Feb 24 Visit by Lavia and Kolanko

Dave Morgan, a professor at Waterloo, has two students he is
sending to UCLA to find out all about networks, etc. from
Kleinrock's group. Both students are Phd guys (just beginning)
and are trying to get a better feel for networks and networking.
To that end, they would like to come thru for a couple of hours
on Thurs, Feb 24 in the morning. Ok? Who should they talk to?
They just want to get a feel for whats going on at a network
site. Their names are Tony Lavia and Richard Kolanko.   1

John T. Melvin

Feb 24 Visit by Lavia and Kolanko

(J9067)   11-FEB-72 16:52;   Title: Author(s): John T. Melvin/JTM;
Distribution: Charles H. Irby, Don C. Wallace, Richard W. Watson/CHI DCW
RWW; Sub-Collections: SRI-ARC; Clerk: JTM;

Thoughts Deriving From the XEROX Research Proposal

With the coming of the Network, and the distribution of
documentation, the ideas imbedded in NLS are becoming
more and more common knowledge among computer
professionals.   1c1a

In fact, any product developed under government
sponsorship is free to any person or corporation. All
one needs to do is ask for NLS and one gets it.   1c1b

Therefore, the ideas in NLS are not proprietary and
can't be protected.   1c1c

As a new-comer to ARC, and to NLS, I should state at
once that NLS is without doubt the most impressive
on-line system I've seen.   Impressive from a design
standpoint, and impressive from an implementation
standpoint.   1c1d

The question I want to raise here is, what next?   1c1e

Clearly, there are still problems with the
implementation.   1c1f

    You are all more familiar with these problems than I
    am, but it is apparent that response time must be
    improved, that more modularity is needed to allow
    expansion to be accomplished more readily, that
    certain important cleaning up operations must be
    performed on the system (like getting to the Journal
    from DNLS), etc.   1c1f1

Improving the Implementation   1c2

    It appears to me that the XEROX proposal encompasses
improving the implementation of NLS.   1c2a

    Once XEROX gets the OK from ARPA, they will
    reorganize, restructure, recode, they will add new
    terminal types, innovate in other technique-oriented
    ways, and that is all great.   1c2a1

    ARC can also spend a lot of time improving the
    implementation, but we must ask ourselves if that is
    the kind of research we want to do.   1c2a2

    Improving the implementation is an open-ended
    undertaking.   1c2a3

To be done correctly, it should be done with a
real-world user community.   1c2a3a

The goals should be clear: more efficient
operation, more friendliness to users, more
stability, meaningful accounting procedures,
automatic crash recovery, diversification of
terminal types, hard-copy facilities, etc.   1c2a3b

To achieve these goals within a reasonable
time-frame and budget, one needs a conventional
organization, with clearcut responsibilities for
individuals.   1c2a3c

To attempt to achieve these goals within a
research environment is a mistake, in my opinion,
for the following reasons.   1c2a3d

   researchers work best with as few constraints
   on their minds as possible.   1c2a3d1

   service organizations are the antithesis of
   research organizations.   1c2a3d2

      They thrive on chains of command, clearcut
      task definitions, deadlines, rigid budgets,
      feedback from the persons they're serving
      (and most importantly, an eagerness to
      respond to this feedback), and a built-in
      desire to provide better and better service
      at lower and lower cost to the service
      organization.   1c2a3d2a

An Alternative: Augmentation Research   1c3

Some suggested goals for expanding the capabilities of
the system.   1c3a

Provide more automated browsing capabilities,   1c3a1

Develop more group-oriented interactive facilities,   1c3a2

Seek other means of interacting with the text on the
screen (e.g., extensive use of "blinking")   1c3a3

Add mathematical and graphics capabilities   1c3a4

Suggested objectives   1c3b

3

Expand the system within the context of a single
application.   1c3b1

For the time-being, shelve the innovations we are
currently experimenting with in PSO, in management by
committee, in leaderless projects.   1c3b2

Acquire a duplicate system (hardware and software) to
be the NIC system. Research and service cannot
co-exist on a single machine, unless the conditions
are exceptional.   1c3b3

Regarding ARC Configuration   1c4

We should study the problem of reconfiguration from
three standpoints   1c4a

capacity   1c4a1

stability and reliability   1c4a2

maintainability   1c4a3

The study should be structured as a project with a
project leader, a deadline, and a goal, namely a set of
recommendations.   1c4b

Natural subsets of the configuration should be
considered, such as   1c4c

fast core, bulk core, drum, disk -- the usual
hierarchy   1c4c1

peripheral equipment, possibly driven by
minicomputers   1c4c2

terminal equipment --- hardcopy, commercial displays,
minicomputers   1c4c3

The recommendations of the study group should be made to
ARPA in the following context: 1c4d

Subcontract to established commercial vendors any
equipment desired but not commercially available.
This must be kept to a minimum in number and kind.   1c4d1

Buy and install commercially available components
with vendor developed software wherever feasible,

even in fact where not all design specifications are met by such components. The most frequent error made is to design and build one's own equipment merely to gain a few additional features of an experimental nature.

1c4d2

John T. Melvin

Thoughts Deriving From the XEROX Research Proposal

(J9068) 11-FEB-72 17:28; Title: Author(s): Michael D. Kudlick/MDK;
Distribution: Douglas C. Engelbart, Richard W. Watson, Charles H. Irby,
Ed K. Van De Riet, James C. Norton, Michael D. Kudlick/DCE EMC MDK;
Sub-Collections: SRI-ARC EMC; Clerk: MDK;

ARPA Network Costs & Schedules

Re your query (NIC 8933) for costs, delivery for connection to the
ARPA Network. Details depend upon status of prospective operator
of a new node, but the following can be used as a guideline for
anyone.

1. Hardware for Node

         316-IMP $ 50K
         516-IMP   100K
         TIP   100K

    This includes the first year's maintenance.
    Each IMP or TIP comes with one, standard, local Host
interface.
    TIP has 63 LIU's.
    Internal modems for TIP are extra (about $7K for ten 103A's).

    The specialized Host-IMP interface hardware generally costs
    from $10K to $20K, but a few have run higher. ARPA does not
    usually undertake to supply this, or even act as a
    procurement medium.

2. Software (NCP)

    Generally, 4 to 12 man-months of system programming.

3. Recurring Costs

    a. Maintenance (after the first year)

         316-IMP $5K/year
         516-IMP   8K/year
         TIP   7K/year

    b. Use of the Communications Subnetwork

         Charge is $0.30 per Kilopacket for data inserted into
        the Net as inter-nodal traffic. No charge for intra-nodal
        traffic, at present, since this appears to be a trivial
        burden on the Network.

         However, there is a minimum charge of approximately
        $16,500 per year, which buys 4500 Kpacks per month. Use in
        any month beyond 4500 Kpacks is then charged at $0.30/Kpack.

4. Delivery Schedules

Highly variable, and largely dictated by the time to install communications circuits (6 to 9 months).

From formal go-ahead to BB&N, delivery of 316-IMP is about 5 months; delivery of TIP is about 6.

5. Policy for Adding New Subscribers

Present users (and prospective ones to whom we are committed) include only Govt or Govt-sponsored groups. We are still working on the more general problem!

1

Bruce A. Dolan

ARPA Network Costs & Schedules

(J9069)   12-FEB-72 7:26; Title: Author(s): Bruce A. Dolan/BAD;
Distribution: John T. Melvin, Steve D. Crocker/JTM SDC2;
Sub-Collections: NIC; Clerk: BAD;

Redwood Pod Meeting Notes: 10 Feb 72   1

   First the specifics: 1a

      1.   This week's meeting was held in AI's conference room.
We decided that this is no-no and not to be repeated.   1a1

      2.   Mike Kudlick said he felt a lot of tension between the
group and he and Paul Rech.   1a2

         He wanted of know of the pod if there were any ill
feelings towards him because of the kind of role the
group assumes he will play, his age, attire, etc.   1a2a

         Mike received no negative feedback from the group - but
we admitted that in general it takes quite a while
(months?) for any new person to feel comfortable in the
group. Also, in Mike's case, a lot of bad vibes from
the group could be attributed to the bad advance
publicity he (and Paul Rech) received in that they were
hired around the time the Doug was talking about
bringing in some managers. Many of the group feared
that Mike and Paul were going to assume heavy managerial
roles.   1a2b

      3. File privacy   1a3

         We spent some time discussing the openness of file
access at ARC and its implications about the way in
which we work. It was generally agreed that
restrictions on file access should be avoided.   1a3a

**** MAJOR THEME ****   1b

   ARC Goals   1b1

      The goals or the lack thereof have been a byword around
ARC for the past alltime. It seems as though
Doug's/we've failed to achieve any clear definition of
where we're going and how we're going to get there.
Although there was a range of expressions of "what's
wrong here", all seemed to point to, or could be
attributed to a lack of clearly defined goals.   1b1a

         Several people feel that ARC is becoming more and
more a service operation and less and less research
oriented.   1b1a1

Redwood Pod Notes - 10 Feb 72

Are decisions as to new equipment, NLS features,
etc. predicated upon giving service to a user
community?   1b1a1a

Can a community like ARC support both research and
service? If so, can any guidelines be specified
as to the extent of a service operations that can
feasibly and peacefully coexist with research.   1b1a1b

Where and how far do we go with NLS - especially
in light of XEROX?   1b1a1c

Who sets the goals - is it up to Doug and Doug alone?
... Is that too much to lay on Doug? Are we as a
group leaning too heavily on Doug for want of these
goals?   1b1a2

Charles reported that the EMC will start soon to
work more closely with Doug on setting goals.   1b1a2a

What is the relationship some of the specfic tasks
we're doing now to the "big picture" - knowledge of
the latter can only serve to improve our performance
on the former.   1b1a3

Redwood has spawned a committee (Charles, Mike, Marilyn)
whose function will be to help Redwood define what it
would like to see as ARC's goals. Some sort of
statement should emerge from this type of discussion
which will be published and submitted to Doug.   1b1b

Bruce A. Dolan

(J9070) 14-FEB-72 14:05; Title: Author(s): Marilyn F. Auerbach/MFA;
Distribution: Diane S. Kaye, Paul Rech, Michael D. Kudlick, Donald R.
Cone, Don Limuti, William R. Ferguson, Priscilla Lister, Robert L.
Dendy, Linda L. Lane, Marilyn F. Auerbach, Walter L. Bass, Mary S.
Church, William S. Duvall, Douglas C. Engelbart, Beauregard A. Hardeman,
Martin E. Hardy, J. D. Hopper, Charles H. Irby, Mil E. Jernigan, Harvey
G. Lehtman, John T. Melvin, Jeanne B. North, James C. Norton, Cindy
Page, Bruce L. Parsley, William H. Paxton, Jeffrey C. Peters, Jake
Ratliff, Barbara E. Row, Ed K. Van De Riet, Dirk H. van Nouhuys, Kenneth
E. Victor, Don C. Wallace, Richard W. Watson, Don I. Andrews/SRI-ARC;
Sub-Collections: SRI-ARC; Clerk: MFA;
Origin: <AUERBACH>RED.NLS;3, 11-FEB-72 11:33 MFA ;

Comments on Automatic Startup of NLS at LOGIN

This message got lost a coupla times by the Journal; hope it
makes it this time.

Comments on Automatic Startup of NLS at LOGIN

I agree with Bill and Charles' proposal that NLS be automatically
started up at LOGIN (as the default mode). I would like to
suggest that some or all of the following information be gathered
by NLS and displayed to the user (in the command feedback line?)
at startup so as to give him an idea of the kind of response
which he can expect (NOTE: this would only be done when there is
a LOGIN startup and not every time the user resets and reeenters
NLS).   1

   (1) Date/version of this NLS (along with a link to
   documentation describing the new features? only if user has
   not used this particular version before?).   1a

   (2) Current number of users, response index and/or load index.   1b

   (3) Number of free pages on the disc and in user's own
   directory.   1c

Note that one possible implication of this procedure would be
that messages which are currently typed on the controlling
teletype at LOGIN should be distributed thru the Journal instead
of (or in addition to) being handled by TENEX.   2

Marilyn F. Auerbach

Comments on Automatic Startup of NLS at LOGIN

(J9071) 14-FEB-72 14:05; Title: Author(s): Walter L. Bass/WLB;
Distribution: William H. Paxton, Charles H. Irby/WHP CHI;
Sub-Collections: SRI-ARC; Clerk: WLB;

System Measurement Group (ASMG) in Ident sys

I've added ARC System Measurement Group (ASMG) to the Ident system. Its members are chi dia dcw msc mdk rww whp. Feel frree to add or delete names.

1

Mary S. Church

(J9072)   14-FEB-72 14:19;   Title: Author(s): Mary S. Church/MSC;
Distribution: Charles H. Irby, Don I. Andrews, Don C. Wallace, Mary S.
Church, Michael D. Kudlick, Richard W. Watson, William H. Paxton/ASMG;
Sub-Collections: NIC ASMG; Clerk: MSC;

Transmittal to Gordon Smith

ARPA Network Information Center   NIC 9079
Stanford Research Institute   14-FEB-72
Menlo Park, California 94025   1

TRANSMITTAL TO: Gordon Smith
                   Jet Propulsion Laboratory
                   Mail Stop 125143
                   4800 Oak Grove Drive
                   Pasadena, California 91103   2

FROM: Cindy Page
                   Station Agent   3

At your request, I am enclosing a copy of: 4

    NIC 7590   ARPA NETWORK INFORMATION CENTER USER GUIDE, 2-FEB-72   4a

c: S. Crocker   5

Cindy Page
Augmentation Research Center
Stanford Research Institute
Menlo Park, California 94025

              To:
                 Access Copy

Transmittal to Gordon Smith

(J9079) 8-MAR-72 16:29;   Title: Author(s): Cindy Page/CXP;
Distribution: Cindy Page/CXP; Sub-Collections: SRI-ARC; Clerk: LLL;
Origin: <LANE>BLANK.NLS;152, 8-MAR-72 16:26 LLL ;   ;

Transmittal to Gordon Smith

ARPA Network Information Center   NIC 9079
Stanford Research Institute   14-FEB-72
Menlo Park, California 94025   1

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                   Jet Propulsion Laboratory
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Stanford Research Institute
Menlo Park, California 94025

                   To:
                        Cindy Page
                        Augmentation Research Center
                        Stanford Research Institute
                        Menlo Park, California 94025

Transmittal to Gordon Smith

(J9079)   8-MAR-72 16:29;   Title: Author(s): Cindy Page/CXP;
Distribution: Cindy Page/CXP; Sub-Collections: SRI-ARC; Clerk: LLL;
Origin: <LANE>BLANK.NLS;152, 8-MAR-72 16:26 LLL ;   ;

NIC 9080 Transmittal to Buzz Owens

NIC 9080 TRANSMITTAL TO BUZZ OWENS   1

ARPA Network Information Center
NIC 9080
Stanford Research Institute   15-FEB-72
Menlo Park, California 94025   .   1a

TRANSMITTAL TO: Buzz Owens
                   Teledyne Geotech
                   Seismic Analysis Array Center
                   Box 334
                   Alexandria, VA 22314   1b

FROM: Cindy Page
                   Station Agent   1c

Enclosed in the binder are the Protocol documents you
requested: 1d

    NIC 6715
        6768
        7101
        7103
        7155   1d1

Also enclosed are: 1e

    NIC 7133   INTERIM NETRJS SPECIFICATIONS
    NIC 7182   NETRJS REMOTE COMMANDS
    NIC 7183   IMPLEMENTATION OF A REMOTE JOB SERVICE   1e1

    and page 5 of LOCATOR   1e2

c: S. Crocker   1f

NIC 9080 Transmittal to Buzz Owens

(J9080)   30-MAR-72 0:32;   Title: Author(s): Cindy Page/CXP;
Distribution: Cindy Page/CXP; Sub-Collections: SRI-ARC; Clerk: LLL;
Origin: <LANE>BLANK.NLS;204, 30-MAR-72 0:26 LLL ;   ;

Transmittal to Stan Golding (NASA-AMES)

Transmittal to Station Agent - Stan Golding (NASA-AMES)   NIC
9082

22-FEB-72

Cindy Page (SRI-ARC)
Station Agent
Network Information Center   1

    At your request I am sending a copy of the following document: 1a

      NIC 9193   INTERFACE MESSAGE PROCESSORS FOR THE ARPA
              COMPUTER NETWORK   1a1

    c: S. Crocker   1b

Cindy Page
Augmentation Research Center
Stanford Research Institute
Menlo Park, California 94025

        To:
           Master Copy

Transmittal to Stan Golding (NASA-AMES)

(J9082)   8-MAR-72 16:36;   Title: Author(s): Cindy Page/CXP;
Distribution: Cindy Page/CXP; Sub-Collections: SRI-ARC; Clerk: LLL;
Origin: <LANE>BLANK.NLS;154, 8-MAR-72 16:35 LLL ;   ;

Transmittal to Stan Golding (NASA-AMES)

Transmittal to Stan Golding (NASA-AMES)

)

Transmittal to Station Agent - Stan Golding (NASA-AMES)   NIC
9082

22-FEB-72

Cindy Page (SRI-ARC)
Station Agent
Network Information Center   1

   At your request I am sending a copy of the following document: 1u

      NIC 9193   INTERFACE MESSAGE PROCESSORS FOR THE ARPA
                    COMPUTER NETWORK   1a1

)

   c: S. Crocker   1b

Cindy Page
Augmentation Research Center
Stanford Research Institute
Menlo Park, California 94025

            To:
               Access Copy

Transmittal to Stan Golding (NASA-AMES)

(J9082) 8-MAR-72 16:36; Title: Author(s): Cindy Page/CXP;
Distribution: Cindy Page/CXP; Sub-Collections: SRI-ARC; Clerk: LLL;
Origin: <LANE>BLANK.NLS;154, 8-MAR-72 16:35 LLL ;   ;

Transmittal to Major Serhij Pilipowskyj

(J9083) 8-MAR-72 16:13; Title: Author(s): Cindy Page/CXP;
Distribution: Cindy Page/CXP; Sub-Collections: SRI-ARC; Clerk: LLL;
Origin: <LANE>BLANK.NLS;151, 2-MAR-72 7:46 LLL ;   ;

Transmittal to Major Serhij Pilipowskyj

ARPA Network Information Center   NIC 9083
Stanford Research Institute   22-FEB-72
Menlo Park, California 94025   1

TRANSMITTAL TO: Major Serhij Pilipowskyj
                  Headquarters, Air Weather Service
                  Scott AFB, Illinois 62225   2

FROM: Cindy Page
                  Station Agent   3

At the request of Bruce Dolan (APRA) I am enclosing a copy of: 4

    NIC 6740   ARPA NETWORK RESOURCE NOTEBOOK   22-NOV-71   4a

c: S. Crocker (ARPA)
   B. Dolan (ARPA)   5

Cindy Page
Augmentation Research Center
Stanford Research Institute
Menlo Park, California 94025

            To:
                  Cindy Page
                  Augmentation Research Center
                  Stanford Research Institute
                  Menlo Park, California 94025

Transmittal to Dave Liddle

(J9096) 15-MAR-72 16:32; Title: Author(s): Cindy Page/CXP;
Distribution: Cindy Page/CXP; Sub-Collections: SRI-ARC; Clerk: LLL;
Origin: <LANE>T-L-LIDDLE.NLS;3, 15-MAR-72 16:29 LLL ;   ;

Transmittal to Dave Liddle

ARPA Network Information Center   NIC 9096
Stanford Research Institute   25-FEB-72
Menlo Park, California 94025   1

Dave Liddle
Owens-Illinois, Inc.
Lewis Development Park, Bldg. 30
Perrysberg, Ohio 43551   2

Dear Mr. Liddle:
We have received notice that your office is now an Affiliate of
the ARPA Network. As such, you will be receiving documents on
distribution from the Network Information Center (NIC).   3

We are sending you a core collection of existing documents,
including the following Functional Documents for which we will
provide updates: 4

   NIC 6740   ARPA Network Resource Notebook   4a

       7104   ARPA Network Current Network Protocols   4b

       5145   Current Catalog of the NIC Collection   4c

       5150   Current Directory of Network Participaats   4d

       7590   Network Informaion Center User Guide   4e

We are also sending you a number of documents which you may need
as background.   5

       7542   A Forward Look; by Lawrence G. Roberts, ARPA (JUNE
              1971)   5a

       4564   AFIPS Reprint: Computer Network Development to
              Achieve Resource Sharing; by Lawrence G. Roberts and
              Barry D. Wessler   5b

       4565   AFIPS Reprint: The Interface Message Processor for
              the ARPA Computer Network; by F. E. Heart et al   5c

       4566   AFIPS Reprint: Analytic and Simulation Methods in
              Computer Network Design; by Leonard Kleinrock   5d

Transmittal to Dave Liddle

    4567   AFIPS Reprint: Topological Considerations in the
               Design of the ARPA Computer Network; by H. Fran et
               al   5e

    4568   AFIPS Reprint; Host-Host Communication Protocol in
               the ARPA Network; C. Stephen Carr et al   5f

        We can usually supply copies of particular documents
indicated by a back arrow in the Catalog Listings, and will loan
or direct you to sources of other documnts in the Listings.   6

Cindy Page, our Station Agent, accomplishes NIC distribution, and
has now put you on distributon for all document sent to Site
Liaisons.   7

                           Jeanne North,
                           Information and Station Agent
Coordinator   8

c: S. Crocker (ARPA)
   P. Karp.   9

9122

See
BASELINE

BOOK

the following are updates to the handling of resident DDT
flushing   1

    the BUGCHK code (PISRV) should be as follows: 1a

        ;LESS SERIOUS HALT   1a1

                                                                            1a2
        LS BUGCHK,2   1a3

                                                                            1a4
        BUGC9:   SKIPE DCHKSW   ;DEBUGGING ?   1a5

           SKIPE DDTPRS   ;YES, HAVE DDT ?   1a5a

        BUGCO: CAIA   ;NO   1a6

           JFCL   ;BREAKPOINT HERE   1a6a

           AOS JBOFLG   ;GET IT REPORTED   1a6b

           JRST @BUGCHK   ;CONTINUE   1a6c

    the BUGHLT code (PISRV) should be as follows: 1b

        LS BUGHLT,2   1b1

        LS DDTPRS,1   1b2

                                                                            1b3
        BUGH9:   SOS BUGHLT   1b4

           SKIPE DBUGSW   ;DEBUGGING ?   1b4a

        BUGHO: SKIPE DDTPRS   ;YES, DDT PRESENT ?   1b5

           CAIA   ;NO   1b5a

           JRST 4,@BUGHLT   ;YES   1b5b

           AOS JBOFLG   ;GET IT REPORTED SOON   1b5c

    the routine to flush DDT (DDTFSH in SWPMON) should be as
    follows: 1c

```
     ;FLUSH DDT AND SYMBOL TABLE AND MAKE PAGES AVAILABLE FOR
     SWAPPING                                                       1c1


                                                                   1c2
         EXTERN MAKPGA,DDTPRS                                       1c2a


                                                                   1c3
DDTFSH:    PUSH P,2                   ;SAVE REGISTERS               1c4
       PUSH P,1                                                     1c4a
       SETZM DBUGSW                                                 1c4b
       SETZM DCHKSW                                                 1c4c
       SETZM SWPSTP                                                 1c4d
       SETOM DDTPRS               ;INDICATE NO DDT                  1c4e
       MOVE 1,[HALT 100]                                           1c4f
       MOVEM 1,100                                                 1c4g
       MOVE 2,SWPCOR              ;ALREADY FLUSHED ?                1c4h
       CAMN 2,MONCOR                                               1c4i
       JRST DDTFSR               ;YES                              1c4j
       SUB 2,MONCOR                                                1c4k
       MOVNS 2                                                     1c4l
       HRLZ 2,2                                                    1c4m
       HRR 2,MONCOR                                                1c4n
       HRRZM 2,SWPCOR                                              1c4o
       HRRZ 1,2                                                    1c4p
       CALL MAKPGA               ;FREE THE PAGE                    1c4q
       AOBJN 2,.-2               ;LOOP TILL ALL FREE               1c4r
DDTFSR:    POP P,1                    ;RESTORE REGISTERS           1c5
```

```
        POP P,2                                                  1c5a
        RET                     ;RETURN                          1c5b
```

Mary S. Church

(J9124) 14-FEB-72 15:43; Title: Author(s): Kenneth E. Victor/KEV;
Distribution: Bob Van Tyul, Jeanne B. North, Robert L. Dendy, John T.
Melvin, Kenneth E. Victor, John W. McConnell, Peggy M. Karp, Dan L.
Murphy, Rod M. Fredrickson, Peter H. Lipman, Don C. Wallace, Carl M.
Ellison, Ted R. Strollo/TUG; Sub-Collections: SRI-ARC TUG; Clerk: KEV;
Origin: <VICTOR>NEW-DDT-FLUSHING.NLS;1, 14-FEB-72 15:05 KEV ;

request for bruce dolan

bruce, could you send me some info spelling out the differences
between the 316-imp and the 516-imp.   thanx john   1

Kenneth E. Victor

(J9125)   14-FEB-72 16:33;   Title: Author(s): John T. Melvin/JTM;
Distribution: Jeanne B. North, Bruce A. Dolan, Alex A. McKenzie, John T.
Melvin, Robert M. Metcalfe, Robert E. Kahn, Richard B. Kalin, Jonathan B
Postel, Peggy M. Karp, James E. White, Steve D. Crocker/NF;
Sub-Collections: SRI-ARC NF; Clerk: JTM;

Message to Systems People at the NIC.
When you ask people to sign off for a time to check out hard or
software problems, it would be much appreciated if you could
give an estimate of how long the disruption of service will be.

1

Jonathan B Postel

(J9127)   14-FEB-72 16:54;   Author(s): Jonathan B Postel/JBP;
Distribution: John T. Melvin, Kenneth E. Victor, Don C. Wallace/JTM KEV
DCW; Sub-Collections: NIC; Clerk: JBP;

Furthermore on Deleting Old Versions (Reply to 8965)

(1) I objected to your original proposal -- sorry I'm "no one".   1

(2) I don't believe that our proposal is more expensive in terms
of disk space (and may even be cheaper) because   2

    (a) Deleted and undeleted files require exactly the same
    amount of space (I believe).   2a

    (b) There is no automatic expunge of deleted files.   2b

(3) My philosphy is that any file which contains useful work
(e.g., a version of a program which has been made to work in the
course of a day and is subsequently changed to add new features)
should not be irrevocably erased until a dump of that file has
been made. It's not good enough to leave this decision up to the
user, since he may not realize the need for a certain version of
a file until after the day it was created.   3

(4) I endorse the idea of having an automatic process which runs
after each day's dump and deletes all but the highest version
number of every file.   4

    This is more general that Ken's and my original proposal and
    doesn't require changes to individual systems to achieve an
    overall improvement in disc usage.   4a

(5) If Bill Duvall's program can be used, that's great. Is it
reliable enough (able to survive I/O system errors). It must be
able to generate some sort of record of any trouble it
encounters, and shouldn't delete files which couldn't be dumped
(or is this a moot point since, if they couldn't be dumped, they
may be unusable anyway?).   5

(6) If Bill's program looks like it can be modified easily to do
the job, I would propose that your suggestions be implemented
ASAP.   6

Jonathan B Postel

(J9129) 14-FEB-72 18:24; Title: Author(s): Walter L. Bass/WLB;
Distribution: Mary S. Church, Kenneth E. Victor/MSC KEV;
Sub-Collections: SRI-ARC; Clerk: WLB;

Suggested Schedule for the Use of the System

The following schedule for the use of the system is recommended
by the EMC. We suggest that ARC people should discuss this and
that we implement such a schedule by the end of the week.   1

    The dump has been rescheduled for 0300 to 0500 every morning,
    Tuesday through Saturday. Special arrangements will have to
    be made to have the dump moved to 2200 to 2400 for system work
    or to get a dump on Monday mourning.   1a

    Heavy processes should be scheduled as much as possible as
    follows: 1b

        Output Device Printer, over five pages: 1800 to 0900.   1b1

            An exception might have to be made for NET users who
            have no "Quickprint" capability.   1b1a

        Compilations (this includes loader and assemblers): 1200 to
        1300, 1800 to 0900.   1b2

        Baseline record hardcopy generation (once a week): 0500 to
        0800, or after 1800.   1b3

        Journal hardcopy formatting: 0500 to 0700.   1b4

        Journal hardcopy printing: 0700 to 0900.   1b5

        DEX (non-rush items): 0500 to 0900, or after 1800.   1b6

        Catalog generation: 0500 to 0800, or after 1800.   1b7

        Accounting system runs: 0500 to 0800, or after 1800 once a
        week.   1b8

        NOTE: in order to make good use o the 0500 to 0800 slot for
        heavy processes, we would like people not to do editing
        during this time unless it is to support the use of one of
        the above processes or the system is not being used, i.e.
        there are no heavy proccesses to run.   1b9

        NOTE: A process similar to that used by the NLS programmers
        to get their files automatticaly compiled and/or printed
        will be made available for having files automaticaly
        formatted by the Output Processor during the 0500 to 0800
        time period.   1b10

Suggested Schedule for the Use of the System

(J9130) 15-FEB-72 13:50; Title: Author(s): Charles H. Irby/CHI;
Distribution: Diane S. Kaye, Paul Rech, Michael D. Kudlick, Donald R.
Cone, Don Limuti, William R. Ferguson, Priscilla Lister, Robert L.
Dendy, Linda L. Lane, Marilyn F. Auerbach, Walter L. Bass, Mary S.
Church, William S. Duvall, Douglas C. Engelbart, Beauregard A. Hardeman,
Martin E. Hardy, J. D. Hopper, Charles H. Irby, Mil E. Jernigan, Harvey
G. Lehtman, John T. Melvin, Jeanne B. North, James C. Norton, Cindy
Page, Bruce L. Parsley, William H. Paxton, Jeffrey C. Peters, Jake
Ratliff, Barbara E. Row, Ed K. Van De Riet, Dirk H. van Nouhuys, Kenneth
E. Victor, Don C. Wallace, Richard W. Watson, Don I. Andrews/SRI-ARC;
Sub-Collections: SRI-ARC; Clerk: CHI;

DEX-1 Initialization-- Case Shifts from TIs with Cassettes
Permitted

This message refers to the next version of NLS to be brought up
later this week. The change is currently in the <Nic-nls> and
<rel-nls>versions.

DEX-1 Initialization-- Case Shifts from TIs with Cassettes
Permitted

DEX now permits the user to make use of the expanded character
sets of terminals other than the TTYs by permitting the use of
shift characters to change case rather than / and \. To make use
of this feature, the user specifies a "Terminal type" after
specifying the "Device: Off-line DEX-1". Valid terminals are
33- and 35-ttys (which have single case and thus make use of the
DEX capitalization characters) and Execuport, Titerminal and
37-tty (which have case shifts). The same symbols as are used in
"Device" specification for the terminals to enter NLS are used to
specify the Terminal type, (i.e., T for Ti terminal, 33 for 33
tty.)   1

    If an improper specificaton is typed the user will be asked
    again. If an acceptable device is specified, the user will
    then be asked for "Input file names as in the old DEX. If a
    device with uppercase characters is given, the slashes are not
    considered to be control characters and need not be preceded
    by the literal escape character (').   la

Cassette recorders are here and have been in use by the PSO
people for several weeks with TI-terminals. The major hurdle to
the effective use of DEX for primary input is passed. Copies of
the DEX-1 manual with information on the use of the cassette
recorder with TI-terminals are available.....hgl   2

DEX-1 Initialization-- Case Shifts from TIs with Cassettes
Permitted

(J9133) 15-FEB-72 14:53; Title: Author(s): Harvey G. Lehtman/HGL;
Distribution: Diane S. Kaye, Paul Rech, Michael D. Kudlick, Donald R.
Cone, Don Limuti, William R. Ferguson, Priscilla Lister, Robert L.
Dendy, Linda L. Lane, Marilyn F. Auerbach, Walter L. Bass, Mary S.
Church, William S. Duvall, Douglas C. Engelbart, Beauregard A. Hardeman,
Martin E. Hardy, J. D. Hopper, Charles H. Irby, Mil E. Jernigan, Harvey
G. Lehtman, John T. Melvin, Jeanne B. North, James C. Norton, Cindy
Page, Bruce L. Parsley, William H. Paxton, Jeffrey C. Peters, Jake
Ratliff, Barbara E. Row, Ed K. Van De Riet, Dirk H. van Nouhuys, Kenneth
E. Victor, Don C. Wallace, Richard W. Watson, Don I. Andrews/SRI-ARC;
Sub-Collections: SRI-ARC; Clerk: HGL;

Modular TNLS Course

(J9134) 15-FEB-72 15:28;   Title: Author(s): Dirk H. van Nouhuys/DVN;
Distribution: Richard W. Watson/RWW; Sub-Collections: SRI-ARC; Clerk:
LLL;
Origin: <VANNOUHUYS>MOD-TNLS-COURSE.NLS;1, 11-FEB-72 10:26 DVN ;
;

<No charts exist for items below this line>   6b

2. Content analyses   6c

3. Execute Edit   6d

4. Go to Sort. etc.   6e

Dirk H. van Nouhuys
Augmentation Research Center
Stanford Research Institute
Menlo Park, California 94025

                    To:
                       Access Copy

                         9134

memo to nic   1

    about the "output device teletype" and the output directives,
I find it very hard to arrange to have the page boundaries
come out on my model 37 tty paper folds, perhaps you could
wait longer between printing the first page mark and the first
part of the text. 2. i am disturbed that i can not have
statement zero print on a seperate page and still have the
page with statement one be page one. also it would be nice to
have directives to make part of a document invisible to the
"odt" print out routine.   1a

    why is it that the journal is often un available ? the journal
is an very important reason that i utilize the nic.   1b

(J9135)   15-FEB-72 15:31;   Author(s): Jonathan B Postel/JBP;
Distribution: Richard W. Watson/RWW; Sub-Collections: NIC; Clerk: JBP;

memo to crocker   1

   When does alex's new document on Host-Host protocol get
   stamped official ?   1a

   When do you want to have your protocol review presentation ?   1b

   What is happening with the Sjcc paper ?   1c

     I do not have write access to the file from my normal
     signon name.   1c1

memo to nf file   1

  Gordon A. Smith   1a

    date = 14 Feb 72   1a1

    There was a message for me once that a gordon smith of jpl
    was looking for someone who knew about the arpa network,
    apperently he came to ucla unannounced and we were all out
    to lunch   1a2

  Louis Pouzin   1b

    Date = 9 & 10 Feb 72   1b1

    We talked about network protocols and measurements for
    several hours on wednesday and demonstrated the network on
    thursday. also some talk about analytical and simulation
    studies. He had lunch with Dr. Kleinrock.   1b2

  Robert 1. Fink   1c

    Date = 10 Feb 72   1c1

    I talked to Bob by phone to ask him to the RJE Protocol
    meeting. He is at Lawerence Berkeley Labs, and works with
    the CDC machines. I ask NIC to send him a Protocol
    notebook.   1c2

  Tom Stockton   1d

    Date = 14 Feb 72   1d1

    I had a visit from Tom Stockton (AP). We talked for about
    an hour about the ARPA Network and the implications of
    computer networks. Then i tried to demonstrate the net!
    First the NIC was down then BBN refused connection. Third
    try worked and we got connected to Multics, where we ran a
    program and looked around. After that we got into
    Lincoln-67 and looked around. Then my system went down.   1d2

(J9137) 15-FEB-72 15:36;   Author(s): Jonathan B Postel/JBP;
Distribution: Jeanne B. North, Bruce A. Dolan, Alex A. McKenzie, John T.
Melvin, Robert M. Metcalfe, Robert E. Kahn, Richard B. Kalin, Jonathan B
Postel, Peggy M. Karp, James E. White, Steve D. Crocker/NF;
Sub-Collections: NIC NF; Clerk: JBP;

Two Army groups will be on the Network in May-June.
Following are the senior technical supervisors at each
Army location. Please add them to NIC distribution.

Mr. Michael Romanelli
Aberdeen Research & Development Center
Aberdeen Proving Ground, MD 21005
Tel. (301) 278-4574

Mr. Ralph U.S. Army MERDC
ATTN: SMEFB-BC
Ft. Belvoir, VA 22060
Tel. (703) 664-5511

1

(J9141)   16-FEB-72 7:07; Title: Author(s): Bruce A. Dolan/BAD;
Distribution: Jeanne B. North/JBN; Sub-Collections: NIC; Clerk: BAD;

Please send one copy of (1) TIP User's Guide (NIC 8232),
(2) Resource Notebook, and (3) Protocol Notebook to
the following person (one-time delivery):

Mr. Joseph Powers
ATTN: DDC-DS
Directorate of Development
Bldg. 5
Cameron Station
Alexandria, VA 22314
Tel. (703) 274-6860

1

Request for Documents

(J9142)   16-FEB-72 7:14;   Title: Author(s): Bruce A. Dolan/BAD;
Distribution: Jeanne B. North/JBN; Sub-Collections: NIC; Clerk: BAD;

Followup on 8680 and 8730 -- Identification System Changes

Bill -- sorry to be so long in replying to your 8730. Other
things needed to be done first.   1

Group Addresses   2

    I will acquiesce in leaving a seperate address field (the
    option was to eliminate it since it currently is always the
    same as the coordinator). I must point out, though, that
    LGETADDR is NOT an adequate mailing address construction
    routine for the following reason: 2a

        When a person receives an item through the mail, he needs
        to know the CAPACITY in which he is receiving it -- i.e.,
        he needs to know WHY he is on the mailing list for that
        item and WHAT ACTION he needs to take. E.g., if EVERYONE
        is receiving that item, then it is merely his personal
        copy; if he is receiving it as COORDINATOR of an unexpanded
        group, then he is custodian of the item for that group and
        may need to circulate it or replicate it for distribution
        within the group, etc.   2a1

    I think I'll write a routine, e.g. MAILADDR, which will take
    an ident and   2b

        (1) If it's an individual, construct a string (passed to
        the routine) containing the person's name and mailing
        address in a suitable format for putting on an envelope for
        mailing.   2b1

        (2) If it's a group or affiliation (expanded or not),
        construct string of the form   2b2

            (a) If the address is explicit: 2b2a

            <Group Name>
            <Group Address>   2b2a1

            (b) If the address is a person's ident: 2b2b

            <Group Name>
            c/o <Person's Name>
            <Person's Address>   2b2b1

            (c) If the address is a group or affiliation ident: 2b2c

            <Group Name>
            c/o <MAILADDR of this other group>   2b2c1

Followup on 6680 and 8730 -- Identification System Changes

(I need this routine for myself, and I might as well add it to
the IDENT system so others can use it if they wish.)   2c

Clean-Up (Field Terminators)   3

Agree that standard field terminator should be semicolon:
input routines must be made to check for semicolons and
replace them with something harmless.   3a

Directories   4

I like the idea of having directory entities which have groups
as members, except that this would require a more drastic
reprogramming of the ident system than just adding a
Directories field to the current entries.   4a

I see good arguments on both sides, and it is probably true
that a two-way linkage (Directories fields along with
Directory entities) might prove better in the long run.
However, I think it's worth trying the simpler system I
proposed as an initial attempt which can be revised if the
demand develops.   4b

If you don't have strong objections, I'll proceed along these
lines.   4c

Followup on 8680 and 8730 -- Identification System Changes

(J9143)   16-FEB-72 9:06;   Title: Author(s): Walter L. Bass/WLB;
Distribution: William S. Duvall, Walter L. Bass, William S. Duvall, Mary
S. Church, Douglas C. Engelbart, Charles H. Irby, Harvey G. Lehtman,
James C. Norton, Bruce L. Parsley, William H. Paxton, Richard W.
Watson/WSD DSSIG; Sub-Collections: SRI-ARC DSSIG; Clerk: WLB;

MPS Progress since last July: a personal view

Following the meeting this morning (15-FEB) at Xerox, I was
disturbed both by how little we have apparently accomplished on
MPS in the last few months and by how little I could remember
having accomplished personally.   1

Encouraged by the faint hope that perhaps I really had done
something but had just forgotten it, I decided to investigate.
Luckily my distrust of computers, based on many lost files, had
led me to save listings of everything -- I was able to go back to
July of last year when I took over the MPL compiler from Peter
and trace events from there.   2

The following is a brief description of what I was working on
during the past few months as evidenced by pencil marks on old
printouts.   3

late July   4

    rework the declaration logic   4a

    initialization of dseg and declared variables   4b

    exp parsing and constant expression evaluation partially
    debugged   4c

Aug   5

    produce special information at head of code block   5a

    more work on declarations   5b

    left hand side -- absloc and const   5c

    merge multiple constant fields (eg. abc)   5d

    function calls (a continuing effort)   5e

    fields of fields   5f

    multiword id's   5g

    REPEAT, EXIT label   5h

    logic for special case lhs's (later removed, sigh)   5i

    BASE declaration   5j

Sept   6

MPS Progress since last July: a personal view

MPS Progress since last July: a personal view

MPS Progress since last July: a personal view

RECORDSIZE, DISPLACEMENT, FIELDMAX	10c
structural information from NLS file in output	10d
literal strings	10e
additions to DO statement for Butler	10f
use fixups for forward reference procedure calls	10g
rewrite SEGRUN as MPL program	10h
debug and "improve" it in the process	10h1
discussions of data structures and MPL	10i
SIMULA 67, PASCAL, SUE, ECL, OSL/2 ...	10i1
Feb -- some time spent preparing for AI qual during Feb and March	11
MPLMETA final design and implementation as part of MPL	11a

Also during the period covered above, I went to an astonishing
number of meetings at ARC and did a little work on NLS (basic
file system, NLS file system, Goto Exec) and L10 (symbols to and
from DDT).   12

Compiling this list at least made me feel better. It appears
there has been a measure of thrashing in recent months but at
least some progress has been made.   13

It would be interesting to see similar lists for you two (Jim and
Peter).   14

Towards refining the definition of a link

To use a link, the system now searches to the right from the starting address of the cursor until it finds a right parenthesis, then reads left trying to parse what it meets as a link.   1

    This definition of a link means that any piece of text preceding a right parenthesis will break the search for a real link to the right of it and return an error message "no such name." ("(name)" is a legal link.)   1a

    For example, the title of a recent journal item contained a parenthetical expression. A moderately naive TNLS user was unable to read the item sent to him without help because when he addressed the link the cursor failed on the false link in the title.   1b

    Under these conditions a prudent writer does not use parentheses.   1c

I propose that a comma be a necessary part of a link.   2

    A link to a statement in the same file would then be (,name).   2a

    A link which only changed viewspecs would be (,:viewspecs).   2b

    The disadvantage is that some present links to statement names in the same file would become invalid.   2c

    The advantage is that we could make almost normal uses of parentheses in text.   2d

Dirk H. van Nouhuys
Augmentation Research Center
Stanford Research Institute
Menlo Park, California 94025

To:
    Access Copy

Towards refining the definition of a link

(J9146) 16-FEB-72 11:06; Title: Author(s): Dirk H. van NouhuysDirk H.
van Nouhuys/DVN; Distribution: Diane S. Kaye, Paul Rech, Michael D.
Kudlick, Donald R. Cone, Don Limuti, William R. Ferguson, Priscilla
Lister, Robert L. Dendy, Linda L. Lane, Marilyn F. Auerbach, Walter L.
Bass, Mary S. Church, William S. Duvall, Douglas C. Engelbart,
Beauregard A. Hardeman, Martin E. Hardy, J. D. Hopper, Charles H. Irby,
Mil E. Jernigan, Harvey G. Lehtman, John T. Melvin, Jeanne B. North,
James C. Norton, Cindy Page, Bruce L. Parsley, William H. Paxton,
Jeffrey C. Peters, Jake Ratliff, Barbara E. Row, Ed K. Van De Riet, Dirk
H. van Nouhuys, Kenneth E. Victor, Don C. Wallace, Richard W. Watson,
Don I. AndrewsDiane S. Kaye, Paul Rech, Michael D. Kudlick, Donald R.
Cone, Don Limuti, William R. Ferguson, Priscilla Lister, Robert L.
Dendy, Linda L. Lane, Marilyn F. Auerbach, Walter L. Bass, Mary S.
Church, William S. Duvall, Douglas C. Engelbart, Beauregard A. Hardeman,
Martin E. Hardy, J. D. Hopper, Charles H. Irby, Mil E. Jernigan, Harvey
G. Lehtman, John T. Melvin, Jeanne B. North, James C. Norton, Cindy
Page, Bruce L. Parsley, William H. Paxton, Jeffrey C. Peters, Jake
Ratliff, Barbara E. Row, Ed K. Van De Riet, Dirk H. van Nouhuys, Kenneth
E. Victor, Don C. Wallace, Richard W. Watson, Don I. Andrews/SRI-ARC;
Sub-Collections: SRI-ARC; Clerk: LLL;
Origin: <LANE>LINKS.NLS;1, 16-FEB-72 10:59 LLL ;   ;

Towards refining the definition of a link

To use a link, the system now searches to the right from the
starting address of the cursor until it finds a right
parenthesis, then reads left trying to parse what it meets as a
link.   1

   This definition of a link means that any piece of text
   preceding a right parenthesis will break the search for a real
   link to the right of it and return an error message "no such
   name." ("(name)" is a legal link.)   1a

   For example, the title of a recent journal item contained a
   parenthetical expression. A moderately naive TNLS user was
   unable to read the item sent to him without help because when
   he addressed the link the cursor failed on the false link in
   the title.   1b

    Under these conditions a prudent writer does not use
   parentheses.   1c

I propose that a comma be a necessary part of a link.   2

   A link to a statement in the same file would then be (,name). 2a

   A link which only changed viewspecs would be (,:viewspecs).   2b

   The disadvantage is that some present links to statement names
   in the same file would become invalid.   2c

   The advantage is that we could make almost normal uses of
   parentheses in text.   2d

Dirk H. van Nouhuys
Augmentation Research Center
Stanford Research Institute
Menlo Park, California 94025

                  To:
                     Access Copy

Towards refining the definition of a link

(J9147) 16-FEB-72 11:13; Title: Author(s): Dirk H. van Nouhuys/DVN;
Distribution: Diane S. Kaye, Paul Rech, Michael D. Kudlick, Donald R.
Cone, Don Limuti, William R. Ferguson, Priscilla Lister, Robert L.
Dendy, Linda L. Lane, Marilyn F. Auerbach, Walter L. Bass, Mary S.
Church, William S. Duvall, Douglas C. Engelbart, Beauregard A. Hardeman,
Martin E. Hardy, J. D. Hopper, Charles H. Irby, Mil E. Jernigan, Harvey
G. Lehtman, John T. Melvin, Jeanne B. North, James C. Norton, Cindy
Page, Bruce L. Parsley, William H. Paxton, Jeffrey C. Peters, Jake
Ratliff, Barbara E. Row, Ed K. Van De Riet, Dirk H. van Nouhuys, Kenneth
E. Victor, Don C. Wallace, Richard W. Watson, Don I. Andrews/SRI-ARC;
Sub-Collections: SRI-ARC; Clerk: LLL;
Origin: <LANE>LINKS.NLS;1, 16-FEB-72 10:59 LLL ;   ;

Telnet Specifications Transmittal Letter

Telnet Memo   1

    I am sending you the latest edition of the draft (hopefully
    the last) of the Telnet Specifications via U.S. Postal
    Service. Please let me have your comments as soon as possible.
    The only changes to the protocol are the ones agreed on at
    thee October protocol workshop. Its is my hope that these
    documents are clearer than the existing unoffical rfc's.
    Please consider the possibility of making these offical
    documents as soon as possible.   1a

Telnet Specifications Transmittal Letter

(J9148) 16-FEB-72 13:23; Title: Author(s): Jonathan B Postel/JBP;
Distribution: Alex A. McKenzie, Steve D. Crocker, Michael A.
Padlipsky/AAM SDC2 MAP; Sub-Collections: NIC; Clerk: JBP;

More on Ident System Mods....in response to 9143

Walt....   1

    I don't really care for the Mailadr routine, but see that it
is a necessity. Foiled again by the extra-lookingglass world
of reality.   1a

    On the Directory stuff: 1b

        The Directory thingy whcih you mention ties in so closely
wih subcollections that I feel I would be evading my duty
if I simply said ueah, go ahead.   1b1

        I suggest that we try to get together wih CHI and JDH
tommorrow when I come down to talk about it.   1b2

More on Ident System Mods....in response to 9143

(J9149) 16-FEB-72 13:32; Title: Author(s): William S. Duvall/WSD;
Distribution: Walter L. Bass, J. D. Hopper, Richard W. Watson, Charles
H. Irby, Ed K. Van De Riet, James C. Norton/WLB JDH EMC;
Sub-Collections: SRI-ARC EMC; Clerk: WSD;

Data set restored from backup

Data set NET.OBJECT.PROCESS on volume DO6ONW was lost early
monday morning, Feb. 14. It was restored from a backup made on
Feb. 5. If anyone at your installation is using that data set,
any updates made to it between those two dates were lost and will
have to be restored. Sorry about that.

        Jim White   1

Data set restored from backup

(J9150)   16-FEB-72 13:39; Title: Author(s): James E. White/JEW;
Distribution: Eric F. Harslem, Jonathan B Postel, Ernest H. Forman,
James E. White/EFH JBP EHF JEW; Sub-Collections: NIC; Clerk: JEW;

do you realize that NETSTAT does not use the offical host names ?   1

netstat host names

(J9151)   16-FEB-72 13:48;   Title: Author(s): Jonathan B Postel/JBP;
Distribution: Richard W. Watson, John T. Melvin, Don C. Wallace/RWW JTM
DCW; Sub-Collections: NIC; Clerk: JBP;

What I have been doing since July

reply to WHP's 9144

What I have been doing since July

<DEUTSCH>PAXTONREPLY.NLS;3, 16-FEB-72 14:14 LPD ;   1

   While I have not kept as careful track of my activities as
   Bill, I can reconstruct what I have accomplished since last
   July to some extent by looking through the various
   directories.   1a

   My activities have been fragmented between four projects: 1b

      MPS. I would guess this received about 50% of my attention
      between mid-September and mid-December, and none since then
      (I was away roughly August 1 to September 15 and December
      15 to December 30).   1b1

      Program verification (my thesis research). This has taken
      an increasing share and now accounts for about 50% of my
      working time.   1b2

      IMLAC NLS interface. This took most of my remaining time
      during the fall and now accounts for about 10%.   1b3

      MAXC microassembler. This occupied essentially 100% of my
      time through January, but is now down to 25% and will reach
      0 by the end of the month.   1b4

   During the fall period I accomplished the following things on
   MPS: 1c

      Wrote a preliminary version of the debugger in L10, plus a
      test program, and checked them out to my satisfaction.
      This month I rewrote the debugger in MPL and expect to
      start debugging it within the next two weeks.   1c1

      Wrote and checked out a histogram program for measuring
      PDP-10 programs. We used this to do a small amount of
      tuning on the MPL compiler.   1c2

      Attended the MPL/Meta meetings and wrote them up.   1c3

   Since then, I have written an interim string package for MPS
   and gotten it to compile (I don't expect any bugs).   1d

   Once MPS is running I expect to want to write a number of
   packages within it; I also expect to help convert the
   compiler. First order of business is to convert the debugger,
   which I expect to take about 3 weeks (I will also be available
   for some compiler work, and, of course, design meetings ad
   nauseam during this time).   1e

One comment on WHP's list: a significant fraction of the
things on it deal with improving the efficiency of the object
code. While I admit to having pushed this at the time, I
think it was a mistake. As Jim pointed out at the meeting
yesterday, we have spent proportionately too much time
twiddling and not enough designing.   1f

What I have been doing since July

(J9153) 16-FEB-72 14:19;   Title: Author(s): L. Peter Deutsch/LPD;
Distribution: William H. Paxton, James G. Mitchell, L. Peter Deutsch/WHP
JGM LPD; Sub-Collections: NIC; Clerk: LPD;

Integrating the Reformatted Ident File into NIC Locator

I have devided the reformatted ident file (nic,identfile,) into
its component directores, restructured some of the directories,
provided each with an entry statemment to guide net TNLS readers,
and writen a new branch, (nic-work,locator,1:ct) to replace the
branch of Locator (nic, locator,2e) that pointed to the old
directories of newtwork participants.   1

PSO people are proofing the new text.   2

I intend to put the new branch in Locator and delete the
reformatted ident file and the obsolete directory files Friday
morning.   3

Each of you might glance at the new text to see if it leads to
the image and utility of the fils you expect.   4

Integrating the Reformatted Ident File into NIC Locator

(J9155)   16-FEB-72 14:22;   Title: Author(s): Dirk H. van Nounuys/DVN;
Distribution: Richard W. Watson, Jeanne B. North/RWW JBN;
Sub-Collections: SRI-ARC; Clerk: DVN;
Origin: <VANNOUHUYS>JOURDRAFT.NLS;14, 16-FEB-72 14:11 DVN ;