "open"
- 7) Send a new allocate

. .

3

15298 Distribution Greening, Travis L., Please give me a copy of "Transmittal to Station Agents # 76" Alex

15299 Distribution Neigus, Nancy J., Protocol Notebook

Sent to JBP MDK

Protocol Notebook

I concur with all points of JBP's recent note (journal 15255) Alex McKenzie

15300 Distribution
Postel, Jonathan B., Kudlick, Michael D.,

return message

Hello, I received your message as expected . thanks for the information

15301 Distribution Auerbach, Marilyn F., tipug notes to ants -- ants notes to bbn

jack, I keep sending you tipug notes and related papers, but i never get anything about ants in return -- have you forgotten me? dave walden

15302 Distribution Bouknight, W. Jack, bob -

i am interested in the development of a multi-host executive, my special concern is that the initial project be flexible enough that some systems and machines not be excluded by the formats chosen for control information exchange. i think the four points you suggest for initial discussion are the approiate ones.

unfortunately i don't think i will be able to travel in april unless i make unusual progress on my dissertation [and that apperas unlikely] however i am interested in this topic and would come to a workshop if possible, please keep me informed. -- jon.

15303 Distribution Thomas, Robert H.,

alex -

here are a few comments on the ftp most of these are small points that didnt get mentioned at the meeting because we never got down to details.

1

comments on rfc 454:

1a

EBCDIC is not motivated by a "don't have to translate" efficientcy argument ibm machines can translate 256 chars in one instruction, it is however motivated by the issue of one-to-one mappings between host-1-ebcdic and net-asciii and then to host-2-ebcdic

1a1

IMAGE why should the bits be required to be stored contigously inside the record but allow pading between records ?

this seems to defeat the point of image. i sugest that image transfers be required to be stored as contigous bits no matter how transfered. (i think)

1a2

unformatted and print will be revised as suggested in rfc 448

1a3

will EOF and EOR become IAC EOF and IAC EOR ??

1a4

i suggest that all values be given in decimal (page 13) octal and hex can be given in addition if desired.

1a5

in block headers why not require zeros instead of dont care bits ? any thing else is a programming hack.

1a6

also bit code the descriptor so that combinations are allowed

1a7

page 20 - sync and important commands - the way this is used in telnet is that the sync should follow [not preceed] the important command, however this is bound to lead to implementation problems. also i think it is poor to say a sync will be ignored but rather will cause not difficulty or will have no unusual result.

1a8

Quote and Noquote - these as i understand are "commands" to the users program or controler they are not sent to the server ftp.

1a9

i still object to the continuation crock, this all could be done with message numbers on every line.

1a10

other comments:	16
dave crocker suggests that a server ftp could be helpful and redirect a request that it cant handle, if a transfer was suggested by the user ftp that the server ftp couldnt do the server ftp could suggest an alternate site in a reply. there would be no obligation put on the user to	
carry out an attempt suggested in the reply.	1b1
i would like to repeat the suggestion that there are three kinds of things in modes/types/structures/sizes 1)function (after lpd) 2)transmission and 3) storage.	162
larger comments:	1 c
i dont really expect that you will be able to do much about the above stuff since you have to follow the wishes of the meeting. please let me know if you have comments or call me if you want to talk these things over.	1c1
ion.	1 d

15304 Distribution
McKenzie, Alex A.,

Network Working Group [jbp] Request for Comments: rrr NIC # nnnn Jon Postel

UCLA-NMC 26 March 1973

Comment on Resynchronization of Connection Status Proposal

1

This is a comment on the proposal by Burchfiel and Tomlinson in RFC 467 for a procedure in the host-to-host protocol for resynchronization of connection status. I endorse their proposal with the following trivial change. The commands proposed might be more approiately be called "reset connection allocation sender" and "reset connection allocation receiver" since the only aspect of the connection which is reset is the allocation. I therefore use the names RAS and RAR respectively.

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The table below shows in overly considentation my interpretation of the resynchronizing procedure proposed by Burchfiel and Tomlinson, this presentation is not intended to superseed thieir document but to clarify the procedure. The sequence shown here can be initiated by either the sender or receiver either for internally generated reasons or upon the reciept of a RAS or RAR, if this latter is the case then sender step 5 or receiver step 4 is satisified.

3

SENDER

- 1) Set state to "wait-for-RAR" "wait-for-RAS"
- 2) Wait till no RFNM outstanding
- 3) Send RAS
- 4) Process allocates until
- 5) RAR received then
- 6) Zero allocation quantities
- 7) Set state to "open"

RECEIVER

- 1) Set state to
- 2) Send RAR
- 3) Process messages until
- 4) RAS received then
- 5) Zero allocation quantities
- 6) Set state to "open"
- 7) Send a new allocate

15305 Distribution
Tomlinson, Ray S., Burchfiel, Jerry D.,

21 March 73

RECORD OF TELECALL

1

Lt Col McGinnis called and informed me that the AFSC/DL Program Review Panel recommended a \$2.9 million ceiling for Project 5550 in FY74. This is significant because it means that within the currently proposed AFSC/DL total 6.3 program already in the President's budget to Congress, a change in empasis is being recommended. This recommendation is to be made to the AFSC Program Evaluation Group by DL. Lt Col McGinnis feels confident that this recommendation will be accepted because DL has adjusted the ceilings of 6.3 programs for which it is responsible in arriving at the increased ceiling. The effect of this recommendation then being approved by USAF will be that we will not have to go through a rejustification for reprogramming the additional funds in FY74 and we may be able to get the additional efforts planned started prior to 1 Jan 74. In other words, we will know the funds are available on 1 July 74.

2

The Information Sciences Division (IS) will now have to "put up". I think we have to start by getting our D&F's in order so that we can submit them to AFSC by mid-May. Based on our experience with past D&F's, we need at least this much lead time to have a chance for getting contracts by 1 Jan 74. (1 Jan 74 is also the date we are shooting for should we have to go in for reprogramming; therefore, the mid-May date is felt to be valid in either case.)

3

The DSF efforts we proposed for FY74 as additional efforts are:

.

(1) Plasma Display ISC (Sceduled to be presented at the 25April D&F review.)

4a

(2) DMS Simulation/Modeling

ISIM

4 b

(3) Satellite Control Facility Software Guidelines ISIS

4c

(4) Software First Machine/Preliminary Design

4d

(5) SEMANOL for J73 ISIS

4e

I am submitting this to the line printer and will pass it up through channels.

15306 Distribution
Bethke, William P., McNamara, John L.,

Sample Journal Message

This is a sample journal message to get some preliminary measure as to how long it takes to send a journal and then the cost.

This one will be measured by the use of control t's and later by a program. This will be just a short message and the submission of larger files will be tried later.

15307 Distribution Lee, Susan R., Change in Coordinator for TUG Group

The reason you are having trouble with making changes in the TUG group is because you are no longer listed as coordinator of that group. Dan Murphy of BBN-TENEX is listed as coordinator. The request to change the membership and coordinator was channeled to me by Ken Victor (SRI-ARC) who had received the request from someone else (I don't remember who). I would suggest that you contact either Ken KEV or Dan DLM and resolve this matter with them. Sorry I took so long in answering your question. --Susan

15308 Distribution Burchfiel, Jerry D. , Wike- Thanks. By the way, if you create a statemnet (ControlCharacters) with some special stuff in it (see FOLKLORE) you won't have any trouble with <cr>
. Nls will revert to only cntl-D*s.

Dave.

15309 Distribution Padlipsky, Michael A.,

(J15309) 27-MAR-73 11:54; Author(s): Crocker, David H. /DHC; Distribution: /MAP; Sub-Collections: NIC; Clerk: DHC;

a possible user program

I have a content analyzer program that reformats the citations placed in the initials file for journal documents, take a look at my initials file and if you think this program would be of general interest, let me know and also let me know what to do to make it available.

(J15310) 26-MAR-73 20:51; Title: Author(s): Victor, Kenneth E. (Ken) /KEV; Distribution: /ndm ; Sub-Collections: SRI-ARC; Clerk: KEV;

John ...

Thanks for your note giving me Ted Glaser's address, per Larry Robert's request. We have entered the address as BARDEN at CMU-10A. (CMU-10A is the way the Network recognizes your site.)

Best regards, Mike Kudlick.

(J15311) 27-MAR-73 14:09; Title: Author(s): Kudlick, Michael D. /MDK; Distribution: /jpb ; Sub-Collections: SRI-ARC; Clerk: MDK;

15311 Distribution Barden, John P.,

A Preview of the Next Version of NLS

The next version of NLS is currently scheduled to be up and running in approximately two weeks from the date of this document.

INTRODUCTION

1

The forthcoming version of the NLS system will have many new features of importance to the TNLS user. This document serves to both alert the user and document the main features.

1a

In general, the language from the user's point of view has not been altered, but several modifications were made in the area of command feedback which should greatly improve the quality of interaction between the user and TNLS.

16

The exceptions to this generalization are the redesign of the execute viewchange command which has been improved as described below, a change in the way the ending address of a text string or group is evaluated, and the addition of two new viewspecs.

1b1

Users will be notifed when the version of NLS described here is operative and CDOCUMENTATION>FOLKLORE (including the changes described here) will be distributed then as usual.

1c

FEEDBACK CHANGES

2

The system will prompt the TNLS user for specific arguments to TNLS commands:

2a

Argument Required/Allowed	Prompt 2a1			
address expression	A:	2a1a		
filename	F:	2a1b		
level adjustment	L:	2a1c		
viewspecs	v:	2a1d		
text string	T:	2a1e		
beginning address of text/group	from A:	2a1f		
end address of text/group	(to) A:	2a1g		
ldent	1:	2a1h		
identlist	IL:	2a1i		

TNLS prompts (at, to, from, etc.) have been changed to reflect	
more accurately what is happening.	2b
ADDRESS EVALUATION CHANGE FOR TEXT AND GROUP	3
Group and text specification have been changed such that the	
second address (end of text/group) is evaluated relative to	
the location of the first address (beginning of text/group).	За
REVISED EXECUTE VIEWCHANGE SYSTEM	4
The execute viewchange subsystem has been redesigned to allow	
the user to define the following:	4a
number of characters output when the "/" command is used	4a1
printing parameters	4a2
control characters	4a3
feedback parameters	4a4
Each of the above areas (except the first which consists of	
only one command) have their own herald characters and	
subcommands.	46
Once the user types the characters "ev" (execute viewchange)	
the system responds with the viewchange system prompt ":". At	
this point the user may continue to any of the sublevels of	
the viewchange system	4c
NUMBER OF CHARACTERS OUTPUT ON /	44
This command allows the user to specify the number of	
characters that are printed when the user issues the "/"	
command (print current context of CM). The system will	
echo the current setting for this value. The user may	
either confirm the current setting by a Command Accept	4.24
character or change it by entering a new number.	4d1
[:] /[characters (number to be printed for / command = NUMBER]	
(NUMBER CA)/CA	4d1a
The default value for NUMBER is 7 (characters).	4d2
The value of this setting may range from 0 to maximum	
statement length (2000 characters).	4d3

PRINTING PARAMATERS 4e Commands at this level of the Execute Viewchange command control the format of output pages generated by the print command repetoire. 4e1 [:] p[rinting (parameters) CR] 4ela The herald character for this level is ".". Each of the commands except quit cause the system to echo the current value for the setting in question. In the case of the tab settings subcommand, there are several values involved, one for each possible tab stop. In every case, after the system echoes the current setting, the user has the option to either confirm the current setting by typing a Command Accept character, or change the current setting by specifying a new (integer) value. 4e2 When any of these commands is terminated the user remains at the same (".") level, at which he may enter another printing parameters command. 4e3 COLUMNS 4e4 This controls the number of characters across the width of a line. 4e4a c[olumns (number to print) = NUMBER] CA/(NUMBER CA) The default setting is 72. 4e4b The value of this setting may range from 1 to 72, and must be greater than the setting for OFFSET (described below). 4e4c OFFSET 4e5 This allows the user to move the left margin n character positions to the right. 4e5a o[ffset (for printing -- left margin adjustment)] 4e5a1 The default setting is 0 (e.g. no offset). 4e5b The value of this setting may range from 0 to 72 and must be less than the setting for COLUMNS. 4e5c

TAB SETTINGS	4e6
This controls the character position (or column value) of each tab setting. It requires that the user specify the number of a particular tab (e.g. in response to the user typing "0" the system will respond with the current value of Tab 0). Fach tab setting is handled independently in this manner. Thus the user must respecify this subcommand for each tab setting he wishes	
to change or review.	4e6a
t[ab settings]	4e6a1
Up to ten (0 through 9) tab stops may be specified.	4e6a2
The default settings are as follows:	4e6b
Tab $0 = 8$	4e6b1
Tab 1 = 16	4e6b2
Tab $2 = 24$	4e6b3
Tab $3 = 32$	4e6b4
Tab $4 = 40$	4e6b5
Tab 5 = 48	4e6b6
Tab 6 = 56	4e6b7
Tab $7 = 64$	4e6b8

The value of these settings may range from 0 to 72. 4e6c

The value of any tab setting may not be lower than the value of the preceding tab or higher than that of the following tab.

4e6d

4e6b9

4e6b10

INDENTING PER LEVEL

Tab 8 = 72

Tab 9 = 72

4e7

This controls the number of character positions the system indents per statement level when printing.

4e7a

i[ndenting (per level for printing) = NUMBER]	4e7a1
The default setting for this value is 3 characters per level	4e7b
The value of this setting may range from 0 to 72.	4e7c
LINES PRINTED PER PAGE	4e8
This controls the length (by line) of the text body of any page generated by a print command.	4e8a
l[ines printed per page = NUMBER]	4e8a1
The default setting is 60.	4e8b
Any integer value may be used for this setting.	4e8c
PAGE SIZE	4e 9
This controls the overall length (including lines preceding and following the body of the text) of any	
page generated by a print command.	4e9a
p[age size (in lines) = NUMBER]	4e9a1
The default setting is 66.	4e9b
Any integer value greater than or equal to the setting for LINES (printed per page) may be used for this setting.	4e9c
QUIT	4e10
This requires no command terminator and returns the user to the ":" herald level.	4e10a
q[uit]	4e10a1
CONTROL CHARACTERS	41
This sublevel consists of a command which enables the user to define his NLS control characters (CA, CD, etc.). He is prompted by the system to specify the literal character he wants to use as a control character, the control character that is being redefined, and finally, he has the option to	
specify an echo character for the control character. The herald character for this sublevel is "+".	4f1

[:] Control characters CR]	
[+]	4f1a
After the system prints the control characters herald "+",	
the user may enter any of the following commands:	4f2
the data may three any of the fortowing commands.	7. 2. 27
DEFINE NLS CONTROL CHARACTER	4f3
This command allows the user to redefine any of the	
following control characters: Command Accept, Command	
Delete, Center Dot, Backspace Character, Backspace Word,	
Backspace Statement, Literal Escape, Shift Character	
(for uppercase-only terminals), Shift Word (for	
uppercase-only terminals), and TAB.	4f3a
d[efine (literal character)] CHAR1 [as (NLS control	
character)] CHAR2 [echo as] CHAR3	4f3a1
CHAR2 may be expressed in any of the following ways:	4f3b
SP control-character-mnemonic	4f3b1
Sr controt-character-mnemonic	41301
For example: SP BC	4f3b1a
literal-escape literal control-character	4f3b2
For example: tv ta	4f3b2a
literal control observator (but not CD)	4f3b3
literal control-character (but not CD)	41303
For example: †a	4f3h3a
SP SP literal control-character	4f3b4
For example: SP SP ta	4f3b4a
	4.00
CHAR3 may be expressed either of two ways:	4f3c
literal character	4f3c1
	11001
SP n[ull] (in this case, the control chaacter being	
redefined does not echo when typed by the user)	4f3c2
Example:	4f3d
To define the Command Accept character to be the	400.0
character " " and not echo:	4f3d1

<pre>d[efine (literal character)] [as (NLS control character)] td [echo as] SP n[ull]</pre>	4f3d1a
	4f3d1b
To define the Backspace Word character to be the character "+" and echo "+":	413d2
d[efine (literal character)] + [as (NLS control character)] SP BW [echo as] +	4f3d2a
QUIT	414
This requires no command terminator and returns the user to the ":" herald level.	4f4a
q[uit]	4f4a1
FEEDBACK PARAMETERS	4g
This sublevel enables the user to determine the number of characters echoed and indented for command feedback and also to cause the system to echo the statement number of a statement to be inserted into a file.	4g1
[:] feedback parameters CR]	4g1a
The herald character for this sublevel is " ".	4g2
LEVADJ NUMBERS ON?	4g3
This command enables the user to cause the system to echo the statement number during the level adjustment of statements to be inserted.	4g3a
l[evaj numbers on?] y[es]/n[o]/CA	4g3a1
CHARACTERS IN COMMAND FEEDBACK	4g4
This command allows the user to determine the number of characters that are echoed in command feedback	4g4a
c[haracters (in command feedback) = NUMBER] (NUMBER CA)/CA	4g4a1
The default value for this setting is 50; it may be any integer value.	4g4b

INDENTING OF COMMAND LINES	4g5
This command allows the user to specify that command feedback be indented.	4g5a
i[ndenting (of command lines) = NUMBER] (NUMBER CA)/CA	4g5a1
NUMBER is number of character positions to the right of the left margin.	4g5b
QUIT	4g6
This requires no command terminator and returns the user to the ":" herald level.	4g6a
q[uit]	4g6a1
PAGINATION WHEN PRINTING AND NEW VIEWSPECS	4h 5
Pagination capability when printing (via any print command) has been added to TNLS. If pagination is enabled by the user, printing will produce harcopy similar to that generated by the Output Device Teletype command (ignoring directives). Pages are numbered and a line consisting of -'s is generated before the start of a new page.	5a
Two new viewspecs have been added which control pagination during output generated by the any print command.	5b
E turns pagination on	5b1
F turns pagination off	5b2
The default setting is F (pagination off).	5 c
FINDING IDENTS CHANGE	6
Whenever an IDENT is required, the following may be used in place of an IDENT to find the correct IDENT of a particular person/group/affiliation:	6a
.LASTNAME CA	6a1

The last name of an individual preceded by a period and

terminated by a Command Accept character causes a search	
for IDENTs of individuals with matching last names.	6a1a
.BEGINLASTNAME CA	6a2
The beginning characters of the name of an individual preceded by a period, followed by a series of three periods and terminated by a Command Accept character causes a search for IDENTs of individuals whose last	
names begin with the characters specified.	6a2a
[LIT] CA	6a3
any literal enclosed in square brackets, and terminated by a Command Accept character causes the system to search for occurrences of LIT in the names of all	
individuals/groups/affiliations.	6a3a
Typing to will terminate searches.	6b

(J15312) 27-MAR-73 10:19; Title: Author(s): Auerbach, Marilyn F. /MFA; Distribution: /sri-arc nag nlg nsag; Sub-Collections: SRI-ARC NAG NLG NSAG; Clerk: MFA; Crigin: <USERGUIDES>NEWS.NLS; 48, 27-MAR-73 10:06 MFA;

15312 Distribution

Golding, Stan , Chipman, Steve G. , Barden, John P. , Ginsberg, Martha A. , Watkins, Shirley W. , Connelly, Linda M. , Troxel, Janet W. , Rosewall, Connie D. , Webster, Linda M. , Coley, Anita L. , Mostrom, Carol J., Martin, W. A., Bassett, Margaret A. (Maggle), Smith, J. A., Boone, Leina M. , Jones, Diana L. , Colman, Harold , Neigus, Nancy J. , Sack, Terry, McHale, Frances A. (Toni), Young, Helen D., Gilliard, Lucille C. (Lucy) , Falk, Gil , Collins, Ed J. , Blunck, Gary , Heafner, John F., Beaman, Kathy, King, David J., Moody, C. Jane, Lemaro, Maria E., Pitkin, Sue, Fitzsimmons, Jerry, Hicks, Gregory P. , Maxey, Gloria Jean , Peeler, Roberta J. , Fields, Craig , McCauley, Ermalee R., Iwamoto, Margaret, Larson, Dee, Doane, Robert E. , Odom, Dan , Monroe, Brenda , Reynolds, Dorothy A. , North, Jeanne B., Cutler, Pam J. Klotz, Barnett, Barbara Seroussi, Sol F., Bradner, Scott, Thomas, Robert H., Thomas, John C. , Romanelli, Michael J. , Stoughton, Ronald M. , Owen, A. D. (Buz) , Fink, Robert L. , Meir, Jaacov , North, Jeanne B. , Crocker, Steve D. , Lawrence, Thomas F. , McConnell, John W. , Ollikainen, Ari A. J. , White, James E. (Jim) , Hathaway, A. Wayne , Foulk, Patrick W. , Winter, Richard A., Van Zoeren, Harold R., McKenzie, Alex A., Winett, Joel M., Bhushan, Abhay K., Pyke, Thomas N., Wilber, B. Michael , Feigenbaum, Edward A. , Braden, Robert T. , Pepin, James M. , Wessler, Barry D. , Melvin, John T. , Greening, Travis L. , Silberski, Robert , Keeney, Marcia Lynn , MacNeil, Diane M. Aupperle, E. M. , Lipinski, Hubert , LeGates, John C. , Hargraves, Robert F. , Shephard, C. D. , Brown, Maurice P. , Ashenhurst, Robert L. , Martin, Reg E. , Leichner, Gene , Falk, Gil , Iseli, Jean , Donnelley, Jed E. , Kantrowitz, William , Wolfberg, Michael S. , Feinroth, Yeshiah S., Hurt, James, Hearn, Anthony C., Stein, James H. , Shoshani, Arie , Harslem, Eric F. , Metcalfe, Robert M. (Bob) , Reussow, Bradley A. , Reins, E. R. (Dick) , Kadunce, Daniel L. , McCutchen, Samuel P., Petregal, George N., Madden, James M., Young, Michael B., Padlipsky, Michael A., Stevenson, Schuyler, Deutsch, L. Peter , Davidson, John , O'Sullivan, Thomas Van De Riet, Edwin K., Van Nouhuys, Dirk H., Victor, Kenneth E. (Ken), Wallace, Donald C. (Smokey), Watson, Richard W., Andrews, Don I. , Alter, Ralph , Maras, Nils , Enslow, Philip H. , Sanford, Edwin A. , Dunn, Robert M. , Reid, Joseph B. , Misencik, William T. , Sakai, Toshiyuki , Pouzin, Louis , Lundh, Yngvar , Hinckley, Robert H. , Zelkowitz, Marvin , Cowan, Donald , Pepper, Marianne , Dixon, Louis F. , Lee, Ted , O'Malley, Michael , Kirstein, Peter , Farber, David J., Twyver, Dave, Bernstein, Art J., Liddle, Dave E., Showalter, A. Kenneth , Aufenkamp, D. D. , Barber, Derek Leslie Arthur , Schipper, Tjaart , Van Sylke, Richard M. Keeney, Marcia Lynn , Hoffman, Carol B. , Lee, Susan R. , Michael, Elizabeth K. , Dornbush, Charles F. , ARC, Guest O. , Feinler, Elizabeth J. (Jake), Handbook, Augmentation Research, Kelley, Kirk E. , Meyer, N. Dean , Byrd, Kay F. , Prather, Ralph , White, James E. (Jim), Vallee, Jacques F., Kaye, Diane S., Rech, Paul, Kudlick, Michael D. , Ferguson, Ferg R. , Lane, Linda L. , Auerbach, Marilyn F. , Bass, Walt , Engelbart, Douglas C. , Hardeman, Beauregard A. , Hardy, Martin E., Hopper, J. D., Irby, Charles H., Jernigan, Mil

E., Lehtman, Harvey G., North, Jeanne B., Norton, James C., Paxton, William H., Peters, Jeffrey C., Ratliff, Jake

Help Needed in Knowledge Workshop Work Station Development

1

One of the key areas in making the Workshop Utility Service successful is to make it easy and relatively inexpensive for subscribers to use DNLS. This implies, among other things, a need for lowcost terminal suport. At the present time we can only support DNLS from IMLAC terminals. These cost about \$18K for a configuration with 8k memory, mouse, and keyset. The goal is to find some way to provide DNLS terminal support at \$2K to \$6K.

1a

There seem two ways this might be achieved:

1 b

1) Find a low-cost mass-produced, commercially available alpha-numeric terminal to which we could interface a package to support a mouse and keyset thus yielding a stand alone text only DNLS terminal.

151

Don Andrews is presently working in this area and will receive support from Martin Hardy to determine what would be required to attach a mouse and keyset to candidate terminals Don would suggest.

1b1a

Finding a terminal which meets the various conditions needed to support DNLS has not been easy as the state of the terminal manufacturing world is still rather primitive and oriented toward the IBM replacement market, all uppercase, or manufacturing terminals with strange characteristics.

1b1a1

If anyone knows of terminals with upper-lowercase, 20 or more lines of 72 or more characters, computer interrogatable cursor, and random text replacement under computer control, please contact Don Andrews or myself.

1b1a2

Another related area being looked at by both Don and Charles is the possibility of using an alpha-numeric terminal in a hybrid mode with TNLS addressing and DNLS display or a modified form of addressing using line and character position numbers superimposed on the display. DCE thinks such a scheme could prove to be very easy to use and possibly faster than mouse selection in some cases.

1b1b

2) Develop a low-cost mini-computer based multi-console DNLS system. Such a system would be very attractive for workshops requiring multiple consoles. The goal here would be to put together a configuration of commercially available equipment such that for a system with say 6 terminals the total system cost would be around \$36K.

1b2

I would see ARC working with a cooperating group in preparation of a proposal to request funds for creating a prototype configuration and the hardware/software manpower to go through at least stage 1 below with expectation of follow-on support for stage 2 and beyond. Initial support would include funds for definition of these succeeding stages. The whole process is predicated on close coupling with and enhancement of an NLS based system.

1b2a

To this end I have begun some exploratory discussions with Dave Brown, Jack Bialik, Joe Ehardt to see if they would be interested in helping to find support for such a cooperative effort.

1b2a1

It would be nice if the terminals supported could eventually support graphics as well as text or maybe we could allow people to choose text only terminals or text and grapics terminals for an \$X cost differential.

1b2b

My view is that the mini would be some common one such as PDP-11 or Nova and would handle the mouse, keyset, display refresh or other terminal handling such as cursor interrogation and positioning. It would perform many of the functions for multiple terminals now handled in the IMLAC.

1b2c

I can see a multiple stage project with the following general stages.

1b2d

Stage 0 would develop recommendations for an initial configuration of mini-computer and display hardware. ARC has a Nova with a single plasma display that might be expanded for protype use, or the SRI ISE PDP-11 could be attached to the IMP and used for

**developmental purposes as two early possibilities or we could bring in a different configuratin altogether.

1b2d1

Stage 1 would develop the software for the mini, any special hardware, communication protocol (a superset of the IMLAC communication protocol?) and modifications, if necessary, to NLS and Tenex to

support some variable number of terminals with mouse, keyset. Stage 1 would probably also suport an upper-lower case line printer.

1b2d2

Stages 2 and on would begin to consider what NLS functions should reside in the mini and communicate highly condensed information back to the central machine, possibly including self-contained capabilities for the most commonly used editing functions, or an interactive "DEX" which shipped its resulting file to the central system.

1b2d3

The needs and goals for stage 2 and beyond need more thinking and definition. The needs for stage 1 are clear and fairly urgent.

1b2d4

Future evolution would move some NLS interaction handling and parsing out to the mini; possibly with a local stick some core command execution could move to the mini so that for simple editing it could be stand alone. There is much interesting work in distributed central/remote functions to be done which is important to the ongoing evolution of NLS.

1b2d5

Help Needed in Knowledge Workshop Work Station Development

(J15313) 27-MAR-73 9:37; Title: Author(s): Watson, Richard W. /RWW; Distribution: /sri-arc drb ; Sub-Collections: SRI-ARC SRI-ARC; Clerk: RWW;

Origin: <WATSON>STATION.NLS;4, 27-MAR-73 9:35 RWW;

After checking again on the price of envelopes, this is what I found: It will cost 20.88 for the envelopes, and 13.00 for the printing or a total of 33.88/1000 envelopes. SRI pays 27.86/1000 envelopes. So it would cost us 6.02 more per 1000 to have them printed.

1

This is still about 3 times what it costs us to pay someone to stamp them.

2

If we wait until they are ready to print envelopes for SRI again, which I am told would be at least 6 months, there would be an initial charge of 4.00 (for a copy change) and then we would just pay the cost of the envelopes.

3

It seems to me that it would be best to wait until they are ready to print again and at that time have them print up several thousand extra for us.

(J15314) 27-MAR-73 8:45; Title: Author(s): Lee, Susan R. /SRL; Distribution: /DVN MLK JBN MDK; Sub-Collections: SRI-ARC; Clerk: SRL; Origin: <LEE>ENVELOPES.NLS; 1, 27-MAR-73 8:28 SRL;

ARPA Network In	formation C	enter			NIC	15315	
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FROM:	Marcia Ke Station A						4
	Station A	igen t					*
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							3
At the request	of Robert E	. Kahn,	your nar	me has be	en plac	ced on	
the ARPANET Sat	ellite Syst	em Group	distril	oution 1	ist.		6
I am enclosing	the ASS Not	es which	have be	en Issue	ed to da	ate.	
Notes 13, 14, as	nd 23 are o	bsolete.	. You wi	ill recei	ive all	new ASS	
Notes as they a	re distribu	ted.					7
encl:							8
11 283 11 28		11286	11287	11288	11289		8 a.
11 290 11 29		11293	11294	11616	11624		d8
11862 11865		11867	12166	12534	12734		8c
12735 1273		12759	13044	13150	13147		8 đ
13469 1364	11880	14790					8 e

Transmittal to Carl F. Koch

(J15315) 6-APR-73 15:48; Title: Author(s): Keeney, Marcia Lynn /MLK; Distribution: /SA; Sub-Collections: SRI-ARC; Clerk: LLL; Origin: <LANE>NIC15315.NLS;6, 6-APR-73 15:45 LLL;

Transmittal to Station Agents -- 78 Jeanne North NIC 15316 6 APR 73

1a

Enclosed:

1 b

NIC 15063 *NWG/RFC #485 MIX and MIXAL at UCSB; John Pickens JRP (UCSB)

1b1

NIC 15064 *NWG/RFC #486 Data Transfer Revisited; Bob Bressler (BBN)

152

1c

*sent to Liaisons

1 d

15316 Distribution

Ratliff, Jake, Van De Riet, Edwin K., Van Nouhuys, Dirk H., Victor, Kenneth E. (Ken), Wallace, Donald C. (Smokey), Watson, Richard W., Andrews, Don I., Agent, Station, Keeney, Marcia Lynn, Hoffman, Carol B., Lee, Susan R., Michael, Elizabeth K., Dornbush, Charles F., ARC, Guest O., Feinler, Elizabeth J. (Jake), Handbook, Augmentation Research, Kelley, Kirk E., Meyer, N. Dean, Byrd, Kay F., Prather, Ralph, White, James E. (Jim), Vallee, Jacques F., Kaye, Diane S., Rech, Paul, Kudlick, Michael D., Ferguson, Ferg R., Lane, Linda L., Auerbach, Marilyn F., Bass, Walt, Engelbart, Douglas C., Hardeman, Beauregard A., Hardy, Martin E., Hopper, J. D., Irby, Charles H., Jernigan, Mil E., Lehtman, Harvey G., North, Jeanne B., Norton, James C., Paxton, William H., Peters, Jeffrey C.

ARPA Network Information Center NIC 15317		NIC 15317	
Stanford Research Institute 30-MAR-73			
	alifornia 94025	00	1
			2
TRANSMITTAL T	O: David L. Retz		-
	Speech Communications Research Labor	atory. Inc.	
	800 Miramonte Drive		
	Santa Barbara, Calif. 93108		3
FROM:	Jeanne B. North (NIC)		
-7D1 76763-1	Information and Station Agent Coordi	nator	4
			•
Dear Mr. Retz	:		5
We have recei	ved notice that your office is now a Sit	e on the	
	As such, you will be receiving documen		
	from the Network Information Center (NIC		6
	The fields and the control (112)		
We are sendin	g you a core collection of existing docu	ments.	
	following Functional Documents for which		
provide updat			7
NIC 5145	Current Catalog of the NIC Collection	1-DEC-72	7 a
NIC 5150	Current Directory of Network Participant	s 29-JAN-73	7 b
	rangaman segaman berasar menangkan sebagai 👣 - mengan segament mengalikan li sebelah sebagai menangken segam T		
NIC 7590	Network Information Center User Guide	2-MAR-73	7c
NIC 7104	Current Network Protocols	22-JAN-73	7d
NIC 6740	Network Resource Notebook	FEB-73	7 e
We are also s	ending you a number of documents which y	ou may need	
	(see list below).		8
We will be gl	ad to supply copies of particular docume	nts	
	a back arrow in the Catalog Listings, an		
	to sources of other documents in the Li		9
Marcia Keeney	, our Station Agent, accomplishes NIC di	stribution,	
	ut you on distribution for all documents		
Site Liaisons			10
c: S. Crocke	r (ARPA)		11

encl:		12
NIC	7542	12a
NIC	7750	12b
NIC	10507	12c
NIC	11924	12d
NIC	11681	12e
NIC	12324	12f
NIC	11626	12g
NIC	11768	12h
NIC	11748	121

Transmittal to David L. Retz

(J15317) 6-APR-73 11:04; Title: Author(s): North, Jeanne B. /JBN; Distribution: /SA; Sub-Collections: SRI-ARC; Clerk: LLL; Origin: <LANE>NIC-15317.NLS;7, 6-APR-73 10:59 LLL;

11f

NIC 11924 NIC 11681

		NIC 15318	
		30-MAR-73	
Menlo Park, Cali	ifornia 94025	4	
			1
TRANSMITTAL TO:			
	Speech Communications Research Labor	atory, Inc.	
	800 Miramonte Drive		
	Santa Barbara, Calif. 93108		2
			2
FROM:	Jeanne B. North (NIC)		
	Information and Station Agent Coordi	nator	
			3
Deep No Things			
Dear Ms. Thies:			4
We have received	i notice that your office is now a Sit	e on the	
	that you will be acting as Station A		5
		-	
Enclosed is your	Station Collection which includes the	e following	
Functional Docum	ments:		
			6
	rrent Catalog of the NIC Collection	1-DEC-72	6a
	rent Directory of Network Participant		6.b
	twork Information Center User Guide Trent Network Protocols	2-MAR-73 22-JAN-73	6 c
	twork Resource Notebook	FEB-73	6e
1120 0120 110	and a moderate of more one		
Also enclosed as	re a number of background documents (s	ee list	
below).			7
mental management of the second of		NAME OF THE PARTY	
	very other week you will receive addit		
	ong with the new documents will be a n ter which lists what is being sent, an		
	has recently been sent to your Site's		
	transmittal letters should be filed i		
Transmittal Lett	ter section of your Current Catalog (N	IC 5145).	8
	to supply copies of particular docume		
	back arrow in the Catalog Listings, an		0
or direct you to	sources of other documents in the Li	stings.	9
c: S. Crocker (APPA)		10
C. S. DIOCKEI			
encl:			11
The ARPA Netv			919
Resource Shar	ring Computer Networks		11a
NIC 7540			11b
NIC 7542 NIC 7750 N	RIC 12324		11c
	VIC 11626		11d
	NIC 11768		11e
	UC 11681		117

(J15318) 6-APR-73 12:02; Title: Author(s): North, Jeanne B. /JBN; Distribution: /SA; Sub-Collections: SRI-ARC; Clerk: LLL; Origin: <LANE>NIC-15318.NLS;9, 6-APR-73 11:58 LLL;

ARPA Network Information Center Stanford Research Institute Menlo Park, California 94025 NIC 15319 1-APR-73

TRANSMITTAL TO: Director

National Security Agency Attn: TDL Marguerite Owens

Fort George C. Meade, Maryland 20755

FROM:

Marcia Keeney Station Agent

At your request I am sending NIC 7104 - ARPA Network Current Network Protocols. Unfortunately we are only able to provide you with one copy instead of the six you asked for, as we do not keep a large supply of this document.

4

3

2

Transmittal to Marguerite Owens

(J15319) 6-APR-73 11:38; Title: Author(s): Keeney, Marcia Lynn /MLK; Distribution: /SA; Sub-Collections: SRI-ARC; Clerk: LLL; Origin: <LANE>NIC-15319.NLS;4, 6-APR-73 11:22 LLL;

TRANSMITTAL TO: Alexander Lett

TRANSMITTAL TO: Alexander Lett

Dept. 808

Building 707-1

IBM

Poughkeepsie, New York 12607

FROM: Dirk vanNouhuys (ARC)

1

Ruth Winik asked me to send you the video tape of activities of the Augmentation Research Center we prepared for last fall's International Conference on Computer Communication.

1a

Here is a copy. Please bear with some technical imperfections. Return it to:

1b

Kirk Kelley Augmentation Research Center Stanford Research Institute Menlo Park, California 94025

151

We have other copies so you needn't feel too pressed for time.

1 c

TRANSMITTAL TO: Alexander Lett

(J15323) 4-APR-73 20:49; Title: Author(s): Keeney, Marcia Lynn /MLK; Distribution: /SA; Sub-Collections: NIC; Clerk: KIRK;

TRANSMITTAL TO: Andres Zellweger

Dept. of Transportation

Transportation Systems Center

TC-55 Broadway

Cambridge, Massachusetts 02142

FROM: Marcia Keeney (NIC)

Station Agent

There have been no formal notes circulated in the IMLAC group to date. However, I am enclosing some documents concerning the IMLAC which may be of interest to you.

1a

Your name has been added to the group you requested and should appear in the next update to the directory.

1b

encl:

1c

NIC 7493 Imlac Configuration Guide

NIC 7135 DEC PDP-10 -- Imlac Communication System

NIC 7170 Imlac Display Terminals

NIC 8719 Request for Imlac Configuration Data

NIC 8748 Reply to imlac info request

NIC 7711 Imlac Display Terminals at UCLA-NMC 1c1 TRANSMITTAL TO: Andres Zellweger

(J15324) 10-APR-73 18:25; Title: Author(s): Keeney, Marcia Lynn /MLK; Distribution: /SA; Sub-Collections: NIC; Clerk: KIRK;

ARPA Network Information Center	NIC 15325	
Stanford Research Institute 3-APR-73		
Menlo Park, California 94025	o ara vo	1
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		2
TRANSMITTAL TO. D. 111- U. D1		4
TRANSMITTAL TO: Philip H. Enslow	n 11	
Office of Telecommunication		
Executive Office of the Pr	resident	
Washington, D.C. 20504		3
FROM: Jeanne B. North (NIC)		
Information and Station Ag	gent Coordinator	
		4
We have received notice that your office is	now a Site on the	
ARPA Network. As such, you will be receive	ing documents on	
distribution from the Network Information (Center (NIC).	5
We are sending you a core collection of exi	sting documents.	
including the following Functional Document		
provide updates:		6
provide apaates.		0
NIC 5145 Current Catalog of the NIC Col	lection 1-DEC-72	ó a
are 5145 Current Cutatog of the are con	1-020-72	, a
NIC 5150 Current Directory of Network F	Panticinants 29-IAN-73 6	ó b
MIC 5150 CUFFERE DIFECTORY OF NETWORK	articipants 25-Jan-75	313
NIC 7590 Network Information Center Use	er Guide 2-MAR-73 6	
NIC 7550 Network Information Center Use	er Guide 2-MAR-13	oc
VIO 7104 C	22 71 72	
NIC 7104 Current Network Protocols	22-JAN-73 6	d
mi - 10-1		
The Network Resource Notebook (NIC 6740) is		-
being revised. A copy will be sent to you	in a couple of weeks.	7
We are also sending you a number of documen	its which you may need	2.0
as background (see list below).		8
We will be glad to supply copies of particu	llar documents	
indicated by a back arrow in the Catalog Li	stings, and will loan	
or direct you to sources of other documents	in the Listings.	9
Marcia Keeney, our Station Agent, accomplis	shes NIC distribution,	
and has now put you on distribution for all	documents sent to	
Site Liaisons.		10
c: S. Crocker (ARPA)	1	11.

JBN 6-APR-73 15:01 15325

transmittal to Philip H. Enslow

encl: NIC 7542 10507 11768 11924 7750 11681 11626 12324

11681 11626 12324 12

transmittal to Philip H. Enslow

(J15325) 6-APR-73 15:01; Title: Author(s): North, Jeanne B. /JBN; Distribution: /SA; Sub-Collections: SRI-ARC; Clerk: LLL; Origin: <LANE>NIC15325.NLS;6, 6-APR-73 14:58 LLL;