

To: Stan Cohen

I received a request for more documentation about SPEAKEASY from:

Jim Condie
Div. of Data Processing
Board of Governors
Federal Reserve System
Washington D.C.

737 4171 Ext. 7551.

He also asked if SPEAKEASY could be easily installed at another installation. I said it could. Would you like to contact him?

Ernie

11/28/72

1

EHF 28-NOV-72 9:57 13051

(J13051) 28-NOV-72 9:57; Author(s): Forman, Ernest H./EHF;
Distribution: Cohen, Stanley/SC; Sub-Collections: NIC; Clerk: JI;

JLM 28-NOV-72 7:43 13052

This is a test message, hope it makes it????

1

JLM 28-NOV-72 7:43 13052

(J13052) 28-NOV-72 7:43; Title: Author(s): McNamara, John L./JLM;
Distribution: Stellato, Josephine R., Stone, Duane L./JRS DLS;
Sub-Collections: RADC; Clerk: JLM;

distribution of dm-1 documentation.

the following individuals have recieved dm-1 documentation.

	1
mike landes	2
rome air dev. center	2a
isi	2b
d. f . bergstrom	3
rome air dev. center	3a
isim	3b
fred conway	4
air force logistics command	4a
acdrs	4b
wright patterson afb, dayton, ohio	4c
ms. lorraine mead	5
reliability analysis center	5a
iltri	5b
2 copies provided.	5c
john glore	6
the mitre corp.	6a
481b - airborne command post.	6b
gary sheinfeld	7
electronic systems division / afsc	7a
4851 advanced tac.	7b
a. goel	8
syracuse university	8a
dms modeling and simulation	8b

JRS 28-NOV-72 8:05 13053

distribution of dm-1 documentation.

{J13053} 28-NOV-72 8:05; Title: Author(s): Stellato, Josephine
R./JRS; Distribution: McNamara, John L./JLM; Sub-Collections: RADC;
Clerk: JRS;
Origin: <STELLATO>DMDOC.NLS;1, 28-NOV-72 7:58 JRS ;

KL B 27-NOV-72 22:20 13054

CHANGE UCSD-CC HOST ADDRESS TO #35

WE HAVE MOVED

CHANGE UCSD-CC HOST ADDRESS TO #35

KL B 27-NOV-72 22:20 13054

KL B 27-NOV-72 22:20 13054

CHANGE UCSD-CC HOST ADDRESS TO #35

(J13054) 27-NOV-72 22:20; Title: Author(s): Bowles, Kenneth L./KLB;
Distribution: Watson, Richard W./RWW (PLSE DISTRIBUTE); Sub-Collections:
NIC; Clerk: KLB;

Request for Ideas for Design Review Procedure

Dave Brown drew a picture on the board last wed of one of ARC's problems of establishing and operating a idea and design review procedure to assure that all the various points of view, user, operations, development, analysis etc are coordinated and considered before they are implemented. This is a problem of interest to everybody. Dave wants to help set up such a system as part of the help he is giving ARC. Therefore it is important that anyone with thoughts on the subject try to get them down on paper and into the Journal for dialogue, to Dave, Dick, Charles or Jim. We won't be able to come up with any ultimate solution from the start, I would gues, but we can proceed in stages from where we are to a system which we all undestand and can make work.

Request for Ideas for Design Review Procedure

(J13055) 28-NOV-72 10:44; Title: Author(s): Watson, Richard W./RWW;
Distribution: 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., Page, Cindy, Paxton, William H., Peters, Jeffrey C., Ratliff,
Jake, Row, Barbara E., Riet, Ed K. Van De, Van Nouhuys, Dirk H., Victor,
Kenneth E. (Ken), Wallace, Donald C. (Smokey), Watson, Richard W.,
Andrews, Don I./sri-arc ; Sub-Collections: SRI-ARC SRI-ARC; Clerk: RWW;

Have you tried anything else on the OLS yet? If you want I can get a "NIM" game for you to play. I t needs a little modification first so let me know.

1

JRP 28-NOV-72 12:54 13056

(J13056) 28-NOV-72 12:54; Author(s): Pickens, John R./JRP;
Distribution: Neigus, Nancy J./NJN; Sub-Collections: NIC; Clerk: JRP;

PROGRAM FOR MFA

```

<HARDEMAN>GETRADC.NLS;1, 27-NOV-72 9:37 BAH ;
1

(getrad) Gets those citations where the document was sent to
the IDENT shown in the program find statement [ ]
1a

PROGRAM getradc % gets radc citations from Journal
citation set%
1a1

DECLARE TEXT POINTER sf, subf, sube ;
1a1a

(getradc) PROCEDURE ;
1a1b

    IF FIND !sf SE(sf) < ["1a*"] !subf > ["*b5"] [*]
    !sube THEN IF FIND BETWEEN subf sube
    ([ "RADC"/"RBMS"/"WPB"/"WER"/"RFI"/"FPS"/"TJB2"/"FSL"/
    "RED2"/"RBP"/"MDP"/"JRS"/"JPC"/"JLM"/"JHB"/"TFL"/"DLS
    "/"RKW"/"DAL" ]) THEN
1a1b1

    RETURN(TRUE);
1a1b2

    RETURN END.
1a1b3

FINISH
1a1c

```

BAH 28-NOV-72 14:04 13057

PROGRAM FOR MFA

(J13057) 28-NOV-72 14:04; Title: Author(s): Hardeman, Beauregard
A./BAH; Distribution: Hardeman, Beauregard A./BAH; Sub-Collections:
SRI-ARC; Clerk: BAH;

JCN 28-NOV-72 14:40 13058

Test of the Command Form Method of Submitting a Document

Test fo BAH

1

JCN 28-NOV-72 14:40 13058

Test of the Command Form Method of Submitting a Document

(J13058) 28-NOV-72 14:40; Title: Author(s): Norton, James C./JCN ;
Distribution: Hardeman, Beauregard A., Auerbach, Marilyn F./BAH MFA ;
Sub-Collections: SRI-ARC; Clerk: JCN ;

BAH 28-NOV-72 15:10 13059

RADC GETTER

This is a file that fetches idents belonging to the RADC and/or
RMBS group(s)

RADc GETTER

(getrad) Gets those citations where the document was sent to the
IDENT shown in the program find statement []

1

PROGRAM getradc % gets radc citations from Journal citation
set%

1a

DECLARE TEXT POINTER sf, subf, sube ;

1a1

(getradc) PROCEDURE ;

1a2

IF FIND ↑sf SE(sf) < ["1a*"] ↑subf > ["*b5"] [*] ↑sube
THEN IF FIND BETWEEN subf sube
(["RADc"/"RBMS"/"WPB"/"WER"/"RFI"/"FPS"/"TJB2"/"FSL"/"RE
D2"/"RBP"/"MDP"/"JRS"/"JPC"/"JLM"/"JHB"/"TFL"/"DLS"/"RKW
"/"DAL"]) THEN

1a2a

RETURN(TRUE);

1a2b

RETURN END.

1a2c

FINISH

1a3

BAH 28-NOV-72 15:10 13059

RADC GETTER

(J13059) 28-NOV-72 15:10; Title: Author(s): Hardeman, Beauregard
A./BAH ; Distribution: Hardeman, Beauregard A./bah ; Sub-Collections:
SRI-ARC; Clerk: BAH ;

GE Video Projector

A GE field engineer (Mr Tom Moore) will be here Wed 11/29 to setup and operate the acceptance testing of our new video projector. For most of the day we will be using the 525 TV system (Tasker 12) and the conference room. I will move Tasker 4 (the other conference room station) down to the general console area.

1

GE Video Projector

(J13060) 28-NOV-72 16:50; Title: Author(s): Hardy, Martin E./MEH;
Distribution: 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., Page, Cindy, Paxton, William H., Peters, Jeffrey C., Ratliff,
Jake, Row, Barbara E., Riet, Ed K. Van De, Van Nouhuys, Dirk H., Victor,
Kenneth E. (Ken), Wallace, Donald C. (Smokey), Watson, Richard W.,
Andrews, Don I./SRI-ARC; Sub-Collections: SRI-ARC; Clerk: MEH;

Owens-Illinois Plasma Display

Owens-Illinois new General Manager and Mr Al Cribbs (engineer) and Mr William Petty will be here Mon afternoon 12/3. They will bring our remaining documentation and demo to us our unit. Anybody interested or that has pertinent questions please plan on meeting with them. If you cannot and do have questions please direct them to me and I will do my best to get them answered.

1

Owens-Illinois Plasma Display

(J13061) 28-NOV-72 16:59; Title: Author(s): Hardy, Martin E./MEH;
Distribution: 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., Page, Cindy, Paxton, William H., Peters, Jeffrey C., Ratliff,
Jake, Row, Barbara E., Riet, Ed K. Van De, Van Nouhuys, Dirk H., Victor,
Kenneth E. (Ken), Wallace, Donald C. (Smokey), Watson, Richard W.,
Andrews, Don I./SRI-ARC; Sub-Collections: SRI-ARC; Clerk: MEH;

BAH 28-NOV-72 13:51 13062

SAMPLE MESSAGE

this is a sample message

1

BAH 28-NOV-72 13:51 13062

SAMPLE MESSAGE

(J13062) 28-NOV-72 13:51; Title: Author(s): Hardeman, Beauregard
A./BAH; Distribution: Hardeman, Beauregard A./BAH; Sub-Collections:
SRI-ARC; Clerk: BAH;

DCE 28-NOV-72 14:16 13063

Reporting an error in NIC phone number published in ICCG handout

DCE 28-NOV-72 14:16 13063

Reporting an error in NIC phone number published in ICCC handout

Joe Reid (Univ of Quebec) showed me a copy of the
"Special-Project Handout" given him at ICCC, in which the phone
number for NIC was given as 327-o940, instead of 329-0740.

1

DCE 28-NOV-72 14:16 13063

Reporting an error in NIC phone number published in ICCC handout

(J13063) 28-NOV-72 14:16; Title: Author(s): Engelbart, Douglas
C./DCE ; Distribution: Watson, Richard W., North, Jeanne B., Kahn,
Robert E./rww jbn rek2 ; Sub-Collections: SRI-ARC; Clerk: DCE ;

dirk, i noticed that there has been some change in the output of text to a terminal that is only upper case. in the past upper case characters were indicated by a backslash, but no more. this is true if i use the exec command to change terminal type to 33, or if i use the nls command for shift change. the problem is in searching a file, or editing a file with both upper and lower case characters since i cant tell which is which. is my observation correct and if so what is a solution?

ernie forman

1

EHF 28-NOV-72 13:20 13064

(J13064) 28-NOV-72 13:20; Author(s): Forman, Ernest H./EHF;
Distribution: Van Nouhuys, Dirk H./DVN; Sub-Collections: NIC; Clerk:
EHF;

I received a request from AFTEC for ARPANET information so that they can write a contract with their contractors to employ ARPANET resources for their envisioned use of the ILLIAC under ARPA contract.

could you please send them the following:

1

(1) TENEX Manual=Executive Language

(2) IMP Manual, and

(3) Resource Notebook

please send them to;

Capt. Michael Ondrasek

HQ USAF-AFTAC (TD-2B)

Patrick Air Force Base

Florida 32925

1a

JI 28-NOV-72 14:20 13065

(J13065) 28-NOV-72 14:20; Author(s): Iseli, John/JI; Distribution:
North, Jeanne B./JBN; Sub-Collections: NIC; Clerk: JI;

DVN 29-NOV-72 11:54 13066
BER 5 DEC 72 3:57AM

Around the time of ICCC several people inside and outside ARC commented that we needed such a handout. Comments are appreciated.

(I imagine a double sheet folded once. On the cover is a photograph of someone working at a display, probably bled (that is, the edge of the picture out to the edge of the paper), with the title overprinted. On the inside two pages the text that follows. On the back page the illustration of assimilation described at the end.)

1

The Augmentation Research Center ARC designs and tests a set of tools for knowledge workers.

2

Knowledge workers include government and private administrators, legislators, teachers, computer developers, other system developers, scholars, ... anyone who needs to gather, reorder, or unite information to do his job.

2a

We compare our project to equipping a machinist shop.

2b

The tools are useful in different ways but are united in a single power source, which partly determines the character of the shop; in standards and procedures that allow smooth linking of tools and operation, and in functioning in a single medium.

2b1

Our medium is information, our power source a computer, our linking a unified online system (NLS) and the ways we use it.

2b2

Basic NLS manipulates information mostly in the form of written text.

3

The system displays text on a television screen or a device like a teletype.

3a

We change the information according to a command code by pressing keys on a typewriter keyboard or on the keyset pictured below.

3b

Learning to use basic NLS is about as hard as learning to type.

3c

Parts of our online system include:

4

Management record keeping that automatically displays the current workload of each staff member with schedule or displays all people working on each task, or a variety of other views of current project status.

4a

Our journal system which automatically catalogues and

disseminates documents to off and online users. We use it for documents ranging from ephemeral memos to contract reports.

4b

Mechanisms to edit text and manipulate text and larger blocks of information according to its logical structure and/or content.

4c

Automatic catalogue making. From an entry like a library card, NLS generates various special purpose indices including indices by author, titleword, date of publication, sponsoring organization, and others.

4d

Output to hard copy. A special subcommand language provides the basic tools of the typesetter to arrange the appearance of print on a page. This document was formatted online.

4e

Software development at ARC.

5

In ten years we have developed a series of programming languages, compilers, and compiler/compilers adapted to our long-range goals. In 1968 we developed MOL940, an ALGOL-like language which allowed us to use intellectual tools of NLS to compare our source code and generate documentation automatically. When we moved to another machine, we rewrote the language into L10 which is more independent of the machine it runs in. We are now rewriting NLS into modules of code which transfer control between discrete ports so that part of the system can run on a separate machine.

5a

Hardware

6

NLS now runs on a PDP-10 computer, a medium sized machine, with a Bryant drum, DEC discs and magnetic tape for file storage. Certain special devices developed at ARC are important to users.

6a

Our character generator and television display system.

6a1

The mouse (pictured below), which effortlessly and cheaply moves a spot on the screen. The spot pin points where to begin changes in a file.

6a2

The keyset, which frees the user's right hand to operate the mouse.

6a3

Bootstrapping

7

From the beginning we avoided making a computer system to

solve particular problems. Many computer systems have solved particular problems and proved otherwise useless.

7a

Instead we assumed our development group itself was a sufficiently typical sample of knowledge workers. We have rigorously chosen to depend on NLS as it developed for our daily work whenever it was at all possible. We have frequently modified NLS and discarded parts on the basis of our experience.

7b

Only in the last two years have we begun to test our systems on wider applications. Two important applications are the Network Information Center (NIC) and the software engineering augmentation system (SEAS).

7c

Network Information Center

8

Our largest sponsor is the Defense Research Projects Agency which supports a great deal of work that seeks to apply computers better. That agency has formed a network of computer centers. The machines exchange data and services through telephone lines with a special routing system. Part of ARC serves as an information center for the Network users. Through NLS we make available on and offline the technical and management information concerning the Net.

8a

SEAS

9

NLS is an excellent medium for writing large scale computer code and for creating other information systems. We are in the process of forming a community of system programmers who use NLS to create other systems.

9a

We believe that the general availability of systems like NLS will be of substantial social value.

10

Back page: Three series of pictures running down the back page framed like movie film. On the right the mouse and finger motions; in the center the screen; on the left the keyset and finger motions. Series will show an assimilation between two files with a content analyser filter and have a caption beginning as follows:

11

The ARC display screen may be divided to show and use one through 8 files. A user may move information from one to another as is or with filters that select and rearrange it. In this example information that has been changed since a certain date and contains a certain word is moved from the

DVN 29-NOV-72 11:54 13066
BER 5 DEC 72 3:57AM

left to the right and marked changed. The picture at the left shows the commands entered on the keyset by the left hand. The pictures on the right show the mouse which controls a pointer on the screen and also enters commands. The content analyser pattern was written by an experienced user in a few minutes.

11a

DVN 29-NOV-72 11:54 13066
BER 5 DEC 72 3:57AM

(J13066) 29-NOV-72 11:54; Title: Author(s): Van Nouhuys, Dirk
H./DVN; Distribution: Engelbart, Douglas C., White, James E. (Jim),
Watson, Richard W., Auerbach, Marilyn F., North, Jeanne B., Bass,
Walt/DCE JEW RWW MFA JBN WLB; Sub-Collections: SRI-ARC; Clerk: BER;
Origin: <VANNOUHUYS>NEWBLURB.NLS;3, 29-NOV-72 11:51 BER ;

archived hassles

Dirk,

I tried linking to (journal,9968,) which is the entry on archival, but the file doesn't exist. Does that journal entry explain how to retrieve files when you are not sure of their names? Is a list of filenames kept anywhere, for those of us with weak memories.?

1

DHC 29-NOV-72 10:48 13067

archived hassles

(J13067) 29-NOV-72 10:48; Title: Author(s): Crocker, David H./DHC;
Distribution: Van Nouhuys, Dirk H./DVN; Sub-Collections: NIC; Clerk:
DHC;

A new directive for the Output processor

Dick;

There is a feature the Output Processor does not have which I think could be extremely useful.

It would be a cross between the 'Grab' and the 'PLev' directives. Its function would be to attempt to fit whole branches (or subsets of them) onto the same page. Every time a new branch is begun, the processor would paginate if the entire branch could not fit on that page. If this algorithm is followed exactly, it bypasses the most dangerous aspect of a branch-fitting directive: the branch that is longer than a page.

any thoughts?

1

DHC 29-NOV-72 10:55 13068

A new directive for the Output processor

(J13068) 29-NOV-72 10:55; Title: Author(s): Crocker, David H./DHC;
Distribution: Watson, Richard W./RWW; Sub-Collections: NIC; Clerk: DHC;

No slashes for upper case on 33's (reply to 13064)

Your observation is correct. The change was made during the ICCC conference to please people printing out (but not working with all uppercase printers there. One solution is, get a u/l terminal. But obviously your are right and we will have to change back or do something. I will take it up with the appropriate people tomorrow. As of now there is nothing easy for yo to do.

1

DVN 28-NOV-72 19:47 13069

No slashes for upper case on 33's (reply to 13064)

(J13069) 28-NOV-72 19:47; Title: Author(s): Van Nouhuys, Dirk
H./DVN; Distribution: Irby, Charles H., Forman, Ernest H., Watson,
Richard W./chi ehf rww ; Sub-Collections: SRI-ARC; Clerk: DVN;

Experimental Terminal Table Design

We have a rough estimate from the carpenters that Ken Victor tables (Journl,12485,) would cost about \$150 to build. It is cheaper to build new than modify an old talbe.

1

Jim and I have agreed to build one Ken Victtor table to see how it goes.

2

The carpenters wanted more information than was in your spec. Could you meet with him(Tony McFadden, ex2224) and tell him what you want?

3

DVN 29-NOV-72 9:31 13070

Experimental Terminal Table Design

(J13070) 29-NOV-72 9:31; Title: Author(s): Van Nouhuys, Dirk H./DVN;
Distribution: Victor, Kenneth E. (Ken), Norton, James C., Byrd, Kay
F./kev jcn kfb ; Sub-Collections: SRI-ARC; Clerk: DVN;

this is a request for information on any program(s) available for time series analysis and forecasting, particularly one(s) using the box jenkins approach. if you know of one or more please contact me by nic journal(ident ehf), mail:

ernest forman
mitre corporation
1820 dolley madison blvd.
mc.lean virginia 22101, or phone:

(703) 893-3500 ext. 2317 or 2318.

thank you.

1

EHF 29-NOV-72 9:00 13071

(J13071) 29-NOV-72 9:00; Author(s): Forman, Ernest H./EHF;
Distribution: For expanded distribution of this item, see master copy.;
Sub-Collections: NIC NSAG PI NF; Clerk: EHF;

JI 29-NOV-72 10:13 13072

JEANNE, I HAVE TAKEN OVER THE FUNCTIONS OF J.POWELL
AT MITRE.

please send Mr. Robert Abbott L-379
box 808

Livermore, California 94550

a Resource Notebook, and any summary information available
concerning ARPANET Resources....This request was through Steve
Crocker at ARPA. Thank You.

1

JI 29-NOV-72 10:13 13072

(J13072) 29-NOV-72 10:13; Author(s): Iseli, John/JI; Distribution:
North, Jeanne B./JBN; Sub-Collections: NIC; Clerk: JI;

note

excuse possible preceding garble. I forgot to double a quotation mark and then tried to wipe out the mess, but don't know if it worked. anyway, hi. I've finally gotten "Them to make my dataset into an outside line so I am now using the TIP, which makes it more attractive to check my journal mail on a regular basis, and to try sending some. not only is this a trial mail sending, it is also a warning that I'll be in yr neighborhood next week and will probably come say hello Friday 12/8, even if I will be on vacation. so consider yrself warned. cheers, map

1

MAP 29-NOV-72 10:08 13073

note

(J13073) 29-NOV-72 10:08; Title: Author(s): Padlipsky, Michael
A./MAP; Distribution: White, James E. (Jim)/JEW; Sub-Collections: NIC;
Clerk: MAP;

Response to your Tip gripe

you have been working with all the trouble sites on the net, but we have some of the problems fixed. The Ames-Tip has been giving people trouble for about three weeks now, though it was only reported to us last week. It seems to be a hardware problem, related (possibly) to their having put in a new interface about three weeks ago. We won't know for sure until we load the new Tip version next week. The other problem is USC=ISI which has been experiencing a message number lockup from the Ames-Tip (where messages get out of sequence) for the last 12 hours or so. This was due to a problem with incomplete transmissions, but it has been fixed. This should clear up the response time problem, maybe even for BBN Tenex too. This latter though is often slow due to an exceedingly heavy load. If problems still occur, gripe again.

NJN 29-NOV-72 6:56 13074

Response to your Tip gripe

(J13074) 29-NOV-72 6:56; Title: Author(s): Neigus, Nancy J./NJN;
Distribution: Masinter, Larry M./LMM; Sub-Collections: NIC; Clerk: NJN;

whoops

The journal message I couldn't access this morning is now online.
I guess I had it moved, without knowing it.

It does not, however, tell me how I can overcome my weak memory,
so that part of my previous message still holds. How do I
retrieve a file when I do not remember its name. (i.e., how do I
do a listing of all files archived under a directory?

tnx. D/

1

DHC 29-NOV-72 15:51 13075

whoops

(J13075) 29-NOV-72 15:51; Title: Author(s): Crocker, David H./DHC;
Distribution: Van Nouhuys, Dirk H./DVN; Sub-Collections: NIC; Clerk:
DHC;

Guess we just passed each other this morning... Got your message and glad to have your help. Making L10 smart about full/half word fields is complicated by the fact that the record definition may not be in the file where it is referenced. You might like to look at <andrews,nlsrecord> occasionally. I am interested in finding out about some MPS details, and hope to attend the next MSP meeting.

1

DIA 29-NOV-72 15:24 13076

(J13076) 29-NOV-72 15:24; Title: Author(s): Andrews, Don I./DIA;
Distribution: Deutsch, L. Peter/lpd ; Sub-Collections: SRI-ARC; Clerk:
DIA;

9968 is online, reply to 13067

I just loaded (journal,9968,) with no difficulty. Perhaps you
erred. You can find lists of file that contain catalogs of journal
entries in (nic,locator,2:xmb).

1

DVN 29-NOV-72 14:31 13077

9968 is online, reply to 13067

(J13077) 29-NOV-72 14:31; Title: Author(s): Van Nouhuys, Dirk
H./DVN; Distribution: Crocker, David H./dhe ; Sub-Collections: SRI-ARC;
Clerk: DVN;

How to See Upper Case On Upper Case Only Terminals

The command you are looking for is:
e[execute] sh[ow uppercase ?] y[es]
n[o]

1

DVN 29-NOV-72 16:34 13078

How to See Upper Case On Upper Case Only Terminals

(J13078) 29-NOV-72 16:34; Title: Author(s): Van Nouhuys, Dirk
H./DVN; Distribution: Forman, Ernest H., Irby, Charles H., Watson,
Richard W., Auerbach, Marilyn F., White, James E. (Jim)/ehf chi rww
mfa jew ; Sub-Collections: SRI-ARC; Clerk: DVN;

Your chance to edit post ICCC all-ARC meeting

The transcription of the all-ARC meeting discussing the ICCC has been completed and is posted on the bulletin board next to the yellow phone in the console area. It will be journalized Friday Dec 8. Please make any additions, corrections, edits, etc. before that time. There is also an on line copy (KELLEY,ARC,1:x).

1

Your chance to edit post ICCC all-ARC meeting

(J13079) 29-NOV-72 13:36; Title: Author(s): Kelley, Kirk E./KIRK;
Distribution: 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., Page, Cindy, Paxton, William H., Peters, Jeffrey C., Ratliff,
Jake, Row, Barbara E., Riet, Ed K. Van De, Van Nouhuys, Dirk H., Victor,
Kenneth E. (Ken), Wallace, Donald C. (Smokey), Watson, Richard W.,
Andrews, Don I./SRI-ARC ; Sub-Collections: SRI-ARC; Clerk: KIRK;

KLB 29-NOV-72 16:31 13080

PLEASE INFORM SITES UCSD-CC IS NET#35

PLEASE CHANGE RECORDS TO SHOW UCSD-CC AS NET#35, PLSE CONFIRM
K. BOWLES

1

KLB 29-NOV-72 16:31 13080

PLEASE INFORM SITES UCSD-CC IS NET#35

(J13080) 29-NOV-72 16:31; Title: Author(s): Bowles, Kenneth L./KLB;
Distribution: Watson, Richard W., Bhushan, Abhay K., Bowles, Kenneth
L./RWW AKB KLB; Sub-Collections: NIC; Clerk: KLB;

KLB 29-NOV-72 16:50 13081

JIM TESTING FROM KLB

TESTING JOURNAL SYSTEM TO SEE IF I UNDERSTAND HOW IT WORKS - KLB

1

KLB 29-NOV-72 16:50 13081

JIM TESTING FROM KLB

(J13081) 29-NOV-72 16:50; Title: Author(s): Bowles, Kenneth L./KLB;
Distribution: Madden, James M., Bowles, Kenneth L./JMM KLB;
Sub-Collections: NIC; Clerk: KLB;

Response to (13055,) on the Design Review Procedures we Need

This responds to the following Journal document by RWW:

1

RWW 28-NOV-72 10:44 13055

Request for Ideas for Design Review Procedure

1a

Message: Dave Brown drew a picture on the board last wed of one of ARC's problems of establishing and operating a idea and design review procedure to assure that all the various points of view, user, operations, development, analysis etc are coordinated and considered before they are implemented. This is a problem of interest to everybody. Dave wants to help set up such a system as part of the help he is giving ARC. Therefore it is important that anyone with thoughts on the subject try to get them down on paper and into the Journal for dialogue, to Dave, Dick, Charles or Jim. We won't be able to come up with any ultimate solution from the start, I would gues, but we can proceed in stages from where we are to a system which we all undestand and can make work.

1a1

Comments on the design process in general:

2

To begin, I think we should consider the design process along with the procedures we may develop to implement a smoothly functioning process.

2a

It appears to me that designs for new system features or methodology in ARC will arise out of two basic situations.

2b

These are:

2b1

1. A need or set of needs advanced by various segments of our user community, either from system users themselves or from people involved in service-providing roles.

2b2

2. An idea or set of ideas that have occurred to someone as being of some possible importance to the user community even if no apparent specific need has been found yet.

2b3

(I think these are what DCE has called NP's - needs and possibilities - in many of his notes and comments)

2b4

We need to record information about both types of ideas, so that we may evaluate their relative importance in the overall system development framework priority list.

2c

I view this as the start of the design process:

2c1

Response to (13055,) on the Design Review Procedures we Need

Recording the basic idea of the feature about to enter into the design process and distributing to those who, after gaining an understanding of the idea, can do something about it.

2c1a

Next comes the process of evaluation and priority ranking with the current set of needs and possibilities.

2c2

Then comes the start of the more detailed design work.

2c3

Detailed design work should start from the point of view of the users of the proposed feature, or if it is a feature not to be directly available to users, from the standpoint of the elements in the system that will make use of or be affected by the feature.

2d

A users' guide type of design document should be written. An example of this is the user feature design document for the NLS calculator that EKM is now making.

2d1

This gives those evaluating the feature a pretty good idea what it will do - for themselves as users and for other users whose interests they are representing.

2d1a

The above document should be made available to the various activities in ARC that will be affected by the new feature.

2d2

This may mean broad distribution to all in ARC, perhaps including some non-ARC people, or it may mean limited distribution - perhaps just to programmers, depending on the nature of the feature.

2d2a

It is important that some careful thought be given to the question of who should be involved in the evaluation of the feature design. We need a balance between reviews that include all who can contribute and who will be affected by the design and those who may just be interested, but should not take time to be involved in every such feature design consideration.

2d2b

The design from an internal technical standpoint should proceed after (but sometimes in parallel with?) the development of the user-oriented document.

2d3

This should consider the degree of difficulty in implementation, the effects on other system features, other system features needed for this feature to work effectively, the overall impact on the ARC operation and

Response to (13055,) on the Design Review Procedures we Need

system in terms of cost, time, other feature involvement, etc.

2d3a

Normally, the user feature designs and technical designs should then be evaluated before actual implementation begins.

2d4

It may be necessary for some test code or other early "implementations" to be written during the design phase. This seems ok if it doesn't result in shortcutting a solid decision to implement the feature as designed.

2d4a

There seems to be a real need for most ARC programmers to have the freedom to proceed to design and build a few features that are not planned in the manner outlined above.

2d5

This also seems ok to me, as long as these features are not taking more than some reasonable predetermined set of resources, as long as they are visible to others - to avoid duplication and conflict - and as long as they are carried out in a logical, thorough manner consistent with the above points.

2d5a

The main point here is that the programmers (and others) should be able to direct occasionally extreme enthusiasm toward projects of their own choosing and making as often as possible, as long as the results are pointed in the direction of ARC's goals and the work is done in a professional manner.

2d5b

This obviously needs some more thought -- very drafty

2d5c

After the decision to proceed with full scale implementation, and as implementation is proceeding, it is important that the implementer(s) make frequent reference to the agreed upon design document so that the resulting implementation is consistent with it or so that any significant inconsistencies may be brought to the attention of the design review team.

2d6

When the implementation is complete, the process of checkout should follow, making use of the original design as modified during the implementation, to see that the feature works as advertised.

2d7

I think we need some GOOD EXAMPLES of design documents available to designers in ARC, so that we all know what we mean by the term "design document".

2e

Response to (13055,) on the Design Review Procedures we Need

Some past reluctance of designers to document what they were working on stemmed from their lack of knowledge of what was needed.

2e1

Some of those who went ahead and tried to document, produced documents that didn't really do the job, and therefore they were discouraged about the process, needlessly.

2e2

Having good examples of such documents, will also make the process easier and more efficient.

2e3

The Design Review Team concept still seems to be a good one. Let's keep it going, but more consistently.

2f

The pusher concept also seems good to me. This means having one person responsible for getting the job done, even though there may be several people actually contributing to the work.

2g

This applies to the design producing work as well as to the implementation.

2g1

When we consider setting up procedures for the approval of designs for new features, we need take note of the fact that although we have set up major activities such as Development, Analysis, Delivery, Operations, etc., most of us actually perform these functions at lower levels independent of the higher level organization in our daily work.

2h

I'm saying we all perform analysis, make delivery studies and decisions.

2h1

When setting up approval procedures, we need to deal only with those decisions that really have to be made by higher-level organizational elements.

2h2

We need a flow chart showing the NP-recording/design/implementation/checkout/acceptance process to help those involved in the process make it flow smoothly.

2i

It is essential that we develop and use a system of collecting and modifying the list of current needs and possibilities.

2j

Good ideas need early evaluation and disposition action to permit early benefits to accrue from their use and to

Response to (13055,) on the Design Review Procedures we Need

encourage the idea-givers to continue to offer needs and possibilities to the process.

2J1

Response to (13055,) on the Design Review Procedures we Need

(J13083) 30-NOV-72 10:28; Title: Author(s): Norton, James C./JCN ;
Distribution: 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., Page, Cindy, Paxton, William H., Peters, Jeffrey C., Ratliff,
Jake, Row, Barbara E., Riet, Ed K. Van De, Van Nouhuys, Dirk H., Victor,
Kenneth E. (Ken), Wallace, Donald C. (Smokey), Watson, Richard W.,
Andrews, Don I., Brown, David R./SRI-ARC DRB (for info) ;
Sub-Collections: SRI-ARC; Clerk: JCN ;
Origin: <NORTON>DESIGN.NLS;1, 30-NOV-72 10:22 JCN ; HJOURNAL="
JCN 5 DEC 72 5:02AM 13083";

Response to (12425,) on Resource Notebook - Future Plans

Jake:

1

I have read your excellent Journal document (12425,). This is just the type of thinking and communicating we are trying to encourage.

1a

Your collection of ideas, opinions, etc. really gives much for our ARC readers (and perhaps others?) to think about AND HOPEFULLY TO ACT UPON SOON.

1a1

You deserve lots of Journal-recorded feedback from those involved with the problems you outlined.

1a2

Some of what you are commenting on is not directly in my own area of responsibility, but I do have some reactions I would like to pass on to you here. Items closest to my interests are marked with: ***

1b

(INTERFACE PROBLEMS)

2

*** (QUERY INTERFACE)

(12425,3A)

2a

1. I feel that resource data should be stored in plexes not limited by level--even if the query control programs must be changed to allow this. The use of links and viewspecs is preferable to formatting with CR and SPACES, TABS, etc. Information to be suppressed might be handled with content analyzer and special codes for suppression.

2a1

2. re(12425,3a1d1) -- numbered options sound good in Query, but how to implement?

2a2

3. Linking directly from Query sounds Good. How to implement remains --

2a3

4. Filespace will definitely be made available for needed Query and other NIC files. The ICCC period was not a normal situation, with very limited filespace and confusion. I hope we don't get into that kind of a situation again. We're trying not to do so.

2a4

*** (DIRECTORY INTERFACE)

(12425,3B)

2b

1. An IDENTFILE EDITOR role seems appropriate. DVN can help here with assignment. IDENTs entered by users should stay in the running system. What we need is review of new/changed items and correction by the Editor, I think.

2b1

Response to (12425,) on Resource Notebook - Future Plans

2. Links in Query may help automatic updates of personnel section. Either that, or frequent processing by PSO to transfer data.

2b2

*** (SYNTAX)

(12425,3C)

2c

Common syntax is desireable. We're better than you imply. MFA is working on this. A guidelines paper is a GOOD idea. See MFA with ideas.

2c1

*** (MISCELLANEOUS PROBLEMS)

(12425,3D)

2d

1. I want to hear more about your update problem. I don't understand why you have a problem.

2d1

2. Yes, its time for old resource stuff to be deleted (with RWW ok) from locator. Who handles? DVN/MFA/you?

2d2

3. We're working on NLS resource allocation problems. P. Rech is active here.

2d3

(CONTENT CHANGES)

3

(USER-PROGRAMS)

(12425,4A)

3a

This appears to be open (and RWW's) problem. Good luck.

3a1

(PROGRAMS-TABLE)

(12425,4B)

3b

An L10 program may help create such a table from the base data. CH/RWW may be able to help get proper attention to this.

3b1

(EQUIPMENT TABLE)

(12425,4C)

3c

Your problem. Get data into database and L-10 formatter may help here too when you're ready.

3c1

(INTRODUCTION)

(12425,4D)

3d

I agree here. Seems simple to do.

3d1

(USER-ONLY SITE DESCRIPTIONS)

(12425,4E)

3e

I agree here. Seems simple to do.

3e1

(TIP-ACCESS)

(12425,4F)

3f

Response to (12425,) on Resource Notebook - Future Plans

Is TIP access really common?		3f1
(FUNCTION STATEMENT)	(12425,4G)	3g
I agree here. Seems simple to do.		3g1
(CONTROL CHARACTERS)	(12425,4H)	3h
(ADMINISTRATIVE PROCEDURES)	(12425,4I)	3i
We really need a statement from ARPA about these questions. RWW should secure them -- or JEW?		3i1
(SCENARIOS)	(12425,4J)	3j
Good to have -- See Metcalf's dumped ICCG files? How to keep up-to-date -- Hard to do consistently. Will sites really cooperate. I hope so.		3j1
(ORGANIZATION AND FORMAT)		4
(PROGRAM TABLE)	(12425,5A)	4a
Needed - hard to keep up. The general question of keeping complex data up-to-date in the server site. Cooperation needs system and NIC management attention.		4a1
(EQUIPMENT TABLE)	(12425,5B)	4b
Needed - hard to keep up. The general question of keeping complex data up-to-date in the server site. Cooperation needs system and NIC management attention.		4b1
(NETWORK-CONSIDERATIONS)	(12425,5C)	4c
Yes, fix it, if others agree		4c1
(ACCOUNT PARAMETERS)	(12425,5D)	4d
Noted. Seems logical		4d1
(DESCRIPTIONS)	(12425,5E)	4e
Control o does this, doesn't it?		4e1
(STATEMENT NAMES)	(12425,5F)	4f
Statement name delimiters can be defined to be NULL. This		

might help, although some programming help is needed to make such declaration apply to new statements added later to a file.

4f1

(SCENARIOS)

(12425,5G)

4g

These should be part of the Resource Notebook. File size question again raises its ugly head. Perhaps with the links in query we're ok?

4g1

(USER NEEDS AND FEEDBACK)

5

(SITE WRITEUP APPROVAL)

(12425,6A)

5a

I suggest 3. (6a2c), but it's up to you NIC guys.

5a1

(USER NEED FEEDBACK)

(12425,6B)

5b

1. Making monthly summaries of SNDMESSAGES, phone calls, can result from procedures NIC PSO can set up to capture the info and enter it. Sounds like a good idea, at least for a try. DVN/Susan Lee can do this I think.

5b1

2. MFA may be the one to help consider users group stuff.

5b2

3. JEW can help get accounts? RWW?

5b3

*** (EDITING)

(12425,7)

6

Agree on procedures with DVN here and go at it. PSO needs to make visible procedures for this process--influenced by DPCS ideas (WLB?).

6a

(DOCUMENTATION)

7

(ACQUISITION)

(12425,8A)

7a

Get ARPA help if real problems continue. Be sure to contact right influential site people. Set dates and follow up.

7a1

(MICROFILM)

(12425,8B)

7b

Good. If we use it ourselves it will help.

7b1

(INTERLIBRARY LOAN)

(12425,8C)

7c

NIC policy needed on this, for sure. Our funds are
"limited" as far as large jobs are concerned.

7c1

(INDEXING)

(12425,9)

8

1. Statement name to right option would help.

8a

2. Also, serial statement number as an option might be
considered. Like statements 1, 2, 3, 4, 5 etc regardless of
structure. One simple way might be to reformat with leading
spaces for structure and force through collector-sorter to
collapse actual structure.

8b

NOTE: I have just discovered SID's and the new NLS viewspecs
for displaying them.

8c

I made a program that sends out the SID at the right. This
could be useful in making a non-statement number reference,
but many other system uses of statement numbers need to be
considered before we use very universally.

8c1

(PRINTING AND DISSEMINATION)

9

*** (PRINTING)
(12425,10A)

9a

COM maybe closer than you think. How about reviewing the
best NDM/WLB now have to offer and see if first Resource
Notebook can use COM?

9a1

(LAYOUT AND FORMAT)

(12425,10B)

9b

Blast ahead. Who is in charge here? JAKE or JBN? Or is
it a team? RWW should settle.

9b1

(DISSEMINATION)

(12425,10C)

9c

The first set should be as inclusive as possible for all
sites, then send completed parts out site by site?

9c1

(PRIORITIES)

(12425,11)

10

1. Good ordering -- your NIC problem.

10a

2. It's sure a long list. Better make some time estimates
and task assignments. Call for more help where needed.

10b

JCN 5-DEC-72 9:16 13084

Response to (12425,) on Resource Notebook - Future Plans

(J13084) 5-DEC-72 9:16; Title: Author(s): Norton, James C./JCN ;
Distribution: Feinler, Elizabeth J. (Jake), Engelbart, Douglas C.,
Watson, Richard W., Kudlick, Michael D., Auerbach, Marilyn F., Bass,
Walt, Hardeman, Beauregard A., Hopper, J. D., Irby, Charles H., Kelley,
Kirk E., Lane, Linda L., Lehtman, Harvey G., Meyer, N. Dean, North,
Jeanne B., Rech, Paul, Row, Barbara E., Vallee, Jacques F., Van Nouhuys,
Dirk H., White, James E. (Jim), Kaye, Diane S./JAKE DCE RWW MDK MFA
WLB BAH JDH CHI KIRK LLL HGL NDM JBN PR BER JFV DVN JEW
DSK ; Sub-Collections: SRI-ARC NIC ; Clerk: JCN ;
Origin: <NORTON>RJAKE.NLS;5, 5-DEC-72 8:54 JCN ; HJOURNAL=" JCN
6 DEC 72 5:01AM 13084";

BC 8-DEC-72 12:45 13085
Organizational Changes in the Augmentation Research Center

For your information

BC 8-DEC-72 12:45 13085
Organizational Changes in the Augmentation Research Center

TO: ISE Staff, Management Committee, and DATE: 22 NOV 72
Research Operations Committee
FROM: Bonnar Cox
SUBJECT: Organizational Changes in the cc: U.H. Faubion
Augmentation Research Center H.L. Kolberg
J.G. Rubenson

It is my pleasure to announce the appointment of J. C. Norton and R. W. Watson as Assistant Directors of the Augmentation Research Center (ARC) in support of the present Director, Dr. D. C. Engelbart. The appointment is effective 26 November 1972. The ARC is now considering many challenging possibilities for the future development of its evolving "Knowledge-Workers' Workshop" and its introduction into the work environments of communities of future users of such systems. The above appointments should enable a more orderly future development of ARC activities and more effective management of its operational functions.

Working jointly with Dr. Engelbart, Messrs. Norton and Watson will have duties inclusive of personnel administration, budget preparation, project supervision, and ongoing client liaison. Jim Norton will bear prime responsibility for operations (both ARC and utility) along with special projects in which the emphasis is on workshop integration into other groups' work environments.

Dick Watson will bear primary responsibility for development, analysis activity and special projects related to the establishment and development of on-line communities.

A number of management, personnel, and promotional activities will be shared, by their very nature, by Messrs. Engelbart, Watson, and Norton working as a management team. I know that every present member of ARC as well as SRI personnel who interact with the Center will work in support of these new assignments.

B. Cox

BC:es

BC 8-DEC-72 12:45 13085
Organizational Changes in the Augmentation Research Center

(J13085) 8-DEC-72 12:45; Title: Author(s): Cox, Bonnar/BC ;
Distribution: Engelbart, Douglas C., Watson, Richard W., Norton, James
C., Stone, Duane L., McNamara, John L., Bethke, William P., Roberts,
Lawrence G., Blue, Allan G., Dolan, Bruce A., Showalter, A. Kenneth/EMC
(Other ARC people received a copy of Bart's memo directly) DLS JLM WPB
LGR AGB BAD AKS ; Sub-Collections: SRI-ARC EMC; Clerk: JCN ;
Origin: <NORTON>COXMEMO.NLS;1, 8-DEC-72 12:30 JCN ;HJOURNAL="BC
22 NOV 72 13085";

JCN RWW 8-DEC-72 12:54 13086
The New ARC Management Structure

RWW 12 DEC 72 4:32AM 13086";

INTRODUCTION

1

After a series of discussions between Doug Engelbart, Dave Brown, Bart Cox, and Don Scheuch and between them and other ARC people, a new line management structure for the Augmentation Research Center has been established.

1a

This organization was announced and discussed in an ARC meeting held on Wednesday, November 21.

1b

Jim Norton and Dick Watson have been appointed Assistant Directors for ARC, reporting to Doug Engelbart, Director. (see B. Cox announcement -- 13085,)

1c

They will carry out most of the line management functions for the Center, relieving Doug of these duties and permitting him to concentrate on longer range strategies and plans and on system development architectural efforts.

1c1

ARC FUNCTIONAL ORGANIZATION

2

For the purpose of structuring our new responsibilities, we use the following breakdown of the various line management functions of ARC:

2a

Jim Norton will be responsible for:

2b

Operations

2b1

ARC Operations

2b1a

Administrative Activities

2b1a1

Computer Service Operations (CSO) - Hardware

2b1a2

Computer Service Operations (CSO) - Software

2b1a3

Computer Service Operations (CSO) - Operators

2b1a4

People Service Operations (PSO)

2b1a5

User Interface

2b1a6

Utility Operations

2b1b

Administrative Activities

2b1b1

Computer Service Operations (CSO) - Software

2b1b2

People Service Operations (PSO)

2b1b3

User Interface

2b1b4

Special Projects

2b2

Workshop integration into other groups' work environment

2b2a

Such as: the current RADC project 1894, potential ARPA office, Office of Telecommunications, NBS/NSF projects, etc.

2b2a1

Dick Watson will be responsible for:

2c

Development - system components such as:

2c1

Dialog Support System (DSS)	2c1a
Documentation Production and Control System (DPCS)	2c1b
System Developers Intelligence System (SDIS)	2c1c
Baseline Record System (BRS)	2c1d
Software Engineering Augmentation System (SEAS)	2c1e
System Developers Handbook System (SDHS)	2c1f
Basic NLS and TENEX System Features	2c1g
Delivery activity	2c1h
Analysis activity	2c2
Special Projects	2c3
Establishment and development of online communities	2c3a
The Network Information Center (NIC)	2c3b

Certain personnel and promotional activities will be shared by RWW and JCN as a team. These still need to be worked out in more detail. One of the key activities of this nature will be salary administration. Others are the conduct of our promotional efforts, and coordination of the Personal and Organizational Development Activity (PODAC).

2d

We feel that each ARC staff member should have a "home" where he knows he can get help and attention on professional development, personal problems, etc. even though most of our ARC people are actually working in many different activities in the Center.

2e

Accordingly, we have made the following division in prime assignment of management responsibility for individual staff members. This division was made on the basis that most of the person's work is expected to be in the area of either JCN's or RWW's responsibility.

2e1

to JCN:

M. F. Auerbach	2e2
K. F. Byrd	2e2a
W. R. Ferguson	2e2b
B. A. Hardeman	2e2c
M. E. Hardy	2e2d
M. E. Jernigan	2e2e
K. Kelley	2e2f
L. L. Lane	2e2g
J. C. Peters	2e2h
J. Ratliff	2e2i
B. E. Row	2e2j
E. K. Van De Riet	2e2k
D. H. van Nouhuys	2e2l
K. E. Victor	2e2m
	2e2n

D. C. Wallace	2e2o
to RWW:	2e3
D. I. Andrews	2e3a
W. L. Bass	2e3b
C. F. Dornbush	2e3c
E. J. Feinler	2e3d
C. S. Hoffman	2e3e
J. D. Hopper	2e3f
C. H. Irby	2e3g
D. S. Kaye	2e3h
M. D. Kudlick	2e3i
S. R. Lee	2e3j
H. G. Lehtman	2e3k
N. D. Meyer	2e3l
E. J. Michael	2e3m
J. B. North	2e3n
P. Rech	2e3o
J. F. Vallee	2e3p

The Executive Management Committee (EMC) will continue to exist with the membership being: DCE RWW JCN. 2f

This will be the primary forum for DCE as the ARC Director to interact with the ARC line management on policy matters. 2f1

The New ARC Management Structure

(J13086) 8-DEC-72 12:54; Title: Author(s): Norton, James C., Watson, Richard W./JCN RWW ; Distribution: Agent, Station, 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., Page, Cindy, Paxton, William H., Peters, Jeffrey C., Ratliff, Jake, Row, Barbara E., Van De Riet, Edwin K. (Ed), Van Nouhuys, Dirk H., Victor, Kenneth E. (Ken), Wallace, Donald C. (Smokey), Watson, Richard W., Andrews, Don I., Stone, Duane L., Bethke, William P., McNamara, John L., Roberts, Lawrence G., Blue, Allan G., Dolan, Bruce A., Showalter, A. Kenneth/SRI-ARC DLS WPE JLM LGR AGB BAD AKS ; Sub-Collections: SRI-ARC; Clerk: JCN ; Origin: <NORTON>MGT.NLS;60, 8-DEC-72 12:20 JCN ; HJOURNAL="JCN

DCE 30-NOV-72 11:20 13087

Visit Log: 28 Nov 72, Joseph Reid and group from Quebec
University, Quebec Ministry of Education, and Quebec Ministry of
Communications

Visit Log: 28 Nov 72, Joseph Reid and group from Quebec University, Quebec Ministry of Education, and Quebec Ministry of Communications

Visitor list:

Joseph B. Reid, Coordonnateur des programmes aux communications, Universite du Quebec.

1

1a

Yves Methot, Adjoint au Directeur, Service de l'Informatique, du Ministere de l'Education

1b

Denis Cloutier, Analyste de Systemes, Service de l'Informatique, du Ministere de l'Education

1c

Robert Caciuc, Service Intercentres, Transmission des Donnees, Ministere des Communications

1d

Herb Bez, Responsable du Systeme, Servie de l'Informatique, Universite du Quebec.

1e

We met Reid at the ICCG; he arranged this visit subsequently by phone call and letter (XDOC -- 12840,).

2

They arrived at about 0900, stayed until about 1715. Initial discussion with DCE, an hour on DNLS with MDK, an hour on NIC with RWW, lunch with RWW, PR and JEW, about another hour with RWW, then about three and a half hours with DCE. JBN showed them NIC operations material and work/storage areas, and discussed document acquisition, cataloging, and dissemination. (Reid promised Jeanne that he would send copies of their reports to her, on microfiche).

3

Reid let me xerox a published thinkpiece describing their tentative plans for establishing some Quebec and Canadian computer-network experiments (see XDOC -- 12838,), as well as their current-state proposal for support of same (see XDOC -- 12839,). They were particularly interested in NIC; and also were quite interested in the NLS Utility and the Community Services Support scheme (see my memo -- 12380,).

4

Apparently they plan to utilize ARPANET technology directly in their Quebec Network. The Canadian University Network (CANUNET) is presently planning to develop Canadian technology.

4a

I gave them copies of the following references: OSR1, 3954 (FJCC reprint), 5255 (dinosaur paper), 10480 (Innovation article), 12380 (Community information services), 12427

Visit Log: 28 Nov 72, Joseph Reid and group from Quebec University, Quebec Ministry of Education, and Quebec Ministry of Communications

(Knowledge-Workshop Architects Community), and the RADC70 report, plus the ARC publications list.

5

We supplied an L10 manual (9246,), and an extra copy of the RADC70 report, to Cloutier -- MFA promised to send further Tree Meta documentation to him.

5a

I covered a good part of the strategy and particulars behind both 12380 and 12427. Also about SEAS (as a special, intentional community that we wanted to form). Reid is interested in such; showed me G.M Weinbwrq's article in Datamation for Nov 72 (pp. 82-85, XDOC -- 12837,)

6

I got the impression that they were anyway considering linking into the ARPANET, and might well consider subscribing to our NLS Utility; either for general getting-acquainted use, or in support of one or more network information centers of their own. An interesting point here is that Quebec-Network NIC dialogue would be in French, which would produce among other things an immediate need for expanding the character set to include the accent mark.

7

Dick's information is more specific:

8

"They were interested in what a minimum NIC (probably off line) would consist of. For their 2-node Quebec network, they are thinking of something like \$75K budget for a NIC.

8a

"A strong motivation for using ARPANET technology in the Quebec Network is to connect to ARPANET so that they can access systems such as ours.

8b

"The Canadian government has a strong nationalistic bent and is urging the use of Canadian technology. The provinces and federal government have overlapping charters in the communications area, and apparently a strong rivalry exists -- thus the motivation for a separate Quebec network trying to get on the air first with ARPANET technology."

8c

Dick also promised to set them up as a "Network Associate" (what used to be called "List B"), with Joe Reid as the contact man. But other than MFA's promise of more documents to Cloutier, there is no action expected on our part. We hope to hear further from them; and I think that we should keep them informed of the subscription arrangements for our NLS Utility.

9

DCE 30-NOV-72 11:20 13087

Visit Log: 28 Nov 72, Joseph Reid and group from Quebec
University, Quebec Ministry of Education, and Quebec Ministry of
Communications

(J13087) 30-NOV-72 11:20; Title: Author(s): Engelbart, Douglas
C./DCE ; Distribution: Watson, Richard W., Norton, James C., Brown,
David R., Rech, Paul, Kudlick, Michael D./rww jcn drb pr mdk ;
Sub-Collections: SRI-ARC; Clerk: DCE ;

Substitution command

Dick;

another bothersome suggestion:

giving a TNLS user the option of having the Substitute Command echo the changes made (the context, if not the whole statement). Having the substitutions count is helpful, but the other would be useful sometimes.

1

DHC 30-NOV-72 10:25 13088

Substitution command

(J13088) 30-NOV-72 10:25; Title: Author(s): Crocker, David H./DHC;
Distribution: Watson, Richard W./RWW; Sub-Collections: NIC; Clerk: DHC;

How to learn all the files archived from a given directory

To list all the files archived for a single directory:

@ interrogate *.*;#CR

To discover the tape number of a file or ask that it be recalled, you must then interrogate for that single fil as a second step. In the cas of journal files you will get a very long list, and I think the catalogs are more useful placesto search.

1

DVN 30-NOV-72 8:31 13089

How to learn all the files archived from a given directory

(J13089) 30-NOV-72 8:31; Title: Author(s): Van Nouhuys, Dirk
H./DVN; Distribution: Crocker, David H., Auerbach, Marilyn F., Lawrence,
Thomas F./dnc mfa (fodder for folklore) tfl (sometimes I answer
questions from net users with little instructions like this. I thought
you might be interessted) ; Sub-Collections: SRI-ARC; Clerk: DVN;

Marilyn Auerbach Plans to Come to Rome

Following linking and phone conversationss with Duane, Marilyn is planning to come the 13th and 14th of December. You have probably already seen her plan in (journal,12882,) She will probably talk to you on the phone soon about details.

1

DVN 30-NOV-72 8:39 13090

Marilyn Auerbach Plans to Come to Rome

(J13090) 30-NOV-72 8:39; Title: Author(s): Van Nouhuys, Dirk
H./DVN; Distribution: Auerbach, Marilyn F., Lawrence, Thomas F./mfa tfl
; Sub-Collections: RADC ; Clerk: DVN;