

Communique from the Cedar 9 -- 2 Feb.

Greetings!!

We had a nice meeting in the SRI cafeteria (which turns out not to be such a bad place).

There was a "Report from PODCom". There was surprise at the revelation that the PODCom members would NOT serve as a communication device FROM Doug to the PODs.

We discussed the hour of our meeting. It looks like it will remain the same -- 1:00 PM Wednesdays.

Jeff Peters will be our second PODCom member.

We're unhappy about the PODnes of PODCom. We would rather have it a place/mechanism where issues/gripes/suggestions were brought to Doug's attention and then something got (started to be) done about them.

We discussed news and gossip from/about the other PODs.

We discussed PSO and PSST.

There seems to be an unresolved question as to whether Dan Cohn had a clear (understood by him) mandate to organize PSO.

Jeanne North (with support from others) expressed a strong desire that PSO have a loose structure -- not a verticle hierarchy thing, but well known and well followed rules and procedures and scheduling are cool. This would make PSO a lot more like the other "groups" at ARC.

It was suggested that PSO be left alone to work out their own procedures, etc.

PSO would like the stigma of second class citizenship removed. There is a clerical job to do (just like there are other jobs to do) and they're the specialists at it and will get it done.

The name PSO was objected to.

It should be true that whatever structure/procedures there are, nobody (Jim and Doug) should circumvent them.

It should be known that Linda Lane now has the responsibility of keeping track of the terminals taken home (but she hasn't much control over them). People should cooperate with her.

Communique from the Cedar 9 -- 2 Feb.

We would like a policy change. PSO people CAN use the displays when they are available (they're free and response isn't too bad). In fact they should be encouraged to use them (like in the mornings).

10

BLP 2-FEB-72 22:49 8773

Communique from the Cedar 9 -- 2 Feb.

(J8773) 2-FEB-72 22:49; Title: Author(s): Bruce L. Parsley/BLP;
Distribution: Paul Rech, Michael D. Kudlick, Donald R. Cone, Don Limuti,
William R. Ferguson, Priscilla Lister, Robert L. Dendy, Linda L. Lane,
Marilyn F. Auerbach, Walter L. Bass, Mary S. Church, William S. Duvall,
Douglas C. Engelbart, Beauregard A. Hardeman, Martin E. Hardy, J. D.
Hopper, Charles H. Irby, Mil E. Jernigan, Harvey G. Lehtman, John T.
Melvin, Jeanne B. North, James C. Norton, Cindy Page, Bruce L. Parsley,
William H. Paxton, Jeffrey C. Peters, Jake Ratliff, Barbara E. Row, Ed
K. Van De Riet, Dirk H. van Nounhuys, Kenneth E. Victor, Don C. Wallace,
Richard W. Watson, Don I. Andrews/SRI-ARC; Sub-Collections: SRI-ARC;
Clerk: BLP;
Origin: <PARSLEY>CEDAR2FEB.NLS;2, 2-FEB-72 22:47 BLP ;

New ARC Journal Indices Note to ARC (to 28 JCN 72)

We now have an up-to-date (as of 28 JAN 72) set of ARC JOURNAL INDICES.

by number: (8713,)

by author: (8714,)

by titleword: (8715,)

We are working on a procedure for making weekly (maybe daily?) update indices - for quick reference to new items either on or off-line. One such is in (8696,). The catalog production update system WLB is completing will allow us to keep current. We also plan to add the author's name to the titleword index soon as has been suggested by several people. Any other ideas for improvement of the format, index set, or the process are welcome.

1

New ARC Journal Indices Note to ARC (to 28 JCN 72)

(J8774) 3-FEB-72 5:49; Title: Author(s): James C. Norton/JCN;
Distribution: Paul Rech, Michael D. Kudlick, Donald R. Cone, Don Limuti,
William R. Ferguson, Priscilla Lister, Robert L. Dendy, Linda L. Lane,
Marilyn F. Auerbach, Walter L. Bass, Mary S. Church, William S. Duvall,
Douglas C. Engelbart, Beauregard A. Hardeman, Martin E. Hardy, J. D.
Hopper, Charles H. Irby, Mil E. Jernigan, Harvey G. Lehtman, John T.
Melvin, Jeanne B. North, James C. Norton, Cindy Page, Bruce L. Parsley,
William H. Paxton, Jeffrey C. Peters, Jake Ratliff, Barbara E. Row, Ed
K. Van De Riet, Dirk H. van Nouhuys, Kenneth E. Victor, Don C. Wallace,
Richard W. Watson, Don I. Andrews/SRI-ARC; Sub-Collections: SRI-ARC;
Clerk: JCN;

update regarding ddt flushing

the following code supercedes the code in my previous memo regarding flushing of ddt

1

;FLUSH DDT AND SYMBOL TABLE AND MAKE PAGES AVAILABLE FOR SWAPPING

1a

EXTERN MAKPGA

1b
1b1

DDTFSH: PUSH P,2

;SAVE REGISTERS

1c
1d

PUSH P,1

1d1

SETZM DBUGSW

1d2

SETZM DCHKSW

1d3

SETZM SWPSTP

1d4

MOVE 1, /HALT 100/

1d5

MOVEM 1,100

1d6

MOVE 2,SWPCOR

;ALREADY FLUSHED ?

1d7

CAMN 2,MONCOR

1d8

JRST DDTFSR

;YES

1d9

SUB 2,MONCOR

1d10

MOVNS 2

1d11

HRLZ 2,2

1d12

HRR 2,MONCOR

1d13

HRRZM 2,SWPCOR

1d14

HRRZ 1,2

1d15

CALL MAKPGA

;FREE THE PAGE

1d16

AOBJN 2,.-2

;LOOP TILL ALL FREE

1d17

KEV 3-FEB-72 9:26 8775

update regarding dat flushing

DDTFSR:	POP P,1	;RESTORE REGISTERS	1e
	POP P,2		1e1
RET		;RETURN	1e2

update regarding ddt flushing

(J8775) 3-FEB-72 9:26; Title: Author(s): Kenneth E. Victor/KEV;
Distribution: Bob Van Tyul, Jeanne B. North, Robert L. Dendy, John T.
Melvin, Kenneth E. Victor, John W. McConnell, Peggy M. Karp, Dan L.
Murphy, Rod M. Fredrickson, Peter H. Lipman, Don C. Wallace, Carl M.
Ellison, Ted R. Strollo/TUG; Sub-Collections: SRI-ARC TUG; Clerk: KEV;
Origin: <VICTOR>NEWDDT.NLS;2, 3-FEB-72 9:08 KEV ;

clean tables

it would be nice if when people are finished using displays they would remove their junk from the adjoining worktable. thus when a new user comes to the station he can have a work area

1

clean tables

(J8776) 3-FEB-72 10:17; Title: Author(s): Kenneth E. Victor/KEV;
Distribution: Paul Rech, Michael D. Kudlick, Donald R. Cone, Don Limuti,
William R. Ferguson, Priscilla Lister, Robert L. Dendy, Linda L. Lane,
Marilyn F. Auerbach, Walter L. Bass, Mary S. Church, William S. Duvall,
Douglas C. Engelbart, Beauregard A. Hardeman, Martin E. Hardy, J. D.
Hopper, Charles H. Irby, Mil E. Jernigan, Harvey G. Lehtman, John T.
Melvin, Jeanne B. North, James C. Norton, Cindy Page, Bruce L. Parsley,
William H. Paxton, Jeffrey C. Peters, Jake Ratliff, Barbara E. Row, Ed
K. Van De Riet, Dirk H. van Nouhuys, Kenneth E. Victor, Don C. Wallace,
Richard W. Watson, Don I. Andrews/SRI-ARC; Sub-Collections: SRI-ARC;
Clerk: KEV;

BLP 3-FEB-72 10:41 8777

The Output Processor Rides Again!!!!

A new Output Processor will be brought up Monday noon.

Please let me (BLP) know of any problems.

1

(J8777) 3-FEB-72 10:41; Title: Author(s): Bruce L. Parsley/BLP;
Distribution: Paul Rech, Michael D. Kudlick, Donald R. Cone, Don Limuti,
William R. Ferguson, Priscilla Lister, Robert L. Dendy, Linda L. Lane,
Marilyn F. Auerbach, Walter L. Bass, Mary S. Church, William S. Duvall,
Douglas C. Engelbart, Beauregard A. Hardeman, Martin E. Hardy, J. D.
Hopper, Charles H. Irby, Mil E. Jernigan, Harvey G. Lehtman, John T.
Melvin, Jeanne B. North, James C. Norton, Cindy Page, Bruce L. Parsley,
William H. Paxton, Jeffrey C. Peters, Jake Ratliff, Barbara E. Row, Ed
K. Van De Riet, Dirk H. van Nouhuys, Kenneth E. Victor, Don C. Wallace,
Richard W. Watson, Don I. Andrews/SRI-ARC; Sub-Collections: SRI-ARC;
Clerk: BLP;

Some Questions for ARC

Like just about everyone else at ARC these days I'm trying to get my head straight on what ARC is doing, where its going etc..

1

One of the problems which has bothered me since coming to ARC has been trying to understand what we mean by an augmentation system, and what are the products of our work.

2

I have heard the following expressed as one goal, that we are trying to evolve principles and practices of augmentation system design. This cannot be a very major goal because nowhere have the principles and practices developed over the last eight or so years been clearly summarized, generalized, and expressed.

2a

The ARC reports are generally agreed by all I have discussed them with, except for the 1962 report which started the work, uniformly poor and of limited use to others who would set out to do work in this area. Plans for the "Handbook" may alter the above, and maybe starting with our next report we can improve the reports.

2a1

Another goal often mentioned is to create a working prototype of an augmentation system.

3

This definition doesn't help much as it essentially says that an augmentation system is what we have which may not be an augmentation system at all as far as others might judge and certainly doesn't help understand what an augmentation system is or ought to be.

3a

Another cut at defining what we mean by augmentation systems is to say it's a system with features of NIC, DSS, PDCS, PBMS, SEAS, Handbook, RINS.

4

This is certainly a start, but we must remember that just about everyone else in the computer and information business could claim they are working on augmentation systems, many of which integrate computers, methods, procedures to solve problems that are as or more pressing and complex in business, government, etc. than anything we are doing.

4a

There are, for example, computer based management record systems which help people keep track of tasks and resources for projects orders of magnitude larger than ours;

4a1

there are computer based editing, composing, publishing systems in use by groups like TIME-LIFE or TV networks,

Some Questions for ARC

etc. much more sophisticated than anything we have even begun to think about;

4a2

there are in common use information storage and retrieval, and generalized data management systems much more developed with integrated microfilm capabilities, query capabilities much more sophisticated than anything we have;

4a3

there are lots of people developing compiler-compilers, thinking about and implementing modular programming systems, using source language debugging, higher level system programming languages, incremental compilation;

4a4

there are very sophisticated systems for entering and routing text messages over computer networks, and certainly lots of simple online message systems;

4a5

there are dozens of text editors, many with strong adherents, most much cheaper to use, maybe even more cost effective for much work than ours;

4a6

there are lots of information centers of various types, many surviving with satisfied paying customers.

4a7

The point of the above is the question, what's our real contribution, why should the galaxy, as WLB likes to say, keep feeding us energy units?

5

Besides having invented the mouse and keyset, and having demonstrated the power of tree structured text files for editing and viewing, what else have we done or are we doing really unique or better than others and what can we keep doing better than others?

5a

It certainly isn't our present approach to the design of integrated computer systems, procedures, methods, etc. as a look at our problems in producing a set of catalog indices from a mere 1000 citations or a directory from a couple hundred entries when the rest of the world is able to handle input and output of 10⁶ entry files with equal ease.

5b

There are tens of thousands of people building computer and computer-people systems and there are only about 30 of us.

6

If we disappeared would it make any difference? If so, by how much and why?

6a

I do not have any good answers to the above questions. I think

Some Questions for ARG

there probably are answers which, if we could write them down clearly, would be very valuable. My own view is that while we're presently strong in limited areas like editing and viewing our strength and present leadership is in our concept of an integrated set of capabilities properly user interfaced.

7

To have said this is still not to have said much, what could we write worth the millions poured into this project to guide others, have we really worked on the right things, is a general purpose system really useful, what are the problems of effectively using such a system, why is it that most of us use only a small percent of NLS's present capabilities, how do we do a better job of integrating the energy and talent of those other tens of thousands into our work more effectively than to date.

7a

The above type of question would seem candidates for POD discussion and need some kind of answer over the next few months. Any thoughts anyone has which could help me get a clear picture of the above would be appreciated.

8

9

Some Questions for ARC

(J8778) 3-FEB-72 10:58; Title: Author(s): Richard W. Watson/RWW;
Distribution: Paul Rech, Michael D. Kudlick, Donald R. Cone, Don Limuti,
William R. Ferguson, Priscilla Lister, Robert L. Dendy, Linda L. Lane,
Marilyn F. Auerbach, Walter L. Bass, Mary S. Church, William S. Duvall,
Douglas C. Engelbart, Beauregard A. Hardeman, Martin E. Hardy, J. D.
Hopper, Charles H. Irby, Mil E. Jernigan, Harvey G. Lehtman, John T.
Melvin, Jeanne B. North, James C. Norton, Cindy Page, Bruce L. Parsley,
William H. Paxton, Jeffrey C. Peters, Jake Ratliff, Barbara E. Row, Ed
K. Van De Riet, Dirk H. van Nouhuys, Kenneth E. Victor, Don C. Wallace,
Richard W. Watson, Don I. Andrews/SRI-ARC; Sub-Collections: SRI-ARC
SRI-ARC; Clerk: RWW;

ttymods

(J8779) 3-FEB-72 10:58; Title: Author(s): Kenneth E. Victor/KEV;
 Distribution: Bob Van Tyul, Jeanne B. North, Robert L. Dendy, John T.
 Melvin, Kenneth E. Victor, John W. McConnell, Peggy M. Karp, Dan L.
 Murphy, Rod M. Fredrickson, Peter H. Lipman, Don C. Wallace, Carl M.
 Ellison, Ted R. Strollo/TUG; Sub-Collections: SRI-ARC TUG; Clerk: KEV;
 Origin: <VICTOR>TTYMODS.NLS;1, 3-FEB-72 10:55 KEV ;

ttymods

With all the modifications we hae made to the teletype driver to handle our displays (and imlacs) for nls we have found it necessary to remove parity bits sooner than they are currently being removed for non-binary lines

1

to do this insert the following code after the conditional assembly statements at TTNET1 in TTYSRV:

1a

MOVS 3,TTFLGS(2)

1a1

TLNE 3,3B29

;IN BINARY MODE ?

1a2

ANDI 1,177

;NO, REMOVE PARITY BIT

1a3

a test of the journal

Testing. testing. One, three, four, seven, hup. Hello to the East coast. Steve, getting used to having upper case on a tty is painful. At least this thing has a backspace key, so that I don't have to always hit control-D. Well, I think that should be an adequate waste of your time for now. Talk to you later. Hello to Peggy.

1

DHC 3-FEB-72 11:43 8780

a test of the journal

(J8780) 3-FEB-72 11:43; Title: Author(s): David H Crocker/DHC;
Distribution: Steve D. Crocker/SDC2(please respond); Sub-Collections:
NIC; Clerk: DHC;

Response to ARC IMLAC order

This is the first time the journal has actually worked for me, ie, I actually received a reply to a journal entry.---things are looking up.

1

Reference (8756,) the file (stone,imlac) is an old one and relatively obsolete now. The one I attempted to send was (stone,imspec) which was destroyed in my directory and in the journal. Its not worth reconstructing now. The following options in (stone,imlac) are not really needed:

2

CAB-1 since we are no longer going to use modems

2a

CAB-2 since the cable delivered with the system allows the keyboard to be moved a significant distance away from the CRT.

2b

IEI-1 since the GMI-1 option includes the interface to the PDS-1D, the mouse and the keyset.

2c

SII-1 since this is now delivered as part of the basic PDS-1D unit.

2d

HCI-1 since it does not provide a full size copy of the image on the screen--also it can be added later if we change our minds.

2e

The CON-1 option is still required on one of the units.

3

Do not expect a new RFQ from Paul D. Just respond to the existing one with Execuport 310's, the new IMLAC configuration and the Temicette recorders (even though you're not quite certain about them at this time). Paul will simply send your quote over to me and ask if the exceptions you have taken to the original RFQ are acceptable. I will say yes and the process of signing a contract will keep rolling. I'm not sure why the RFQ you have now is marked "DRAFT" however I will check with Paul---I presume it was done to speed up the procurement cycle not because changes were expected.

4

In the contractual agreement that you sign with IMLAC, make sure that they are held responsible for terminating the hardwired connection between the IMLAC and the TIP--ie, we want them to guarantee that the connection as well as the IMLAC itself works properly after the installation has been completed.

5

DLS 3-FEB-72 11:48 8781

Response to ARC IMLAG order

(J8781) 3-FEB-72 11:48; Title: Author(s): Duane L. Stone/DLS;
Distribution: James C. Norton/JCN; Sub-Collections: NIC; Clerk: DLS;
Origin: <STONE>RESP.NLS;1, 3-FEB-72 11:40 DLS ;

Network Malfunctions

Complaints about Network Behavior

DMCG

1

1a

Uses link 1

1a1

LL67

1b

Improper implementation of "reverse break" which includes sending data marks (x'80') without the INS. Should not use data mark or INS, but if insist on reverse break should use code x'81'.

1b1

Insists that user send server a null character before conversation will begin.

1b2

BBN

1c

The signon sequence at BBN was changed on 2Feb72 such that the "free" network user,password dosent work.

1c1

JBP 3-FEB-72 13:31 8783

Network Malfunctions

(J8783) 3-FEB-72 13:31; Title: Author(s): Jonathan B Postel/JBP;
Distribution: Jeanne B. North, Bruce A. Dolan, Alex A. McKenzie, John T.
Melvin, Robert M. Metcalfe, Robert E. Kahn, Richard B. Kalin, Jonathan B
Postel, Peggy M. Karp, James E. White, Steve D. Crocker/NF;
Sub-Collections: NIC NF; Clerk: JBP;
Origin: <UCLA-NMC>NEWS.NLS;2, 3-FEB-72 13:29 JBP ;

Remote Job Entry Protocol Meeting

RJE Protocol Meeting

1

This is to inform you of a small meeting to be held at UCLA on 25Feb72 to discuss Remote Job Entry Protocols for the ARPA Network. Only those who wish to contribute to the specification of the protocols should attend. Please contact Jon Postel (JBP) at Ucla if you plan to attend. If you know of someone who should be invited please contact Jon about that too. (phone 213 8252368).

1a

JBP 3-FEB-72 13:50 8784

Remote Job Entry Protocol Meeting

(J8784) 3-FEB-72 13:50; Title: Author(s): Jonathan B Postel/JBP;
Distribution: Jeanne B. North, Bruce A. Dolan, Alex A. McKenzie, John T.
Melvin, Robert M. Metcalfe, Robert E. Kahn, Richard B. Kalin, Jonathan B
Postel, Peggy M. Karp, James E. White, Steve D. Crocker, Robert T.
Braden/NF RTB; Sub-Collections: NIC NF; Clerk: JBP;

Another View of What Superwatch is Saying

Don, A quick note to record in the journal my reaction expressed to you on the phone to your item (8761,) on what Superwatch is seeing.

1

It seems a little early for the pessimism expressed there about what we can achieve with further system tuning (tenex and nls). We have just gotten to the point with your excellent superwatch program of really being able to see in some detail what's going on and to be able to answer the hard questions of explaining what we see.

2

According to the superwatch numbers given we are spending up to 25% of our time in scheduler type functions and another 20-25% in functions attributable to memory management tasks or problems. Thus we are only getting about half the machine for user programs. Further I assume part of that user time is taken by tasks of a system like nature such as OPIM(up to 7%?).

3

The user time is also taken up by tasks such as recreae display etc again of a system like nature. Thus real user computing is probably quite low.

4

The upshot of the above is my feeling that we are at a place where there probably aren't any single big places to gain in Tenex, but that we can make enough improvements to pick up another 20% for the user. Analysis of NLS should also allow us to streamline a few places without sacrificing NLS's flexible structure needed for its ongoing evolution by teams of people.

5

I agree tha we need to realize that we're never going to support a hunred users on our present sytem and thus should be studying other mechanisms for expansion besides tuning, but it still seems we are just now ready for some further good tuning efforts which you and MDK will be making along with other studies during the next few months.

6

Another View of What Superwatch is Saying

(J8785) 3-FEB-72 14:07; Title: Author(s): Richard W. Watson/RWW;
Distribution: Walter L. Bass, William S. Duvall, Mary S. Church, J. D.
Hopper, Charles H. Irby, Harvey G. Lehtman, John T. Melvin, Bruce L.
Parsley, William H. Paxton, Michael D. Kudlick, James C. Norton, Douglas
C. Engelbart, Ed K. Van De Riet, Don C. Wallace, Kenneth E. Victor/NPG
MDK JCN DCE EKV DCW KEV; Sub-Collections: SRI-ARC NPG; Clerk: RWW;

REDWOOD POD - 2 3 FEB '72 Meeting Notes

REDWOOD POD - 2 BURGESS PARK 3 FEB '72 All peas in attendance,
plus the main stem!

1

1. Discussion of 1 vs 2 who for PODCOM rep - Selected Bill
Duvall, with Marilyn Auerbach (previously selected) - there
seemed to be consensus that reps should be reconsidered at 4 to 6
week periods.

2

2. DCE requested that POD's take over indoctrination of new
people into ARC.

3

3. Review of PODCOM-1 Minutes

4

a. Long discussion of work hours and problem of auditor
concern. The question of individuals voluntarily recording
their weekly work periods for a 4 to 6 week period, and the
ramifications of doing so were pursued. DCE agreed to
determine the value of such a record to SRI management.

4a

b. Continued discussion of PSO supervision and of the name
PSO; its membership and functions.

4b

4. Mike Kudlick asked if the NLS 5 link rings could be stored
and retrieved to provide reconstruction of prior thinking and
sequence of actions. He agreed to write up a Baseline New Task.

5

5. Discussion of DCE interruptions, primarily via telephone;
suggestion that telephone interception (and visitor and other
interruptions) be provided if agreeable to him.

6

6. Next meeting, Thursday, 10 February, 3-5 plus p.m.

7

Don Cone, Sect'y pro tem MFA's finger

7a

DRC 3-FEB-72 14:51 8786

REDWOOD POD - 2 3 FEB '72 Meeting Notes

(J8786) 3-FEB-72 14:51; Title: Author(s): Donald R. Cone/DRC;
Distribution: Don I. Andrews, Marilyn F. Auerbach, Donald R. Cone,
Robert L. Dendy, William S. Duvall, Charles H. Irby, Michael D. Kudlick,
Barbara E. Row, Douglas C. Engelbart/RED DCE; Keywords: redwood pod;
Sub-Collections: SRI-ARC RED; Clerk: BER;
Origin: <ROW>REDWOODPOD.NLS;1, 3-FEB-72 14:49 BER ;

Identfile Problems (BBN-NET)

Dear Joel:

1

Mimi had to recreate the entry for BBN-Net last night. She also fixed the bug which deleted it.

2

You can change delivery to hardcopy for the members of your group any time now.

3

Thanks for letting us know about the problem.

4

Barbara Row

5

BER 4-FEB-72 7:38 8788

Identfile Problems (BBN-NET)

(J8788) 4-FEB-72 7:38; Title: Author(s): Barbara E. Row/BER;
Distribution: Joel B. Levin, Mary S. Church/JBL MSC; Sub-Collections:
NIC; Clerk: BER;
Origin: <ROW>LEVIN.NLS;1, 4-FEB-72 7:35 BER ;

KEV 4-FEB-72 9:26 8789

STRMT ERROR

The error number for the STRXI error return from the STRMT jsys
(set terminal type) is now 600754.

1

STRMT ERROR

(J8789) 4-FEB-72 9:26; Title: Author(s): Kenneth E. Victor/KEV;
Distribution: Diane S. Kaye, Paul Rech, Michael D. Kudlick, Donald R.
Cone, Don Limuti, William R. Ferguson, Priscilla Lister, Robert L.
Dendy, Linda L. Lane, Marilyn F. Auerbach, Walter L. Bass, Mary S.
Church, William S. Duvall, Douglas C. Engelbart, Beauregard A. Hardeman,
Martin E. Hardy, J. D. Hopper, Charles H. Irby, Mil E. Jernigan, Harvey
G. Lehtman, John T. Melvin, Jeanne B. North, James C. Norton, Cindy
Page, Bruce L. Parsley, William H. Paxton, Jeffrey C. Peters, Jake
Ratliff, Barbara E. Row, Ed K. Van De Riet, Dirk H. van Nouhuys, Kenneth
E. Victor, Don C. Wallace, Richard W. Watson, Don I. Andrews/SRI-ARC;
Sub-Collections: SRI-ARC; Clerk: PL;

Account numbers and other things

Dick, are we still supposed to use account 3?
Also, I connected to nic yesterday and found myself already
logged
in as somebody else. Charley.

1

CSK 4-FEB-72 12:23 8790

Account numbers and other things

(J8790) 4-FEB-72 12:23; Title: Author(s): Chuck S. Kline/CSK;
Distribution: Richard W. Watson/RWW; Sub-Collections: NIC; Clerk: CSK;

WLB 4-FEB-72 15:07 8791

Please don't permit the printer program to persist in pinging on particular people

Ken -- Would you consider changing the PRINTER program so that it assigns priority to jobs on the basis of longevity in the queue, shortness of length, or some other basis that does not pimp on individuals with idents near the end of the alphabet? Thanks --
WLB

1

WLB 4-FEB-72 15:07 8791

Please don't permit the printer program to persist in pimping on particular people

(J8791) 4-FEB-72 15:07; Title: Author(s): Walter L. Bass/WLB;
Distribution: Kenneth E. Victor/KEV; Sub-Collections: SRI-ARC; Clerk:
WLB;

Printer Etiquette

Some people -- I'm not pointing the accusing finger at anyone in particular as we are all guilty occasionally -- have the nasty habit of initiating the printing of long (i.e., 50, 100, or more pages) documents on the line printer without checking to see how the job is going. This leaves other people to clear up paper jams, reload paper into the printer, and cool their heels while waiting for short proof copies which they have a right to expect short turn around time on. It seems that if a big print job is not important enough to an individual for him to babysit the printer while waiting for it, it certainly isn't important enough to the poor sap who gets the baby dumped in his lap, and the job should be deferred until a non-busy time of the day -- or at least other people should be warned that the printer is going to be unavailable for a indeterminate length of time. Thanks -- a poor sap

Printer Etiquette

(J8792) 4-FEB-72 15:21; Title: Author(s): Walter L. Bass/WLB;
Distribution: Diane S. Kaye, Paul Rech, Michael D. Kudlick, Donald R.
Cone, Don Limuti, William R. Ferguson, Priscilla Lister, Robert L.
Dendy, Linda L. Lane, Marilyn F. Auerbach, Walter L. Bass, Mary S.
Church, William S. Duvall, Douglas C. Engelbart, Beauregard A. Hardeman,
Martin E. Hardy, J. D. Hopper, Charles H. Irby, Mil E. Jernigan, Harvey
G. Lehtman, John T. Melvin, Jeanne B. North, James C. Norton, Cindy
Page, Bruce L. Parsley, William H. Paxton, Jeffrey C. Peters, Jake
Ratliff, Barbara E. Row, Ed K. Van De Riet, Dirk H. van Nouhuys, Kenneth
E. Victor, Don C. Wallace, Richard W. Watson, Don I. Andrews/SRI-ARC;
Sub-Collections: SRI-ARC; Clerk: WLB;

Notes on CIRAD visit

CIRAD visit notes

1

Dr. Overton of CIRAD visited DCE, CHI, and MSC on 3-FEB to discuss the possibility of our working with them in fulfillment of their contract to study computer aids to software maintenance. This was a follow-on to earlier visits and communiques.

1a

Dr. Overton explained that although their contract has been accepted verbally they had not received the written approval yet and consequently were not yet really working on the development of the approach and experiments they wished to use.

1a1

They intend to study four interrelated areas -- see NIC 8622

1a2

sensory interaction,

1a2a

grouping,

1a2b

path analysis,

1a2c

and a metrics of maintainability.

1a2d

Further discussion indicated that our system would not be particularly amenable to the grouping and path analysis experiments, but would be good for some sensory interaction experiments or observations. They want to send a person for two days to learn more about our system, techniques, and methodology so that they can determine the feasibility of their proposed experiments. This will also give us some insight into how much we might gain from this interaction and how much of our energy we would have to spend. We cannot afford much.

1a2e

There are three main reasons for CIRAD's interest in working with us.

1a2f

Political and economical: their sponsor, Dr. Goodenough, would like them to work with us if possible. There may be other political reasons or justifications also between Goodenough and Doug also, says Overton.

1a2f1

They see our system and approach as the wave of the future and want to participate.

1a2f2

Notes on CIRAD visit

Dr. Overton has spent a good deal of time working on text editors and wants to find out what ours is like. 1a2f3

We agreed to have their person, Mrs. Larkin Viegel, come up Monday and Tuesday and will be hosted by Diane Kaye. They prefer to observe new people. Diane will profit from the experience of trying to explain the system to and discussing the problems in learning the system with someone else. Most likely it would require too much of their and our energy to actually see this thing through. We will decide after Mrs. Veigel's stay here. 1a3

Notes on CIRAD visit

(J8793) 4-FEB-72 16:08; Title: Author(s): Charles H. Irby/CHI;
Distribution: Diane S. Kaye, Paul Rech, Michael D. Kudlick, Donald R.
Cone, Don Limuti, William R. Ferguson, Priscilla Lister, Robert L.
Dendy, Linda L. Lane, Marilyn F. Auerbach, Walter L. Bass, Mary S.
Church, William S. Duvall, Douglas C. Engelbart, Beauregard A. Hardeman,
Martin E. Hardy, J. D. Hopper, Charles H. Irby, Mil E. Jernigan, Harvey
G. Lehtman, John T. Melvin, Jeanne B. North, James C. Norton, Cindy
Page, Bruce L. Parsley, William H. Paxton, Jeffrey C. Peters, Jake
Ratliff, Barbara E. Row, Ed K. Van De Riet, Dirk H. van Nouhuys, Kenneth
E. Victor, Don C. Wallace, Richard W. Watson, Don I. Andrews/SRI-ARC;
Sub-Collections: SRI-ARC; Clerk: CHI;

RJE Meeting

RJE Protocol Meeting

1

This is to inform you of a small meeting to be held at UCLA on 25Feb72 to discuss Remote Job Entry Protocols for the ARPA Network. Only those who wish to contribute to the specification of the protocols should attend. Please contact Jon Postel (JBP) at Ucla if you plan to attend. If you know of someone who should be invited please contact Jon about that too. (phone 213 8252368).

1a

JBP 4-FEB-72 16:57 8795

RJE Meeting

(J8795) 4-FEB-72 16:57; Title: Author(s): Jonathan B Postel/JBP;
Distribution: Charles Holland/CH; Sub-Collections: NIC; Clerk: JBP;

Acknowledgement of Identfile stuff

Dear Barbara,

I have successfully made the changes in the BBN-NET Ident files and those of our users. would you please make sure that they and user MFK are appropriately verified. Thanx much for your help.

Joel

1

JBL 6-FEB-72 13:49 8796

Acknowledgement of Identfile stuff

(J8796) 6-FEB-72 13:49; Title: Author(s): Joel B. Levin/JBL;
Distribution: Barbara E. Row/BER; Sub-Collections: NIC; Clerk: JBL;

Exec 1.32.03

EXEC BLURB

1

EXEC 1.32.03 (BBN Version 1.32, ARC Version 3) contains a number of new features and changes.

1a

Access restriction mechanism

1a1

A load limiting restriction has been implemented in the EXEC based on the Response Index, which is a measure of system load computed by the SCHEDULER

1a1a

The algorithm prohibits LOGIN on a loaded system, subject to certain additional conditions (see following)

1a1b

The algorithm is:

1a1c

if the Response Index is within the acceptable range, then proceed with LOGIN

1a1c1

if the Response Index is not within the acceptable range, then

1a1c2

if the user trying to log in is a local (non-network) user, then disallow login

1a1c2a

if the user trying to log in is a network user then

1a1c2b

if the number of current network users is less than the maximum permitted at the current Response Index, then proceed with login

1a1c2b1

if the number of current network users is greater than or equal to the maximum permitted at the current Response Index, then disallow login

1a1c2b2

IMPORTANT NOTE --- only LOGIN is prohibited.

1a1d

It is assumed that the rejected user will try again later

1a1e

The Response Index limits determining the go or no-go are operator settable and based on samples taken by the system

1a1f

New Commands

1a2

Exec 1.32.03

INDEX	1a2a
prints the current Response Index on the controlling terminal	1a2a1
does not require login	1a2a2
LOGSTAT	1a2b
prints the current Response Index and system accessibility (status of LOGIN command) on the controlling terminal	1a2b1
does not require login	1a2b2
DISCUSE	1a2c
this is now an EXEC command, replacing <SUBSYS>DISCUSE.SAV	1a2c1
does not require login	1a2c2
NETSTATUS	1a2d
an EXEC subsystem call which runs <SUBSYS>NETSTAT.SAV	1a2d1
this subsys is in the process of being upgraded considerably, to include dynamic probing of network sites to determine their status	1a2d1a
the (upgraded) subsys will become an exec command sometime in the future	1a2d1b
available for network users	1a2d2
does not require LOGIN	1a2d3
Changed Commands	1a3
SYSTAT	1a3a
includes response index	1a3a1
LINK	1a3b
LOGIN no longer required	1a3b1
TYPE	1a3c

Exec 1.32.03

now available for network users	1a3c1
SAVE and SSAVE	1a3d
prompt text changed to clarify core and page limits	1a3d1
Internal Changes	1a4
Assembled into the EXEC are the system dependent parameters	1a4a
net tty lines begin at 45	1a4a1
max num net users when loaded is 4	1a4a2
CNDX2 fix for CONNECT	1a4b
improper compare in CONNECT code	1a4b1
AUTOLOGOUT fix	1a4c
duration change to 1 minute and 1 minute for time since initial TC and no activity respectively	1a4c1
EXEC subsys commands	1a4d
removed PUSHs and POPs at .NLS and .NETSTAT	1a4d1

Exec 1.32.03

(J8798) 6-FEB-72 23:27; Title: Author(s): John T. Melvin/JTM;
Distribution: Diane S. Kaye, Paul Rech, Michael D. Kudlick, Donald R.
Cone, Don Limuti, William R. Ferguson, Priscilla Lister, Robert L.
Dendy, Linda L. Lane, Marilyn F. Auerbach, Walter L. Bass, Mary S.
Church, William S. Duvall, Douglas C. Engelbart, Beauregard A. Hardeman,
Martin E. Hardy, J. D. Hopper, Charles H. Irby, Mil E. Jernigan, Harvey
G. Lehtman, John T. Melvin, Jeanne B. North, James C. Norton, Cindy
Page, Bruce L. Parsley, William H. Paxton, Jeffrey C. Peters, Jake
Ratliff, Barbara E. Row, Ed K. Van De Riet, Dirk H. van Nouhuys, Kenneth
E. Victor, Don C. Wallace, Richard W. Watson, Don I. Andrews/SRI-ARC;
Sub-Collections: SRI-ARC; Clerk: JTM;

Program for determining proper startup of Journal Background
Process

A Program has been written which allows an operator to determine
the proper value of LIBFLG for starting the Background Journal
process.

1

To run the program, simply do a
@RUN <JOURNAL>JSTART.SAV;0

2

It will type out one of these messages:

3

LIBFLG = 1

3a

LIBFLG = 2

3b

which reflects the proper value of libflg.

4

Note that the operator should still make sure that background is
not already running before starting it up.

5

WSD 7-FEB-72 9:52 8799

Program for determining proper startup of Journal Background
Process

(J8799) 7-FEB-72 9:52; Title: Author(s): William S. Duvall/WSD;
Distribution: William R. Ferguson, J. D. Hopper, Richard W. Watson,
James C. Norton, Don C. Wallace, Kenneth E. Victor/WRF JDH RWW JCN DCW
KEV; Sub-Collections: SRI-ARC; Clerk: WSD;

Some Comments on New EXEC

John....The new exec has some nice stuff in it.

1

I have two questions:

2

(a) Is it possible for a local user to log in as, for example, SYSTEM even if the load average is too high.

2a

I feel that this may be a necessity for 'patching Up' functions (e.g. when the Journal or OPIM are down, it may be necessary to log in to fix them).

2a1

(b) On Autologout, does it log you out even if you are typing stuff??.

2b

If it does, the value of linking without being logged it (which is high) is reduced.

2b1

Some Comments on New EXEC

(J8800) 7-FEB-72 10:06; Title: Author(s): William S. Duvall/WSD;
Distribution: John T. Melvin, Don C. Wallace, Kenneth E. Victor, Don I.
Andrews, Walter L. Bass, William S. Duvall, Mary S. Church, J. D.
Hopper, Charles H. Irby, Harvey G. Lehtman, John T. Melvin, Bruce L.
Parsley, William H. Paxton/JTM DCW KEV NPG; Sub-Collections: SRI-ARC
NPG; Clerk: WSD;

EMC Meeting Notes -- 31-JAN

EMC meeting notes for 31-jan

1

disc limitation by directory

1a

A disc limitation per directory was put into effect on Wednesday, 2-FEB-72. KEV and DCW will field complaints and requests for more space.

1a1

scheduling

1b

The need to put into effect the scheduling suggested in (Journal, 8513,) is getting very great. CHI will re-send and post the proposed schedule and say that, unless there is good reason to the contrary, it will be put into effect on Wednesday, 9-FEB.

1b1

RWW suggested the need for a "quicky" terminal, which would be used for short sessions, say no longer than fifteen minutes.

1b2

That is, one is bumpable after fifteen minutes at the console, and one should not use the quicky console for long sessions unless no other terminal is available.

1b2a

auto logout

1c

The EMC felt it was reasonable for the auto-logout job to leave dedicated terminals alone. These terminals will tend to screw up the accounting picture, so until some reasonable way of getting an accurate picture of use of these terminals comes along, they will be removed from the accounting of connect time.

1c1

The only lines affected by this seems to be Andrews' and Duvall's dedicated lines. Are there any others?

1c1a

EKV will look into auto-hangup for our dial in lines.

1c2

hardcopy removal

1d

All ARC people will no longer receive hardCopy Journal delivery unless they negotiate to get it back.

1d1

Frequency and duration of EMC meetings

1e

Thursday meetings will be limited to 1 hour for discussion of trivia, with the rest of the meeting spent on major issues and planning.

1e1

EMC Meeting Notes -- 31-JAN

Ralph Prather -- early morning operator

lf

He started Wednesday morning, 2-FEB. The tenex guys will train him. He is a sophomore studying computer science.

lf1

beepers

lg

Tone and/or voice receivers cost \$300 (purchase price). We can have the last channel in SRI's transmitter down stairs if we want. EKV will order one and reserve the transmitter channel. If they are very useful we can get more receivers.

lg1

privacy issue in emc meeting notes

lh

RWW feels that emc should be allowed to discuss things in private, as any group should. We will in the future review our meeting notes so that potentially sensitive things can be filtered out. We felt that personnel issues should be discussed only if the person involved wants them discussed. There was some feeling that EMC meetings should not be open to visitors, that things should be made clear in accurate notes. This issue does not seem settled yet and may be a non-issue.

lh1

space

li

ARC is borrowing offices for Mike Kudlick and Paul Rech.

li1

If we wish we can have the one Mike Kudlick has.

li2

MSC, BLP documentation

lj

It was felt that, since they are leaving, Bruce and Mimi should be approached to see if they are documenting things that only they know about in the system. CHI said he would talk to them.

lj1

EMC Meeting Notes -- 31-JAN

(J8801) 7-FEB-72 10:23; Title: Author(s): Charles H. Irby/CHI;
Distribution: Diane S. Kaye, Paul Rech, Michael D. Kudlick, Donald R.
Cone, Don Limuti, William R. Ferguson, Priscilla Lister, Robert L.
Dendy, Linda L. Lane, Marilyn F. Auerbach, Walter L. Bass, Mary S.
Church, William S. Duvall, Douglas C. Engelbart, Beauregard A. Hardeman,
Martin E. Hardy, J. D. Hopper, Charles H. Irby, Mil E. Jernigan, Harvey
G. Lehtman, John T. Melvin, Jeanne B. North, James C. Norton, Cindy
Page, Bruce L. Parsley, William H. Paxton, Jeffrey C. Peters, Jake
Ratliff, Barbara E. Row, Ed K. Van De Riet, Dirk H. van Nouhuys, Kenneth
E. Victor, Don C. Wallace, Richard W. Watson, Don I. Andrews/SRI-ARC;
Sub-Collections: SRI-ARC; Clerk: CHI;
Origin: <IRBY>EMC-MINUTES.NLS;18, 7-FEB-72 8:56 CHI ;

Weeding files -- to Connie Rosewall at UCSB and other Station Agents

Connie has asked about weeding the files of old RFG's and other outdated material. If your Site Liaison agrees, it's a good idea to get rid of all papers shown in the Current Catalog to be obsolete. Some of these show up in the Number Index as (obsoleted by xxxx). Others which only announce meetings you are free to purge as you wish.

1

JBN 7-FEB-72 10:42 8902

Weeding files -- to Connie Rosewall at UCSB and other Station Agents

(J8902) 7-FEB-72 10:42; Title: Author(s): Jeanne B. North/JBN;
Distribution: Gennie Cederholm, Dorothy A. Reynolds, Charles Holland,
Jeanne B. North, Pam J. Klotz, Charles Holland, Nancy R. Teater, Marcia
D. Trager, Barbara Barnett, Glen Grazier, Ernest H. Forman, Cindy Page,
Rilla J. Reynolds, Stan Golding, Steve G. Chipman, John P. Barden,
Martha A. Ginsberg, Bradley A. Reussow, Frances Y. Knight, Shirley W.
Watkins, Marcelle D. Petell, Linda M. Connelly, Janet W. Troxel, Carol
J. Wilkinson, Imogen C. Beattie, Connie D. Rosewall, Linda M. Webster,
Anita L. Coley, Carol J. Mostrom, Richard W. Watson, Jeanne B.
North/NSAG RWW NICSTA; Sub-Collections: SRI-ARC NSAG NICSTA; Clerk: PL;

JBL 7-FEB-72 11:34 8903

funny extra partial copies

Just out of curiosity, what evils will occur if I were to remove from our directory the partial copies prefixed by '(JOURNAL)' that are haunting us?

1

JBL 7-FEB-72 11:34 8903

funny extra partial copies

(J8903) 7-FEB-72 11:34; Title: Author(s): Joel B. Levin/JBL;
Distribution: John T. Melvin/JTM; Sub-Collections: NIC; Clerk: JBL;

Reply to WSD about EXEC 1.32.03

Duvall Reply

1

Bill,

1a

When the system is loaded, only LOGIN is prohibited, so if you have to, attach to one of the background jobs or advise some line

1a1

Coming Soon: a way around the restriction based on some criteria (like who you are or whether or not you know the command), and another way based on line numbers e.g. should at least always be able to get in on operator's console and a few others

1a1a

I'm certainly ready for any and all suggestions

1a1b

Autologout

1a2

the algorithm is (or should be--ill check it if i get time or if you can verify for sure that its not working properly)

1a2a

autologout occurs in top-level EXEC When job is not logged in and:

1a2a1

1) EXEC returns to command input and at least X1 seconds have elapsed since was started for this user, or

1a2a1a

2) X2 seconds have elapsed since startup of this user and there has been no teletype activity of any kind for X3 seconds

1a2a1b

current settings are: x1=120 x2=60 x3=60 (all decimal)

1a2a2

Reply to WSD about EXEC 1.32.03

(J8904) 7-FEB-72 13:39; Title: Author(s): John T. Melvin/JTM;
Distribution: Diane S. Kaye, Paul Rech, Michael D. Kudlick, Donald R.
Cone, Don Limuti, William R. Ferguson, Priscilla Lister, Robert L.
Dendy, Linda L. Lane, Marilyn F. Auerbach, Walter L. Bass, Mary S.
Church, William S. Duvall, Douglas C. Engelbart, Beauregard A. Hardeman,
Martin E. Hardy, J. D. Hopper, Charles H. Irby, Mil E. Jernigan, Harvey
G. Lehtman, John T. Melvin, Jeanne B. North, James C. Norton, Cindy
Page, Bruce L. Parsley, William H. Paxton, Jeffrey C. Peters, Jake
Ratliff, Barbara E. Row, Ed K. Van De Riet, Dirk H. van Nouhuys, Kenneth
E. Victor, Don C. Wallace, Richard W. Watson, Don I. Andrews/SRI-ARC;
Sub-Collections: SRI-ARC; Clerk: JTM;

Stanford Research Institute
333 Ravenswood Ave.
Menlo Park, California 94025

To:
Access Copy

8906

This is a memo to explain how we propose to keep our answering service up to date, and provide more meaningful, relevant information for users.

1

We will try to supply the following information to the answering service:

1a

1. During the day, beginning at 8:00am (Pacific Time), we will tell the service whether we are up or down for both NET and local users.

If we will be down for more than 10-15 minutes, we will change the message at the service.

1a1

2. At 5:00pm each workday, we will leave a projected schedule for that evening (until 8:00am the next day). We will also tell them who is the system programmer on call for that evening. If any user calls the service, and indicates that the system is down when it should be up, the service will notify the programmer on call. He will attempt to solve the problem, and update the message at the answering service.

1a2

3. Finally, on Friday afternoon, a projected schedule for the weekend will be left with the service. Again, the name and telephone number of those people on call will be left with the service, and as during off-hours during the week, the service will notify these people if any problems arise. However, the information concerning weekends will probably not be quite as up to date as the information during the week, simply because the system is not continuously monitored.

NOTE: Sometimes during the evening or on weekends our programmers will not be available to correct the problem immediately. If you have more trouble, please wait until 5:00am on Mon-Fri, at which time the NET should be up.

1a3

(J8906) 7-FEB-72 14:25; Title: Author(s): William R. Ferguson/WRF;
Distribution: Karl G. Kelley, Schuyler Stevenson, Charles Holland,
Jeanne B. North, Charles Holland, George N. Petregal, Steve D. Crocker,
Thomas F. Lawrence, John W. McConnell, John F. Heafner, Robert E. Long,
Ari O. J. Ollikainen, James E. White, A. Wayne Hathaway, Dan L. Murphy,
Patrick W. Foulk, Richard A. Winter, Harold R. Van Zoeren, Alex A.
McKenzie, Robert L. Sundberg, Joel M. Winett, Abhay K. Bhushan, Peggy M.
Karp, Thomas N. Pyke, Abe S. Landsberg, B. Michael Wilber, James A.
Moorer, Edward A. Feigenbaum, Robert T. Braden, James M. Pepin, Barry D.
Wessler, John T. Melvin, Gennie Cederholm, Dorothy A. Reynolds, Charles
Holland, Jeanne B. North, Pam J. Klotz, Charles Holland, Nancy R.
Teater, Marcia D. Trager, Barbara Barnett, Glen Grazier, Ernest H.
Forman, Cindy Page, Rilla J. Reynolds, Stan Golding, Steve G. Chipman,
John P. Barden, Martha A. Ginsberg, Bradley A. Reussow, Frances Y.
Knight, Shirley W. Watkins, Marcelle D. Petell, Linda M. Connelly, Janet
W. Troxel, Carol J. Wilkinson, Imogen C. Beattie, Connie D. Rosewall,
Linda M. Webster, Anita L. Coley, Carol J. Mostrom/NLG NSAG;
Sub-Collections: SRI-ARC NLG NSAG; Clerk: LLL;
Origin: <LANE>NIC-LETTER.NLS;8, 7-FEB-72 14:20 LLL ;

NTCNT Jsys -- How to count network tty users

NTCNT JSYS

1

NTCNT JSYS 546

1a

Counts the number of network console users

1a1

Returns +1 always with AOs:

1a2

number of net consoles in 1

1a2a

There are no NTCNT error mnemonics

1a3

JTM 7-FEB-72 15:12 8907

NTCNT Jsys -- How to count network tty users

(J8907) 7-FEB-72 15:12; Title: Author(s): John T. Melvin/JTM;
Distribution: Don I. Andrews, Walter L. Bass, William S. Duvall, Mary S.
Church, J. D. Hopper, Charles H. Irby, Harvey G. Lehtman, John T.
Melvin, Bruce L. Parsley, William H. Paxton, Kenneth E. Victor, Don C.
Wallace, Robert L. Dendy, William R. Ferguson/NPG KEV DCW RLD WRF;
Wub-Collections: SRI-ARC NPG; Clerk: JTM;

reply to wlb about printer program pimping certain people

it would be possible (at the cost of increased overhead in the printer job) to print items in the order in which they are created in the <printer> directory. i consider this a reasonable request and unless i hear otherwise within a few days (for exeample, this thursday 2/20) will see to implementing such a scheme.

1

KEV 7-FEB-72 16:35 8908

reply to wlb about printer program pimping certain people

(J8908) 7-FEB-72 16:35; Title: Author(s): Kenneth E. Victor/KEV;
Distribution: Diane S. Kaye, Paul Rech, Michael D. Kudlick, Donald R.
Cone, Don Limuti, William R. Ferguson, Priscilla Lister, Robert L.
Dendy, Linda L. Lane, Marilyn F. Auerbach, Walter L. Bass, Mary S.
Church, William S. Duvall, Douglas C. Engelbart, Beauregard A. Hardeman,
Martin E. Hardy, J. D. Hopper, Charles H. Irby, Mil E. Jernigan, Harvey
G. Lehtman, John T. Melvin, Jeanne B. North, James C. Norton, Cindy
Page, Bruce L. Parsley, William H. Paxton, Jeffrey C. Peters, Jake
Ratliff, Barbara E. Row, Ed K. Van De Riet, Dirk H. van Nouhuys, Kenneth
E. Victor, Don C. Wallace, Richard W. Watson, Don I. Andrews/SRI-ARC;
Sub-Collections: SRI-ARC; Clerk: KEV;

KEV 7-FEB-72 16:52 8909

reply to a poor babysitting sap

the printer should not require babysitting, there are hardware devices available to make it stack properly and we should have one

1

reply to a poor babysitting sap

(J8909) 7-FEB-72 16:52; Title: Author(s): Kenneth E. Victor/KEV;
Distribution: Diane S. Kaye, Paul Rech, Michael D. Kudlick, Donald R.
Cone, Don Limuti, William R. Ferguson, Priscilla Lister, Robert L.
Dendy, Linda L. Lane, Marilyn F. Auerbach, Walter L. Bass, Mary S.
Church, William S. Duvall, Douglas C. Engelbart, Beauregard A. Hardeman,
Martin E. Hardy, J. D. Hopper, Charles H. Irby, Mil E. Jernigan, Harvey
G. Lehtman, John T. Melvin, Jeanne B. North, James C. Norton, Cindy
Page, Bruce L. Parsley, William H. Paxton, Jeffrey C. Peters, Jake
Ratliff, Barbara E. Row, Ed K. Van De Riet, Dirk H. van Nouhuys, Kenneth
E. Victor, Don C. Wallace, Richard W. Watson, Don I. Andrews/SRI-ARC;
Sub-Collections: SRI-ARC; Clerk: KEV;

Re Lineprinter and Spooling

BBN apparently has a nice printer program, etc. in the new system (1.29) that is apparently based on a space-time criterion for line printer spooling, etc. I suggest we check this out before doing anything here.

1

Re Lineprinter and Spooling

(J8910) 7-FEB-72 18:21; Title: Author(s): John T. Melvin/JTM;
Distribution: Diane S. Kaye, Paul Rech, Michael D. Kudlick, Donald R.
Cone, Don Limuti, William R. Ferguson, Priscilla Lister, Robert L.
Dendy, Linda L. Lane, Marilyn F. Auerbach, Walter L. Bass, Mary S.
Church, William S. Duvall, Douglas C. Engelbart, Beauregard A. Hardeman,
Martin E. Hardy, J. D. Hopper, Charles H. Irby, Mil E. Jernigan, Harvey
G. Lehtman, John T. Melvin, Jeanne B. North, James C. Norton, Cindy
Page, Bruce L. Parsley, William H. Paxton, Jeffrey C. Peters, Jake
Ratliff, Barbara E. Row, Ed K. Van De Riet, Dirk H. van Nouhuys, Kenneth
E. Victor, Don C. Wallace, Richard W. Watson, Don I. Andrews/SRI-ARC;
Sub-Collections: SRI-ARC; Clerk: JTM;

JTM 7-FEB-72 18:25 8911

Message to JBL about Journal Created work files

Joel, go ahead and delete the files..they are created by the journal as a temporary work area (to hold your message while it is being manipulated, etc.) and it is a bug for the program to not delete the file (it gets expunged at night by the operator). The new journal machinery should not do it. pax

1

JTM 7-FEB-72 18:25 8911

Message to JBL about Journal Created work files

(J8911) 7-FEB-72 18:25; Title: Author(s): John T. Melvin/JTM;
Distribution: Joel B. Levin/JBL; Sub-Collections: SRI-ARC; Clerk: JTM;

Comment on changes to identfile

I have been un-clogging the distribution file.

1

One of the things which causes it to get clogged up is when a user is slated for online delivery, and the user name in the user field is not a tenex user name, or alternatively there is no initial file for him under the indicated users directory.

2

I have gone through the identfile chasing such entries down.

3

I have deleted online delivery for for the following people because the name in the user field is not a valid TENEX user name:

4

RFH <DART>

4a

GDS <GCCTF>

4b

AJB <SUNY>

4c

JCL <EDUCOM>

4d

JMP <USC>

4e

BMW <SRI-AI>

4f

ASL <SDC>

4g

JMW <LINC>

4h

RLS <HARV>

4i

RAW <CCA>

4j

PWF <CASE>

4k

AWH <AMES-CD>

4l

REL <SDC>

4m

RJR <SRI-AI>

4n

I have created initial files for the following users:

5

EHF

5a

EAF

5b

JAM

5c

Comment on changes to identfile

AKB	5d
HRVZ	5e
RMS	5f
LGR	5g
WRC	5h
FEH	5i

In the future, please do not specify online delivery for persons who do not have initial files for either of the above reasons.

6

Many thanks...Bill

7

Comment on changes to identfile

(J8912) 7-FEB-72 22:47; Title: Author(s): William S. Duvall/WSD;
Distribution: Marilyn F. Auerbach, Mary S. Church, J. D. Hopper, John T.
Melvin, Jeanne B. North, James C. Norton, Richard W. Watson, Barbara E.
Row, Dirk H. van Nouhuys/MFA MSC JDH JTM JBN JCN RWW BER DVN;
Sub-Collections: SRI-ARC; Clerk: WSD;

More identfile Corrections

Online delivery deleted

TEC <HARV>	1
CJM <LINC>	1a
LMW <USC>	1b
JWT <SDC>	1c
MAG <CCA>	1d
JPB <CASE>	1e
	1f

Initial Files created

CDR	2
ICB	2a
CJW	2b
MDP	2c
SWW	2d
FYK	2e
SGC	2f
MDT	2g
NRT	2h
	2i

WSD 8-FEB-72 1:44 8913

More identfile Corrections

(J8913) 8-FEB-72 1:44; Title: Author(s): William S. Duvall/WSD;
Distribution: Marilyn F. Auerbach, Jeanne B. North, James C. Norton,
Richard W. Watson/MFA JBN JCN RWW; Sub-Collections: SRI-ARC; Clerk: WSD;

TO: Palo Alto Answering Service
FEB-8-72

FROM: Jeanne North
ARPA Network Information Center
Stanford Research Institute

1

This is a memo to indicate some slightly new procedures we will be following in the future.

2

1. During a work day (8:00am - 5:00pm). - we will tell you at 8:00am whether we are up or down for local and NETWORK users, and this information should be conveyed to any users who call. If a user calls, and indicates he is having problems, you should try to call either Bill Ferguson (326-6200 X-4234 or 4773) or Smokey Wallace (326-6200 X-4580). One of us will attempt to solve the problems.

3

2. During off-hours through the week (5:00pm - 8:00am) - we will leave a projected schedule for that evening with you at 5:00pm. This information should be conveyed to any users who call. In addition, we will leave the name of the system programmer on call for that evening. He should be notified if any problems occur. The following programmers may be on call:

4

- A. Smokey Wallace - 327-8375
- B. Ken Victor - 964-9870
- C. Bill Ferguson - 325-4292
- D. Ed van de Riet - 968-0660

4a

4b

4c

4d

3. During the week-end (5:00pm Fri. - 8:00am Mon.) - The same procedure will be followed as during work-day off-hours, i.e. a projected schedule for the week-end will be left with you on Friday afternoon. If any problems arise, the programmer(s) on call should be informed.

5

Jeanne B. North
Augmentation Research Center
Stanford Research Institute
Menlo Park, California 94025

To:
NIC Copy

JBN 8-FEB-72 9:00 8914

(J8914) 8-FEB-72 9:00; Title: Author(s): Jeanne B. North/JBN;
Distribution: Jeanne B. North, William R. Ferguson, Ed K. Van De
Riet/NICSTA WRF EKV; Sub-Collections: SRI-ARC NICSTA; Clerk: LLL;
Origin: <LANE>ANSWER-SER.NLS;14, 8-FEB-72 8:56 LLL ;

Reply to 8747 on Old Versions of NLS Files

Mimi -- I'm in favor of retaining only the highest version number of an NLS file following an update/output file but feel a need for some additional backup capability to compensate for the loss involved (and to provide better backup than we have now). My suggestion: change the EXEC so that the automatic expunge occurs after the evening dump rather than when each user logs out (if the dumper does not presently dump deleted files, then that should be changed also). By following this procedure a user would be guaranteed a fairly-easily-retrievable record of each day's total work which would give him much more assurance that he is not going to lose work which (by accident) appears only in a version of a file which never got dumped.

1

Reply to 8747 on Old Versions of NLS Files

(J8915) 8-FEB-72 9:31; Title: Author(s): Walter L. Bass/WLB;
Distribution: Diane S. Kaye, Paul Rech, Michael D. Kudlick, Donald R.
Cone, Don Limuti, William R. Ferguson, Priscilla Lister, Robert L.
Dendy, Linda L. Lane, Marilyn F. Auerbach, Walter L. Bass, Mary S.
Church, William S. Duvall, Douglas C. Engelbart, Beauregard A. Hardeman,
Martin E. Hardy, J. D. Hopper, Charles H. Irby, Mil E. Jernigan, Harvey
G. Lehtman, John T. Melvin, Jeanne B. North, James C. Norton, Cindy
Page, Bruce L. Parsley, William H. Paxton, Jeffrey C. Peters, Jake
Ratliff, Barbara E. Row, Ed K. Van De Riet, Dirk H. van Nouhuys, Kenneth
E. Victor, Don C. Wallace, Richard W. Watson, Don I. Andrews/SRI-ARC;
Sub-Collections: SRI-ARC; Clerk: WLB;

Alternative algorithm for printer queueing

Ken...

1

I don't think that operating the printer queue on a FIFO basis is quite what we want.

1a

Visualise, for example, the situation where a long file and numerous short files are created at approximately the same time.

1a1

It seems reasonable that the short jobs should be printed first.

1a2

As an alternative, I would suggest an algorithm which uses the estimated printing time to calculate the acceptable time before printing is initiated.

1b

i.e. a long printing job can wait for shorter jobs to print before commencing, but the longer it has waited, the higher priority it has to run instead of the shorter jobs.

1c

If this needs more explanation, please contact me.

1d

Alternative algorithm for printer queueing

(J8917) 8-FEB-72 11:30; Title: Author(s): William S. Duvall/WSD;
Distribution: Diane S. Kaye, Paul Rech, Michael D. Kudlick, Donald R.
Cone, Don Limuti, William R. Ferguson, Priscilla Lister, Robert L.
Dendy, Linda L. Lane, Marilyn F. Auerbach, Walter L. Bass, Mary S.
Church, William S. Duvall, Douglas C. Engelbart, Beauregard A. Hardeman,
Martin E. Hardy, J. D. Hopper, Charles H. Irby, Mil E. Jernigan, Harvey
G. Lehtman, John T. Melvin, Jeanne B. North, James C. Norton, Cindy
Page, Bruce L. Parsley, William H. Paxton, Jeffrey C. Peters, Jake
Ratliff, Barbara E. Row, Ed K. Van De Riet, Dirk H. van Nouhuys, Kenneth
E. Victor, Don C. Wallace, Richard W. Watson, Don I. Andrews/SRI-ARC;
Sub-Collections: SRI-ARC; Clerk: WSD;

Visitor Log Louie Pouzin 8-2-72

Visitor from France Louie Pouzin - 8 Feb 72

Seen RWW JTM

Mr. Pouzin is implementing a French network called CYCLADES, sponsored by the Delegation a l'Informatique with the objective to allow wide access to a variety of data banks and to provide Administrative and Public utilities with computer tools. He is touring the US talking to ARPA and various sites to learn our experience and expects in about 3 years to have some connection between ARPANET and CYCLADES.

He would like to send a few of his people to the US at French expense to work at various sites for about 6 months to learn what they are doing and contribute if possible; I told him we were interested in such arrangements if mutual benefit could justify training and other costs and that he should contact us later for more specific discussions.

1

RWW 8-FEB-72 11:44 8918

Visitor Log Louie Pouzin 8-2-72

(J8918) 8-FEB-72 11:44; Title: Author(s): Richard W. Watson/RWW;
Distribution: Douglas C. Engelbart, James C. Norton/DCE JCN;
Sub-Collections: SRI-ARC; Clerk: RWW;

Complaint

RFC #300 "Network mailing list" does not contain telephone numbers as was requested and agreed at the time of issue of the previous issue of the mailing list. The phone numbers are really important !!

1

JBP 8-FEB-72 12:35 8919

Complaint

(J8919) 8-FEB-72 12:35; Title: Author(s): Jonathan B Postel/JBP;
Distribution: Jeanne B. North, Richard W. Watson/JBN RWW;
Sub-Collections: NIC; Clerk: JBP;

Further Comments About Only Keeping One Version Of NLS Files
Around

Expunges are not done automatically at logout time (we took that
out ages ago).

Deleted files are not dumped.

KEV

1

Further Comments About Only Keeping One Version of NLS Files
Around

(J8922) 8-FEB-72 13:27; Title: Author(s): Kenneth E. Victor/KEV;
Distribution: Diane S. Kaye, Paul Rech, Michael D. Kudlick, Donald R.
Cone, Don Limuti, William R. Ferguson, Priscilla Lister, Robert L.
Dendy, Linda L. Lane, Marilyn F. Auerbach, Walter L. Bass, Mary S.
Church, William S. Duvall, Douglas C. Engelbart, Beauregard A. Hardeman,
Martin E. Hardy, J. D. Hopper, Charles H. Irby, Mil E. Jernigan, Harvey
G. Lehtman, John T. Melvin, Jeanne B. North, James C. Norton, Cindy
Page, Bruce L. Parsley, William H. Paxton, Jeffrey C. Peters, Jake
Ratliff, Barbara E. Row, Ed K. Van De Riet, Dirk H. van Nouhuys, Kenneth
E. Victor, Don C. Wallace, Richard W. Watson, Don I. Andrews/SRI-ARC;
Sub-Collections: SRI-ARC; Clerk: BER;

Message to Michener

Jim - I have finally read the big graphics protocol document, and I can't say that I have any major objections. I may be somewhat snowed, but it looks fine to me. There are a number of minor typographical errors, but they are really minor and unambiguous. I think we might even consider cleaning it up for submission to the Communications of the ACM. Is the document on-line so that I could help in any such effort?

1

IWC 8-FEB-72 13:47 8923

Message to Michener

(J8923) 8-FEB-72 13:47; Title: Author(s): Ira W. Cotton/IWC;
Distribution: James C. Michener/JCM; Sub-Collections: NIC; Clerk: IWC;

New Identification System Program: LMEMLIST

When the next version of NLS is brought up, a new program LMEMLIST will be available which will logically expand the membership list of a group or affiliate -- i.e., it will find the ids of all individuals who should be reached through that group/affiliate. Expand/no expand conventions are correctly handled and looping due to "circular" memberships is prevented. LMEMLIST returns strings containing lists of persons, unexpanded groups, expanded groups (whose individual members will be found in the persons list), and bad ids (not recognized by the ID system. Further documentation and calling conventions are described at (NLS, idlib, lmemlist).

1

WLB 8-FEB-72 15:46 8924

New Identification System Program: LMEMLIST

(J8924) 8-FEB-72 15:46; Title: Author(s): Walter L. Bass/WLB;
Distribution: Richard W. Watson, James C. Norton, Diane S. Kaye, Don I.
Andrews, Walter L. Bass, William S. Duvall, Mary S. Church, J. D.
Hopper, Charles H. Iroy, Harvey G. Lentman, John T. Melvin, Bruce L.
Parsley, William H. Paxton/RWW JCN NPG; Sub-Collections: SRI-ARC NPG;
Clerk: WLB;

Proposal for Research No. ISU 71-94 (revision 2) - Part Two
Business Proposal
Proposal for Research No. ISU-71-94 (revision 2)
In response to Proposal Request F30602-72-Q-0257

NETWORK INFORMATION CENTER AND AUGMENTATION SYSTEM DEVELOPMENT
PART TWO--BUSINESS PROPOSAL

1

I ESTIMATED TIME AND CHARGES

2

It is proposed that the research work outlined herein be performed during a period of 21 months, starting 8 May 1972.

2a

We are proposing an estimated level of 56,288 hours of engineering/programmer and technician effort (not including project supervision and clerical effort) rather than the 51,800 hours level shown in the Proposal Request as we feel this level is more appropriate for the work proposed.

2b

Pursuant to the provisions of ASPR 16-206.2, attached is a cost estimate and support schedule in lieu of the DD Form 633-4. Also enclosed is a signed form complete except as to the "Detail Description of Cost Elements."

2c

II GOVERNMENT-FURNISHED EQUIPMENT

3

The performance of the proposed work will involve the use of government-furnished equipment covered by Air Force (RADC) Contract No. F30602-70-C-0219.

3a

In addition, the Data Products line printer (Serial No. 318) presently on-site at ARC and now the property of the Government will be utilized.

3b

III REPORTS

4

The Institute will submit management reports (Item A002) on a quarterly basis as under the present contract. Due to the anticipated high level of interaction between ARC and RADC technical personnel, particularly through use of the ARC online system, we propose that the quarterly management reports be submitted in lieu of the monthly R&D status reports (Item A001) outlined in the Proposal Request.

4a

Contract Funds Status reports (Item A003) will be submitted on a quarterly basis as under the present contract.

4b

A Final Technical Report (Item A004) will be submitted 30 days after completion of the proposed work.

4c

Proposal for Research No. ISU 71-94 (revision 2) - Part Two
Business Proposal

Proposal for Research No. ISU-71-94 (revision 2)
In response to Proposal Request F30602-72-Q-0257

During the period of the proposed work, we expect to be developing a "Handbook," that will be a comprehensive description and history of work in the center, suitably structured for study and revision with ARC's computer aids. It is anticipated that individual projects, including the proposed work, will be covered in the Handbook as "chapters" or special views and reports will be produced in hard copy directly from the Handbook (with suitable editing to produce useful hardcopy formats). Depending on the progress of Handbook development, reports on this contract may be in this form.

4c1

Computer program documentation (A005) will be provided in a form consistent with special ongoing program documentation techniques that are an integral part of the center's augmentation system. The use of subroutine linking, line and level clipping, imbedded comments and other features will permit these programs to be clearly documented as the system evolves. Provision of flow charts of the types suggested in the Proposal Request is not proposed.

4d

IV CONTRACT FORM

5

It is requested that any contract resulting from this proposal be awarded on a cost-plus-fixed-fee basis.

5a

V ACCEPTANCE PERIOD

6

This proposal will remain in effect until 7 May 1972. If consideration of the proposal requires a longer period, the Institute will be glad to consider a request for an extension of time.

6a

Proposal for Research No. ISU 71-94 (revision 2) - Part Two
Business Proposal
Proposal for Research No. ISU-71-94 (revision 2)
In response to Proposal Request F30602-72-Q-0257

Cost Estimate 21 MONTHS:

Proposal for Research No. ISU 71-94 (revision 2) - Part Two Business
Proposal

Proposal for Research No. ISU-71-94 (revision 2)
In response to Proposal Request F30602-72-Q-0257

COST ESTIMATE

(for the twenty-one month period starting 5/8/72)

Personnel Costs

Proj Supv	1,973 hrs.	
Senior Prof	10,367 hrs.	
Prof	37,040 hrs.	
Technical	8,881 hrs	
Clerical	13,349 hrs.	
Total Direct Labor		522,025
Payroll Burden @ 28% *		146,167
Total Labor and Burden		668,192
Overhead @ 105% *		701,602
Total Personnel Costs		1,369,794

Direct Costs

Travel		14,036
36 trips East @ 310 =	11,160	
72 Days Subsistence @ 31 =	2,201	
Auto Rental (45 days @ 15)	675	
Facility *		766,303
Consultants		36,000
Report costs		2,007
Total Direct Costs		818,346
Total Estimated Cost		2,188,140
Fixed Fee		120,350
Total Estimated Cost Plus Fixed Fee \$		2,308,490

* See following Schedules

Proposal for Research No. ISU 71-94 (revision 2) - Part Two Business
Proposal
Proposal for Research No. ISU-71-94 (revision 2)
In response to Proposal Request F30602-72-Q-0257

Cost Schedules: 21 MONTHS:

Proposal for Research No. ISU 71-94 (revision 2) - Part Two Business
 Proposal
 Proposal for Research No. ISU-71-94 (revision 2)
 In response to Proposal Request F30602-72-Q-0257

SCHEDULE A

DIRECT LABOR

Direct labor charges are based on the actual salaries for the staff members contemplated for the project work plus a judgemental factor applied to base salary for merit increases during the contract period of performance. Frequency of salary reviews and level of merit increases are in accordance with the Institute's Salary and Wage Payment Policy as published in Topic No. 505 of the SRI Administration Manual and as approved by the Defense Contract Administration Services Region.

SCHEDULE B

OVERHEAD AND PAYROLL BURDEN

By letter agreement of 21 May 1971 with the Tri-Service Overhead Negotiations Committee, the Institute negotiated the following rates as acceptable for current bidding and billing purposes:

	1972 Billing/Bidding Rates -----
On-Site Overhead	105%
Off-Site Overhead	75%

The Payroll Burden rate of 28% is acceptable to DCASR, San Francisco for bidding and billing purposes on an interim basis.

Rather than setting forth these specific rates, it is requested that contracts provide for reimbursement at billing rates acceptable to the Contracting Officer, subject to retroactive adjustment to fixed rates negotiated on the basis of historical cost data. Included in payroll burden are such costs as vacation, holiday, and sick leave pay, social security taxes, and contributions to employee benefit plans.

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SCHEDULE C

TRAVEL COSTS

Air fare is based on prices for travel to Washington, D.C., at \$310 round trip tourist established in the Official Airline Guide dated December 1, 1971.

Domestic subsistence rates and travel by private automobile are established standards based on cost data submitted to and approved by DCAA.

SCHEDULE D

CONSULTANTS

The estimated costs for outside consultants are based on previous experience on this program and are estimated at \$36,000 for the period proposed.

Specific consultants and their rates have not yet been determined. The client will be kept informed as such needs develop.

Representative consultants recently contributing to the ARC program are:

Dr. James A. Fadiman, Management Consultant
Donald I. Andrews, Systems Programmer

SCHEDULE E

REPORT COSTS

Report costs are estimated on the basis of the number of pages of text and illustrations and the number of copies of reports to be produced, in accordance with the following rates per page which have been reviewed by DCAA:

Editing	\$ 2.18
Composition	\$ 2.02
Report coordination	.57
Proofreading	.92
Press/Bindery/photography	.02 per impression

Proposal for Research No. ISU 71-94 (revision 2) - Part Two Business
Proposal
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The following is a breakdown of the estimated cost of report production:

Printing, 300 pages at \$ 5.69 per page =	\$ 1,707
(including composition, report coordination, proofreading)	
Press, bindery at \$.02 per printed page =	300
(for 300 printed pages - 50 copies)	
Total estimated report costs	2,007

This estimate is made with consideration for special techniques of report production to be used for this report including on-line computer aids for editing, text manipulation, and illustration.

Proposal for Research No. ISU 71-94 (revision 2) - Part Two Business
 Proposal
 Proposal for Research No. ISU-71-94 (revision 2)
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SCHEDULE F FACILITY COSTS

Total Facility Costs: \$ 766,303

Computer Facility Support 630,916
 Lease Cost 588,216

Computer Facility	\$	496,824
PDP-10:	\$	350,154
(P.O. B13477)		
21 Mo. @ \$ 16,674		
Basic lease	\$	13,320
Use Tax		666
Maintenance	\$	2,688
ME-10 memory 32k		68,712
21 months at \$ 3,272		
(including maintenance)		
(Verbal quote Feb 72 from Les Taylor, DEC)		
Bryant Drum		57,798
19 months at \$ 3,042		
(Verbal quote Feb 72 from Charles Farrier, Bryant)		
Bryant disc maint.		16,800
(P.O. B 54148)		
Bryant drum maint.		3,360
(P.O. B 54677)		
Terminal expenses		54,579
Monthly rate:	2,599	
Teletypes (Mod 33)	3 @ \$ 50 =	150
(P.O. R54760)		
Texas Instruments	9 @ \$115 =	1,035
(P.O. 54305)		
Texas Instruments	3 @ \$146 =	438
(P.O. 55031)		
Couplers	8 @ \$ 15 =	120
(P.O. R54760)		
Cassette recorders	8 @ \$ 107 =	856
(P.O. B55739)		
Telephone expenses		36,813
Datasets - 21 mo at 280	5,880	
7 - 103s at \$35.00	245.00/mo	
1 - 103s at \$35.00	35.00/mo	
Lines to remote sites	19,761	
Dateline 21 mo at	609/mo =	12,789

Proposal for Research No. ISU 71-94 (revision 2) - Part Two Business
 Proposal
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 In response to Proposal Request F30602-72-Q-0257

3 - 202s included
 (P.O. B 52159)
 Voiceline 21 mo at 332/mo= 6972
 NIC service 11,172
 Fixed cost 21 mo at 132/mo= 2,772
 including
 PA Answering Service @ \$40 / Mo.
 (P.O.73018)
 Enterprise Service @ \$92 / Mo.
 (SRI 23-70)
 Toll calls 21 mo at 400/mo= 8,400
 Maintenance and Operation 42,700

Maintenance Materials 21,500

Such as:
 Picture tubes 20 @ \$ 75= \$ 1,500
 (P.O.64901)
 CRTs 20 @ \$500= \$ 10,000
 (Verbal quote Fairchild-Dumont,
 Mr. Bob Koppelon, 1/18/72)
 Vidicons 40 @ \$150= \$ 6,000
 (P.O.66508)
 Other \$ 4,000

(Actual components and costs will depend upon the
 results of further design work. This estimate is based
 upon previous experience in the field.)

Operating Supplies 21,200

Mag tape 180 @ \$15 = 2,700
 (SRI Comp Center)
 NIC mailing costs = 4,500
 Paper tape, printer
 paper,etc.= 4,000
 Xerox for NIC dist 10,000
 (These estimates are based upon initial and
 anticipated experience in NIC.)

Anticipated improvements 135,387

Disc storage

Proposal for Research No. ISU 71-94 (revision 2) - Part Two Business Proposal

Proposal for Research No. ISU-71-94 (revision 2)

In response to Proposal Request F30602-72-Q-0257

RPO2 Disc Storage: 12 months @ 5,567 = 66,804

Lease costs: \$ 4,585/ mo.

1 DF-10 channel

Disc Controller

5 Disc Drives

Maintenance costs \$ 982/ mo.

(based on P.O. B 13477)

RPO3 Disc Storage: 9 months @ 6,287 = 56,583

Lease costs: \$ 5,305/ mo.

1 DF-10 channel

Disc Controller

8 Disc Drives

Maintenance costs \$ 982/ mo.

RPO2 Controller changeover cost 12,000

(based on P.O. B 13477 and telecon 2/7/72 with Les Taylor of DEC)

&SRI-ARC JCN 11-FEB-72 18:23 8925

Proposal for Research No. ISU 71-94 (revision 2) - Part Two
Business Proposal

Proposal for Research No. ISU-71-94 (revision 2)
In response to Proposal Request F30602-72-Q-0257

(J8925) 11-FEB-72 18:23; Title: Author(s): S.R.I. - Augmentation
Research Center, James C. Norton/&SRI-ARC JCN; Distribution: Duane L.
Wtone/DLS; Sub-Collections: SRI-ARC; Clerk: JCN;
Origin: <NORTON>J8925.NLS;2, 11-FEB-72 14:10 JCN ;
.RTJ=0; H1=" H1P=2; SRI-ARC 10 FEB 72 8925";

The ARC EMC met 7 Feb with DCE and RWW CHI EKV and JCN present 1
and 10 Feb with RWW CHI EKV and JCN present: 1a
TOPICS DISCUSSED with DCE 7 Feb: 1b
 Net interface 1b1
 Diskpacks 1b2
 ARC funding vs personnel additions 1b3
 32k memory addition 1b4
 Display terminal study 1b5
 Information management team 1b6
 Scheduling of system use - by types of use 1b7
TOPICS DISCUSSED 10 Feb: 1c
 Jacques Vallee employment offer 1c1
 Mimi Church: transfer of information before she leaves. 1c2
 COM for journal hardcopy: alternatives and costs 1c3
 Log printer 1c4
 Bryant drum for backup - included in RADC 21 month 1c5
 proposal 1c5
 CIRAD programmer visit this week 1c6
 EMC and planning 1c7
7 Feb: 1d
 NET INTERFACE 1d1
 We discussed the BBN network interface study with DCE
 and agreed to order the BBN equipment. 1d1a
 Since the meeting the requisition has been submitted,
 although it awaits the arrival of authorization for
 additional 302k RADC project funding before being placed
 as an order by SRI. 1d1b
 DISKPACKS 1d2
 The diskpacks will not be shipped to ARC until DEC
 receives some official notification that the project has
 been extended. This was expected to arrive early this
 week from RADC, but was delayed (by RADC). The arrival
 of a promised TWX from RADC (today, Friday, 2/11)? may
 ease the situation. We are following events closely as
 we need the diskpacks as soon as possible. 1d2a

ARC FUNDING VS PERSONNEL ADDITIONS

1d3

We reviewed the funding picture briefly, agreeing that we should proceed with the search for a NIC Operations/Net Liaison man now.

1d3a

Jim Norton will update the overall funding study as soon as possible (this week?) and present to the EMC and DCE.

1d3b

32K MEMORY ADDITION

1d4

We agreed with DCE that the 32k memory order should now be placed.

1d4a

This has been done since the meeting, but it also awaits SRI's receiving RADC notification of the project extension.

1d4b

DISPLAY TERMINAL STUDY

1d5

We decided to hold off a little longer before starting the study we proposed in the 3 Feb EMC meeting (8716,11).

1d5a

There are too many other pressing items to work on first, and the need is not really great now.

1d5b

INFORMATION MANAGEMENT TEAM

1d6

The need for an ARC team to work on the general information management aspects of the catalog, (Xdoc, NIC, SDIS, and Journal), baseline record, and other collections of information was discussed.

1d6a

People who would seem appropriate to be involved are:

1d6a1

JBN

1d6a1a

JCN

1d6a1b

MDK

1d6a1c

RWW

1d6a1d

Vallee

1d6a1e

WLB 1d6a1f

WSD 1d6a1g

RWW will take the initiative in getting this started soon. 1d6a2

SCHEDULING OF SYSTEM USE - BY TYPES OF USE 1d7

CHI is preparing a suggested schedule for use of the system that will be presented to the users for comments and suggestions before a new operational schedule is decided upon. 1d7a

10 Feb: 1e

JACQUES VALLEE EMPLOYMENT OFFER 1e1

The offer was mailed about 9 Feb. We await his reply. 1e1a

MIMI CHURCH: TRANSFER OF INFORMATION BEFORE SHE LEAVES. 1e2

Dick Watson asked if the software people were working with MSC so as to have an effective transfer of information about her part of the system work before she leaves in a few weeks. 1e2a

CHI said he would look into it, but felt that it would present no problems. 1e2b

COM FOR JOURNAL HARDCOPY: ALTERNATIVES AND COSTS 1e3

Journal hardcopy still has problems keeping up. 1e3a

The monitor bug (if that's the problem) should be traced and fixed as soon as possible. 1e3a1

Ralph Prather should be trained in the hardcopy process as soon as practical. 1e3a2

We should consider not sending the author of ARC documents an author copy. 1e3a3

Surely not &SRI-ARC when it's the author, for SRI-ARC has several other copies. 1e3a3a

The cost of COM work at Lockheed appears to be close to 25 cents per page. This is too costly for routine

printing. Thus, relief for our local printer from
journal hardcopy work should be sought elsewhere. 1e3b

Bruce should continue trying the Lockheed FR-80 system
for reports and other purposes, but we need a study of
the alternative sources of printer service. 1e3c

Perhaps we could dump sequential files on a mag tape
and process on someone else's line printer. 1e3c1

This may need a courier if not at SRI. 1e3c1a

They might be: 1e3c2

PDP-11 of ISE has a line printer 1e3c2a

.. speed .. availability? 1e3c2a1

SRI-AI might be of help? 1e3c2b

CDC 6400 in the basement? 1e3c2c

Outside commercial services? 1e3c2d

Get another printer for ARC? (not in funding plan.
and not a very desirable alternative?) 1e3c3

This problem should be looked into by Mike Kudlick, if
he agrees. EKV and JCN will discuss it with him. 1e3d

LOG PRINTER 1e4

We need also to look into faster printers 120cps? for
the logging TTY's. Mike again? or who? EKV will handle. 1e4a

BRYANT DRUM FOR BACKUP - INCLUDED IN RADG 21 MONTH
PROPOSAL 1e5

JCN noted that although funds for a second Bryant drum
were included in the 21 month RADG proposal under
preparation today, the decision to actually acquire the
equipment has not been made. DCE will want to be part of
this decision, too, as JCN has assured him he will. 1e5a

CIRAD PROGRAMMER VISIT THIS WEEK 1e6

The programmer from CIRAD was here for two days this
week, watching Diane Kaye work on the system and trying

to get some idea of what goes on here in the programming environment.

1e6a

Our reaction to the possibility of working with GIRAD is that it is still not too promising.

1e6b

EMC AND PLANNING

1e7

The EMC will meet Tuesday to discuss planning and at least short term goals. We are not trying to set ARC's goals independently, but are trying to get a picture of what we think (as a team) about where we are and should be going. We will include our picture of this in meeting notes.

1e7a

(J8927) 14-FEB-72 14:57; Title: Author(s): Richard W. Watson, Charles H. Irby, Ed K. Van De Riet, James C. Norton/EMC; Distribution: Diane S. Kaye, Paul Rech, Michael D. Kudlick, Donald R. Cone, Don Limuti, William R. Ferguson, Priscilla Lister, Robert L. Dendy, Linda L. Lane, Marilyn F. Auerbach, Walter L. Bass, Mary S. Church, William S. Duvall, Douglas C. Engelbart, Beauregard A. Hardeman, Martin E. Hardy, J. D. Hopper, Charles H. Irby, Mil E. Jernigan, Harvey G. Lehtman, John T. Melvin, Jeanne B. North, James C. Norton, Cindy Page, Bruce L. Parsley, William H. Paxton, Jeffrey C. Peters, Jake Ratliff, Barbara E. Row, Ed K. Van De Riet, Dirk H. van Nouhuys, Kenneth E. Victor, Don C. Wallace, Richard W. Watson, Don I. Andrews, Bonnar Cox/SRI-ARC BC; Sub-Collections: EMC SRI-ARC; Clerk: JCN;
Origin: <NORTON>J8927.NLS;3, 14-FEB-72 11:27 JCN ;
HJournal=" EMC (JCN) 14 FEB 72 8927";

Richard W. Watson
Charles H. Irby
Ed K. Van De Riet
James C. Norton
Augmentation Research Center
Stanford Research Institute
Menlo Park, California 94025

To:
Access Copy

8928

(J8928) 28-FEB-72 7:48; Title: Author(s): Richard W. Watson, Charles H. Irby, Ed K. Van De Riet, James C. Norton/EMC; Distribution: Diane S. Kaye, Paul Rech, Michael D. Kudlick, Donald R. Cone, Don Limuti, William R. Ferguson, Priscilla Lister, Robert L. Dendy, Linda L. Lane, Marilyn F. Auerbach, Walter L. Bass, Mary S. Church, William S. Duvall, Douglas C. Engelbart, Beauregard A. Hardeman, Martin E. Hardy, J. D. Hopper, Charles H. Irby, Mil E. Jernigan, Harvey G. Lehtman, John T. Melvin, Jeanne B. North, James C. Norton, Cindy Page, Bruce L. Parsley, William H. Paxton, Jeffrey C. Peters, Jake Ratliff, Barbara E. Row, Ed K. Van De Riet, Dirk H. van Nouhuys, Kenneth E. Victor, Donald C. Wallace, Richard W. Watson, Don I. Andrews/SRI-ARC; Sub-Collections: EMC SRI-ARC; Clerk: JCN;

Origin: <NORTON>J8928.NLS;2, 25-FEB-72 17:55 JCN ; Hjournal="***
DRAFT *** EMC (JCN) 15 MAR 72 4:48AM 8928"; SN=0;

The ARC EMC met 14 Feb with Bart Cox, RWW, CHI, JCN were present
- EKV was not at SRI today. DCE was also away during this
meeting time.

1

Topics discussed prior to Bart Cox's arrival:

1a

AMR seminar: who should attend (if anyone from ARC)

1a1

Letter from BBN (RWW)

1a2

Topics discussed with B. Cox (BC) 14 Feb:

1b

CHI's EMC memo on scheduling

1b1

Bart Cox and/or Dave Brown attendance at ARC EMC meetings

1b2

Use of DEX by the PSO (and others?)

1b3

Don Cone and PSO/ARC needs

1b4

Steve Miller's current activity: on terminal study and on
NASA Ames

1b5

Funding study: status and when to expect it

1b6

ARC proposals and contract status

1b7

NIC operations/liaison person: job description for BC

1b8

Topics discussed after BC left:

1c

P. Rech initial tasks

1c1

Signing in for ARC people and the hours of work pattern
status

1c2

AMR Seminar: Who Should Attend (if anyone from ARC)

1d

We concluded that ARC would not send someone to the AMR
(American Management Research) Seminar on system
measurement. This particular seminar does not appear
useful enough to justify the expense involved. It is being
held in Los Angeles, March 6-8.

1d1

Letter from BBN

1e

RWW told us about a BBN seminar on NCP/IMP's to be held
March 16. Should we send JTM, DCW, KEV? Should decide by
3/5.

1e1

CHI's EMC Memo on Scheduling

1f

This has since been submitted to ARC for consideration.
See (9130,).

1f1

Bart Cox and/or Dave Brown attendance at ARC EMC Meetings

1g

In order to increase Bart's understanding of and
appreciation for ARC's operations and plans (and vice
versa?), he plans to attend EMC meetings on a regular
basis, in addition to receiving EMC Meeting notes. EMC
felt that his attendance at planning meetings would be more

informative than sitting in on the more routine meetings. We will try to partition meetings to this end. When Bart is away, others, such as Dave Brown, may represent him.

1g1

Use of DEX by the PSO (and others?)

1h

JCN suggested that since DEX and its needed equipment are now available and working, PSO and others should use it for transcription and other appropriate tasks. This will involve some added Dex-system and TECHNIQUE learning by ARC to get the system-load relief it offers.

1h1

(This document was entered via DEX-1 and PSO, killing a bug in the process)

1hia

Don Cone and PSO/ARC Needs

1i

We agreed that Don Cone's role in helping PSO get started is near completion and that we must find "part-time" help from a pusher who is a "permanent" ARC member. Either a combination administrative assistant/secretary or some better arrangement should be found. We are currently interviewing secretaries. B. Cox had a specific person we might hire in mind and will check on her availability.

1i1

Steve Miller's Current Activity: on the Terminal Study and on NASA Ames

1j

JCN thinks Steve's activities for ARC have been in a "holding pattern" and will discuss this with him. We think this arrangement should be terminated now due to recent changes in our needs and plans. (This has since been done -- Steve agrees.)

1j1

Funding Study: Status and when EMC may expect it

1k

JCN has been working on this, but isn't ready. By Thursday 2/16, he will have some kind of over-all picture. (2/22: JCN has reviewed with RWW. CHI & EKV by 2/25?)

1k1

ARC Proposals and Contract Status

1l

We are in final negotiating (red,tape) phase on the 3 month (\$300K) and 21 month (\$2,300K) proposals. Expecting a TWX to free up our 32K memory and terminal orders and the DEC disk pack shipping. The \$75K RADC negotiation is slowed due to fixed-price contract form discussion.

1l1

NIC Operations/Liaison Person: Job Description for BC

1m

We further described this job and Bart will send on our request for action.

1m1

P. Rech Initial Tasks

1n

JCN reviewed the discussion he and RWW had with PR about working in DNLS, writing about his ideas on research organization, helping on early stages of RADC project, and moving toward making a picture of ARC's "market place" dynamics.

1n1

Signing in for ARC People and the Hours of Work Pattern Status

1o

JCN will complete the survey of working hours patterns of ARC people and summarize for use in showing SRI and others a picture.

1o1

Another Proposal for Handling Old Versions of NLS Files

Ken and I rapped about the Old Versions problem and came up with the following proposal:

(1) NLS would maintain only one active version of each file; after an Update or Output File to a new version, the extension of the old version would be changed from "NLS" to something like "DEL" (for deleted). This way all versions which have been active during a given day would be available for use, and if they were known to be needed subsequently they could be renamed appropriately.

(2) The "DEL" files would be dumped in the normal manner. At the end of the dump, the operator would give a "!DELETE <*>*.DEL;*" command to the EXEC to delete all files in the system with extension "DEL" and would then run DELD to expunge all directories. This operator procedure can be programmed into the dumper if it proves satisfactory after a trial period.

Please let us know how you feel about this proposal. If you have any further suggestions for possible file system laxatives, please send them along as well. Thanks

Another Proposal for Handling Old Versions of NLS Files

(J8930) 8-FEB-72 16:10; Title: Author(s): Walter L. Bass/WLB;
Distribution: Diane S. Kaye, Paul Rech, Michael D. Kudlick, Donald R.
Cone, Don Limuti, William R. Ferguson, Priscilla Lister, Robert L.
Dendy, Linda L. Lane, Marilyn F. Auerbach, Walter L. Bass, Mary S.
Church, William S. Duvall, Douglas C. Engelbart, Beauregard A. Hardeman,
Martin E. Hardy, J. D. Hopper, Charles H. Irby, Mil E. Jernigan, Harvey
G. Lehtman, John T. Melvin, Jeanne B. North, James C. Norton, Cindy
Page, Bruce L. Parsley, William H. Paxton, Jeffrey C. Peters, Jake
Ratliff, Barbara E. Row, Ed K. Van De Riet, Dirk H. van Nouhuys, Kenneth
E. Victor, Don C. Wallace, Richard W. Watson, Don I. Andrews/SRI-ARC;
Wub-Collections: SRI-ARC; Clerk: WLB;