A Look at System Responsiveness

DATA                                                                                     1

The following is a summary of a few parameters which are
indicators of system responsiveness covering a few periods of
recent system history.                                                                  1a

The first four week period is that preceding the programmer's
decreased allocation when the number of users was 23.                                   1a1

The second period is a three week period when the total
allocation was 20.                                                                      1a2

The third period is the last week when the allocation was 20.                           1a3

The fourth period is the past week when the allocation had been
increased again to 23.                                                                  1a4

Weekly averages used in the following table are computed Monday
through Friday, 8:00 to 17:00.                                                          1a5

The parameters are as follows:                                                          1b

GJ  — Load Average                                                                      1b1

#AU — Number of active users                                                            
**1b2

%U  — Percent of CPU used                                                               1b3

AXD — Average Execution Time, DNLS                                                       1b4

AXT — Average Execution Time, TNLS                                                       1b5

ARD — Average Real Time for Task Execution, DNLS                                         1b6

ART — Average Real Time for Task Execution, TNLS                                         1b7

|   | | GJ | #AU | %U | AXD | AXT | ARD | ART | 1c |
|---|---|----|-----|----|-----|-----|-----|-----|----|
| 1) | 9/17 – 10/12 | 4.7 | 17.8 | 58.5 | 59.3 | 16.5 | 359.9 | 184.0 | 1d |
| 2) | 10/15 – 11/ 2 | 4.7 | 17.9* | 61.7 | 64.8 | 19.2 | 364.8 | 159.4 | 1e |
| 3) | 11/ 5 – 11/ 9 | 5.3 | 18.8 | 63.5 | 66.2 | 25.8 | 413 | 215 | 1f |
| 4) | 11/12 – 11/16 | 5.4 | 18.6 | 61.4 | 67.4 | 24.4 | 425.6 | 220.8 | 1g |

* During this period, printer job was split into two jobs in
order to monitor use of the printer.  Although this added
another user, no additional load was added to the system.                               1g1

In the two month period summarized above, all indices except #AU
increase, most from 10-15% with especially sharp increases over
the last two weeks.                                                    1h

CONCLUSIONS                                                            2

It is our conclusion that system use is increasing and that when
the allocation was decreased (period 2), the decreased number of
users offset the increased system use resulting in very similar
averages in period 1 and 2.  Period 3 was an unusually heavy week.
Period 4 was the heaviest week included in this summary and we
feel this is because the number of users was again increased,
eliminating the balance that existed previously between number of
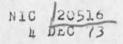users and system responsiveness.                                      2a

20501 Distribution                                                        1

Donald C. (Smokey) Wallace, Richard W. Watson, Don I. Andrews,         1a
A. Jim Blum, A. Analysis, Meredith(Reddy) E. Dively, Jeanne M.
Leavitt, Rodney A. Bondurant, Jeanne M. Beck, Mark Alexander Beach,
Judy D. Cooke, Marcia Lynn Keeney, Carol B. Guilbault, Susan R. Lee,
Elizabeth K. Michael, Charles F. Dornbush, Elizabeth J. (Jake)
Feinler, Kirk E. Kelley, N. Dean Meyer, James E. [Jim) White, Diane
S. Kaye, Paul Rech, Michael D. Kudlick, Ferg R. Ferguson, Douglas C.
Engelbart, Beauregard A. Hardeman, Martin E. Hardy, J. D. Hopper,
Charles H. Irby, Mil E. Jernigan, Harvey G. Lehtman, Jeanne B. North,
James C. Norton, Jeffrey C. Peters, Jake Ratliff, Edwin K. Van De
Riet, Dirk H. Van Nouhuys, Kenneth E. (Ken) Victor                     1b

A Look at System Responsiveness

(J20501)  26-NOV-73 10:07;    Title:   Author(s): Susan R. Lee/SRL;
Distribution: /SRI-ARC; Sub-Collections: SRI-ARC; Clerk: SRL;
Origin: <LEE>CHANGE.NLS;3, 26-NOV-73 10:04 SRL ;

Enclosed:

NIC 20327   *NWG/RFC 591   Addition to the Very Distant Host
            Specification; D. Walden (BBN-Net).

NIC 20615   *NWG/RFC 593   Telnet and FTP Implementation Schedule
            Change; A. McKenzie (BBN-NET) and J. Postel (MITRE-TIP).

            Status of Revision Notices for NIC Functional Documents
            6740, 5145, 7104, and 5150; November 1973.

*sent to Liaisons during current week.

## JOURNALIZING AND PRINTING USERS' GUIDES                                1

My understanding of agreements with DVN & JBN on 15-NOV-73:               1a

I will journalize the TNLS Users' Guide (and other users' guides
residing under several files) as follows:                                1b

All files which comprise it will be available under one catalog
number, which will appear as a header in the document.  The
journal item will consist of a link to ARC LOCATOR, thus:                1b1

(userguides, arclocator, 2d:eb)                                          1b1a

with directions to jump to that link.  When there the user will
be directed to the various files consisting of the actual
sections of the document.                                                1b2

The hardcopy version only of the userguide will have the date
of last revision following its journal number.  That date will
be changed each time I make substantial changes in the files,
at which time a new print file will be made which will carry
that date.  Thus all hard copies will have their dates changed
when and only when I make significant changes in content.  The
catalog number will not change.                                          1b3

Users' guides which reside under only one file will also be
journalized as a link as above so that revised versions will
always be available under the catalog number.                            1c

20542 Distribution                                                          1

   Dirk H. Van Nouhuys, James H. Bair, James C. Norton, Jeanne B. North,
   Michael D. Kudlick, Richard W. Watson, Jeanne M. Beck, Kirk E.
   Kelley, Douglas C. Engelbart,                                          1a

journalizing and printing users' guides

(J20542)  26-NOV-73 12:00;   Title:  Author(s): Jeanne M. Beck/JMB;
Distribution: /DVN JHB JCN JBN MDK RWW JMB KIRK DCE; Sub-Collections:
SRI-ARC; Clerk: JMB;

A Just-About-Final Journal Privacy Proposal

Pass this along to a friend if it seems appropriate.

A Just-About-Final Journal Privacy Proposal


SUBJECT -- Support for Private Journal Dialog                              1

REFERENCES -- The following is a summary of the dialog on NLS
file/journal privacy of which I am aware.                                 2

   (16021,) -- RWW -- "Some Initial Thoughts on Privacy"                  2a

   (16027,) -- DSK -- "A First Hack at File Privacy Requirements"         2b

   (16052,) -- JEW -- "Privacy in Journal Dialog -- Initial Thoughts"    2c

   (18976,) -- JEW -- "Proposed Design for Initial Privacy Features"     2d

   (18982,) -- JCN -- "Questions About Private-Journal Catalogs and
   Speed of Proposed Implementation"                                     2e

   (18993,) -- JSP -- "Comments on NLS Privacy"                          2f

   (19001,) -- HGL -- "On Initial Privacy Features (18976,)"             2g

   (19053,) -- SRL -- "A Comment on Journal Privacy"                     2h

   (19055,) -- MDK -- "On Proposed Initial Privacy Features"             2i

   (19060,) -- CHI -- [Untitled]                                         2j

   (19619,) -- JEW -- "Another Look at Privacy"                          2k

PROPOSAL -- The changes and additions to NLS indicated here will be
made at once (barring negative responses to this document).   If you
have concerns about this proposal -- things in it or absent from it
-- now is the time to speak up.                                           3

   GROUNDWORK                                                            3a

      In this proposal, the task of identifying the user is
      performed, as at present, by the monitor in conjunction with
      the EXEC.   Access restrictions within the Journal rely upon
      this function having been performed at login.   The task of
      determining whether the logged in user should be permitted to
      load a particular Journal file is performed by NLS.             3a1

      Wherever NLS idents fall in one-to-one correspondence with
      TENEX directories, full fexibilitly with regard to assignment
      of Journal access controls will exist.   But whenever more than
      one ident is assigned to a single directory [i.e., whenever
      several users are forced to masquerade before the monitor as a
      single individual), then such users will be effectively

A Just-About-Final Journal Privacy Proposal

indistinguishable in terms of effective access control (since
they can login as one another without detection).                    3a2

Therefore, if one desires that a user be reliably identifiable
for purposes of using the Journal for private dialog (indeed
for ANY purpose), one must be willing to commit the necessary
resources to him (e.g., directory space).                            3a3

A NEW JOURNAL SUBCOMMAND                                              3b

Tentative Syntax:                                                    3b1

   "LIMIT" <"Read Access to users"> identlist CONFIRM      3b1a

Function:                                                            3b2

A.  The Journalized document will be loadable only by a
member of the following set of users:                                3b2a

   identlist authorlist distributionlist                   3b2a1

'Identlist', 'authorlist', and 'distributionlist' may, of
course, contain group, as well as individual idents.  Any
user who is a member of such a group (or of a group which is
itself a member of the group, etc.) will be permitted to
load the document.                                                   3b2b

B.  Only members of that same set of users will be permitted
to receive secondary distribution of the document.                   3b2c

C.  The ARC access-copy printing machinery will bypass the
document.                                                            3b2d

Implementation:                                                      3b3

A.  Regardless of whether the document is intended for
delivery as a message or file (i.e., whether its text or
link is to be delivered), the document will be stored by the
Journal as a separate file.                                          3b3a

B.  The Journal will set a bit in the file, thus marking it
private, and store in its origin statement a string of the
form:                                                                3b3b

   .Read List=distributionlist identlist authorlist;      3b3b1

C.  The same list will be stored in the document's catalog
entry.                                                               3b3c

D.  NLS's 'Open File' primitive will check the private file bit, and if it finds it set, extract the Read List from the origin statement, and verify that the login ident is implied by that list.  If not, the user's attempt to open the file will be aborted.                                          3b3d

   i.  Upon the user's first attempt to open a private file, NLS will construct a list of idents, composed of his individual ident and the idents of all groups of which the login user is directly or indirectly a member.  All successive atttempts within an invokation of NLS will exploit this list, built only once and stored as a global string.                                              3b3d1

      [A better solution here for the long term (one which should be pursued in parallel with implementation of this proposal) is to maintain this list in the user's ident file entry, updating it as group memberships change, and load it upon entry to NLS. ]            3b3d1a

   ii.  The user is permitted to open the file if and only if that list and the Read List overlap.                   3b3d2

E.  Members of secondary distribution lists will be checked for access to the document, using the copy of the Read List stored in the catalog, since the document itself may be archived.                                             3b3e

F.  The document will be protected in its various transition states (e.g., while it resides in <TEJOURNAL>) using normal TENEX access controls.                                 3b3f

G.  The Journal will do its part to assure the integrity of private documents at delivery by (whenever it has occasion to create an initial file for a user in the distribution list) assigning TENEX read access only to the TENEX user in whose directory the file resides.                    3b3g

H.  NLS and the EXEC will assure themselves of the logged in user's identity by:                                       3b3h

   i.  Verifing that the ident typed by the user is assigned to the login directory whenever the EXEC must ask the user for his ident at login.                               3b3h1

   ii.  Removing the EXEC's CHANGE IDENT command, or modifying it to permit only a change to another ident assigned to the same TENEX directory.                 3b3h2

A Just-About-Final Journal Privacy Proposal

[A better solution here probably is to substitute a
generalization of the EXEC's CONNECT command, with two
idents being maintained by the monitor -- a login and
a connected-to ident -- with access checks based upon
the latter.]                                                    3b3h2a

iii.   Removing the Journal's CLERK subcommand, and always
taking the login ident to be Clerk.                            3b3h3

Notes:                                                          3b4

A.   The fact of a document's existence and its catalog entry
are always public and cannot be protected.                     3b4a

B.   Although the access control mechanism has the potential
for protecting any (i.e., non-Journal, as well as Journal)
file, that more general facility is explicitly denied the
user at present.  Though he can insert what looks like a
Read List in the origin statement of any file, he has no way
of setting the private bit.                                    3b4b

20543 Distribution                                                          1

Donald C. (Smokey) Wallace, Richard W. Watson, Don I. Andrews, John
S. Perry,                                                                   1a

A. Jim Blum, A. Analysis, Meredith(Reddy) E. Dively, Jeanne M.
Leavitt, Rodney A. Bondurant, Jeanne M. Beck, Mark Alexander Beach,
Judy D. Cooke, Marcia Lynn Keeney, Carol B. Guilbault, Susan R. Lee,
Elizabeth K. Michael, Charles F. Dornbush, Elizabeth J. (Jake)
Feinler, Kirk E. Kelley, N. Dean Meyer, James E. (Jim) White, Diane
S. Kaye, Paul Rech, Michael D. Kudlick, Ferg R. Ferguson, Douglas C.
Engelbart, Beauregard A. Hardeman, Martin E. Hardy, J. D. Hopper,
Charles H. Irby, Mil E. Jernigan, Harvey G. Lehtman, Jeanne B. North,
James C. Norton, Jeffrey C. Peters, Jake Ratliff, Edwin K. Van De
Riet, Dirk H. Van Nouhuys, Kenneth E. (Ken) Victor                          1b

A Just-About-Final Journal Privacy Proposal

(J20543)  26-NOV-73 13:53;    Title:  Author(s): James E. (Jim)
White/JEW; Distribution: /SRI-ARC JSP; Sub-Collections: SRI-ARC; Clerk:
JEW;
Origin: <WHITE>PRIVPROP.NLS;9, 26-NOV-73 13:48 JEW ;

Systems Programmer Applicant

To: CFD/ CHI/ DSK/ HGL/ EKM/ KEV/ DCW /JEW/ RWW

Les Abrams
  WILL BE HERE TUESDAY DEC 4 10:45 AM (till NOON)
as applicant for Systems Programmer- (He is also interviewing with
Dave Brown and Peter Hart on the same day. He can come back for
further interviews on another day if we're interested.)

  Mr. Abrams is currently with Qantel Corporation, Hayward, in Data
Communications. His resume, which claims expertise in mini-computer
real-time operating systems, data communications, and systems
software, is being xeroxed and distributed to you.                    1

20544 Distribution                                          1
    Charles F. Dornbush, Charles H. Irby, Diane S. Kaye, Harvey G.
    Lehtman, Elizabeth K. Michael, Kenneth E. (Ken) Victor, Donald C.
    (Smokey) Wallace, James E. (Jim) White, Richard W. Watson,          1a

Systems Programmer Applicant

(J20544)   26-NOV-73 15:28;   Title:   Author(s): Michael D. Kudlick/MDK;
Distribution: /CFD CHI DSK HGL EKM KEV DCW JEW RWW; Sub-Collections:
SRI-ARC; Clerk: MDK;

VDH Addition to SRI-ARC  IMP

Ed Schelonka says that Vint Cerf's  VDH connection to the SRI-ARC
IMP  is scheduled for Dec 6th.  If there are any problems with this,
ARC should send him a note (Schelonka@USC-ISI).                           1

VDH Addition to SRI-ARC IMP

(J20545)   26-NOV-73 16:01;   Title:   Author(s): Michael D. Kudlick/MDK;
Distribution: /RWW JCN JEW; Sub-Collections: SRI-ARC; Clerk: MDK;

Good Progress on L10

Steve:  It was good to hear from you.  I'm glad you are making
progress.  You are among the quickest of my "students".  You're
absolutely right, SYSGD is rather uniformative to the novice, for
which I should apologize.  We are hoping that, as the system gets
rewritten for the new command language, the procedures will be better
commented.  This should allow indexing of SYSGD.                         1

It sounds like you are doing quite well.  However, from the questions
you did ask, I would guess it would be wiser for you to check the new
L10 manual to make sure you understand everything up to section 7.
I'm serious about wanting you to get a firm foundation before
progressing to more confusing program structures.                        2

In content, your program (uk-ics,ca2,) looks fine.  I would suggest
some format-type changes that might make it easier to read (a very
relevant problem as programs get more complex).  You could be making
better use of structure.  I like VERY much the way you put code under
comments.  That is always the biggest help.  You might also:            3

   put the content of a loop or a (IF) THEN or (IF) ELSE as
   substructure to the LOOP or IF statement,                            3a

   everything could be substructure of the program statement,           3b

   statements 5 through 10 could be substructure of the PROCEDURE
   statement.                                                           3c

Structure can be very valuable for understanding an unfamiliar
program.  Please understand that these are just suggestions.  I am
very impressed with the speed with which you have gotten this far.
The code itself looks good.  It would be more efficient if you could
combine all the FINDs into one statement.  Declaring text pointers
(you'd need a bunch more) is cheap, FIND statements are very slow.      4

CCPOS is always initiallized to the front of each new statement, and
the scan direction is set to right for each new statement.  You don't
want to set a pointer in one statement and then initialize the scan
of the next statement back in the previous statement.  You may set a
pointer to the current CCPOS with a statement like                      5

   FIND ↑pt ;                                                           5a

but you can't just say ↑pt; .  The sttatement you saw in sort key
extractor programs of the form                                          6

   ↑pt ← char;                                                          6a

puts a value into a field to which the byte pointer "pt" is pointing.

Good Progress on L10

That is not covered in the L10 manual, but if you get through that
and feel you need to know about byte pointers, we can get into that.        7

The two patterns you mentioned in statement 3 of (ijournal,20486,3)
are identical.  They should both pass patterns of the form                 8

    $PT SP $PT 2$SP                                                         8a

which is what I assume you meant.  If they didn't, I can't imagine
why.  Try again and if you still have trouble, I'll look at the
specific example.                                                          9

It's a re l pleasure to work with someone who has the ambition to
study programs in the user programs library.  I hope the L10 Guide
will be equally informative.  It's also a pleasure to work with
someone who understands what he studies.  Keep up the good work.
Hear from you soon, I hope.                                                10

                    --Dean                                                 11

Good Progress on L10

(J20546)  26-NOV-73 17:02;    Title:   Author(s): N. Dean Meyer/NDM;
Distribution: /SRW; Sub-Collections: SRI-ARC; Clerk: NDM;
Origin: <MEYER>TEMP.NLS;1, 26-NOV-73 17:01 NDM ;

110 string declarations

Dean -- It appears that I have the choice of delcaring the maximum
length of a string, with its contents being initialized to null, or
of chinitializing the contents and not being able to have the max.
lenth be different from the length of my initialization string.

is this true? D/                                                      1

110 string declarations

(J20547)    26-NOV-73 21:26;    Title:    Author(s): David H. Crocker/DHC;
Distribution: /NDM; Sub-Collections: NIC; Clerk: DHC;

Tickler for week of 26 Nov — Additional Info

(nm5) 26 November — Monday                                                    1

   0830 hrs. Branch Chief's Meeting                           1a

   Due Date — ISI/FJT — Management Support for R&D Program from DDR&E
   — Completed                                                 1b

   Col Thayer — Leave                                          1c

(nt5) 27 November — Tuesday                                                   2

   Col Thayer — Leave                                          2a

(nw5) 28 November — Wednesday                                                 3

   Representatives from AFDSC will visit RADC/Bergstrom (Focal Point)
   to begin testing of DM-1 System — Will be here through the 30th   3a

   Due Date — ISIS/ISIM — Project Engineers Bimonthly Review of Tech
   Completions — due in ISM 29 Nov                             3b

   Col Thayer — Leave                                          3c

   Due Date — ISIS/D. Marks — Technical Evaluation of PR-B-4-3232   3d

(nth5) 29 November — Thursday                                                 4

   0830 hrs. Branch Chief's Meeting                           4a

   AFSC Procurement Policy Briefing — Bldg. 106 — Auditorium — 1000
   hrs. thru 1400 hrs.   All Engineers involved in PRs should attend
   per F. Tomaini.                                             4b

   Laboratory Activity Reports due today:   Bucciero must have them by
   1000, ISM must have them by 1100, and DOT must have them by 1600.   4c

   Due Date — ISIM/Bergstrom — Joint Services Electronics Program
   (JSEP) Proposal Review.   Completed                         4d

   0900 — 1000 hrs. — Officer's Commanders Call — Bldg. 106 —
   Auditorium                                                  4e

   Col Thayer — Leave                                          4f

(nf5) 30 November — Friday                                                    5

   Due Date — ISIM/Ray Liuzzi — Technical Evaluation — PR-B-4-3245   5a

   Form 2's (employee time expenditures) are due today.        5b

Form 6's (projected manpower) are due today.                                     5c

Bobbie:   Travel figures due by noon.                                            5d

Due Date - ISI/ISIS/ISIM - Course Forms for Data Base due today
into ISI/Bobbie                                                                  5e

Col Thayer - Leave                                                               5f

Tickler for week of 26 Nov - Additional Info

(J20548)  27-NOV-73 06:16;   Title:   Author(s): Roberta J. Carrier/RJC;
Distribution: /RADC; Sub-Collections: NIC RADC; Clerk: RJC;

20548 Distribution
Larry M. Lombardo, Anna A. Cafarelli, Roberta J. Carrier, Donna R. Robilotta, David L. Daughtry, Richard H. Thayer, Frank J. Tomaini, Mike A. Wingfield, Edmund J. Kennedy, Ray A. Liuzzi, John W. Johnson, Donald Van Alstine, Dean F. Bergstrom, William P. Bethke, Frank S. LaMonica, William E. Rzepka, Rocco F. Iuorno, Frank P. Sliwa, Thomas J. Bucciero, Robert E. Doane, David A. Luther, Roger B. Panara, John L. McNamara, Joe P. Cavano, Duane L. Stone, Marcelle D. Patell, Josephine R. Stellato, Robert K. Walker, Thomas F. Lawrence, James H. Bair,

1

Letter To D. Vaskevitch

Augmentation Research Center
Stanford Research Institute
Menlo Park, California 94025

David Vaskevitch
c/o Prof. Peter Meinke, Vice Provost
University of Toronto
Simcoe Hall
Toronto M5S 1A1
Ontario, Canada

Dear Mr. Vaskevitch:

Professor Pauline Atherton has told us you would be
interested in information about our augmentation work. I am
enclosing some reports which describe what we're doing. When
you've seen them perhaps you will want to comment or ask
questions.                                                    1

In return, we'd like to have information about your work.
Please send us anything you've prepared which describes it.   2

                         Sincerely,


                         Jeanne B. North
                         Augmentation Research Center

JBN/jml

Enclosures

20549 Distribution
    Douglas C. Engelbart, James C. Norton, James H. Bair,

Letter To D. Vaskevitch

(J20549)  30-NOV-73 11:34;    Title:   Author(s): Jeanne B. North/JBN;
Distribution: /DCE JCN JHB; Sub-Collections: SRI-ARC; Clerk: JML;
Origin: <LEAVITT>VASKEVITCH.NLS;1, 30-NOV-73 11:11 JML ;

Letter to Don Jackson, sending some ARC publications

Augmentation Research Center
Stanford Research Institute
Menlo Park, California 94025

Mr. Donald Jackson
Central Intelligence Agency DCI/IC/IHC
Room 6E2917
Washington, D. C. 20505

Dear Mr. Jackson:

I am enclosing the following ARC publications for your
attention.                                                          1

D. C. Engelbart, AUGMENTING HUMAN INTELLECT: A CONCEPTUAL
FRAMEWORK, SRI Project AFOSR-3223, October 1962  (XDOC --
3906)                                                               2

D. C. Engelbart and W. K. English. "A Research Center for
Augmenting Human Intellect", AFIPS Proceedings, Fall Joint
Computer Conference, 1968, Washington, D.C. (XDOC -- 3954.)         3

Augmentation Research Center, ONLINE TEAM ENVIRONMENT:
NETWORK INFORMATION CENTER and COMPUTER AUGMENTED TEAM
INTERACTION, Final Report on project RADC-TR-72-232, June
1972 (Journal -- 13041,)                                            4

J. C. Norton, R. W. Watson,  WORKSHOP UTILITY SERVICE FOR
ARPA AND IPT CONTRACTOR USE OF KNOWLEDGE WORKSHOP UTILITY,
Technical Proposal to ARPA/IPTO, SRI No. ISU 73-5, March 1973
(Journal -- 14946,)                                                 5

J. B. North, EXPERIMENTAL DEVELOPMENT OF A SMALL
COMPUTER-AUGMENTED INFORMATION SYSTEM, Annual Report on ONR
project N00014-70-C-0302, April 1973 (Journal -- 16508,)            6

D. C. Engelbart, R. W. Watson, J. C. Norton, THE AUGMENTED
KNOWLEDGE WORKSHOP, paper presented at the National Computer
Conference, New York City, June 1973. (Journal -- 14724.)           7

D. C. Engelbart, DESIGN CONSIDERATIONS FOR KNOWLEDGE WORKSHOP
TERMINALS, paper presented at the National Computer
Conference, New York City, June 1973. (Journal -- 14851.)           8

J. C. Norton, R. W. Watson,  NETWORK INFORMATION CENTER AND
AUGMENTED KNOWLEDGE WORKSHOP DEVELOPMENT, Technical Proposal

Letter to Don Jackson, sending some ARC publications

to ARPA/IPTO, SRI No. ISU 73-128, August 1973 (Journal --
18368,)                                                              9

J. C. Norton, R. W. Watson, WORKSHOP UTILITY SERVICE FOR THE
USE OF KNOWLEDGE WORKSHOP TECHNOLOGY, Technical Proposal to
Bell Canada, SRI No. ISC 73-147, October 8, 1973 (Journal --
19250,)                                                             10

                    Sincerely,


                    Douglas C. Engelbart
                    Augmentation Research Center


DCE/jml

Letter to Don Jackson, sending some ARC publications

(J20550) 14-DEC-73 14:14; Title: Author(s): Jeanne M. Leavitt/JML;
Sub-Collections: SRI-ARC; Clerk: JML;
Origin: <ENGELBART>LJACKSON.NLS;2, 11-DEC-73 15:22 DCE ;

RE - TRAVEL VOUCHERS

Info Cy - Col Thayer

RE - TRAVEL VOUCHERS

PLEASE BE ADVISED THAT PERFRANK TOMAINI NO TRAVELVOUCHERS ARE TO BE
HANDCARRIED.   THEY MUST BE SUBMITTED THROUGH THE BRANCH OFFICE WITH
TRIP REPORT.    PLEASE COMPLY                                              1

RE - TRAVEL VOUCHERS

(J20569)   27-NOV-73 07:54;   Title:   Author(s): Roberta J. Carrier/RJC;
Distribution: /RADC; Sub-Collections: NIC RADC; Clerk: RJC;

20569 Distribution

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

1

Tomorrow (28 Nov.) at 1330 D L Stone is giving a pitch and a
demonstration to the SADPR- 85 study group.  Your cooperation is
solicited.  Anything you can do to insure that DLS has access to the
system at that time will be appreciated.  Since the RADC quota at
that time of day is only two, the best thing that you can do is to
stay off.                                                                          1

(J20570)  27-NOV-73 08:37;    Title:    Author(s): Edmund J. Kennedy/EJK;
Distribution: /RADC JCN(Info); Sub-Collections: RADC; Clerk: EJK;

20570 Distribution
Larry M. Lombardo, Anna A. Cafarelli, Roberta J. Carrier, Donna R.
Robilotta, David L. Daughtry, Richard H. Thayer, Frank J. Tomaini,
Mike A. Wingfield, Edmund J. Kennedy, Ray A. Liazzi, John W. Johnson,
Donald Van Alstine, Dean F. Bergstrom, William P. Bethke, Frank S.
LaMonica, William E. Rzepka, Rocco F. Iuorno, Frank P. Sliwa, Thomas
J. Bucciero, Robert E. Doane, David A. Luther, Roger B. Panara, John
L. McNamara, Joe P. Cavano, Duane L. Stone, Marcelle D. Petell,
Josephine R. Stellato, Robert K. Walker, Thomas F. Lawrence, James H.
Bair, James C. Norton,

1

A Suggested List of Analysis Papers for ARC's 1974 Report

ANALYSIS PAPERS FOR ARC'S 1974 REPORT                                    1

The next ARC annual report will be due around March 1974.  It will be
made up of a series of technical papers that correspond to the
various activities within ARC.  In particular, next year, Dick wants
to have a series of papers reporting about the activities of
Analysis.                                                                2

I gave him he following list as possible candidates for inclusion in
the report.  The suggested names, as well as the list itself, are
still tentative, and my only intention for the time being is to get
the process started.                                                     3

  Superwatch: Technical Description ( DIA )                             3a

  Experience with Superwatch ( SRL & DIA )                             3b

  NLS Command Frequencies ( SRL )
  Timing of NLS Commands ( SRL )
  Usage Profiles of NLS Users ( SRL )
  Evaluation of the new NLS and comparison with previous version
  ( SRL )                                                              3c

  Overall Performance of NLS within the ARC Environment ( PR & SRL )   3d

  Experience with ARC's Group Allocation System ( PR & DCW ))         3e

  Analysis within ARC ( PR )
  An R&D Community for Augmentation Research ( PR )
  The Concept of an EVolutionary Information Center ( PR )
  An analysis of Personal Information Management Needs ( PR )          3f

Please, give me your suggestions and comments about the whole
subject.  Does end of February seem a reasonable deadline fo the
first drafts?                                                            4

A Suggested List of Analysis Papers for ARC's 1974 Report

(J20571)  27-NOV-73 09:20;    Title:   Author(s): Paul Rech/PR;
Distribution: /RWW SRL DIA DCE; Sub-Collections: SRI-ARC; Clerk: PR;
Origin: <RECH>PAPERS.NLS;4, 27-NOV-73 09:15 PR ;

this is a test of the journal system, larry

from K.S.H. attached tto C.A.C. report                                         1

    THE LETTER THAT WAS SENT HAD DIFFERENT WORDING THAN THIS DRAFT
VERSION                                                                        1a

    The attached report, "Computer-Augmented Conferencing - Its Impact
on Bell Canada", was prepared last summer by the Business Planning
Group, H.Q. Planning.  It is being distributed at this time to
keep you aware of the developments in the field of
computer-augmented conferencing.  Some of the recent developments
in this field are outlined below.                                              1b

    A number of the report's recommendations have been implemented
since it was written.  The Business Planning Group is now making
extensive use of the computer-augmented conferencing systems
developed by Stanford Research Institute and Institute for the
Future (described in the report).  Additional funding has been
extended by the group to the Systems Engineering Group at
Bell-Northern Researchh to carry out their work on
computer-augmented conferencing.  Perhaps most important, the
popularity of the computer-augmented conferencing concept is
spreading rapidly.  In addition to research interest now
developing within TCTS, a number of outside organizations have
expressed an interest in BNR's research.  Some of these
organizations represent government or university groups, but
others represent companies that might conceivably offer some sort
of conferencing capability to the general public as a commercial
venture.  Since Bell Canada may wish to enter this market as well,
these outside groups shold be regarded as potential competitors
for a potential new service offering.                                          1c

    Develpments in tis field are taking place rapidly.  H.Q. Planning
will keep you informed of the status of this project as it
evolves.                                                                       1d

this is a test of the journal system, larry

(J20572) 27-NOV-73 10:26; Title: Author(s): Michael T. Bedford/MIKE;
Distribution: /LHD; Sub-Collections: NIC; Clerk: MIKE;

20572 Distribution
    Lawrence H. Day,

this is a test to self

to John Gilliand - Dep't. of Environment : Nov. 22/73                1

Mr. John Gilliand
Inland Wates Directorate
Department of the Environment
Place Vincent Massey
St. Joseph Boulevard
Hull, Quebec                                                         1a


Dear Mr. Gilliand:                                                   1b

I understand that the Department of the Environment is becoming
increasingly interestted in technological forecasting and
technology assessment, and that the Inland Waters Directorate is
currently researching some methodologies that have received
substantial use in this department.                                 1c

<BELL>PHIL.NLS;1, 22-NOV-73 11:12 MIKE ;                             1d

    FVenture Management Distribution LetterUTURES INFORMATION
    SYSTEM, PHASE TWO                                                1d1

        EXTENSION TO OTHER DEPARTMENTS                               1d1a

        IMPROVEMENTS TO EXISTING SYSTEM                              1d1b

            GREATER FLEXIBILITY IN THE USAGE OF KEY WORDS TO RETRIEVE
            TEXT                                                     1d1b1

            PdirARTICIPATION OF PLANNERS IN THE SELECTION OF
            FORECASTS                                                1d1b2

            SELECTION OF PERSONNEL TO CONTINUE ABSTRACTING           1d1b3

I have enclosed a number of documents which I believe will be of
interest to you and your group.  We refer to the documents loosely
as "the Delphi package", because it summarizes in a few volumes
our experiences to date with the technique.  In addition to the
reports that were written to document four of the studies we have
conducted, there is "Delphi - The Bell Canada Experience" (a
collection of papers on the use of the technique), and "A
Technology Assessment of Future Home Communications Services - A
Study Proposal" (which outlines some of our reservations about
Delphi and proposes an alternative methodology developed within
this group).                                                        1e

We have distributed a number of copies of these papers, and there
is never any charge to the recipient.  We ask recipients to share

this is a test to self

their similar experiences with us, however, in the hope that a
community of planners will develop in this area.                          1f

We are looking forward to hearing from you; I hope the enclosed
literature is useful.                                                     1g

Yours sincerely,

Michael T. Bedford
Supervisor - Business Planning                                           1h

this is a test to self

(J20573)  27-NOV-73 10:27;   Title:  Author(s): Michael T. Bedford/MIKE;
Distribution: /MIKE; Sub-Collections: NIC; Clerk: MIKE;

20573 Distribution
    Michael T. Bedford,

A suggestion on NLS File Structure, with Application to Back-Links
and Output Processor Directives

MOTIVATION                                                                                      1

This brief note has been motivated in part by discussions with
Charles P. Bourne, Kjell Samuelson, and Pauline Atherton, during
their recent visit to ARC.  These three members of ASIS were
interested in NLS, especially from the standpoint of dialogue and
reference support.  They were concerned that we had not
implemented any solution to the problem we at ARC have referred to
as "back-links".                                                                               1a

Consequently, I've been thinking about the problem again, and I
want to share what I believe to be a useful scheme for organizing
and storing back-link and similar information for files.  The
scheme is intended to make it practicable that                                                 1b

    a)  the back-link and other similar information be
    automatically displayed at the time a file is read, but                                    1b1

    b)  the original file remains unchanged.                                                   1b2

In addition to being applicable to Journal files, the scheme also
should be applicable to an unrelated problem associated with use
of the Output Processor.  These two applications are described in
this note, after a sketch of the general scheme is given.

                                                                                               1c

SCHEME                                                                                          2

The scheme is an extension of the "partial copy" concept, and has
these attributes:                                                                              2a

There should be a new file type (or at least a new distinct subset
of existing NLS files), which for want of a better name I am
suggesting we call a  "quasi"  partial copy (QPC) ---  namely a
file which has some but not all the attributes of partial copies.                              2b

The QPC of a file F would not normally be visible separately from
F; the QPC's contents would normally be seen only when "merged"
with those of F at the time a viewer looks at F.  (Here of course
the QPC shares a very important attribute of ordinary PC's, namely
that it is intimately tied to the structure of the parent file F.)                             2c

The QPC would have its own PC, in order to allow someone to make
modifications to the QPC while others are viewing  F + PC + QPC.
(Here the QPC has some of the attributes of an ordinary NLS file.)                             2d

Three new mutually exclusive viewspecs are recommended:                                        2e

A suggestion on NLS File Structure, with Application to Back-Links
and Output Processor Directives

capital X:  show  F  together with its  QPC  (this would be the
default viewspec)                                                          2e1

capital Y:  show  F  but not F's  QPC                                      2e2

capital Z:  show  F's  QPC  but not  F                                     2e3

When updating  F  the contents of  F's  QPC (and of the QPC's PC)
would be IGNORED by NLS.  (This is the crucial distinction between
a PC and a QPC.)                                                            2f

Update File QPC  and Output File QPC  would be possible only when
viewspec Z  is on.                                                         2g

Implementation of the QPC concept would have to be compatible with
BSYS (especially the Archive System).                                      2h

JOURNAL SYSTEM APPLICATION                                                 3

For Journal files, the main goal of introducing the QPC concept is
to be able to preserve back-links and notes that are made to a
Journal file, and to be able to see them at the time that Journal
file is read.                                                              3a

These back-links and notes would be stored in the Journal file's
QPC,  and so would be visible to the user; but they would not
alter the contents of the original Journal file.                           3b

The QPC of a Journal file F would therefore have four main
purposes:                                                                  3c

- to hold links back to other Journal files that "obsolete" F.            3c1

   These links would automatically be stored in a separate
   branch of the QPC when the Journal subcommand "obsolete" was
   used.                                                                   3c1a

- to hold links back to other Journal files that "update"  F.             3c2

   These links would automatically be stored in a separate
   branch of the QPC when the Journal subcommand "update" was
   used.                                                                   3c2a

- to hold links back to other Journal files that "cite" F.                3c3

   These links would automatically be stored in a separate
   branch of the QPC when the Journal system discovers a link

A suggestion on NLS File Structure, with Application to Back-Links
and Output Processor Directives

to  F  in the origin statement of a different Journal file,
G.                                                                  3c3a

- to hold notes that are placed there (in a "NOTES" branch of
the QPC) by what I propose be a new Journal system subcommand,
"submit note".                                                      3c4

"submit note" would be similar to submit message or submit
statement, in that only one statement's worth of note would
be allowed.  But instead of creating a separate Journal item
for the note that is submitted, the submit note subcommand
would append the note to the "NOTES" branch of the QPC of F.       3c4a

The submit note subcommand could also (if thought
desireable) cause a footnote indication to be made in the
QPC at the statement the note refers to, so that the
reader of  F  would be aware of the note when reading the
relevant statement in  F.                                          3c4a1

If a viewer wanted to see just the original Journal file  F, he
need only jump to it with viewspec  Y  on, or turn  Y  on while
viewing  F.                                                        3d

If user  A  was submitting a Journal item which caused
modification to F's  QPC  while viewer  B  was looking at  F,
then the modifications caused by viewer  A  would be stored in the
QPC's  PC  (i.e., the QPC would be locked).  The QPC would be
updated by a background process (before or during archiving),  and
viewer  B  would not be able to see the modifications until after
that update had taken place.                                       3e

OUTPUT PROCESSOR APPLICATION                                        4

For the Output Processor, the main goals are                       4a

1) to permanently remove the directives from the text, thereby
making it possible to view a file on-line without seeing the
directives, and without having to invoke a process that scans
for and deletes the directives.                                    4a1

2) to remove what I perceive as one barrier to certain types of
further development of the Output Processor, the barrier being
that the O.P. doesn't know at once where all the directives are
embedded, and it must always look for them (a time-consuming
process).                                                          4a2

To achieve these goals through the QPC scheme, we would need a new
noun (the word "directive" seems obvious) in the text editing

A suggestion on NLS File Structure, with Application to Back-Links
and Output Processor Directives

commands.    Then the commands insert directive, copy directive,
substitute directive, etc., would all do their thing in the QPC,
without changing the original file  F  at all.   That is, each
directive that is inserted, moved, copied, etc by a user would
exist in the QPC (where it would be explicitly or implicity
coupled to a DAE) and would be manipulated by NLS in the QPC.                    4b

The display generator and output quickprint would be able to
ignore directives and not display them, simply by use of viewspec
"Y"  (show F but not its QPC).   But the option to see the
directives would be available with viewspec "X" (show F and its
QPC).                                                                            4c

The Output Processor would (in principle, at least) be able to run
much faster.   It would read the QPC separately from the parent
file  F, so that it had a kind of "road-map" to the directives,
and could handle statements without having to scan them to find
the directives.   I think this would open up new possibilities for
directives, and especially for human engineering of the whole O.P.
concept.                                                                         4d

A suggestion on NLS File Structure, with Application to Back-Links
and Output Processor Directives

(J20574)  27-NOV-73 10:36;   Title:  Author(s): Michael D. Kudlick/MDK;
Distribution: /SRI-ARC NP; Sub-Collections: SRI-ARC NP; Clerk: MDK;
Origin: <KUDLICK>FILES.NLS;8, 27-NOV-73 10:33 MDK ;

Comment on Jim White's Privacy Proposal-- (20543,):   Some Questions

What about the earlier proposal to provide an encryption mechanism in
NLS?  I assume that the current proposal will not affect that.   Also,
is there any thought to making parts of files (e.g., statements,
branches, etc.) private to some users?  For the forms/query system we
may want or need such a feature.  What about the feasibility of such
a feature?  (Perhaps an access list associated as a property node
with a statement or branch in the new file structure if it is ever
implemented.)  Otherwise, Jim's proposal seems to solve some
immediate privacy problems associated with the Journal.                    1

Comment on Jim White's Privacy Proposal-- (20543,):  Some Questions


(J20575)   27-NOV-73 10:44;   Title:  Author(s): Harvey G. Lehtman/HGL;
Distribution: /SRI-ARC; Sub-Collections: SRI-ARC; Clerk: HGL;

DEX-2 Reply to SRW's   (20444,)

I read the inquiry concerningthe use of DEX-2 from Steve Wilbur (SRW)
in England (20444,).   DEX-2 has never been completely tested in
production runs at ARC and therefore, until it is, I feel it cannot
be made available to other users.  While all commands seemed to work
on small test runs in June, undetected bugs wil no doubt turn up in
production testing.   Also, with the change in command language in the
rest of NLS and the possibility of using CML to interpret sequential
file input, many of the facilities of DEX-2 may be obsolete or may
need to be modified.                                                    1

DEX-2 Reply to SRW's  (20444,)

(J20576)    27-NOV-73 10:56;    Title:   Author(s): Harvey G. Lehtman/HGL;
Distribution: /SRW(I'll keep you informed about any new developments)
DCE KIRK DVN CHI; Sub-Collections: SRI-ARC; Clerk: HGL;

It's Fergs turn in the barrel

As many of you know I am now working fulltime with NLS and CML. I
would like you therfore to please contact FERG for all TENEX related
problems. FERG is doing an outstanding job in covering the TENEX
front and can answer most all your questions. I am still available to
help in emergency situations but for the day-to-day stuff I would
appreciate you contacting Ferg.    Smokey                                     1

It's Fergs turn in the barrel

(J20577)   27-NOV-73 12:20;   Title:  Author(s): Donald C. (Smokey)
Wallace/DCW; Distribution: /SRI-ARC; Sub-Collections: SRI-ARC; Clerk:
DCW;

Request for Information regarding Network Access


Request for Information


So that I may better relate to people who inquire, could you please
tell me what policy, if any, governs network access to the NIC. I
have been of the understanding that the Network Users where assured
of access slots in number equal to the number specified when doing a
groUPSTAT after logging in as a net user. To my dismay, I see that a
guest job has been occupying one of these allocated slots for in
excess of 26 hours of connect time and in excess of 5:44:00 used CPU
time, and that SIGART has been connected for in excess of 3 hours
with cpu usage of: 0:02:46. Upon further exploration, through:
<guest>who.sav;*, it appears that both of these jobs are local to
SRI-ARC, leaving a net balance of one slot for network users under
this allocation.

I spent in excess of one hour to log in to accomplish some tasks
which had to be done today, and talked to a few other network users
who were somewhat distressed with the situation.

If there is a policy, may I invite you to publish it so that network
users can better plan their activities.

Thank you for your interest and consideration,     .....Jean                    1

Request for Information regarding Network Access

(J20578)  27-NOV-73 13:24;    Title:  Author(s): Jean Iseli/JI;
Distribution: /JCN MDK RWW; Keywords: access-network-users;
Sub-Collections: NIC SRI-ARC MITRE-TIP; Clerk: JI;

Everybody Please look at this

Plans for Final Report                                                          1

This year I would like to try a different approach to our ARPA
contract final report.  I would like to treat the report much as a
conference proceedings and have it contain a series of papers, some
of which can later be submitted elsewhere for publication.  Others
can be papers we have published.  This approach would have two
advantages:                                                                     2

    1)  We could get a good leg up on writing for publication and meet
    our final report obligations in a single effort.                          2a

    2)  As each paper would be written as if it was going to be
    published, readers of the report could more easily start anyplace
    of interest and get what they need without having to read cover to
    cover for continuity.                                                     2b

What I need is either complete or partial agreement on the suggested
papers off the top of my head below and/or suggestions for
alternatives, deletions etc.  The titles given are only meant to be
suggestive of content.  Authors are also suggestions.  I will be
around to talk to people next week about this topic.                           3

                    A Possible Table of Contents                               4

TOPIC                                             AUTHORS                       5

                        GENERAL                                                6

1)  Introduction to Report                        RWW,DCE                      6a

2)  The Augmented Knowledge Workshop (14724,) DCE,RWW,JCN                       6b

3)  Some Basic Characteristics of a Knowledge
Workshop System and Status of NLS with Respect
to Them (an update of (20367,))                   RWW                          6c

4)  Coordinated Information Services for a
Discipline or Mission Oriented Community
(12445,)                                          DCE                          6d

5)  Aspects of ARC's Technology Transfer
Strategy                                          RWW                          6e

6)  A View on the Symbiotic Relationship
Between ARC and the Applied R&D Communities       PR                           6f

7)  The Concept of an Evolutionary
Information Center                                PR                           6g

35)   The Knowledge Workshop Utility:          JCN
Background and Plans                                        12b

others?                                                      12c

(J20579) 27-NOV-73 13:47; Title: Author(s): Richard W. Watson/RWW;
Distribution: /SRI-ARC; Sub-Collections: SRI-ARC SRI-ARC; Clerk: RWW;
Origin: <WATSON>REPORT.NLS;4, 27-NOV-73 13:45 RWW ;

Request to MLK for Enterprise Survey

Marcia-                                                                                            1

We want to make a survey of the use of Enterprise service. For two
weeks, please do the following for all NIC calls received:                                         2

Ask the caller how he placed the call.                                                             3

Record the answer on the NIC log form using the code:                                              4

    DIALED      Dialed direct                                                  4a

    OPERATOR, NIC    Placed with his operator, using NIC phone number          4b

    AUTOVON    Used Autovon                                                    4c

    ENTERPRISE   Used Enterprise number                                        4d

    (Enter any other means)                                                   4e

Hold the phone log forms for JBN                                                                   5

Request to MLK for Enterprise Survey

(J20580) 27-NOV-73 13:52; Title: Author(s): Jeanne B. North/JBN;
Distribution: /MLK MDK; Sub-Collections: NIC SRIARC ; Clerk: JBN;
Origin: <NORTH>MARCIAMSG.NLS;2, 27-NOV-73 13:48 JBN ;

Steve,
Concerning your journal message of 26 November, I think your best bet
would be to contact Jake Feinler (she's here at ARC and her ident is
JAKE) -- she's in charge of the Resource Notebook and knows where all
that type of stuff is on-line and how to access it.  You might also
check with Jim White (also of ARC, ident=JEW), the Liaison here as he
is a veritable fountain of knowledge.
Marcia                                                              1

Documentation Search

(J20582)   27-NOV-73 14:34;   Title: Author(s): Marcia Lynn Keeney/MLK;
Distribution: /SRW; Sub-Collections: SRI-ARC; Clerk: MLK;

Your Change of Address -- Related Matters

When I talked to you on the phone the other day, I forgot to ask you
if you were going to keep the same local network mailbox address and
the same host name.  Let me know if there is a change in those
fields.   Thanks.
Marcia                                                              1

Your Change of Address -- Related Matters

(J20583) 27-NOV-73 14:36; Title: Author(s): Marcia Lynn Keeney/MLK; Distribution: /ELT; Sub-Collections: SRI-ARC; Clerk: MLK;

page stop for scope devices

I just tried to use the scope terminal scope option, which the exec
accepted, but which nls ignored. Any plans to incorporate the page
stop? (I hope). Dave.                                                    1

page stop for scope devices

(J20585)  27-NOV-73 14:48;  Title:  Author(s): David H. Crocker/DHC;
Distribution: /BUGS DVN; Sub-Collections: NIC BUGS; Clerk: DHC;

alex:
i talked to abhay (via network) and he agrees that what i suggested
to you is a reasonable thing to do (as he previously suggested in rfc
559). He now uses socket 69 which is a socket for "host specific"
functions and is used at ccn for their rjs. thus i have selected
socket 23 (decimal) for new Telnet. let me know what you think of the
memo. either journal to jbp or sndmsg to postel at isi (faster) or
telephone to mitre ((703) 893 3500)(fastest).
--jon.                                                                          1

(J20586)    27-NOV-73 15:15;    Title:    Author(s): Jonathan B. Postel/JBP;
Distribution: /AAM; Sub-Collections: NIC; Clerk: JBP;

Alex McKenzie [AAM] (BBN)
Jon Postel [JBP] (MITRE)                                       1

Telnet and FTP Implementation
Schedule Change                                             2

We have been contacted by several Telnet implementers and concerned
users regarding the scheduled changeover from old to new Telnet.
There is a good deal of concern about accomplishing a coordinated
changeover especially in light of the potential inconpatabilities
[RFC 559, NIC 18482]. Therefore the changeover is reformulated as
follows.                                                       3

New Telnet implementations are to be ready 1 Jan 74 (as before), but
are to use ICP socket 23 (decimal). This will provide an oppertunity
for testing and debugging the new programs in a way that does not
interfere with normal use.                                     4

Durring January we will survey the technical liasons to determine the
status of the Telnet implementations. As soon as we determine that
the Telnet implementations have reached a point where the changeover
can be made without disruption of user srevices the technical liasons
will be notified.                                              5

In light of this change in the Telnet implementation schedule, the
FTP schedule is also modified. New FTP implementations are to be
ready by 1 Feb 74 (as before), but will continue to use ICP socket 21
(decimal) until we can determine that a changeover is appropriate.    6

References:                                                    7

    Telnet Protocol            NIC 18639                      7a

    File Transfer Protocol     NIC 17759                      7b

telnet schedule memo draft

(J20587)  27-NOV-73 15:18;   Title:   Author(s): Jonathan B. Postel/JBP;
Distribution: /AAM; Sub-Collections: NIC; Clerk: JBP;

I-Colony Membership

Rosy: We are delighted to welcome you and know you bring a real
strength to the achievement of our objectives. Mil will refer you to
appropriate material we are working on; please feel free to link to
any of us and rap about things of common interest. We are absolutly
delighted to have you join us and look forward to many fruitful
dialogs and joint accomplishments.                                      1

I-Colony Membership

20589 Distribution
    Al J. Rosenfeld, Al J. Rosenfeld, David M. Grothe, John D. Day, Alan
    R. Hill, Clayton A. Greer, Jean Iseli, Jim O. Calvin, Mil E.
    Jernigan,

Introduction                                                         1

   For a long time now, we have realised that there will be a
   distribution problem for ARPA Network documentation once the
   British node is being used regularly. The British Library
   (Lending Section) (BL) suggested that they could perhaps help
   by keeping commonly referenced documents, and allowing access
   to them through their normal channels.                           1a

   With this sort of activity in mind, a visit was made to the BL
   to look at their methods of distribution, and to see how they
   prefer to deal with small collections. The preferred
   acquisition methods are dealt with in section 5, whilst
   section 2 deals with the types of document which we may want
   distributing. This obviously has a bearing on the method of
   distribution, eg. Xerox, microform or loan, and these are
   discussed to some extent in section 3. Section 4 deals with
   the question of copyright, where whole documents are being
   reproduced.                                                      1b

Types of Document                                                    2

   Broadly, there are three types of document which are
   associated with the ARPA Network project. They are as
   follows.                                                         2a

   Small documents.                                                 2b

      About twenty items per week arrive through the normal mail.
      They are typically of only a few pages in length, and are
      not often of general interest. The majority of such items
      are also on-line at the NIC (Network Information Centre).
      Such documents at present are kept at UCL and it is
      proposed to distribute a catalogue of these items to
      registered users about once every six weeks. The catalogue
      will also exist in an on-line form at the NIC.                2b1

   Reference works at NIC.                                          2c

      A large amount of information is kept on-line at the NIC,
      including all the NIC (SRI-ARC) installation manuals,
      information about users, sites, and hosts, and some general
      documentation of other sites. This information can all be
      accessed easily, and lineprinter printouts can be made at
      UCL.                                                          2c1

   Other manuals.                                                   2d

These documents are somewhat less organised than the two
previous categories, although it is not anticipated that
there will be any problem in getting documentation from any
sites which British users are likely to use. In general
this category represents material which is not on-line.        2d1

From this it can be seen that the documents which are of most
use to users in general, rather than UCL specifically, are
user manuals of one kind or other. Typically they range in
size from 20 to over 100 pages, and the user will normally
require access to a whole volume rather than individual pages.  2e

Thus the requirement we have is somewhat different from many
which the BL deal with for their normal users, who in general
are requesting an item from a journal, but rarely a copy of a
whole work.                                                    2f

Costs of Duplication                                            3

General                                                         3a

There are basically three methods of reproducing documents
on the scale which we are interested in. Their virtues and
limitations all depend on the number of copies one requies
and the number of pages being copied.                          3a1

Let us try to arrive at some reasonably represantive
figures of circulation and document size. If the normal
material we are considering is a manual of some kind its
size is on average going to be about 50 pages, and rarely
larger than 120 pages. A proportion, possibly 30%, will be
of less than 20 pages. On the user side, we have at
present over 20 registered users, and about five who are
already active; the link has only been in operation for
three weeks at this time. Obviously, all users will not
want all documentation, but certain manuals will be
required by almost all users, so let us say we shall want
twenty copies at least of some manuals. On average the
remaining 50-60% of the collection will be required by
probably less than five users, assuming that all currently
registered users start using the network within the next
few months, and that no more users arrive.                     3a2

Now that the proportions have been estimated, let us look
at the volume of documentation over a year. Initially,
there are probably between thirty and fifty manuals which
could be ready for the BL collection within the first three
weeks, mostly in the approaching fifty page category.

After that, bearing in mind user requests, I would estimate
the number would be around the four per week level averaged
over the rest of the year.                                        3a3

From the above we are therefore talking about 250 documents
per year, and assuming 70% are large with an average size
of 50 pages, and 30% are small with average 20 pages, we
have approximately 10,000 pages in the collection in the
first year.  With 50% required by say three users, and 50%
by 20 users, this results in 125,000 pages of copies in the
same period.                                                      3a4

Thus in summary:

|            | Min | Mean | Max |
|------------|-----|------|-----|
| Docs/year  | 50  | 150  | 250 |
| Size (pp)  | 20  | 50   | 130 |
| Users (copies) | 5 | 15 | 30 |

3a5

## Xeroxing                                                       3b

The majority of the work done at the BL in terms of
duplicating is by means of Xeroxing.  They are obviously
geared up to this activity, but as we noted earlier, our
demands are somewhat different to those of their general
user.  Xeroxing rates are approximately 1p per page, and
for the volume we are talking of this amounts to  L1,250
per year.  Not only is this expensive in terms of the
requirement, but Xeroxing a fifty page manual would
effectively tie up one of their machines for half an hour.
For xeroxing, the cost is directly proportional to the
number of copies made, thus a halving of the load would
result in half the cost, and a doubling of the load a
doubling of cost.                                                 3b1

Postage of documents xeroxed by the BL must be paid for by
the user, and this would amount to about 10p per 100 pages.
Thus the postal bill for the above amount of xeroxing would
likely be around  L125 per year.                                 3b2

## Microforms                                                     3c

The preferred type of microfiche used at the BL has 56
frames on the first sheet, and subsequent sheets can hold
up to 72 frames.  The cost of making a sheet is
approximately  L1 and copies on microfiche cost about 2p

each. If paper copies are required, then these cost 2p per page.

3c1

Obviously, microfiche is not a desirable medium for handy computer room reference On the other hand, the costs of producing the estimated number of copies for the first year would be about L450 For computer room reference, there are two solutions.

3c2

The first would be for the user to produce his own notes from the fiche while he is reading it. If he is using a system which few other people are using then this is not too unreasonable.

Secondly, we at UCL could, for the more common systems, produce pocket guides, which would obviously be no substitute for a manual, but would prompt the user sufficiently whilst he is on-line.

BL themselves, generally do not feel that it is worth making fiche for documents which are going to be requested less than about twelve times. I think our application is somewhat different and consequently the economics have to be evaluated on their own merits.

3c3

One further point, with regard to microforms, is that postage must be considered since at second class rates 3p postage brings the cost of each document up from an average of 3p to 6p. Thus wherever possible we must endeavour, if using microfiche, to send several fiche at the same time.

3c4

Should my estimates for the demand for these documents be wrong by a factor of two, then for only half the requests the cost would be L400 whilst for double the demand the costs would be around L500

3c5

Offset Masters

3d

The above two methods of reproduction are those which the BL are well set up to handle. However, normal document production processes are worthy of consideration, both from the standpoint of cost and for distribution of certain classes of document.

3d1

Sprocket fed offset masters suitable for our printers and terminals cost about L40/1000 sheets, ie. about 4p per plate excluding on-line time. This grade of plate is suitable for running off up to about 250 copies and the

duplicating process adds little extra cost for such a
number of copies.  However, further effort, and indirectly
cost, is required to collate these documents.  Thus a 100
page document would cost about 6p to 8p if 100 copies were
being made , or 30p to 40p for about 20 copies.                    3d2

There is another disadvantage of this approach for our
general documentation, and that is that the masters are
once-only type.  This means that one has to predict the
demand for an item and run off the appropriate number of
copies.  If an attempt is made to keep a float of about 20
copies when the item is printed, this results in a lot of
storage space being needed, which in this instance would
have to be provided at UCL.                                        3d3

I do see a need for certain documents being prepared in
this way, but these would fall into the class of User
Notices, ranging from one to about ten pages.  These would
be kept and distributed normally by UCL rather than by BL,
although for certain documents of this type we may wish a
copy to be at BL so that they could be available to a wider
audience.                                                          3d4

Copyright                                                            4

The question of copyright is somewhat difficult, since the
American copyright laws are different from ours.  Although
there is no copyright on most of the on-line manuals, many
documents do bear the copyright marks.                             4a

In such cases it is proposed to get approval from the authors
to copy the documents, since otherwise they would have to mail
us about twenty copies of each item.  This I am sure they
would rather not do                                                4b

BL Procedure for Small Collections                                   5

At the BL there is a section which deals with small
collections.  These are typically items which appear
irregularly, and do not fit into other categories.  One of the
small collections was in fact miscellaneous translations of
technical papers.                                                  5a

Each small collection has associated with it a "shelf mark"
which is assigned by the BL, and aids in their location of the
items when they are requested.  Appended to this number is a
serial number of the item which is assigned by the group
responsible for the collection.  Both these numbers, shelf

mark and serial, are required when an item is needed for
copying.                                                     5b

Other points about small collections which the BL do not
insist on, but obviously prefer are:                         5c

   1. all items preferably have a similar cover,             5c1

   2. size preferably A4, certainly not line printer size,   5c2

   3. items should be stapled or bound, not loose leaf,      5c3

   4. in our case items should bear a legend to the effect
   that they may be duplicated, especially where copyright may
   be concerned                                              5c4

If we were to have a small collection at the Bl for our
manuals, they would be normally sent by post to the BL, and
normally should be on the shelves the same or next day.  It is
possible, provided a set of labels are included, to have a
number of copies sent immediately to a distribution list.  In
such cases the BL must know who to charge.                   5d

As far as a catalogue of the items is concerned, this would be
largely our responsibility.  At present our intentions are to
keep it on-line at SRI-ARC, and periodically print it out and
distribute it to users.                                      5e

Proposed Course of Action                                    6

From the foregoing, it would seem best that UCL filter the
documents which they receive, and send those of a general
nature to BL.  Before being sent to BL each item will be
catalogued, and have a blue cover put on, even it it already
has a cover.  UCL will arrange that proper permission is
obtained for duplication of any items sent to BL.            6a

Since all items will be wanted in full by users, as soon as
they arrive at BL they will be made into microfiche, and also
added in their original form to our small collection.  Once
the fiche has been made a copy will be sent, free, to everyone
on a mailing list which we enclose with the original document.
In practice, several documents will be processed at once to
save on postage.  The reason for sending everything to
everyone on the mailing list is that it is simpler from the
administrative side, and does not increase the cost over much. 6b

Charging arrangements from the BL point of view will be that

UCL are charged for making microfiche masters and copies, but
users will be charged for any form of prints, either Xerox of
from fiche.                                                            6c

Thus, the most important aspects of starting the procedure now
are to:                                                                6d

1. Prepare covers in a suitable format for BL,                        6d1

2. Find out our shelf mark, so that it may be added to the
covers,                                                                6d2

3. Draw up a mailing list, and not least,                             6d3

4. Finalise arrangements with BL.                                     6d4

ARPA Documents at the British Library

Stephen R. Wilbur

Abstract

This document is a result of a visit to the British Library
(Lending Section).  It discusses which documents, in broad
terms, ought to be sent to the BL, and how they ought to be
distributed, bearing in mind cost, and the nature of requests
by users.

20592 Distribution
    Peter Kirstein, Douglas C. Engelbart,

(J20592)  28-NOV-73 01:03;   Title:   Author(s): Stephen R. Wilbur/SRW;
Distribution: /PK DCE; Sub-Collections: NIC; Clerk: SRW;
Origin: <UK-ICS>BLVISIT.NLS;8, 28-NOV-73 00:56 SRW ;

Problems with SENDPRINT

Kirk:

   Hello again   I have problems yet again which perhaps you may be
able to help with.  This time they concern Sendprint for use with a
TIP.                                                                        1

One of the things I am trying to do is to receive some documentation
from your machine onto offset litho plates here.  Whilst I have had
no trouble using sendprint and an Odec at this end, (saying yes to
form feeds, and no to stop on page ends), I do have problems with
other devoices where I MUST stop at page end.                               2

The problems are basically these:                                           3

   1. Send form feeds seems to simulate form feeds for 11" paper,
   which for other sizes is useless,                                        3a

   2. Stop on page ends does not seem to work unless you have also
   replied yes to the simulate form feeds question, but                     3b

   3. The worst point of all, is that when Sendprint does stop at the
   bottom of a page, this on a TIP is about 3 lines from the bottom
   of the page                                                              3c

I have tried experimenting with buffer sizes at this end to see if it
was the TIP which was doing this, but there seems to be little
difference in effect between a 10 word output buffer and a 120 word
buffer.                                                                     4

If you have any ideas on an immediate solution I would be grateful,
since I suspect that it is to a large extent tied up with the
workings of a TIP one way or another,                                       5

   Cheers  ..   Steve                                                       6

Problems with SENDPRINT

(J20594)  28-NOV-73 01:40;    Title:  Author(s): Stephen R. Wilbur/SRW;
Distribution: /KIRK DCE(for info); Sub-Collections: NIC; Clerk: SRW;
Origin: <UK-ICS>MES.NLS;1, 28-NOV-73 01:11 SRW ;

General Documentation

Jake Feinler and Jim White:
  I sent the following message to Marcia Keeney the other day, and
she referred me to you two. Have you any comments?                          1

    Marcia:
        Dean Meyer sugested that I contact you over L10 documentation.
    However, I have been able to pick that up on-line. Our main
    problems at present are general documentation of the network, and
    I thought you might be able to help, or forward this on to someone
    who can.                                                                1a

    At present we in the UK are trying to set up a collection of
    generally useful documents for UK users. The bulk of the
    collection is at present envisaged as being user manuals for
    various hosts and systems on the network. Much of this
    information may be on-line, but in looking around the NIC it seems
    that you mainly keep your own documentation on-line and other
    hosts have their own systems. The exception to this seems to be
    that almost all general network documentation is on-line in some
    form at the NIC, but as I say our primary interests at present are
    manuals.                                                                1b

    Whilst we are willing to pick up any documentation which is
    on-line, the real problem is in finding it. Is there any group
    in the Journal sense which I can contact to request such
    information, or do I have to go via the Resource notebook? Even
    that is not over helpful, as sites do not generally list anyone
    responsible for documentation. Have you any ideas? Is there
    anyone at the NIC who would have a list of useful contacts in this
    sense?                                                                  1c

    If you have any ideas on this front, please contact me via Journal
    ident (SRW).

        Cheers  ..  Steve Wilbur
                    U. of London                                           1d

(J20595) 28-NOV-73 02:25; Title: Author(s): Stephen R. Wilbur/SRW;
Distribution: /JAKE JEW; Sub-Collections: NIC; Clerk: SRW;
Origin: <UK-ICS>MES.NLS;1, 28-NOV-73 02:17 SRW ;

```
(pproclist) PROGRAM proclist                                              1

    %global declarations%                                                1a

        DECLARE STRING retstr[2000];                                    1a1

        DECLARE TEXT POINTER wrdptr;                                    1a2

    (proclist) PROCEDURE;                                                1b

        % declarations%                                                 1b1

            LOCAL TEXT POINTER ptr;                                    1b1a

            LOCAL proc, last, temp;                                    1b1b

            ptr ← proc ← last ← retstr.L ← 0; %some initialization %   1b1c

        % Get filename%                                                 1b2

            IF nlmode=typewriter                                      1b2a

                THEN BEGIN                                           1b2a1

                    crlf() ;                                        1b2a1a

                    crlf();                                         1b2a1b

                    typeas($"L10 System Procedures Index Generator --
                    Select file: ") ;                               1b2a1c

                    tbug($ptr) ;                                    1b2a1d

                    crlf() ;                                        1b2a1e

                    typeas($"here goes...") ;                       1b2a1f

                    END;                                            1b2a1g

        %Set to selected file and beginning/end of first branch%        1b3

            ptr.stpsid ← origin;                                      1b3a

            ptr[1] ← 1;                                               1b3b

            proc ← getnxt(ptr);                                       1b3c

        %For each branch (procedure reference) in top plex%             1b4
```

```
        LOOP BEGIN                                                 1b4a

        IF NOT procproc( proc ) THEN                               1b4b

           BEGIN                                                   1b4b1

              temp ← getprd( proc );                               1b4b1a

              cdb( proc ); %get rid of statement w/out comments%   1b4b1b

              proc ← temp;                                         1b4b1c

              END;                                                 1b4b1d

           IF getftl( proc ) THEN EXIT LOOP; %turns proc refe branches
           into index, by first comment line, refing proc name ( NOT
           st. # ) ; ignores branches without comments%            1b4b2

           proc ← getsuc( proc );                                  1b4b3

           END;                                                    1b4b4

    % Sort resultant Plex%                                         1b5

       sortplx( proc ) ;                                           1b5a

    %reset%                                                        1b6

       proc ← gethed( proc ) ;                                     1b6a

       crlf( ) ;                                                   1b6b

       typeas( $"starting reductions..." ) ;                       1b6c

    %eliminate repeated words, by grouping statements with them,
    under same branch%                                             1b7

       LOOP BEGIN reduce( proc );                                  1b7a

          IF getftl( proc ) THEN EXIT LOOP;                        1b7a1

          proc ← getsuc( proc );                                   1b7a2

          END;                                                     1b7a3

    %Put in header statement%                                      1b8

       ptr.stpsid ← origin;                                        1b8a
```

2

```
        *retstr* ← "L10 System Procedures Index


        .H1=", '", "L10 System Procedures Index", '", ";";            1b8b
        cis(ptr,$retstr,$"d");                                        1b8c
    RETURN (TRUE) ;                                                   1b9
    END.                                                              1b10
(procproc) PROCEDURE(curproc) ; %passed cmntid, replaces branch
with index entry%                                                    1c
    % declarations %                                                 1c1
        LOCAL length, cmntid, grptail;                               1c1a
        LOCAL STRING procname[2000], tempstr[2000], cmnt[2000];      1c1b
        LOCAL TEXT POINTER begin, end;                               1c1c
        tempstr.L ← procname.L ← begin ← end ← cmnt.L ← 0;
        %initialization%                                             1c1d
        begin[1] ← end[1] ← 1; %more initialization%                 1c1e
    % Get stid of comment line; if no comment line, delete branch
    and return%                                                      1c2
        cmntid ← getsub(curproc);                                    1c2a
            IF curproc = (cmntid ← getend(cmntid)) THEN
            RETURN(FALSE);                                           1c2a1
        IF FIND SF(cmntid) ("(" / "-") THEN                          1c2b
            RETURN(FALSE) ; %flag for deletion%                      1c2b1
    % Get procedure name %                                           1c3
        FIND SF(curproc) [LD] < CH > ↑begin $LD ↑end;                1c3a
        *procname* ← begin end;                                      1c3b
    %Get parms of procedure & append to procnme %                    1c4
        cmntid ← gethed(cmntid);                                     1c4a
        IF FIND SF(cmntid) "(" < CH > ↑begin [")"] ↑end              1c4b
            THEN *procname* ← *procname*, begin end;                 1c4b1
        cmntid ← getail(cmntid);                                     1c4c
    %get fircmnt line of comment%                                    1c5
        FIND SF(cmntid) [PT] < CH > ↑begin;                          1c5a
        *cmnt* ← begin SE(cmntid);                                   1c5b
        IF procname.L < 54                                           1c5c
            THEN length ← (55-procname.L)                            1c5c1
            ELSE length ← (120-procname.L); %max length of one or two
            lines%                                                   1c5c2
        IF length < cmnt.L                                           1c5d
            THEN BEGIN                                               1c5d1
                cmnt.L ← length; %truncate cmntatement%              1c5d1a
                IF NOT FIND SE(*cmnt*) [("." / "," / ";")] ↑end      1c5d1b
                    THEN FIND SE(*cmnt*) [PT] [NLD] ↑end ;           1c5d1b1
                    *cmnt* ← SF(*cmnt*) end;                         1c5d1b2
                END;                                                 1c5d1c
    % format cmntring%                                               1c6
        *cmnt* ← *cmnt*, " . . . . . . . . . . . . . ", *procname*;  1c6a
    %replace branch with index line%                                 1c7
        cdp(cmntid);                                                 1c7a
```

3

```
        ST curproc ← *cmnt*;                                      1c7b
        RETURN (TRUE) ;                                           1c7c
    END.                                                          1c8
(reduce) PROCEDURE( topptr) ;                                     1d
    %declarations%                                                1d1
        LOCAL grphd, grptl, tempref, nomove;                      1d1a
        LOCAL TEXT POINTER curstate;                              1d1b
        LOCAL STRING curwrd[100];                                 1d1c
        nomove ← 1;                                               1d1d
    % Get test word in first statement%                           1d2
        getwrd( topptr) ;                                         1d2a
        *curwrd* ← *retstr*;                                      1d2b
        IF FIND SF( *curwrd*) (( " . . . . . . " ) / ["Dotsplit"]) THEN
        RETURN(FALSE);                                            1d2c
    % set up group head and tail pointers%                        1d3
        IF getftl( topptr) THEN RETURN;                           1d3a
        grphd ← getsuc( topptr) ;                                 1d3b
        grptl ← grphd;                                            1d3c
    %search for last statement with the same keyword / delete
    repeat words as you go %                                      1d4
        getwrd( grptl);                                           1d4a
        IF *retstr* # *curwrd* THEN nomove ← 0;                   1d4b
        LOOP BEGIN                                                1d4c
            IF *curwrd* # *retstr* THEN                           1d4c1
                BEGIN                                             1d4c1a
                grptl ← tempref;                                  1d4c1b
                EXIT LOOP                                         1d4c1c
                END;                                              1d4c1d
            IF FIND wrdptr NP THEN wrdptr[1] ← wrdptr[1] + 1;     1d4c2
            ST grptl ← wrdptr SE( grptl);                         1d4c3
            IF getftl( grptl)                                     1d4c4
                THEN EXIT LOOP;                                   1d4c4a
            tempref ← grptl;                                      1d4c5
            grptl ← getsuc( grptl);                               1d4c6
            getwrd( grptl)                                        1d4c7
            END;                                                  1d4c8
    % move group under first statement%                           1d5
        IF nomove = 1 THEN cmg( topptr,grphd,grptl,$"d")          1d5a
        ELSE RETURN(FALSE);                                       1d5a1
    %move tail of first statement to be first sub-statement of
    branch%                                                       1d6
        getwrd( topptr);                                          1d6a
        IF FIND wrdptr NP                                         1d6b
            THEN wrdptr[1] ← wrdptr[1] + 1;                       1d6b1
        *curwrd* ← wrdptr SE( topptr);                            1d6c
        cis( topptr,$curwrd,$"d");                                1d6d
        ST topptr ← SF( topptr) wrdptr;                           1d6e
    %sort resultant plex%                                         1d7
        curstate ← getsub( topptr) ;                              1d7a
```

4

```
        sortplx(curstate) ;                                       1d7b
    %recurse reduce, to break new plex into branches %            1d8
        LOOP BEGIN reduce(curstate);                              1d8a
            IF getftl(curstate) THEN EXIT LOOP;                   1d8a1
    .       curstate ← getsuc(curstate);                          1d8a2
            END;                                                  1d8a3
        curstate ← getsub(topptr) ;                               1d8b
        grptl ← getail(curstate) ;                                1d8c
    RETURN (TRUE) ;                                               1d9
    END.                                                          1d10
(getwrd) PROCEDURE(stid);                                         1e
    % procedure to get the first word of a statement %            1e1
    IF NOT(FIND SF(stid) [PT] [NLD] < CH > ↑wrdptr)               1e2
        THEN typeas( $"End of statement reached. Program will
        probably crash..." );                                     1e2a
    typeas( $"1/" );                                              1e3
    IF FIND SF(stid) NLD                                          1e4
        THEN wrdptr[1] ← wrdptr[1] + 1;                           1e4a
    *retstr* ← SF(stid) wrdptr;                                   1e5
    RETURN(TRUE);                                                 1e6
    END.                                                          1e7
FINISH proclist ;                                                 1f
```

L10 Program to Create Keyword Index of L10 System Procedures

Jean, Could you please mention to someone at the NIC that it is past time to update the <netinfo> computers file. It is missing some new servers, and is out-of-date on some old ones (e.g., Multics is still listed as having the old machine. Many thanks, Mike Leavitt 1

(J20597)    28-NOV-73 06:55;    Title:    Author(s): Guest O. ARC/ARCG;
Distribution: /JI; Sub-Collections: SRI-ARC; Clerk: ARCG;

Tickler for 26 Nov Thru 7 Dec 73

Am remindng you guys about the Procurement Meeting Thursday at
10:00

Tickler for 26 Nov Thru 7 Dec 73

(nm5) 26 November - Monday                                                          1

    0830 hrs. Branch Chief's Meeting                                                1a

    Due Date - ISI/FJT - Management Support for RSD Program from DDR&E
    - Completed                                                                     1b

    Col Thayer - Leave                                                              1c

(nt5) 27 November - Tuesday                                                         2

    Col Thayer - Leave                                                              2a

(nw5) 28 November - Wednesday                                                       3

    Representatives from AFDSC will visit RADC/Bergstrom (Focal Point)
    to begin testing of DM-1 System - Will be here through the 30th                 3a

    Due Date - ISIS/ISIM - Project Engineers Bimonthly Review of Tech
    Completions - due in ISM 29 Nov                                                 3b

    Col Thayer - Leave                                                              3c

    Due Date - ISIS/D. Marks - Technical Evaluation of PR-B-4-3232                   3d

(nth5) 29 November - Thursday                                                       4

    0830 hrs. Branch Chief's Meeting                                                4a

    AFSC Procurement Policy Briefing - Bldg. 106 - Auditorium - 1000
    hrs. thru 1400 hrs.  All Engineers involved in PRs should attend
    per F. Tomaini.                                                                 4b

    Laboratory Activity Reports due today:  Bucciero must have them by
    1000, ISM must have them by 1100, and DOT must have them by 1600.               4c

    Due Date - ISIM/Bergstrom - Joint Services Electronics Program
    (JSEP) Proposal Review.  Completed                                              4d

    0900 - 1000 hrs. - Officer's Commanders Call - Bldg. 106 -
    Auditorium                                                                      4e

    Col Thayer - Leave                                                              4f

(nf5) 30 November - Friday                                                          5

    Due Date - ISIM/Ray Liuzzi - Technical Evaluation - PR-B-4-3245 -
    Extended to 14 December                                                         5a

Tickler for 26 Nov Thru 7 Dec 73

Form 2's (employee time expenditures) are due today.                                    5b

Form 6's (projected manpower) are due today.                                           5c

Bobbie:  Travel figures due by noon.                                                   5d

Due Date - ISI/ISIS/ISIM - Course Forms for Data Base due today
into ISI/Bobbie                                                                        5e

Col Thayer - Leave                                                                     5f

(dm2) 3 December - Monday                                                              6

0830 hrs. Branch Chief's Meeting                                                       6a

Robert Stover - Interview w/Col Thayer -- 1330 hrs.                                    6b

News Brief items due into Becky Today.                                                 6c

Bobbie:  Personnel Strength Rpt. due.                                                  6d

Due Date - Action Items (IS) Reply to Thayer - Review status of
DM-1                                                                                   6e

(dt2) 4 December - Tuesday                                                             7

Due Date to ISF - For Tom B. Draft Proposal Re Equipment
Maintenance                                                                            7a

(dw2) 5 December - Wednesday                                                           8

ISC Confessions - 0830 hrs.                                                            8a

(dth2) 6 December - Thursday                                                           9

0830 hrs. Branch Chief's Meeting                                                       9a

Laboratory Activity Reports due today:  Bucciero must have then by
1000, ISM must have them by 1100, and DOT must have then by 1600.                       9b

(df2) 7 December - Friday                                                              10

Timecards due today.                                                                   10a

Bobbie:  Travel figures due by noon.                                                   10b

Due Date - ISIM - Unsol Prop DO 85-74, "Network Info Center &
Augmented Knowledge Workshop Development" w/SRI (1 cy) -
Completed                                                                              10c

Tickler for 26 Nov Thru 7 Dec 73

Due Date - ISIM - Unsol Prop DO 82-74,"Interactive Command
Language III" w/Honeywell ( 2 cys)                                    10d

Tickler for 26 Nov Thru 7 Dec 73

(J20598)  28-NOV-73 07:20;   Title:  Author(s): Roberta J. Carrier/RJC;
Distribution: /RADC; Sub-Collections: NIC RADC; Obsoletes Document(s): ;
Clerk: RJC;

Response to (20391) and (20367)

Dick: Having read your (20391) and (20367), I just wanted to say HEAR
HEAR.....Right ON      Thanks....I share many of your views and look
forward to meaningful future dialog on these important areas.....Jean          1

Response to (20391) and (20367)

(J20599)  28-NOV-73 08:33;   Title:  Author(s): Jean Iseli/JI;
Distribution: /RWW I(please read these if you have the time, well
worthwhile...thanks, jean); Sub-Collections: MITRE-TIP I SRI-ARC; Clerk:
JI;

20599 Distribution
Richard W. Watson, Al J. Rosenfeld, David M. Grotae, John D. Day,
Alan R. Hill, Clayton A. Greer, Jean Iseli, Jim O. Calvin, Mil E.
Jernigan,

Reply to NIC# 20480: ARPANET Newsletter Revisions

Our reactions to Jean Iseli's proposals on the ARPANET Newsletter are
mixed. (See JI -- 20480.)                                              1

We think the proposed changes for expediting further development of
the Newsletter are good ones. Unless there is some nuance of the
system not obvious at this time, the idea of using one copy for both
on-line and off-line distribution seems a sound one, and putting the
Newsletter in the HELP directory would seem to have advantages both
to the NIC and to MITRE.                                               2

But we disagree with Jean's statement that the "promulgation of
policy for the Newsletter is the function of the MITRE Corporation";
and we don't understand the statement that "policy will be developed
as a cooperative venture under its [MITRE's] direction". Cooperative
how and among whom? Why under MITRE's direction? We were not aware
that ARPA had charged MITRE with the responsibiity for directing and
publishing the Newsletter.                                             3

We think editorial policy should be initially developed and
occasionally reviewed through the collaboration of ARPA, NIC, MITRE,
RML, and other interested parties.                                     4

There are of course many factors that must be considered in order to
establish a Newsletter policy, among them being:                       5

    purpose and scope of content
    length of articles and size of an issue
    frequency of publication
    on-line/off-line availability of the Newsletter
    procedures and responsibilities for reviewing
      and editing contents before publication                        5a

Therefore, we view Jean's memorandum as a first draft of an editorial
policy, not as a final decree. We are a little surprised that Jean
would issue his document without prior discussion.                     6

The NIC is not interested in controlling the ARPANET Newsletter; we
recognize, and we hope others do as well, that it wouldn't have been
started when it was, if it weren't for Jean Iseli's arduous efforts.   7

But we ARE interested in seeing that the NIC and NIC-like functions
(of which the Newsletter is one) receive the attention,
collaboration, and coordination they deserve.                          8

We have invested considerable effort in helping make the Newsletter
go, and have invested scarce dollars for publication and
distribution. We view the Newsletter as important to the ARPANET
community, and want to see it prosper. But we feel strongly that it
can only do so as a healthy collaborative effort.                      9

Reply to NIC# 20480: ARPANET Newsletter Revisions

(J20600)  28-NOV-73 11:19;   Title:  Author(s): Michael D. Kudlick/MDK;
Distribution: /JBN JCN DCE DHC JSP SDC2 JBP MEJ MDK RWW MAP SSP JI;
Sub-Collections: SRI-ARC; Clerk: MDK;
Origin: <KUDLICK>JI.NLS;2, 28-NOV-73 11:13 MDK ;

20600 Distribution

Jeanne B. North, James C. Norton, Douglas C. Engelbart, David H.
Crocker, John S. Perry, Steve D. Crocker, Jonathan B. Postel, Mil E.
Jernigan, Michael D. Kudlick, Richard W. Watson, Michael A.
Padlipsky, Susan S. Poh, Jean Iseli,