

Notice of NLS Training at RADC

Duane, Would you please see that everyone has a copy of this in  
hardcopy form if they are not likely to receive it on-line. Thanks.

Notice of NLS Training at RADC

NLS Support at RADC 19 thru 21 Dec. 73

1

A different strategy will be used at RADC this time due to the past difficulty of conducting the usual formal course. Even when enough "students" could be brought together at one time the environment is such that it did not promote learning.

1a

The situation is further compounded by the widely varying levels of expertise represented at RADC due to different needs and experiences.

1b

Thus, the best kind of help and support for the mastery of NLS appears to be on an individual level, where an instructor deals on a one-to-one basis with each person desirous of learning more about NLS. HOWEVER, this is not the economically feasible method, and there does seem to be a compromise.

1c

Proposed Instructional Support: Cluster classes

1c1

The physical location and environment within ISIM may be conducive to a different kind of teaching strategy. People with similiar missions and interests tend to be in the same large room. Hopefully, there will be some similar level of expertise among these co-located individuals. Consequently, an instructor can go to a room and hopefully address a cluster of 2 or 3 people and extend their NLS capability.

1c1a

To facililatate the process, a list of all the concepts of general interest in TNLS can be distributed before hand to those who are interested, with instructions to mark those items or concepts which they would like to know more about or are having problems with. This will actually be the course outline for NLS that takes 5 days as a minimum. If 4 or more people wish to have a session, then a course can be arranged if the environment can be made suitable (terminals, blackboard, quiet, minimal interruptions, etc.). The course outline (syllabus) is graduated by hierarchical level with each level numbered. For example, if 4 persons decided that they were at level 3, then the items listed at level three would introduced as new material (with some flexibility of course).

1c1b

NOTE: This support is being offered and the manpower will be available for you use, BUT there will be no pressure placed upon anyone. It has been paid for and requested by management, and will be available to whatever extent you wish. If the timing is not conveyent, help can be available at a later date.

1c2

20912 Distribution

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

JHB 16-DEC-73 10:23 20912

Notice of NLS Training at RADC

(J20912) 16-DEC-73 10:23; Title: Author(s): James H. Bair/JHB;  
Distribution: /RADC JCN DVN; Sub-Collections: SRI-ARC RADC; Clerk: JHB;  
Origin: <BAIR>NOTICE.NLS;2, 16-DEC-73 10:20 JHB ;

KIRK 16-DEC-73 14:50 20913

Request for an OP fix.

I need this for the energy report. (A top-priority rush job.)

Request for an OP fix.

I can't get FSW=Off to work in <energy,report,>.

1

20913 Distribution

Harvey G. Lehtman, Dirk H. Van Nouhuys, Elizabeth K. Michael,

KIRK 16-DEC-73 14:50 20913

Request for an OP fix.

(J20913) 16-DEC-73 14:50; Title: Author(s): Kirk E. Kelley/KIRK;  
Distribution: /HGL DVN EKM; Sub-Collections: SRI-ARC; Clerk: KIRK;

Forget about following message, I found a way to fake it.

1

20914 Distribution

Dirk H. Van Nouhuys, Harvey G. Lehtman, Elizabeth K. Michael,

(J20914) 16-DEC-73 15:09; Title: Author(s): Kirk E. Kelley/KIRK;  
Distribution: /DVN HGL EKM; Sub-Collections: SRI-ARC; Clerk: KIRK;

smfs/nls problem

Jim -- I retrieved DHCMARRC.NLS;1 from smfs; got 11 pages, but when i load file into it, only get a newly created origin statment.

Help Dave.

1

20915 Distribution

James E. (Jim) White,

DHC 16-DEC-73 15:19 20915

smfs/nls problem

(J20915) 16-DEC-73 15:19; Title: Author(s): David H. Crocker/DHC;  
Distribution: /JEW; Sub-Collections: NIC; Clerk: DHC;

New addition to SU-DSL Personnel List

(author) Journal documents authored

1

VGC 28-NOV-73 18:45 20611

response to INWG query 11/27

Message: Ira, got your phone message 11-27 "need your exact INWG designation or name" I had trouble interpreting this, but assume you need to know the exact name of INWG. it is IFIP-TC6.1

(International Network Working Group) and I am the chairman of TC6.1. Hope this suffices. See you the 18th of Dec. Vint

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

1a

(Journal) Journal documents (most recent first)

2

(read) journal mail I have read

3

JI 29-OCT-73 12:37 19904

Request for News for ARPANEWS : December

Message: Vint: I understand you will be going to Hawaii for the INWG MTG. and that you may also attend the Networking Subconference while there. Could I prevail on you for help in covering the Subconference on behalf of the ARPANET Newsletter. I appreciate the fact that you are probably very heavily committed, and would find equally useful a reference to someone who might help who may not be so pressed.

Also, I would be most appreciative of any news from INWG that could be published in the Newsletter for the benefit of our readership. I believe that there is substantial interest in what is happening internationally in Networking and would very much like to keep our readership apprised.

Thank you for any assistance you can give and/or helpful suggestions you might make.

Warmest regards, Jean

3a

Addition of Prof. Bui-Tuong Phong to SU-DSL Personnel

4

Marcia:

4a

Please add Prof. Bui-Tuong Phong's name to the list of SU-DSL personnel who have access to the NIC facilities. His ident is "btp". His mailbox is PHONG@UTAH. Address is ERL 228, Stanford Electronics Labs, Stanford University, Stanford, Calif 94305. Phone number is 415-321-3300 ext. 263.

4b

Thanks very much, Vint Cerf

4c

20916 Distribution  
Marcia Lynn Keeney,

VGC 16-DEC-73 17:09 20916

New addition to SU-DSL Personnel List

(J20916) 16-DEC-73 17:09; Title: Author(s): Vinton G. Cerf/VGC;  
Distribution: /MLK; Sub-Collections: NIC; Clerk: VGC;  
Origin: <SU-DSL>VGC.NLS;7, 10-OCT-73 18:31 VGC ;

While Case-10 still seems to be down (I don't know why),  
I'll be checking Journal Mail at NIC. No SAIL problems yet  
whatsoever.

The snow came after you left. We have about three inches now  
and it's still falling. Forgot to ask you to say hi to Lee for me.

. . . Glenn

(J20917) 16-DEC-73 19:19; Title: Author(s): D. Glenn Ricart/DGR;  
Sub-Collections: NIC; Clerk: DGR;

ARC/NIC TENEX Knows of "OFFICE-1"

The name of the utility - OFFICE-1 - has been included in the monitor tables so that you can now reference that site in FTP or TELNET with the name, rather than site 53 (oct). You must still specify site 43 (decimal) to a TIP if logging in via that route. (Of course, that system is still not running, but whenever it is, you will be able to access it neatly and conveniently )

1

20918 Distribution

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

WRF 17-DEC-73 00:51 20918

ARC/NIC TENEX Knows of "OFFICE-1"

(J20918) 17-DEC-73 00:51; Title: Author(s): Ferg R. Ferguson/WRF;  
Distribution: /SRI-ARC; Sub-Collections: SRI-ARC; Clerk: WRF;

Tickler for week of 17 Dec

(dm4) 17 December - Monday	1
0830 hrs. Branch Chief's Meeting	1a
Due Date - ISIM/W. Rzepka - Evaluation of Prospective Sources - PR-B-4-3250	1b
Col Thayer - Leave	1c
(dth) 18 December - Tuesday	2
Commanders Supv Call - 10:00 hrs. in Bldg. 106 - Auditorium - All supervisors down to Section level should attend.	2a
Col Thayer - Leave	2b
r & t selection of the month is due in ISI.	2c
ISC/Semeraro - IR&D Evaluations due - Completed	2d
(dw4) 19 December - Wednesday	3
Col Thayer - Leave	3a
0830 hrs. ISI Confessions	3b
Syracuse University Curriculum in Electrical & Computer Engineering - Meeting at 1500 hrs. at Bldg. 309 - Dr. Foster Prof in E&C Eng will brief interested engineers	3c
(dth4) 20 December - Thursday	4
Col Thayer - Leave	4a
Timecards due	4b
Laboratory Activity Reports due today: Bucciero must have them by 1000, ISM must have them by 1100, and DOT must have them by 1600.	4c
0830 hrs. Branch Chief's Meeting	4d
R & T selection of the month is due in ism.	4e
ISIS/D. Nelson - Paperwork for White - Completed	4f
(df4) 21 December - Friday	5
Col Thayer - Leave	5a

Tickler for week of 17 Dec

Bobbie: Travel figures due by noon.

5b

Timecards due today.

5c

Supv Appraisal Forms are due TODAY!!

5d

20922 Distribution

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

Tickler for week of 17 Dec

(J20922) 17-DEC-73 06:54; Title: Author(s): Roberta J. Carrier/RJC;  
Distribution: /RADG; Sub-Collections: NIC RADG; Clerk: RJC;

UK Material of General Interest?

Mike Kudlick:

I was talking to Doug this morning about file space and on the particular issue I raised he suggested I talked to you. As everyone always is, we are short on file space, but a certain amount of the clutter is taken up with documents of use to UK users and some of this is of use to people in the US. 1

The two categories which I am thinking of at present are:

1. Our user-notices (uk-ics, usernotices,) which contain local information, eg. mailing, documentation in UK, and TIP availability are the present 3 on-line notices, and

2. Our catalogue of documents held for UK access at the British Library (uk-ics,uk-docs,bl). 2

The first category is of use to US users who may be using UK facilities or collaborating with UK people, whilst the second is primarily of use to UK users. We eventually hope that if compact forms of reproduction (eg. microform) are practicable that this collection will include UK documentation, and it will then be useful and accessible to US users. 3

Thus what I am asking for at present is some means of making these files available to the general community, without penalising ourselves as far as file space is concerned. Any ideas as to how we could fit this into general NIC structure? 4

Cheers .. Steve Wilbur (U. of London)

20923 Distribution

Michael D. Kudlick, Douglas C. Engelbart,

UK Material of General Interest?

(J20923) 17-DEC-73 08:02; Title: Author(s): Stephen R. Wilbur/SRW;  
Distribution: /MDK DCE(fyi); Sub-Collections: NIC; Clerk: SRW;  
Origin: <UK-ICS>MES.NLS;1, 17-DEC-73 07:46 SRW ;

Steve Crocker's reply to (MJOURNAL,20862,1:w)

This is a copy of a sndmsg from Steve Crocker

Steve Crocker's reply to (MJOURNAL,20862,1:w)

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12-DEC-73 20:06:41,2010

Net mail from site USC-ISI rcvd at 12-DEC-73 20:06:38

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Date: 12-DEC-73 2003-PST

From: CROCKER at USC-ISI

Re: NSW Comments

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Smokey and Charles:

Your comments are welcome and a pleasure to read. Your conservative tone is well justified and echoes much of our current thinking.

The state of affairs is as follows: there is a planning group which currently consists of Balzer, Warshall, Cheatham, some guys from the Air Force Data systems design Center in alabama, some guys from the Air force data Services Center in the Pentagon, and some Army guys from Computer systems Command. Liaison with the Navy is in progress. Most of your specific concerns have been voiced within this committee and I am preparing a paper which takes the next deeper cut at the issues. The current committee was selected out of participants from the summer meetings I held, and the research community representation is deliberately small. At present, there is no certainty of funding, although there was when the NSW paper was written, and consequently the

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Steve Crocker's reply to (MJOURNAL,20862,1:w)

relationship of this effort to yours and other projects is uncertain. 25  
 Should this thing continue, it will be coordinated with our other new 26  
 project in Management Systems Technology and everything brought 27  
 together. Please do not be annoyed by the lack of interaction with 28  
 your group: Since the summer I have focussed entirely on 29  
 gaining Service participation, and my lack of attention 30  
 to you is due solely to being completely cognizant of your efforts 31  
 and  
 close fit of them to our needs. In the next month or so, I expect to 32  
 have the political, financial and management issues under enough 33  
 control  
 to be able to dig back into the more interesting technical problems. 34

With respect to the paper you saw, please regard that as purely 35  
 political propoganda. Balzer whipped that off in very short order to 36  
 meet an IFIP deadline. future papers will be much better and will 37  
 adequately credit your work. 38  
 39

Steve 40  
 ----- 41  
 42

20924 Distribution

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

Steve Crocker's reply to (MJOURNAL,20862,1:w)

(J20924) 17-DEC-73 08:39; Title: Author(s): Charles H. Irby, Donald  
C. (Smokey) Wallace/CHI DCW; Distribution: /SRI-ARC; Sub-Collections:  
SRI-ARC; Clerk: DCW;

How about putting all the directory and TENEX commands in a seperate subsystem?

1

20925 Distribution  
New Nls,

(J20925) 17-DEC-73 09:30; Title: Author(s): N. Dean Meyer/NDM;  
Distribution: /NEWNLS; Sub-Collections: SRI-ARC NEWNLS; Clerk: NDM;

Videotape Presentation Rescheduled to Tuesday-- (SEE (20902,))

The Tom Martin ASIS tutorial videotape presentation announced in (20902,) will be held Tuesday, 18 December at 1100 rather than on Monday. If this is inconvenient, see me to arrange a private showing.

20926 Distribution

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

Videotape Presentation Rescheduled to Tuesday-- (SEE (20902,))

(J20926) 17-DEC-73 10:47; Title: Author(s): Harvey G. Lehtman/HGL;  
Distribution: /SRI-ARC; Sub-Collections: SRI-ARC; Clerk: HGL;

New TNLS difficulty

In TNLS, the Connect to Directory command prints the password I enter; isn't it supposed to be non-printing?

1

20928 Distribution  
New Nls,

New TNL difficulty

(J20928) 17-DEC-73 11:29; Title: Author(s): Jeanne M. Beck/JMB;  
Distribution: /NEWNLS; Sub-Collections: SRI-ARC NEWNLS; Clerk: JMB;

new TNLS

I like what Delete File does: ie, prints--  
"Deleted Files are:  
  ( beck, dodad.nls;l, ) and its partial copy"  
Good Work!

1

20929 Distribution  
New Nls,

new TNLS

(J20929) 17-DEC-73 11:31; Title: Author(s): Jeanne M. Beck/JMB;  
Distribution: /NEWNLS; Sub-Collections: SRI-ARC NEWNLS; Clerk: JMB;

Bug in new TNLS

1. Copy Word asked me for a Level-adjust (L:)!!!!
  2. The insert visible command did the same thing.
- Note: I used both of these in TNLS.

1

20930 Distribution  
New Nls,

Bug in new TNLS

(J20930) 17-DEC-73 11:34; Title: Author(s): Jeanne M. Beck/JMB;  
Distribution: /NEWNLS; Sub-Collections: SRI-ARC NEWNLS; Clerk: JMB;

OFFICE-1: Do Network Host Systems know about it?

Ferg ... Got your note that ARC/NIC knows of OFFICE-1.  
What about the rest of the Network ? You should (I hope I was  
clear on this the last time we chatted) prepare an RFC for  
distribution  
to all Network Liaisons telling them about OFFICE-1, Host #43  
(decimal).  
If you don't know how to do this, Jim White can help. ... Mike  
Kudlick.

1

20931 Distribution  
Ferg R. Ferguson, James E. (Jim) White,

OFFICE-1: Do Network Host Systems know about it?

(J20931) 17-DEC-73 12:24; Title: Author(s): Michael D. Kudlick/MDK;  
Distribution: /WRF JEW(for your info, Jim); Sub-Collections: SRI-ARC;  
Clerk: MDK;

## Why FTPSRV Doesn't Run on the Utility

As Jim Blum guessed on Friday, the problem running FTPSRV on the Utility was that FTPDRV connected to and logged FTPSRV in at host addr 2 (a canned constant in the pgm), rather than fetching the local host addr from the monitor table LHOSTN, and connecting to THAT host. I've made the one-word patch to both <NET>FTPDRV.NLS and <SYSTEM>FTPDRV.SAV at SRI-ARC, and we're therefore running the corrected version at ARC now. If you copy the SAV file over to the Utility and try running that, all your problems may go away (let me know if they don't). By the way, if we'd looked at <SYSTEM>FTPDRV.LOG, we'd probably have noticed the ARC (instead of the Utility) TENEX herald in the login sequence, and thus spotted the problem. --Jim

1

20932 Distribution

A. Jim Blum, Ferg R. Ferguson,

Why FTPSRV Doesn't Run on the Utility

(J20932) 17-DEC-73 14:17; Title: Author(s): James E. (Jim)  
White/JEW; Distribution: /JIMB WRF; Sub-Collections: SRI-ARC; Clerk:  
JEW;

## Thoughts on Possible Exec-Level Journal Commands

## Exec-Level Journal Commands: Semantics and Syntax

1

## Semantics

2

## Readmail

2a

Readmail should allow four basic options:

2a1

full text, interactive  
 full text, automatic  
 citations only, interactive  
 citations only, automatic

2a1a

Within each option, there are certain points where the system prompts the user for a choice of action.

2a2

The basic choice of action is whether to delete one or more citations.

2a2a

In the "citations only" modes, there is also a choice of whether the user wants to read any particular items cited.

2a2b

## Sendmail

2b

Sendmail has a straightforward sequence of actions.

2b1

The main points are:

2b2

1) only messages, not files, can be sent from the exec (at least for this initial implementation).

2b2a

2) check the intended recipient's ID and site to see if it will be possible to send the message.

2b2b

(There should be a way to save the message and send it later, if it is found that the intended recipient's site is not up at the time the message is completed by the user.)

2b2b1

3) give the user the choice of whether to enter the message into the NIC Journal or not.

2b2c

4) when the user completes the input sequence, ask him if it's o.k. to send the message, and if not ask him if he needs help.

2b2d

## Syntax

3

## Readmail

3a

## Thoughts on Possible Exec-Level Journal Commands

```
@journal [cr]
>SENDMAIL OR READMAIL? [S OR R] r [cr]
>FULL TEXT OR CITATIONS ONLY? [ F OR C] 3a1
```

Note ... whichever choice the user takes, the system comes back with the following question: 3a1a

```
>INTERACTIVE OR AUTOMATIC? [I OR A] 3a2
```

There are now four modes: 3a2a

```
FI full text, interactive
FA full text, automatic
CI citations only, interactive
CA citations only, automatic 3a2a1
```

1) FI mode: 3a3

The system types each citation and the cited item, both with wmy viewspecs. 3a3a

At the completion of the typing of each cited item, the system asks: 3a3a1

```
>DELETE THIS CITATION? [Y OR N] 3a3b
```

and the appropriate action is taken. The system then proceeds to the next citation and cited item. 3a3b1

Note ... During any typeout sequence, the user can type ↑0 to abort the typeout and move to the above question from the computer. 3a3b2

2) FA mode. 3a4

The system types each citation and the cited item, both with wmy viewspecs. 3a4a

Note ... During any typeout sequence, the user can type ↑0 to abort the typeout and move to the next citation and cited item. 3a4a1

At the completion of the typing of ALL citations and cited items, the system asks: 3a4a2

```
>DELETE ANY CITATIONS? [Y OR N] 3a4b
```

If the answer is no, that completes the readmail command. 3a4b1

## Thoughts on Possible Exec-Level Journal Commands

- If the answer is yes, the system asks: 3a4b2
- >WHICH ONES (BY NUMBER)? 3a4c
- and the user types the statement numbers of the citations he wishes to be deleted. 3a4c1
- There should be no initial periods for the statement numbers, and they should be separated by commas. 3a4c2
- 3) CI mode. 3a5
- The system types each citation (but not the cited item) with viewspecs xbrmy. 3a5a
- The cited item is not typed. Instead, after each typed citation, the system asks: 3a5a1
- >READ THE CITED ITEM? [Y OR N] 3a5b
- If yes, the system types it and then types the next question; otherwise it just types the next question: 3a5b1
- >DELETE THIS CITATION? [Y OR N] 3a5c
- The system takes the appropriate action and proceeds to type the next citation. 3a5c1
- 4) CA mode. 3a6
- The system types all citations (but not the cited items) with viewspecs xbrmy. 3a6a
- The user can type ↑0 to abort the typeout and proceed to the next citation automatically. 3a6a1
- At the end of the typeout of all citations, the system asks: 3a6a2
- >READ ANY CITED ITEM? [Y OR N] 3a6b
- If the response is no, the system asks the question "delete any cited items?" (see below). 3a6b1
- If the response is yes, the system asks: 3a6b2
- >WHICH ONE (BY NUMBER)?: 3a6c

## Thoughts on Possible Exec-Level Journal Commands

and the user types a statement number (no initial period). 3a6c1

At the completion of this typeout, or if interrupted by ↑0, the system asks: 3a6c2

>DELETE THIS CITATION? [Y OR N] 3a6d

and the system takes the appropriate delete or no-delete action. 3a6d1

It then asks again the question "read any cited item"? (see above) , and this sequence repeats until the response to the "read any" question is "no". 3a6d2

>DELETE ANY CITATIONS [Y OR N] 3a6e

This question is typed when the user responds to the "read any cited item" question with "no". 3a6e1

If the response is to this "delete any" question is no, that completes the readmail command. 3a6e2

If the response is yes, the system asks: 3a6e3

>WHICH ONES (BY NUMBER)?: 3a6f

and the user types a list of statement numbers (no initial periods, and separated by either commas or spaces). 3a6f1

The system deletes all these, and that completes the readmail commaand. 3a6f2

Sendmail 3b

@journal [cr]  
 >SENDMAIL OR READMAIL? [S OR R] r [cr]  
 >SEND TO:  
 >... CHECKING IDENTs. WAIT.  
 >TYPE YOUR MESSAGE. END WITH CONTROL-Z. 3b1

user types message here. Following ↑z, the system asks: 3b1a

>DO YOU WANT THIS IN NIC JOURNAL? [Y OR N] 3b2

If response is no, type the question "ok to send?" (see below). 3b2a

## Thoughts on Possible Exec-Level Journal Commands

If response is yes, request the following info, line by line: 3b2b

>AUTHOR(S): 3b3

>TITLE: 3b4

In my opinion, the author need not be verified, although it may (as with the current journal) be desirable to do this. (If the author is invalid, one possibility is that he simply wouldn't get a message in his (AUTHOR) branch. His tough luck.) 3b4a

The system then automatically feeds back the following info: 3b4b

>STATUS IS: 3b5

TO:  
FROM:  
TITLE:  
MESSAGE: 3b5a

The system then asks: 3b5a1

>OK TO SEND? [Y OR N] 3b6

If yes, send it and exit to the exec. 3b6a

If no, ask the question: 3b6b

>DO YOU NEED HELP? [Y OR N] 3b7

If no, we might allow the user to type some commands like TO, FROM, TITLE, MESSAGE in order to correct individual items. 3b7a

If yes, go back and repeat the whole thing beginning with the question "send to:". 3b7b

Thoughts on Possible Exec-Level Journal Commands

(J20933) 17-DEC-73 16:57; Title: Author(s): Michael D. Kudlick/MDK;  
Distribution: /MDK; Sub-Collections: SRI-ARC; Clerk: MDK;  
Origin: <KUDLICK>EXECJOURNAL.NLS;2, 31-JAN-73 12:20 MDK ;

SMFS Problem Fixed -- Response to (20915,)

Dave-- I've long understood the problem you report (which is actually one of SMFS garbling files in retrieval; see -- 15737,). Problem is that the SIN JSYS now clobbers (and has for some months) the low-order bits of each word; it never had this property 'till Tomlinson made a monitor change (TENEX 1.31). Anyway, today I modified SMFS to avoid the problem, stored the updated SAV file in <NETSYS> (the source is <NET>SMFS.NLS;2). You should have no further problems (<UCLA-NMC>DHCMARRC.NLS;1 is now recoverable, for example). Merry Christmas. --Jim

1

20934 Distribution  
David H. Crocker, Mark C. Krilanovich,

SMFS Problem Fixed -- Response to (20915,)

(J20934) 17-DEC-73 17:18; Title: Author(s): James E. (Jim)  
White/JEW; Distribution: /DHC MCK; Sub-Collections: SRI-ARC; Clerk: JEW;

## Archival of User Programs

JFORM.NLS, JFORM1.CA, and JFORM2.CA are back, and set not to be deleted. All files currently in the <user-progs> directory are archived and set not to be deleted. As missing files are retrieved and new files are added, they will be set not to be deleted. This policy will continue until I am advised otherwise. --Dean

1

20935 Distribution

James H. Bair, James C. Norton, Richard W. Watson,

Archival of User Programs

(J20935) 17-DEC-73 17:22; Title: Author(s): N. Dean Meyer/NDM;  
Distribution: /JHB JCN RWW; Sub-Collections: SRI-ARC; Clerk: NDM;

## Current Status of Documentation

This Journal item responds to the following questions from Jim Bair (JHB):

1

-----  
9-DEC-73 16:51:11,580  
-----

Date: 9-DEC-73 1651-PST  
From: BAIR  
Re: Documentation  
cc: bair  
- - - -

Dirk, I dont understand the current state of training material. For eg., why was the TNLS Userguide redone and printed? Why not the Beginners guide? Why waa the index dropped from the Guide? Will the dividers be put in notebook copies? Who are they distributed to? Are ther printed copies of the old Primer? Etc/. What I need is all the documentation I can get for a course to be given on Decl7 for new and experienced users, and some idea of what doc. they need. Help! -----

1a

## History:

2

To understand the state of documentation we have to look at a little history.

2a

Marilyn left and Jeanne Beck came about when planning for the new command language began to get serious. She left out of date on- and off-line userguides and a file called folklore which contained the updates. A file, now archived, called (documentation, legacy,) thoroughly described that state. It apeared then that the new command language might come into general use much sooner that it has. These things being the case, I decided to abandon maintianing the hard copy, and concentrate on bringing the online files up to date. Jeanne Beck spent most of July and part of June and August doing that.

2b

The revisions that brought it up to date disturbed the operation of some output processor directives, the index, and the table of contents.

2c

## Reprinting:

3

We reprinted the userguide because Jeanne North and Doug asked us to in response to specific requests. Reprinting involved serveral person-days work on Output Processor Directives and the indices and table of contents.

3a

## Index:

4

## Current Status of Documentation

We dropt the index because the revisions had changed the page-of-occurance of various subjects, and we did not think it worth the labor to go through the cycle of printing and counting pages to figure out a new index.

4a

## Deviders

5

No one thought of dividers. If you instigate printing more copies, we can get dividers.

5a

## Distribution:

6

On request to Marcia Keeney.

6a

## Primer:

7

There are a few printed copies of the primer; we can easilly make more.

7a

## ETC.:

8

There is a good supply of the L-10 and Output Procesor User's Guides, Others would have to be printed at your request.

8a

20936 Distribution

Donald C. (Smokey) Wallace, Kenneth E. (Ken) Victor, Susan R. Lee,  
Douglas C. Engelbart, James H. Bair, Elizabeth K. Michael, Richard W.  
Watson, Elizabeth J. (Jake) Feinler, Harvey G. Lehtman, Kirk E.  
Kelley, Laura E. Gould, N. Dean Meyer, Jeanne M. Beck, Dirk H. Van  
Nouhuys, Michael D. Kudlick, James C. Norton, Jean Iseli, David H.  
Crocker, Nancy J. Neigus, Duane L. Stone,

Current Status of Documentation

(J20936) 17-DEC-73 21:07; Title: Author(s): Dirk H. Van Nouhuys/DVN;  
Distribution: /DIRT JI DHC NJN DLS; Sub-Collections: SRI-ARC DIRT;  
Clerk: DVN;  
Origin: <VANNOUHUYS>DOCSPLIT.NLS;1, 17-DEC-73 21:04 DVN ;

PSO Meeting This Week

PSO will meet to exchange information as usual this Thursday at 2:00 in the Parsley. JML KIRK MEJ and are expected to attend, and everyone is welcome.

1

20937 Distribution

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

PSO Meeting This Week

(J20937) 17-DEC-73 21:13; Title: Author(s): Dirk H. Van  
Nouhuys/DVN; Distribution: /SRI-ARC; Sub-Collections: SRI-ARC; Clerk:  
DVN;

## Control Characters and TENEX

Dean:

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

Cheers .. Steve

1

20938 Distribution  
N. Dean Meyer,

Control Characters and TENEX

(J20938) 18-DEC-73 03:46; Title: Author(s): Stephen R. Wilbur/SRW;  
Distribution: /NDM; Sub-Collections: NIC; Clerk: SRW;  
Origin: <UK-ICS>MES.NLS;1, 18-DEC-73 03:42 SRW ;

The meeting with PRD representative prove very interesting. I think that we can see that the experiences of PRC with PACER is simillar to what has been suggested in many other discussions involving I-D-S data base design. The question may be whether we have the resources (people) to undertake and analysis of RADC organization and apply it to a proposed data base design. It would seem fair to suggest that we should begin by making an objective appraisal of what has been done here in ISI with I-D-S. This in-house experience should be compared with Mr. Nichels discussion of their experience to determine if our effort had any semblance to a REAL design and implementation effort.

1

It does appear that many people in the military community are beginning to realize and use I-D-S as a data base management system. Added capabilities such as Data Query tend to allow some to even consider I-D-S as having a "MIS" capability as well. Restart/recovery techniques, journalization techniques are available with the system as it exists now.

2

Some of the places using IDS are: JTSA-mr Pottmyer autovon 222-1057, NAVCOSSACT mr Browning 202-433-3087, Army Operations Center Capt Wagner autovon 227-9214 , Capt schlueter 225-6650, SAC/ADOP Major Dick Stone 271-4695/4696, AF/DSC Capt Bob Tuft 227-7459. I have been in contact with some of the individuals named.

3

If you are interested in looking at the data base we have on-going for the branch you may see me to copy many of the available SOP's used presently including available programs, Data Query, and ICL. You may find what we have to be very interesting.

4

DLD2 18-DEC-73 05:29 20939

(J20939) 18-DEC-73 05:29; Title: Author(s): David L. Daughtry/DLD2;  
Distribution: /DLS JPC RBP EJK RAL RFI; Sub-Collections: NIC; Clerk:  
DLD2;  
Origin: <DAUGHTRY>PRC-IDS.NLS;1, 18-DEC-73 05:27 DLD2 ;

20939 Distribution

Duane L. Stone, Joe P. Cavano, Roger B. Panara, Edmund J. Kennedy,  
Ray A. Liuzzi, Rocco F. Iuorno,

## Independent ARC Services for DEIS

THE PURPOSE OF THIS MEMO IS TO SEEK CLARIFICATION OF the role of the Augmentation Research Center (ARC) in the ARPA project on the Defense Energy Information System (DEIS). This memo states ARC's case and puts forth a proposal as a means for starting the multi-party negotiations that will be involved in establishing the type of role definition that ARC needs.

1

In this role-clarification discussion, my approach is as Director of ARC, from a position of responsibility for a long-term program that now has over \$10,000,000 of government money invested in it, that has involved more than 150 man-years of SRI personnel over the last decade, and that is just moving (independent of the DEIS Project) into a large-scale program of bringing our developments into extensive, exploratory application out in the "real world" -- building up this application in a special way that actually is an important experiment in itself.

1a

SUMMARY OF MY PROPOSAL -- a proposal really to several parties: In SRI, Bob Rodden, Arlie Capps, Dave Brown, Bart Cox; and in ARPA, the Nuclear Monitoring Research Office (NMRO -- Eric Willis and Dave Russell), and the Information Processing Techniques Office (IPTO -- Licklider, Al Blue, and John Perry).

2

The proposal is that ARC split its involvement with the DEIS activity into two parts.

2a

One part is to give direct technical support to the evolutionary-system plan that is to be delivered in July to NMRO. For this part, we serve under the direction of SRI's DEIS-project management -- that management is responsible for the delivered product, and our role here is to serve that management as it sees fit.

2a1

Another part is to give operational support to the ongoing knowledge-work activity in the DEIS world. For this part, we would serve NMRO directly, with separate funding and contract arrangements that are consistent adaptations and/or extensions to our current Knowledge Workshop service contract with the ARPA IPT Office (see the proposal for this already in-force contract, ISU 73-5, March 31, 1973 --14946,).

2a2

It is this second kind of participation that requires special attention. The remainder of this memo provides background information, and a few of the explicit characteristics of the second part.

2b

MY UNDERSTANDING OF THE STATUS OF SRI'S INVOLVEMENT IN DEIS ACTIVITY is as follows -- perhaps an over-simplified portrayal, but I think workably accurate for the discussion at hand:

3

## Independent ARC Services for DEIS

I PERCEIVE THAT IN FACT THERE ARE NOW TWO PROJECTS, that are currently mixed -- considering one project as separate from another if the two have different clients who each need to have clear and direct responsiveness for their needs:

3a

PROJECT A -- Client: Christensen. User: Hardship Committee.  
Task: Provide operational help in getting their information situation under control.

3a1

By the time it is under control, there will be a de facto DEIS. Inadequate, kinky, hodge-podge, but functional, let's call it DEIS-1. It will be the starting place from which will evolve by perhaps a more orderly process the succeeding, ever-improved systems, DEIS-2, DEIS-3, ..., DEIS-n.

3a1a

PROJECT B -- Client: ARPA NMRO. User: DoD Energy Community.  
Task: Produce a design and an implementation plan for DEIS-2, 3, etc; and hopefully, provide a blueprint for the evolutionary process.

3a2

I assume a) that NMRO has no mandate from DoD to be its DEIS architect, and b) that if successful the plan produced by Project B will become an implementation proposal that ARPA will try to sell to DoD.

3a2a

SRI's commitment here is: to produce a product that is what the client (NMRO) most wants to try to sell; plus, perhaps, to provide supportive material for the arguments needed in the client's selling job.

3a2b

The fact that currently SRI's DEIS-activity funding all comes from NMRO, and that our attention currently is heavily focussed on Project A, seems to have somewhat obscured the above situation -- that we have two projects on our hands, related but separate, with two clients that need different things done for them.

3a3

## RELEVANT ASPECTS OF CURRENT SRI PROJECT ORGANIZATION

3b

Archie Capps, operating from Washington, is Project Manager of the "combined" project (embracing both Projects A and B). He reports to Bob Rodden. Dick Schmidt is Menlo Park Coordinator of the combined project.

3b1

My understanding is that Rodden and Capps have agreed to have Dave Brown be responsible for the Information-System aspects of the combined Project, reporting to Capps.

3b1a

## Independent ARC Services for DEIS

ARC has provided support over the past months, in the area of the information-systems aspects of the first, DEIS study phase. Paul Rech has been our steady contact, backed up by some participation from Dick Watson (Assistant Director of ARC).

3b2

ARC's particular contribution involves techniques lumped under what we call the Augmented Knowledge Workshop (AKW). We also have unique experiences with the ARPANET. Both the AKW and the ARPANET developments offer singularly relevant new system possibilities for a DEIS.

3b2a

We currently assume that ARC is committed, to some as yet unknown extent, to support system planning for Project B under Dave Brown's direction. It is our understanding that the concept of an evolutionary information service, harnessing as much as possible the above AKW and ARPANET capabilities, will be used as the basic design concept in the approach to Task B. It thus appears probable that the help from ARC on Project B could be relatively extensive.

3b2b

DELIVERY ON PROJECT B: By 1 July 74, an implementation plan. NMRO is client for this plan. Necessarily the plan must find a certain degree of favor with the customers and operational people of DEIS; but we are serving NMRO, preparing a plan that they want, and their wants with respect to the delivered plan seem to me to take precedence over desires, wishes, real or fancied requirements expressed by targeted customers, biases of the SRI designers, etc.

3c

## DISCUSSION

4

ARPA's Information Processing Techniques Office (IPTO) has purchased almost half a million dollars worth of service from ARC's newly established Knowledge Workshop Utility -- about 60% of our first-established service capacity. The service is provided over the ARPANET, and can be delivered to any client that has dialup access to a Network port. Service delivery to some of the clients is beginning in a week or so, and all clients can probably be served by early January, 1974.

4a

The IPTO currently has a number of candidate applications among which they are considering allocating this service. The service is designed for what we term "exploratory application," and has its most singular appeal to the managers of geographically distributed projects, to support project activities such as collaborative dialogue and knowledge integration (development, production, and control of memoranda, documentation, and working data).

4b

Gearing up to provide this exploratory application service, and

## Independent ARC Services for DEIS

leading toward ARPA's choices of where to launch such exploration, has been specifically in the works for years now.

4c

This is a key fact: THE TRANSFER OF ITS TECHNOLOGY INTO USEFUL APPLICATION IS A SERIOUS, LONG-TERM PART OF THE CURRENT WAY ARPA WANTS TO APPROACH ITS PART IN THE DEIS ACTIVITY.

4c1

ARPA is ARC's client; it currently is the DEIS Project B client, and what this memo asks is essentially to respond in the cleanest fashion to ARPA's needs and desires in the DEIS activity, and to enable ARC to fulfill the obligations mutually decided between it and its long-term client.

4c2

It is very clear in our minds, within ARC, that we have obligations to SRI to participate in applying our special knowledge to its projects; that SRI must protect the obligations of all of its groups to their clients, and that the combined DEIS project has overwhelming challenges.

4d

## PROPOSAL PARTICULARS:

5

I propose that IPTO donate a number of its Utility slots to NMRO, to be applied to the DEIS work. It would serve a very important need, it would provide a coherent test bed for the AKW service, and if IPTO develops need for its full complement of Utility slots, we can negotiate with TYMSHARE to add the capacity within a few months (assuming NMRO finds the money to pay for the slots being dedicated to the DEIS application).

5a

The earliest field-work application would be in support of a trial core of people who are working at the system-improvement problem.

5b

Would propose three "Control Centers," to use Dave Brown's words: one in the NMR Office at ARPA, one in the SRI Washington Office (Arlie Capps), and one at SRI Menlo Park.

5b1

The purpose of each center is to serve the nearby personnel with message service, with information management, with document development and updating, etc. Assume that the staff served by a Center need learn an absolute minimum about the workings of the NET, of SNDMSG, of NLS, and etc. They just work with hard copy, and interface to good secretaries.

5b1a

The staff being supported can to advantage learn various degrees of skill, so that they can for themselves do supplemental operations. What is important, though, is that the support staff at each Center is trained (and

## Independent ARC Services for DEIS

backd up by ARC) to do the whole job, or to take over at any point from a serviced staff member who has done some things on line and wants it finished for him.

5b1a1

The physical arrangements at each Control Center:

5b1b

Each CC have would have a slot in the Utility, so each could get on whenever it wanted.

5b1b1

Each CC would also have at least one guaranted Net-access port at some convenient TIP. Should have high-speed modems -- like 4800 baud.

5b1b2

The terminal cluster of each would include:

5b1b3

One fast teleprinter (e.g. a 30 ch/sec TI), and

5b1b3a

One good-quality printer, suitable for printing out many pages unattended, pages that can be used as good-quality draft material, pages that can be Xeroxed well, etc. Speed: adequate for volume expected, and turn-around needed.

5b1b3b

I know that a TTY37 can serve this purpose very well, even at 15 CH/sec it can produce a lot of material. It is rugged, has pin-feed facility, and in fact can com with reverse-stepping horizontal and vertical stepping, so that quite effective simple graphics can easily be plotted on them.

5b1b3b1

One spooling device, to allow off-line preparation of DEX input.

5b1b3c

Handiest would be an OCR gadget that would enable any golf-ball typewriter to produce pages that could be input.

5b1b3c1

One high-speed CRT display; at least for use with TNLS, and hopefully with a Line Processor and DNLS-operating capability.

5b1b3d

These Centers would be where we first check out the terminal clusters, the clerical training, procedures, etc., in the process of making the service maximally useful.

5b1c

There would undoubtedly be need for a second category of work station to be supported: the outlying participants who are involved with communication, data entry, etc., on a lesser scale than the Control Centers, but nonetheless very important.

## Independent ARC Services for DEIS

Would expect these to be single-typewriter stations for the most part. Training their operating personnel will be a special challenge.

5b2

I feel that it is important all around for us to get into operation a first set of Centers and Stations. To spend extra money to equip them quickly and completely, and to have plenty of training and application-design support, would be good business here. Assessing the potential for servicing later stages of the operational DEIS is highly important, and the lessons learned in these early applications are exceedingly important for gaining the necessary cost and value data, and for giving DEIS-system designers, potential operational staff, and end customers some chance to see as a reality what sorts of services are being considered.

5c

Then also, opportunity to try using the AKW computer-support system, NLS, as a front end for gaining flexible access to a variety of distributed and mixed-nature information systems, is something that really needs trying. The above experiment, if pursued with dispatch and enough resources, could explore these matters in a much better environment than any other I can think of (real users, real systems, highly motivated activities, etc.).

5c1

ARC will proceed directly to make some detailed estimates of the costs involved in this approach. Meanwhile, I hope to get it cleared through SRI management, and through the DEIS-project management, that ARC can contact IPTO and NMRO directly to pursue this immediate-application course of action.

5d

Note that our recent interactions with IPTO about our next contract period has revealed a strong interest in ARPANET and AKW technology being exposed productively to the DoD; Al Blue, acting director of IPTO, last week independently contacted Eric Willis, director of NMRO, to see if Willis would like to accelerate his Office's exploratory application of the AKW technology. Willis reacted very positively; invited Jim Norton (assistant director of ARC, passing through Washington) to talk about it, and urged that ARC make direct contact with him regarding increased participation in NMRO projects with the AKW Utility services.

5d1

20940 Distribution

James C. Norton, Richard W. Watson, Paul Rech, Michael D. Kudlick,  
Bonnar Cox, David R. Brown, Omar Wheeler,

DCE 18-DEC-73 06:16 20940

Independent ARC Services for DEIS

(J20940) 18-DEC-73 06:16; Title: Author(s): Douglas C.  
Engelbart/DCE; Distribution: /JCN RWW PR MDK BC DRB OW; Sub-Collections:  
SRI-ARC; Clerk: DCE;

RADC TIP EXTENSIONS

There are now 5 additional TIP phone numbers as follows:

3300

3302

3600

3613

3733

1

1a

1b

1c

1d

1e

20941 Distribution

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

RADC TIP EXTENSIONS

(J20941) 18-DEC-73 06:32; Title: Author(s): Thomas F. Lawrence/TFL;  
Distribution: /RADC; Sub-Collections: RADC; Clerk: TFL;  
Origin: <LAWRENCE>PHON.NLS;2, 18-DEC-73 06:07 TFL ;

Bobbie, The tickler file seems to be useful in that items related to functions of ISI (higher level management) are shown only. It would be much more useful if a procedure is established so that individuals within ISI, ISIM, ISIS can update the file as it is constructed; that is, many times engineers have due dates, meeting notices, visitor notices, etc that should be inserted in the tickler. Perhaps Stoney can suggest a way of sharing the tickler for updates with all people in the branch. What do you think?....Dave Daughtry.

1

20942 Distribution

Roberta J. Carrier, Duane L. Stone, Edmund J. Kennedy,

DLD2 18-DEC-73 06:34 20942

(J20942) 18-DEC-73 06:34; Title: Author(s): David L. Daughtry/DLD2;  
Distribution: /RJC DLS EJK; Sub-Collections: NIC; Clerk: DLD2;

## References for DEIS

## REFERENCES FOR DEIS

- 1) Coordinated Information Services by DCE, Dec 72, (12445,)

## Abstract

Generally, adoption of a multi-access computer network is promoted on the basis of increased accessibility and economy of computational and data-bank resources for a distributed community of users. But visualize this resource-sharing computer network as a general-purpose digital-packet transportation system linking resources, processors, vendors, brokers, customers, etc.; then consider that the existence of such a transportation system will inevitably stimulate growth of an information market involving many processes, products, and services. A distributed community availing itself of such a transportation system should rightfully count on such market development for much of its payoff from its early investment.

In particular, the "Knowledge Workshop" services described below will grow to become very important to network-coupled communities that are involved with a common discipline or mission -- my judgement is that this use of computer networks will come to dominate over the purely computational use in scale and generally perceived social worth, with today's type of computer services being seen as but a special subset of the tools integrated into a coherent knowledge workshop.

- 2) The Augmented Knowledge Workshop, by JCN, RWW, and DCE, March 73, (14724,)

## Abstract

This paper discusses the theme of augmenting a knowledge workshop. The first part of the paper describes the concept and framework of the knowledge workshop. The second part describes aspects of a prototype knowledge workshop being developed within this framework.

The importance and implications of the idea of knowledge work have been described by Drucker [3, 4]. Considering knowledge to be the systematic organization of information and concepts, he defines the knowledge worker as the person who creates and applies knowledge to productive ends, in contrast to an "intellectual" for whom information and concepts may only have importance because they interest him, or to the manual worker who applies manual skills or brawn.

## References for DEIS

In those two books Drucker brings out many significant facts and considerations highly relevant to the theme here, one among them (paraphrased below) being the accelerating rate at which knowledge and knowledge work are coming to dominate the working activity of our society:

1b1b

In 1900 the majority and largest single group of Americans obtained their livelihood from the farm. By 1940 the largest single group was industrial workers, especially semiskilled machine operators. By 1960, the largest single group was professional, managerial, and technical -- that is, knowledge workers. By 1975-80 this group will embrace the majority of Americans. The productivity of knowledge has already become the key to national productivity, competitive strength, and economic achievement, according to Drucker. It is knowledge, not land, raw materials, or capital, that has become the central factor in production.

1b1b1

In his provocative discussions, Drucker makes extensive use of such terms as "knowledge organizations," "knowledge technologies," and "knowledge societies." It seemed a highly appropriate extension for us to coin "knowledge workshop" for re-naming the area of our special interest: the place in which knowledge workers do their work. Knowledge workshops have existed for centuries, but our special concern is their systematic improvement, toward increased effectiveness of this new breed of craftsmen.

1b1c

Workshop improvement involves systematic change not only in the tools that help handle and transform the materials, but in the customs, conventions, skills, procedures, working methods, organizational roles, training, etc. by which the workers and their organizations harness their tools, their skills, and their knowledge.

1b1d

Over the past ten years, the explicit focus in the Augmentation Research Center (ARC) has been upon the effects and possibilities of new knowledge workshop tools based on the technology of computer timesharing and modern communications [18 - 41]. Since we consider automating many human operations, what we are after could perhaps be termed "workshop automation." But the very great importance of aspects other than the new tools (i.e., conventions, methods, roles) makes us prefer the "augmentation" term that hopefully can remain "whole-scope." We want to keep tools in proper perspective within the total system that augments native human capacities toward effective action [1 - 3, 10, 16, 18, 24].

1b1e

## References for DEIS

Development of more effective knowledge workshop technology will require talents and experience from many backgrounds: computer hardware and software, psychology, management science, information science, and operations research, to name a few. These must come together within the framework of a new discipline, focused on the systematic study of knowledge work and its workshop environments.

1b1f

- 3) Transfer of Augmented Knowledge Workshop Technology to the Vela project, Oct. 3, 1973 (19251,)

1c

## Abstract

1c1

The purpose of this proposal is to request support for transferring the knowledge workshop technology developed at the Augmentation Research Center (ARC) of Stanford Research Institute (SRI) to the VELA Project of the Advanced Research Project Agency (ARPA).

1c1a

This technology transfer will consist of training, technical and engineering support, and assistance in the development of effective information handling procedures geared towards the specific needs of the VELA project. It will include analytical support to assess the performance of this technology in the VELA environment and will make recommendations for future implementation strategies within that Project.

1c1b

This proposal is the result of several meetings we have had with Colonel David Russell of ARPA, during which we explored potential gains for the VELA Project and reviewed the technical requirements for the successful transfer of this technology.

1c1c

At Colonel Russell's suggestion, we have looked at some of the nonclassified, online VELA documents (via the ARPANET), and a representative from ARC attended the May meeting of the "Seismic Data Working Group" in Washington. Thus, we have been able to judge, in its own environment, the extent of the VELA Project's communication needs and its information exchange requirements. This proposal reflects our conclusions.

1c1d

- 4) Workshop Utility Service for the Use of Knowledge Workshop Technology, Oct.3,1973, 18 pages, (19250,)

1d

This is a rather lengthy document which describes the NLS Utility. It is a proposal for Bell of Canada, but it could apply as well to the energy community should they be interested

References for DEIS

in buying a chunk of the NLS Utility for supporting dialog of  
the Energy Community.

1d1

20943 Distribution  
David N. Berg,

References for DEIS

(J20943) 18-DEC-73 08:13; Title: Author(s): Paul Rech/PR;  
Distribution: /DNB; Sub-Collections: SRI-ARC; Clerk: PR;  
Origin: <RECH>BERG.NLS;4, 18-DEC-73 08:11 PR ;

DEIS Memos I

## MEMOS ABOUT ENERGY MATTERS

TRIP REPORT FROM R.C. PHILLIPS AND R.D. SCHMIDT (8/23/73)

Zausner as head of the energy program reports to Stephen Wakefield, Asst. Director. Assoc. Directors for Minerals and Power Administrations are at equivalent level as Zausner. The Energy Program includes OCR, OSW, energy programs of Bureau of Mines, Office of Oil and Gas and others. His group is charged with spending \$100 million during the first year of Nixon's newly announced energy program. Zausner will have a staff of 100 by the end of the year with three offices: 1. Office of energy data and analysis, 2. Office of energy conservation (how can gov't. save 7%), 3. Office of R&D policy analysis. He is not happy with present OCR program and wants it analyzed.

MEMO FROM DAVE BROWN (8/28/73)

I talked with Dick Schmidt about the new Office of Energy Data and Analysis in the Department of the Interior. He and Russ Phillips visited that office last Thursday and met Mr. Eric Zausner, Deputy Assistant Secretary for Energy.

According to Dick the reception was cordial but the office really isn't organized yet. SRI's next visit should be sometime in late September.

Dick promised to keep me informed and will send me a copy of the contact report.

DEPARTMENT OF ENERGY AND NATURAL RESOURCES (DENR)

Office of Energy Data and Analysis (established April 1973)

Focal point for energy data collection throughout Executive Branch. Will develop a unified account of energy current energy resources and an information system responsive to policy makers. Reports to the Assistant Secretary -- Energy and Minerals. Would be fully incorporated in DENR.

DEIS Memos I

(J20944) 18-DEC-73 08:33; Title: Author(s): Paul Rech/PR;  
Sub-Collections: SRI-ARC; Clerk: PR;  
Origin: <RECH>ENERGY.NLS;4, 18-DEC-73 08:25 PR ;

First journal mail

This a test of the Journal...send a reply.

First journal mail

This is the first use of the Journal system...get ready to receive plenty of mail

20945 Distribution

Lawrence H. Day, Phil Feldman, Marshall T. Buck, Jan H. Kremers, Phil  
I. Weintraub, Penny Napke,

IMM 18-DEC-73 08:44 20945

First journal mail

(J20945) 18-DEC-73 08:44; Title: Author(s): Inez M. Mattiuz/IMM;  
Distribution: /LHD PF MTB JHK PIW PAN; Sub-Collections: NIC; Clerk: IMM;

salary items

please get back to me today

salary items

djdkdwr.xvuetl.c}pt8 RUSH URGENT

1

20946 Distribution

Phil Feldman, James C. Norton, Jan H. Kremers, Michael T. Bedford,  
Lawrence H. Day,

salary items

(J20946) 18-DEC-73 08:44; Title: Author(s): Lawrence H. Day/LHD;  
Distribution: /PF JCN JHK MIKE LHD(for info); Sub-Collections: NIC;  
Clerk: LHD;

New TNLS complaint

Load File (in TNLS) will not take anything but a complete filename with extension and version (gives an archive message). Will you fix it soon to take altmode or stars?

1

20947 Distribution  
New Nls,

JMB 18-DEC-73 11:04 20947

New TNLs complaint

(J20947) 18-DEC-73 11:04; Title: Author(s): Jeanne M. Beck/JMB;  
Distribution: /NEWNLS; Sub-Collections: SRI-ARC NEWNLS; Clerk: JMB;

Same TNLS bug: Move Character asked me "L:" and waited instead of confirming the command as it should have at that point.

1

20948 Distribution  
New Nls,

JMB 18-DEC-73 11:06 20948

(J20948) 18-DEC-73 11:06; Title: Author(s): Jeane M. Beck/JMB;  
Distribution: /NEWNLS; Sub-Collections: SRI-ARC NEWNLS; Clerk: JMB;

Suggested change in new TNLS

The prompt after specifying "Print" in TNLS should be "OK/C:" and not "CA/C:" because you may actually end the command after Print with REPEAT or INSERT.

1

20949 Distribution  
New Nls,

JMB 18-DEC-73 11:08 20949

Suggested change in new TNLS

(J20949) 18-DEC-73 11:08; Title: Author(s): Jeanne M. Beck/JMB;  
Distribution: /NEWNLS; Sub-Collections: SRI-ARC NEWNLS; Clerk: JMB;