Forms Questions

FORMS   1

DVN and EKM talked with DLS on the telephone Wednesday, June 13 and
presented a number of questions about the Forms System. The
questions and answers follow.   2

Dirk also suggested that EKM visit RADC to get a clearer picture of
their office procedures and needs in the forms area. DIrk indicated
that a visit could be helpful in planning for a future data
management system.   3

DLS did not think a visit would be necessary but didn't object to
strenuously.   4

5

q..Frequency count of forms   6

We need to estimate the load on the printer, the work load on
personnel entering the forms descriptions, the volume of data to
be kept online, the volume of data to be archived, how often
online and archived material will be referenced, and many other
things which will effect the usefulness of the Forms System.   6a

A starting point for these estimates is a simple frequency count
of the number of forms that are filled out per week and per year.
It would also be helpfull to have some idea of the most heavily
used forms for example a count by form of the 10 most often used.   6b

a..They do not have the slightest idea idea of how many forms are
filled out and do not think it is possible to find out. One of the
things they would like from the forms system is a frequency count.
DLS guessed that there are very roughly 500 form 77s generated a
year.   7

q..Are there forms that require more than 1 person to complete? If
so how many and are they in widely separated locations?   8

a..Form 77 requires 3 different people to complete the information.   9

Then 3 other people review and sign it.   9a

Each form 77 would need to be available on line for from 1 to 3
months prior to archiving.   9b

q..DLS plans to create the form descriptions himself. He hopes that,
at 'some time in the future', there will be an administrative
assistant responsible for this very important work.   10

a..Where will the responsibility for entering the form descriptions
be placed?   11

q..Where does the information come from to complete the forms?   12

a..For many forms the information is gathered in bits and pieces, not
necessarily in sequence, from files, talking with people , and
fromold examples of the same form. It may take many sessions before
all the information is complete.   13

q..Do we know which forms have to be kept on line and for how long?
which forms should be archived?   14

a..We know for some the forms. It varies from form to form.   15

q..What are your expectations concerning capture, collation and
retrieval of material in the forms?   16

a..RADC is presently experimenting with 4 data management systems.
The most seriously used seems to be IDS (Integrated Data System)
which runs under GCO.   17

    DLS said that he does not believe that GCO has the proper
    interface to make it possible to use IDS over the network.   17a

    He seems to be interested in considering the possibility of
    expanding the forms systems to interface with a data management
    system. However, he realizes that this is a major project and is
    most anxious to get a simple forms system to aid them right now.   17b

q..What other devices do you have which could be used to print forms
other than the I/O Devices printer/terminal?   18

a..It looks as though the I/O Devices printer will not be delivered.   19

    The manaufacturer is now obtaining more than 50 % of the parts
    from Japan which is in conflict with the 'Buy American' rule of
    the GSO.   19a

    Therefore, DLS is thinking about looking at other printers.   19b

    He asked us about the Diablo print. This is just a printer and
    not a terminal but DLS seemed to think an interface could be
    built. Dirk said he would check this out.   19c

    They do have in use at RADC an IBM selectric that functions as a
    network terminal. Dirk has the specs for this.   19d

DLS said he had seen an IBM typewriter (terminal ???) with a split
platten and would check it out.   19e

DLS also mentioned a Lytton Business Systems printer/terminal.   19f

17206 Distribution
    James C. Norton, Dirk H. Van Nouhuys, Richard W. Watson, Harvey G.
    Lehtman,

Forms Questions

(J17206) 14-JUN-73 09:37;   Title: Author(s): Elizabeth K.
Michael/EKM; Distribution: /JCN DVN RWW HGL; Sub-Collections: SRI-ARC;
Clerk: EKM;
Origin: <MICHAEL>QUESTIONS.NLS;3, 14-JUN-73 09:33 EKM ;

New Command Language Prompting for DNLS

Charles, Dick Watson wants the N/E Team to make detailed
recommendations for the HELP system and the new command feedback.   1

These need to be tailored exactly to the new command language.   2

I need to coordinate with you on the feedback question. Certainly,
this feedback needs to be defined separately for each command, even
though there is a certain amount of consistency in the language now.
It begins to look very similar to the "noise word" aspect.   3

I think my feedback suggestions should be made on an updated version
of your document. (I did not write in the new corrections on my
copy.)   4

Your recent suggestion for prompts in the arrow feedback line is the
best I have heard and I would like to get it written up soon. Should
we add such text to your document, and cut down on standard noise
words in some cases? I need to talk to you about it soon, and I want
to assist in the revision of your document.   5

17208 Distribution
    Charles H. Irby,

New Command Language Prompting for DNLS

(J17208)   14-JUN-73 10:02;   Title: Author(s): Diane S. Kaye/DSK;
Distribution: /CHI; Sub-Collections: SRI-ARC; Clerk: DSK;
Origin: <KAYE>WINDOW.NLS;3, 14-JUN-73 09:52 DSK ;

Reported TNLS bugs

Answering (17148,)

Reported TNLS bugs

Yes - I get it now - I learned something from your bugs   Now we'll
see what can be done.   Thanks for pesisting...Diane Kaye   1

17209 Distribution
    Robert N. Lieberman,

Reported TNLS bugs

(J17209)   14-JUN-73 10:10;   Title: Author(s): Diane S. Kaye/DSK;
Distribution: /RLL; Sub-Collections: SRI-ARC; Clerk: DSK;

Q4ed in Catch 22

I feel the least we can do when we institute a new user allocation
scheme is to let the user know what his allocation is and who his
'group' is so that he has some reasonable notion of when he can get
his work done. I have gotten autologged out in the middle of several
things and since I do not know who my group is I do not know with
whom I should negotiate. Then I tried typing OFFQUOTA per the
instructions and was told to read IJOURNAL, 16824 which I would have
done except I couldn't log in - Thus the title of this memo   1

17210 Distribution
   Donald C. (Smokey) Wallace, Richard W. Watson, Don I. Andrews,
   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, Augmentation Research Handbook, Kirk E.
   Kelley, N. Dean Meyer, Kay F. Byrd, James E. (Jim) White, Diane S.
   Kaye, Paul Rech, Michael D. Kudlick, Ferg R. Ferguson, Linda L. Lane,
   Marilyn F. Auerbach, Walt Bass, 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,
   William H. Paxton, Jeffrey C. Peters, Jake Ratliff, Edwin K. Van De
   Riet, Dirk H. Van Nouhuys, Kenneth E. (Ken) Victor

Q4ed in Catch 22

(J17210)   14-JUN-73 12:12;   Title: Author(s): Elizabeth J. (Jake)
Feinler/JAKE; Distribution: /SRI-ARC; Sub-Collections: SRI-ARC; Clerk:
JAKE;

Phone Numbers

Could you please send me your current phone number and also that of
J.A. Smith? The ones currently listed in our directory don't seem to
work -- perhaps you have a new number? Please let me know via NIC
phone, sendmessage (mlk@sri-arc) or journal message. Thank you.
Marcia Keeney, Station Agent.   1

17211 Distribution
    George N. Petregal,

Phone Numbers

(J17211)   14-JUN-73 16:04;   Title: Author(s): Marcia Lynn Keeney/MLK;
Distribution: /GNP; Sub-Collections: SRI-ARC; Clerk: MLK;

This is the text of the message.

1

17212 Distribution
    James E. (Jim) White,

Visit Log: 14 Jun 73, Professors Lenard Troncale, Emilo Stanley, and
John Biddle, from California State Polytechnic University, Pomona

Action required by JCN, DCE; potential here for Utility
subscription.

Visit Log: 14 Jun 73, Professors Lenard Troncale, Emilo Stanley, and
John Biddle, from California State Polytechnic University, Pomona

Refer to prior interactions: Stanley's visit to ARC on 10 May
(17157,); documents left or sent by Stanley regarding their Institute
for Multidisciplinary Programs (IMP) and Project Alliance, X(15542,)
and X(15543,); and Stanley's 29 May Letter confirming today's visit
X(16528,).   1

Their main interest is in the potential of integrating the AKW
Utility into their Program. They'd like to consider buying a minimum
module ($40K/yr), beginning this Fall -- involving several Workshop
Architects, Len Troncale (as their Community nucleator), and having
application scope and extent evolve with the Institute's evolution.
Future communication would be with: 2

    Dr. Lenard R. Troncale,
    Institute for Multidisciplinary Programs
    California State Polytechnic University
    3801 West Temple Avenue
    Pomona California   91768
       (714) 598-4536   (Institute office)   2a

Questions re. actions, if they seriosly would want to pursue an
early subscription to the AKWU: 3

    Costs to them: 3a

        Basic Module: $40 K/yr   3a1

        Communication costs: 3a2

            If ANET o.k., then link to   ULA (40 mils) or USC (30 miles)   3a2a

            Else, TYMNET -- 300 baud, perhaps $5/hr extra   3a2b

            Else, dialup or lease to Cupertino -- mucho cost   3a2c

        Terminals: 3a3

            Several typewriters   3a3a

            One display   3a3b

        (Basically, these need more explicit resolution -- JCN??)   3a4

    Their eligibility to use ARPANET -- JCN ask Col. Ed Shalonka, or
    Al Blue...   3b

    Len will be in Washington next week, looking for support. Gave

1

Visit Log: 14 Jun 73, Professors Lenard Troncale, Emilo Stanley, and John Biddle, from California State Polytechnic University, Pomona

him names and phone numers of Don Aufenkamp, Peter Lykos, and Ed Weiss of NSF, and Tom O'Sullivan in ARPA HRRO.   3c

Jim will try to learn about ANET-usage criteria by early in the week so thatLen can call back.   3d

Consider our providing then with a letter of inroduction, to help assure a sponsor that we value them as a client.   DCE to do this.   3e

DCE   14-JUN-73 18:18   17213

Visit Log: 14 Jun 73, Professors Lenard Troncale, Emilo Stanley, and John Biddle, from California State Polytechnic University, Pomona

2

17213 Distribution
    James C. Norton, Richard W. Watson, Bonnar Cox, David R. Brown, Duane
    L. Stone, Michael D. Kudlick, Paul Rech,

1

Visit Log: 14 Jun 73, Professors Lenard Troncale, Emilo Stanley, and John Biddle, from California State Polytechnic University, Pomona

(J17213) 14-JUN-73 18:18;   Title: Author(s): Douglas C. Engelbart/DCE ; Distribution: /jcn rww bc drb dls mdk pr ; Sub-Collections: SRI-ARC; Clerk: DCE ;

Visit Log: 13 Jun 73, Jan Aminoff and Ulf Johanson, L.M. Ericsson
Telephone Company, Sweden

Considerable interest, both in AKW as future for a company such as
tirs to use, and in the information-utility business level implied
for the future. No immediate results expected.

Visit Log: 13 Jun 73, Jan Aminoff and Ulf Johanson, L.M. Ericsson
Telephone Company, Sweden

I had previously met Jan in Washington, at the ICCC in Oct 72.   1

    Jan Aminoff,
    U.S. Technical Liaison Officer
    The Ericsson Corporation
    100 Park Avenue
    New York, N.Y.   10017
        (212) 685-4030   1a

    Ulf Johanson
    Research Associate
    Transmission Division
    L. M. Ericsson Company
    S-12625 Stockholm, Sweden
        (Telephone: Sweden (08) 7191440)   1b

They basicaly dropped by just to see the operations here. Some
longer-term relevance to the comnuncations work that their company
may be doing.   2

I discussed at some length the AKW concept, the Utility, the trends
in packet communication, and the way that "Workshop" kinds of
activity would be impacting upon the communication business their
company would see in the future. Mentioned Bell of Canada's
insterest in subscribing to the Utillty. Also mentioned Kjell
Samuelson's (at the the University of Stockholm) prospects for
getting attached to the ARPANET, and his interest in collaborating
with ARC. (Jan knows Kjell; almost seemed as though Jan and Ulf were
wondering if their company could participate with Kjell,or help out
with communications, or???).   3

    In summary, we had a very intense and interesting interchange. I
    think that they both were interested beyond the mere show of
    advanced technique here. It doesn't seem too improbable that if
    their kind of interest were to become spread about their company a
    bit, that there might not be some sort of collaborative
    participation in the future.   3a

Gave them each a copy of: 4

D. C. Engelbart, AUGMENTING HUMAN INTELLECT: A CONCEPTUAL
FRAMEWORK, summary report, October 1962, 134p. (XDOC -- 3906.)   4a

D. C. Engelbart and W. K. English. "A Research Center for
Augmenting Human Intellect", AFIPS Proceedings, Fall Joint
Computer Conference, 1968. Vol. 33, Part 1, p.395-420. Thompson
Book Company, Washington, D.C. 1968. (XDOC -- 3954.)   4b

Visit Log: 13 Jun 73, Jan Aminoff and Ulf Johanson, L.M. Ericsson
Telephone Company, Sweden

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, 38p. (Journal -- 14724.)   4c

D. C. Engelbart, SRI-ARC SUMMARY for IPT CONTRACTOR-MEETING,
summary report of work done at ARC during 1972, 8p. (Journal --
13537.)   4d

D. C. Engelbart, COORDINATED INFORMATION SERVICES for a
DISCIPLINE- OR MISSION-ORIENTED COMMUNITY, paper presented at the
Second Annual Computer Communications Conference, San Jose,
California, 24 January 1973, 11p. (Journal -- 12445.)   4e

D. C. Engelbart, DESIGN CONSIDERATIONS FOR KNOWLEDGE WORKSHOP
TERMINALS, Paper at NCC, June '73 ARC Item (14851,)   4f

Augmentation Research Center, ONLINE TEAM ENVIRONMENT, Final
Report, RADC, 8 June 1972 (13041,)   4g

Marilyn Auerbach (who had met Jan at the ICCC last October, in
Washington) gave them a fairly long DNLS demonstration session.   5

17214 Distribution

Richard W. Watson, James C. Norton, Bonnar Cox, David R. Brown,
Michael D. Kudlick, Stephen W. Miller, Bonnar Cox, Marilyn F.
Auerbach,

1

Visit Log: 13 Jun 73, Jan Aminoff and Ulf Johanson, L.M. Ericsson
Telephone Company, Sweden

(J17214) 14-JUN-73 18:37;   Title: Author(s): Douglas C. Engelbart/DCE
; Distribution: /rww jcn bc drb ndk swm bc mfa ;
Sub-Collections: SRI-ARC; Clerk: DCE ;

I find the plethora of 3-character TNLS messages quite objectionable.
TNLS already was putting out too much garbage, especially when the
system was slow: the constant strain of either waiting for slow
computer responses or typing ahead and becoming disoriented (not to
mention making non-undoable errors) makes TNLS quite unpleasant
during the hours of heavy use. My personal feeling is that it should
be possible and perhaps even the default that there should be NO
computer feedback during specification of the command. (Cf. 940 QED)   1

17215 Distribution
    Nps Np, Richard W. Watson, Charles H. Irby,

1

(J17215)   14-JUN-73 19:01;   Title: Author(s): L. Peter Deutsch/LPD;
Distribution: /NP; Sub-Collections: NIC NP; Clerk: LPD;

more questions on control t

what does "FORK WAIT" mean in response to control t, better yet how
do i find out all the responses to control t and the meanings with
out bothering you? --jon.   1

17217 Distribution
    James E. (Jim) White,

more questions on control t

(J17217) 14-JUN-73 20:44; Title: Author(s): Jonathan B. Postel/JBP;
Distribution: /JEW; Sub-Collections: NIC; Clerk: JBP;

sndmsg to ucla problem

the ucla-nmc server ftp does indeed have a maximum line length for
transmissions on the telnet connection of 80 bytes. i will inquire
into having this restriction removed but dont hold your breath.
--jon.   1

17218 Distribution
    James E. (Jim) White,

sndmsg to ucla problem

(J17218)   14-JUN-73 19:35;   Title: Author(s): Jonathan B. Postel/JBP;
Distribution: /JEW; Sub-Collections: NIC; Clerk: JBP;

For Jim and Vicki

        TELL ME WHY

1

    Tell me why the stars do shine
    Tell me why the ivy twines
    Tell me why the ocean's blue
    And I will tell you just why I love you

2

    Because God made the stars to shine
    Because God made the ivy twine
    Because God made the ocean blue
    Because God made you — that's why I love you

3

            Melanie Safka

4

17219 Distribution
James E. (Jim) White,

For Jim and Vicki

(J17219) 15-JUN-73 11:15;   Title: Author(s): N. Dean Meyer/NDM;
Distribution: /JEW; Sub-Collections: SRI-ARC; Clerk: NDM;
Origin: <MEYER>TELLMEWHY.NLS;1, 15-JUN-73 11:14 NDM ;

New Members to the SUR Steering Committee

I sent a message to you in may but received no reply so here I am
again.   Abhay Bhushan has requested that P.L. Miller, Barry Ritea,
June Shoup, and J.J. Wolf be added to the SUR Steering Committee.   He
would like Jeff Barnett to be deleted from same.   Since you are
listed as coordinator I need your OK before I make these changes.
Please let me know your decision on this as soon as possible.   Thank
you.   Marcia Keeney.   1

17220 Distribution
    Steve D. Crocker,

1

New Members to the SUR Steering Committee

(J17220)   15-JUN-73 11:25;   Title: Author(s): Marcia Lynn Keeney/MLK;
Distribution: /SDC2; Sub-Collections: SRI-ARC; Clerk: MLK;

test and paper proposal

Frank, I suggest that we write a paper on our experiences using the
NLS system. Furthermore, we should draft it now before we forget the
inconveniences and advantages of this system. I have started such a
paper but it is at present very very very rough. Also just
remembered that you will not get online journal mail unless your
status is changed in the ident file. I will do that today, so this
item will serve as a test for you.   robert   1

17221 Distribution
    Frank G. Brignoli,

test and paper proposal

(J17221)   15-JUN-73 11:50;   Title: Author(s): Robert N.
Lieberman/RLL; Distribution: /FGB; Sub-Collections: NIC; Clerk: RLL;

New Members for the Network Graphics Group

Bob Thomas has requested that Elaine L. Thomas and T. H. Meyer of BBN
be added to the Network Graphics Group. As coordinator of the NGG I
need your OK before entering them as members. Can you let me know as
soon as possible your decision. Thanks much. Marcia Keeney . P.S.
You can send me a message (keeney@sri-arc), send a journal message or
just call me at the NIC, whichever is easiest for you.   1

17222 Distribution
   Albert Vezza,

New Members for the Network Graphics Group

(J17222)   15-JUN-73 11:54;   Title: Author(s): Marcia Lynn Keeney/MLK;
Distribution: /AV; Sub-Collections: SRI-ARC; Clerk: MLK;

rll journal delivery note

Yes, we got (17129,) your thanks..Thank you also.. Faith in Journal
delivery restored?? Jim   1

17223 Distribution
    Robert N. Lieberman,

1

rll journal delivery note

(J17223)   15-JUN-73 12:25;   Title: Author(s): James C. Norton/JCN;
Distribution: /RLL; Sub-Collections: SRI-ARC; Clerk: JCN;

bug(?) - temp files deleted when anyone logs out under same directory

I have noticed that temporary files(e.g., message.copy;1;t) disappear
after one logouts. However, it apparently does not need to be the
same person that is , same job , that caused the creation of the
temporary file. It need only be any job under the same directory
name, at least it appears that way today when I wanted to copy a
sndmsg but by the time i got into nls and attempted to convert it to
nls form a fellow nsrdc-er logout and my mesage.copy;1;t file was no
where to be found. This is a minor problem which might have been
caused by my missunderstanding of execute insert assembler commmand
to do the converting.   robert - nsrdc-rll   1

17224 Distribution
    Diane S. Kaye, Harvey G. Lehtman, Charles H. Irby, James C. Norton,
    Frank G. Brignoli,

1

bug(?) - temp files deleted when anyone logs out under same directory

(J17224)   15-JUN-73 12:47;   Title: Author(s): Robert N.
Lieberman/RLL; Distribution: /BUGS JCN FGB; Sub-Collections: NIC BUGS;
Clerk: RLL;

Joe -- I just read over your proposals and the following comments are
fairly random first reactions: 1

    I believe that you will do well just to begin the task you have
defined. I believe that it will take several years of intense work
to derive reasonably complete models.   1a

    The "Set of interface capabilities to allow for the automatic and
semi-automatic transmformation", referred to on page 5, has
manifested itself in the Arpanet community as Protocols
development.   1b

        The protocols between IMPS and First level protocols between
Hosts are discussed in some of the JCC Proceedings. They are
only moderately interesting.   1b1

        The Higher level protocols currently consist of TELNET,
allowing remote terminal access of foreign sites, File
Transfer, Remote Job Entry (used for Job SUBMISSION, rather
than JCL-like control) and Graphics.   1b2

        The protocols have been very slow in coming and are quite
primitive. Clearly only first-pass efforts (tho the TELNET was
recently revised and is beginning to be interesting).   1b3

        If you are interested I can have copies of the protocols sent
to you, using the same mechanism that produced this letter.   1b4

            I use the Network Information Center (at SRI -- Engelbart's
group) a lot and they have an Identification system which is
used for passing messages around. You are now JBW and listed
as an Independent (not affiliated with any of the groups the
ID system knows about).   1b4a

            At any rate, It is now easy to sent Network mail to you.   1b4b

        People are only beginning to think about (and a few are
attempting preliminary implementations) transparent service.   1b5

The "Help" capabilities you suggest in point 2 are also beginning
to be thought about. The TENEX system, developed by BBN, have some
immediate help capabilities that are quite nice. More
sophisticated tools will be harder to come by.   1c

Point 3 (common communications system) seems to me to fall within
Protocol deveopment.   1d

    Perhaps the most interesting aspect of Protocol development is
that is requires the definition/specification of a "Virtual"
entity (terminal, file, batch submission sytem, graphics
stations, etc.)   1d1

    This is also why the work goes so slowly.   1d2

A fairly complete model of the economics of Networks would seem like a significant win.

1e

Page 14: short vs. long term payoff: the Arpanet is quite expensive to join, but seems to allow the potential for extraordinary cost effectiveness, by using the best resource for a given task. So your suggestion is probably true.

1f

Page 19, usage of information media: current or ideal? I wonder whether anyone has a good idea of what a complete "user-support" system should look like?

1g

I believe "remoteness" has the rather nice effect of forcing computer centers to rely less on undocumented folklore and more on up-to-date docuemtnation (hoepfully online). It is incredible what centers have been able to get away with, by being the only shop around and by simply having their "experts" queried alot.

1h

It would be interesting to know the cost trade-off of keeping codumentation truly current, versus interrupting the expert a lot (and thb affecting his productivity).

1h1

Page 22: Unless using different systems is more transparent, there will be very little mobility between sites. It is too hard to learn to use them (k * n) . This is very clearly reflected the Arpanet traffic measurements we have.

1i

You really expect to use only $4K in computing?

1j

And lastly: It sound exciting. If I can be of assistance, let me know. And thank you for the proposal.

-- Dave Crocker

1k

17225 Distribution
    Joe B. Wyatt,

Remarks on USING Draft

Jake--
A few comments on the USING meeting notes draft. Most are trivial,
but not all.   1

Trivia: 2

   Under attendees, Padlipsky is spelled with a "y" and the man from
   Harvard was Joe Wyatt.   2a

   Category 1, item 6 - you should explain more clearly that HELP is
   to be a common executive level command for all systems though the
   function it accessses may vary from site to site.   2b

   Cat. 1, item 7 - NUP is the New Users Packet.   2c

   Categories 11 and 12 - usage doesn't have an "e" in it.   2d

   The Recommendations need an introductory explanation of the
   context in which they were developed; i.e. that they cam e out of
   the above discussions, and are not a complete or comprehensive
   list. They were noted rather informally, and when they are better
   defined we will release a position paper to the net. (I don't
   want this committee or its effort to appear shabby or haphazard to
   network users. Our credibility is very important.)   2e

Non-trivial: 3

   I don't like your discussion of the Tobacco Institute. First of
   all, the name Network Users Institute is inappropriate. We are
   the network users group; the Tobacco Institute is a server
   society. In fact I suggest Server Society as a better name. The
   point of the society is for servers to help each other with common
   tasks (such as documentation) that are too big for each to handle
   by himself. This eventually works in the users interest, because
   the servers (in the network free market economy) are dependent on
   the users for their livelihood. There should be cooperation
   between the Server Society and USING, but the groups are not the
   same people. They are on opposite sides of the product. Also
   don't use the analogy of the Tobacco In stitute--smoking is not
   popular these days.   3a

      The second recommendation should be accordingly changed; i.e.
      the name, and leave out lobbying for user interests. The rest
      is correct.   3a1

   Category 8, items 1 and 2 - These two items should be combined
   into one and rewritten to de-emphasize (actually eliminate) any
   references to standardization, and to empahsize instead the use of

Remarks on USING Draft

a command language PROTOCOL which each system can interact with — that is, translation, not standardization.

3b

Then users could learn one language rather then 20...if they so desired.

3b1

cat. 8, item 5 — leave out entirely. we are not espousing any one design over another. No refernces to anyone's system should be made at this point. We don't have a design yet, so how can it be most like someone else's. In addition there are other aspects of UULP that are not supported anyway.

3c

Similarly in item 6 you should leave out the refernce to Padlipsky and UULP.

3c1

These are just a few things. On the whole the draft was pretty faithful to the meeting. You took wonderful copious notes (I hadn't remembered a few things that you had caught). I thank you again for writing this up. --Nancy

4

Remarks on USING Draft

(J17226) 15-JUN-73 14:33;   Title: Author(s): Nancy J. Neigus/NJN;
Distribution: /JAKE; Sub-Collections: NIC; Clerk: NJN;

USING Meeting Comments

Brief Note to clarify procedures: please send you comments about
preliminary draft of our USING meeting to me, rahther than Jake. I
will be producing the final draft (for an RFC, probably) with Nancy.

Thanks.
--dave   1

17227 Distribution
    Leroy (Lee) C. Richardson, Frank G. Brignoli, Elizabeth J. (Jake)
    Feinler, Michael D. Kudlick, James E. (Jim) White, Michael A.
    Padlipsky, Kenneth L. Bowles, A. Wayne Hathaway, Jean Iseli, David H.
    Crocker, Nancy J. Neigus, Stephen M. Wolfe, Ronald M. Stoughton, Jim
    O. Calvin, Steve D. Crocker, Edward P. Schelonka,

1

(J17227)   15-JUN-73 14:50;   Title: Author(s): David H. Crocker/DHC;
Distribution: /USING SDC2 EPS; Sub-Collections: NIC USING; Clerk: DHC;

17226 Distribution
    Elizabeth J. (Jake) Feinler,

1

Request from Stan Fralick

Stan Fralick has requested that Arlin Torbett and Dave Brandin of SRI be added to the Packet Radio Group distribution list. If you have any objection please let me know as soon as possible so that I can pass the word on to Stan. Thank you. Marcia Keeney.   1

17228 Distribution
    Robert E. Kahn,

Request from Stan Fralick

(J17228)   15-JUN-73 16:20;   Title: Author(s): Marcia Lynn Keeney/MLK;
Distribution: /REK2; Sub-Collections: SRI-ARC; Clerk: MLK;

From Jim and Vicki

Dean,

1

I just got your poem. You've made my day. It's been getting pretty
hectic the last week or two. Lots to get done. Vicki had to fy home
unexpectedly to Indiana last Tuesday to attend her Grandmother's
funeral. I'm rushing to finish Network Journal submission before I
leave. Thanks for that breath of fresh air. I'd like you to meet
Vicki when we get back in July.

        Thank you.

            Jim (and Vicki, too)

2

17229 Distribution
  N. Dean Meyer,

From Jim and Vicki

(J17229) 15-JUN-73 17:30;   Title: Author(s): James E. (Jim)
White/JEW; Distribution: /NDM; Sub-Collections: SRI-ARC; Clerk: JEW;
Origin: <WHITE>NDMMSG.NLS;2, 15-JUN-73 17:28 JEW ;

Be still, and know that I an God.

17230 Distribution
   James E. (Jim) White,

Father, here we go.

Once more.

17231 Distribution
   James E. (Jim) White,

Mark-- You're the ginny (spelling?) pig

for FTP Journal submission checkout.

Seems to wrk fine.   Regards.   --Jim

17232 Distribution
    Mark C. Krilanovich,

Proposed Extensions to Sort and Merge Commands

This note proposes nearly identical extensions to two NLS commands,
"sort" and "merge".   1

OVERVIEW   2

   The proposed sort/merge extensions are upwards compatible with the
   present commands.   2a

   They provide three additional capabilities: 2b

   1) Allow the user to specify filename instead of specifying plex
   1;   2c

   2) Allow the user to specify two files to be merged at plex 1
   level;   2d

   3) Allow the user to optionally specify key fields to be used in
   comparing any two statements, both for the sort command and the
   merge command.   2e

      The optional key fields replace the default key field for each
      single use of the sort or merge commands. That is, each use of
      these commands will either invoke the default key field as at
      present, or allow optional key fields to be selected instead.   2e1

      For each optional key field specified, the user must specify
      whether it is to be compared in ascending or descending
      sequence.   2e2

   MERGE   3

   Syntax: " mer" <Merge>   3a

      ((('b <... Branch> / 'p <... Plex>) <at> SEL <into> SEL) /   3a1

      ('g <... Group> <from> SEL <(to)> SEL <into> SEL <(to)> SEL) /   3a2

      ('f <...File> <file1> [OPTION FILENAME] CA <into file2>
      [OPTION FILENAME] CA))   3a3

      [OPTION <keyfield:>   3a4

      ((TextSpec1 SEL) / (TextSpec2 SEL SEL) <Ascending?> YES/NO)   3a5

      <Finished?> (NO %repeat at <keyfield:>% / YES)]   3a6

      Confirmation;   3a7

   Semantics   3b

"Merge File" merges plex 1 of file1 into plex 1 of file2.
File1 is unchanged after the merge is completed.   3b1

   The default for file1 is the file pointed to by the current
   bug position when CA is input; similarly for file2 default.   3b1a

If OPTION for <keyfield:> is not typed, then the default key
field is invoked.   3b2

   The default is however many characters in a statement that
   are needed to distinguish one statement from another. The
   comparisons are made in ascending order, as at present.   3b2a

If OPTION for <keyfield:> is typed, then the user proceeds to
define the field or fields he wants to use in the merge key,
starting with the most major field and proceeding through any
number of (or up to some maximum number of) successively minor
key fields. The default key field is not invoked.   3b3

   NOTE: We may want to decide that the maximum number of key
   fields allowable is "one", to simplify things. This should
   be done uniformly for both sort and merge.   3b3a

In defining each key field, the user is specifying relative
character positions within each statement: this is information
for an L-10 user program that must be compiled for him and then
used by the merge process. Key fields should be allowed to
overlap.   3b4

   The choice for "ascending" decides whether or not that key
   field is to be compared in ascending or descending sequence
   with the same key field in other statements.   3b4a

   As is common in merging, if the comparison of the first N
   key fields results in two statements being "equal", then the
   choice of which statement comes first depends on the result
   of the comparison of the next minor key field, if any. If
   there are no more minor keyfields when the result is
   "equal", then the choice of which statement comes first can
   be arbitrary.   3b4b

SORT   4

   Syntax: "so" <Sort>   4a

   ((('b <... Branch> / 'p <... Plex>) <at> SEL) /   4a1

   ('g <... Group> <from> SEL <(to)> SEL) /   4a2

2

Proposed Extensions to Sort and Merge Commands

('f <...File> [OPTION FILENAME] CA))   4a3

[OPTION <keyfield:>   4a4

((TextSpec1 SEL) / (TextSpec2 SEL SEL) <Ascending?> YES/NO)   4a5

<Finished?> (NO %repeat at <keyfield:>% / YES)]   4a6

Confirmation;   4a7

Semantics   4b

"Sort File" is the same as Sort Plex 1 of the selected file.   4b1

   The default file is the file pointed to by the current bug
   position when CA is input.   4b1a

   If OPTION FILENAME is provided, then that file should be
   opened, sorted, and closed.   4b1b

If OPTION for <keyfield:> is not typed, then the default key
field is invoked.   4b2

   The default is however many characters in a statement that
   are needed to distinguish one statement from another. The
   comparisons are made in ascending order, as at present. 4b2a

If OPTION for <keyfield:> is typed, then the user proceeds to
define the field or fields he wants to use in the sort key,
starting with the most major field and proceeding through any
number of (or up to some maximum number of) successively minor
key fields. The default key field is not invoked.   4b3

   NOTE: We may want to decide that the maximum number of key
   fields allowable is "one", to simplify things. This should
   be done uniformly for both sort and merge.   4b3a

In defining each key field, the user is specifying relative
character positions within each statement: this is information
for an L-10 user program that must be compiled for him and then
used by the sort process. Key fields should be allowed to
overlap.   4b4

   The choice for "ascending" decides whether or not that
   keyfield is to be compared in ascending or descending
   sequence with the same key field in other statements. 4b4a

   As is common in sorting, if the comparison of the first N
   key fields results in two statements being "equal", then the

Proposed Extensions to Sort and Merge Commands

choice of which statement comes first depends on the result
of the comparison of the next minor key field, if any.   If
there are no more minor key fields when the result is
"equal",   then the choice of which statement comes first can
be arbitrary.   4b4b

17234 Distribution

Douglas C. Engelbart, James C. Norton, Richard W. Watson, Charles H. Irby, Charles F. Dornbush, J. D. Hopper, Dirk H. Van Nouhuys, Marilyn F. Auerbach, Diane S. Kaye, Elizabeth K. Michael, James E. (Jim) White, Jeanne B. North,

Proposed Extensions to Sort and Merge Commands

(J17234) 16-JUN-73 15:20;   Title: Author(s): Michael D. Kudlick/MDK;
Distribution: /DCE JCN RWW CHI CFD JDH DVN MFA DSK EKM JEW JBN;
Sub-Collections: SRI-ARC; Clerk: MDK;
Origin: <KUDLICK>SORT.NLS;7, 16-JUN-73 15:16 MDK ;

On Site Idents: Meeting with Vint Cerf

Jake ... For the record, here is my recollection of what transpired
at the meeting with Vint Cerf on SiteIdents. I've made no mention of
the problem of "associates", because I left in the middle of that
discussion.   1

SITENAMES   2

The character set would be alphanumeric, plus the dash.   2a

No other characters are allowed. Alphabetic characters would
be upper case only, but lower case would be accepted and
converted to upper case.   2a1

The sitename could be from 1 to 48 alphanumeric characters, and
may include dashes. Discretion would be used in selecting long
sitenames.   2a2

The site ident would not be constrained to conform to any context,
hierarchical or otherwise, with one exception (see Multiple
Networks).   2b

Sitename SYNONYMS would be allowed, though kept to a reasonable
minimum number. Sitename CHANGES would also be allowed, and
similarly constrained in number.   2c

The choice of a sitename for any new site, or of a sitename
synonym for an existing site, would be a negotiated procedure.
The negotiation would take place between the responsible person at
that site and the NIC.   2d

MULTIPLE NETWORKS   3

The exception to the rule of no context dependence in sitenames is
that when specifying a site on a network other than the one the
user is using, then that sitename would be preceeded by the
network name in parentheses. For example, "(TYMNET)TYMSHARE".   3a

Alternately, there may be a command "CONNECT TO networkname"
which would change the default setting for that terminal
session.   3a1

This is similar to the use of directory name and filename in
Tenex.   3b

That is, the default sitename is always taken unless otherwise
specified.   3b1

"TYMSHARE" would mean that Tymshare site which is on the ARPA

network, if the user specifying "TYMSHARE" was on the ARPA
network when he specified it.   3b2

If the user was on TYMNET when he specified "TYMSHARE", then he
would be referring to the site named TYMSHARE on the TYMNET
network.   3b3

The network name would be from 1 to 24 alphanumeric characters,
and may include dashes.   3c

The network you were on would not be responsible for "knowing" the
SITENAMES of sites on other networks.   The network would, however
be responsible for knowing the NETWORK names of all networks, and
for knowing the sitenames of all sites on YOUR network.   3d

RESPONSIBILITIES   4

There would be a central service (at the NIC) where up to date
identifications of sites would be kept.   4a

These sitenames would be machine-readable (in a file) as well
as person-readable.   4a1

The machine-readable file would be available at all times via
FTP to any site that wished to obtain it as an update to its
existing information.   The NIC would not be responsible for
DISTRIBUTING the machine-readable sitename file; only for
making it available via FTP in a well-advertised format.   4a2

The person-readable sitename file would be published and
distributed by the NIC on a periodic basis, probably monthly.   4a3

ARPA would designate RML as being responsible for directing any
new site to the NIC for acquisition of a unique sitename.   There
would be no othe mechanism for obtaining a sitename.   4b

The NIC would have final authority on issuance and maintenance
of sitenames, but the selection of a given choice of sitename
would be a negotiable procedure between the NIC and the site,
in order to be sure to honor a site's desires.   4b1

Existing sites would go directly to the NIC for changes or
synonyms to their sitenames, using the same negotiating
mechanism as for new site names.   4b2

17235 Distribution
    Elizabeth J. (Jake) Feinler, James E. (Jim) White, Jeanne B. North,
    Richard W. Watson,

1

On Site Idents: Meeting with Vint Cerf

(J17235) 16-JUN-73 15:59;   Title: Author(s): Michael D. Kudlick/MDK;
Distribution: /JAKE JEW(fyi) JBN(fyi) RWW(fyi); Sub-Collections:
SRI-ARC; Clerk: MDK;
Origin: <KUDLICK>SITEIDENTS.NLS;2, 16-JUN-73 15:56 MDK ;

Site Idents: Notes on the Meeting with Vint Cerf

I may have goofed and sent this twice.   Sorry if that's the case.

Site Idents: Notes on the Meeting with Vint Cerf

Jake ... For the record, here is my recollection of what transpired
at the meeting with Vint Cerf on SiteIdents. I've made no mention of
the problem of "associates", because I left in the middle of that
discussion.   1

SITENAMES   2

The character set would be alphanumeric, plus the dash.   2a

No other characters are allowed. Alphabetic characters would
be upper case only, but lower case would be accepted and
converted to upper case.   2a1

The sitename could be from 1 to 48 alphanumeric characters, and
may include dashes. Discretion would be used in selecting long
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Networks).   2b

Sitename SYNONYMS would be allowed, though kept to a reasonable
minimum number. Sitename CHANGES would also be allowed, and
similarly constrained in number.   2c

The choice of a sitename for any new site, or of a sitename
synonym for an existing site, would be a negotiated procedure.
The negotiation would take place between the responsible person at
that site and the NIC.   2d

MULTIPLE NETWORKS   3

The exception to the rule of no context dependence in sitenames is
that when specifying a site on a network other than the one the
user is using, then that sitename would be preceeded by the
network name in parentheses. For example, "(TYMNET)TYMSHARE".   3a

Alternately, there may be a command "CONNECT TO networkname"
which would change the default setting for that terminal
session.   3a1

This is similar to the use of directory name and filename in
Tenex.   3b

That is, the default sitename is always taken unless otherwise
specified.   3b1

"TYMSHARE" would mean that Tymshare site which is on the ARPA

network, if the user specifying "TYMSHARE" was on the ARPA
network when he specified it.   3b2

If the user was on TYMNET when he specified "TYMSHARE", then he
would be referring to the site named TYMSHARE on the TYMNET
network.   3b3

The network name would be from 1 to 24 alphanumeric characters,
and may include dashes.   3c

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SITENAMES of sites on other networks.   The network would, however
be responsible for knowing the NETWORK names of all networks, and
for knowing the sitenames of all sites on YOUR network.   3d

RESPONSIBILITIES   4

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identifications of sites would be kept.   4a

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The machine-readable file would be available at all times via
FTP to any site that wished to obtain it as an update to its
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making it available via FTP in a well-advertised format.   4a2

The person-readable sitename file would be published and
distributed by the NIC on a periodic basis, probably monthly.   4a3

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new site to the NIC for acquisition of a unique sitename.   There
would be no othe mechanism for obtaining a sitename.   4b

The NIC would have final authority on issuance and maintenance
of sitenames, but the selection of a given choice of sitename
would be a negotiable procedure between the NIC and the site,
in order to be sure to honor a site's desires.   4b1

Existing sites would go directly to the NIC for changes or
synonyms to their sitenames, using the same negotiating
mechanism as for new site names.   4b2

17236 Distribution
    Elizabeth J. (Jake) Feinler, James E. (Jim) White, Jeanne B. North,
    Richard W. Watson,

Site Idents: Notes on the Meeting with Vint Cerf

(J17236) 16-JUN-73 16:30;   Title: Author(s): Michael D. Kudlick/MDK;
Distribution: /JAKE JEW(fyi) JBN(fyi) RWW(fyi); Sub-Collections:
SRI-ARC; Clerk: MDK;
Origin: <KUDLICK>SITEIDENTS.NLS;2, 16-JUN-73 15:56 MDK ;

This is submitted for your review and comments. Please transmit
any responses to RWW DCW and JCN via the Journal. I will be away
from ARC until 6/25, but will pick up again there.

ARC SYSTEM USE GROUP ALLOCATIONS AND ASSIGNMENTS

INTRODUCTION   1

In December 1972, Paul Rech presented a proposal for a group
allocation system (see -- 13580,3d5) that was directed toward
the problem of assuring a better balance of computer system
resource allocation among the varied groups that use our ARC
PDP-10 system.   1a

This was proposed in response to requests from many people
for a better way to handle the building demand for our
limited system resources.   1a1

In addition, the coming of the Workshop Utility was seen
to require such a system to permit us to deliver guaranteed
service to future Utility users as well.   1a2

After many discussions with people involved as users, and as
designers and implementers of the system, the initial group
allocation mechanisms have now been implemented.   1b

We have been running for the past several weeks under the
allocation system, but with only three groups identified: NIC
users, RADC users, and Local (ARC and Xerox) users.   1c

This was done to permit operational testing of the
system's basic elements such as the groupstat command, and
the offquota job management and express login features.   1c1

In this limited testing environment, the system appears to
function as designed. Therefore, we are now ready to
specify and operate with user groups that more closely
match the resource allocation goals of ARC and its other
users.   1c2

Documentation on how the group allocation system works is
contained in (16824,1) and is offerred to users for reference
when they use the "OFFQUOTA" command at the EXEC level.   1d

TIMING AND FUTURE ADJUSTMENTS   2

We are planning to put the following group allocations and
individual assignments into operation on TUESDAY, JUNE 26. If
you have any questions or comments on this plan, please let
DCW, RWW and JCN all know (via the Journal) before MONDAY,
JUNE 25.   2a

We expect this new allocation system to affect users in many
ways.   2b

At times it will limit some users to less "random" system
access than they have been accustomed to getting.   2b1

It will bring users in the same group closer together to
work out acceptable intra-group negotiations to divide
their resources.   2b2

It will result in many users who have previously been kept
off of a full system (at times when they felt they needed
and deserved access) now being able to get "their fair
share" of system time without having to be first in line in
the morning--or just lucky. WE ARE ADMITTEDLY EXPERIMENTING
AT FIRST TO DETERMINE WHAT "FAIR SHARE" MEANS.   2b3

Perhaps most important, it will make more clear the fact
that our computer system is a valuable resource that must
be effectively used, recognition of this value resulting
(hopefully) in better use.   2b4

Effective use of our computer resources is not just filling
the system up with users. It is keeping the system at full
load (65-70% of CPU for users) with reasonable response to
users (load average in 5-6 range) with a BALANCE OF USERS and
their TASKS that permits a balanced advancement toward the
overall goals of the ARC and Network users. This, obviously,
is what the group allocation system is supposed to facilitate.   2c

Administration of the allocation settings and individual
group assignments is the responsibility of ARC Operations,
under the direction of Jim Norton. At least at the beginning,
Smokey Wallace will be part of the discussions and handling of
adjustments when any are proposed.   2d

Our approach will be: to keep open to any comments or
suggestions about the system and to be as fair and
responsive as we can to users needs.   2d1

ARC SYSTEM USE GROUP ALLOCATIONS AND ASSIGNMENTS

JBN   Jeanne North
JDC   Judy Cooke
MDK   Mike Kudlick
MLK   Marcia Keeney
(FACILITY)
EKV   Ed Van De Riet
JCP   Jeff Peters
JR   Jake Ratliff
MAB2   Mark Beach
MEH   Martin Hardy
(PROGRAMMERS)
CFD   Chuck Dornbush
CHI   Charles Irby
DCW   Don Wallace
DIA   Don Andrews
DSK   Diane Kaye
EKM   Elizabeth Michael
HGL   Harvey Lehtman
JDH   Dave Hopper
JEW   Jim White
KEV   Ken Victor
WHP   Bill Paxton
WLB   Walt Bass
WRF   Bill Ferguson
(XEROX)
CMG   Chuck Geschke
EHS   Ed Satterthwaite
JGM   Jim Mitchell
LPD   Peter Deutsch
RES   Dick Sweet
(RADC)
DAL   Dave Luther
DFB   Dean Bergstrom
DLD2   David Daughtry
DLS   Duane Stone
DVA   Donald Van Alstine
EJK   Ed Kennedy
FJT   Frank Tomaini
FPS   Frank Sliwa
FSL   Frank LaMonica
GAB   George Borden
JHB   Jim Bair
JLM   John McNamara
JPC   Joe Cavano
JRS   Josephine Stellato
JWJ   John Johnson
MAW   Mike Wingfield
MDP   Marcelle Petell
RAL   Ray Liuczi

INITIAL ALLOCATIONS   3

The Groups: 3a
    STAFF   ARC Management and other staff   3a1
    PSO   People Support Operation   3a2
    NIC STAFF   Network Information Center -- ARC Staff   3a3
    FACILITY   ARC Hardware and Operators   3a4
    PROGRAMMERS   ARC TENEX and NLS Programmers   3a5
    XEROX   Collaborating Xerox Staff   3a6
    RADC   Rome Air Development Center   3a7
    NIC USERS   NIC users less ARC Staff   3a8
    OVERHEAD   ARC Overhead Processes   3a9

INITIAL GROUP ALLOCATIONS: 3b

Groups	5am-8	8am-2pm	2-5am (Pacific Time)	
STAFF	1	2	3	3b2
PSO	1	2	2	3b3
NIC STAFF	1	1	1	3b4
FACILITY	0	0	1	3b5
PROGRAMMERS	1	5	7	3b6
XEROX	0	1	1	3b7
RADC	5	2	0	3b8
NIC USERS	7	4	2	3b9
OVERHEAD	4	4	4	3b10
	--	--	--	3b11
Totals:	20	21	21	3b12

It important to note that these are the "guaranteed"
allocations to groups. Much of the time, individual groups
will have more users logged in than these allocated slots
indicate, due to the OFFQUOTA and EXPRESS (elog) features
of the allocation system. Again, see (16824,1) for details.   3b13

(STAFF)
    DCE   Doug Engelbart
    DVN   Dirk van Nouhuys
    JCN   Jim Norton
    NDM   Dean Meyer
    PR   Paul Rech
    RWW   Dick Watson
    SRL   Susan Lee
(PSO)
    BAH   Beau Hardeman
    KFB   Kay Byrd
    KIRK   Kirk Kelley
    LLL   Linda Lane
    MEJ   Mil Jernigan
(NIC STAFF)
    CBG   Carol Guilbault
    EJF   Jake Feinler

ARC SYSTEM USE GROUP ALLOCATIONS AND ASSIGNMENTS

    RBP   Roger Panara
    RC2   Richard Calicchia
    RED2   Robert Doane
    RFI   Rocco Iuorno
    RHT2   Richard Thayer
    TFL   Tom Lawrence
    TJB2   Tom Bucciero
    WER   William Rzepka
    WPB   William Bethke
(OVERHEAD)
    BACKGROUND
    CAT
    DOCB
    DOCUMENTATION
    NETINFO
    NIC-WORK
    OPERATOR
    PRINTER
    SYSTEM
(NIC USERS)
    Individual assignments to the NIC group are made by ARC
    Operating System people coordinating with the NIC staff.

RELATED DOCUMENTS:

User Allocation by Group Accounts (Final Version)   PR
28 Dec 72   (13580,1:xbznC)

.. about: Group Allocation System Design Logic   DCW
25- May 73   (WALLACE,GROUP-ALLOCATION.DESIGN,1:xbznC)

.. about: Group Allocation System Description   MFA
25- May 73   (16824,1:xbznC)

Group Allocation Review Team Meeting   EKM
30 May 73   (16917,1:xbznC)

17248 Distribution
    Donald C. (Smokey) Wallace, Richard W. Watson, Don I. Andrews, Duane
    L. Stone, James H. Bair, James G. Mitchell,
    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, Augmentation Research Handbook, Kirk E.
    Kelley, N. Dean Meyer, Kay F. Byrd, James E. (Jim) White, Diane S.
    Kaye, Paul Rech, Michael D. Kudlick, Ferg R. Ferguson, Linda L. Lane,
    Marilyn F. Auerbach, Walt Bass, 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,
    William H. Paxton, Jeffrey C. Peters, Jake Ratliff, Edwin K. Van De
    Riet, Dirk H. Van Nouhuys, Kenneth E. (Ken) Victor

ARC SYSTEM USE GROUP ALLOCATIONS AND ASSIGNMENTS

(J17248)   17-JUN-73 14:35;   Title: Author(s): James C. Norton/JCN   ;
Distribution: /SRI-ARC   DLS   JHB   JGM ; Sub-Collections: SRI-ARC;
Clerk: JCN ;
Origin: <NORTON>ALLOCATIONS.NLS;1, 17-JUN-73 14:16 JCN ;

Request for BAH to Run GET-NIC Program on A-SOURCE Files Monday
Night, 18 June 1973

TO: BAH   INFO TO: JBN MDK RWW JON   1

FROM: MEJ   2

SUBJECT: Request for You to Run GET-NIC Program on the A-Source Data
Base on Monday night, June 18, 1973.   3

The A-SOURCE Catalog data base files are updated and ready for you to
run the GET-NIC Program on them to produce the NICSOURCE files for
use in making the 1 June 1973 NIC Catalog. There are 33 of these
files in the <NIC-WORK> directory. They have been marked for ARCHIVE,
but "Don't Delete".   4

These A-SOURCE files include all entries, both NIC and non-NIC input
through 31 May 1973. They have been proofread, and are in order.
Following is a list of them: 5

A-SOURCE-0001-0499
A-SOURCE-0500-0999
A-SOURCE-1000-1499
A-SOURCE-1500-1999
A-SOURCE-2000-2499
A-SOURCE-2500-2999
A-SOURCE-3000-3499
A-SOURCE-3500-3999
A-SOURCE-4000-4499
A-SOURCE-4500-4999
A-SOURCE-5000-5499
A-SOURCE-5500-5999
A-SOURCE-6000-6499
A-SOURCE-6500-6999
A-SOURCE-7000-7499
A-SOURCE-7500-7999
A-SOURCE-8000-8499
A-SOURCE-8500-8999
A-SOURCE-9000-9499
A-SOURCE-9500-9999
A-SOURCE-10000-10499
A-SOURCE-10500-10999
A-SOURCE-11000-11499
A-SOURCE-11500-11999
A-SOURCE-12000-12499
A-SOURCE-12500-12999
A-SOURCE-13000-13499
A-SOURCE-13500-13999
A-SOURCE-14000-14499
A-SOURCE-14500-14999
A-SOURCE-15000-15499

Request for BAH to Run GET-NIC Program on A-SOURCE Files Monday
Night, 18 June 1973

A-SOURCE-15500-15999
A-SOURCE-16000-16499   6

The new NICSOURCE files you will create from these A-SOURCE data base
files will be the basis of the NIC Catalog making process for about
the next year, therefore, please be sure that the NICSOURCE files are
not deleted. If the A-SOURCE files have been archived by Monday night
satisfactorily, you may delete them if you need room on the disk. I
will check into this Monday morning and let you know.   7

17249 Distribution
   Beauregard A. Hardeman, Jeanne B. North, Michael D. Kudlick, James C.
   Norton, Richard W. Watson,

Request for BAH to Run GET-NIC Program on A-SOURCE Files Monday
Night, 18 June 1973

(J17249) 17-JUN-73 16:39;   Title: Author(s): Mil E. Jernigan/MEJ;
Distribution: /BAH JBN MDK JCN RWW; Sub-Collections: SRI-ARC; Clerk:
MEJ;
Origin: <NIC-WORK>HARDEMAN-MSG.NLS;1, 17-JUN-73 16:35 MEJ ;

Quarterly Management Report 4: RADC/ARPA Project 1868

ARPA Order Number: - Program: -   1

    Title: Network Information Center and Augmentation System
Development   1a

    Contractor: Augmentation Research Center, Stanford Research
Institute   1b

    Date of Contract: 10 May 1972   1c

    Amount of Contract: $2,270,000   1d

    Contract Number: F30602-72-C-0313   1e

    Principal Investigator: Dr. Douglas C. Engelbart, phone (415)
326-6200, ext. 2220   1f

    Contract Expiration Date: 10 February 1974   1g

I   RESEARCH PROGRAM AND PLAN   2

  As per our proposal and contract, work is progressing in the
following areas: 2a

    Developing Service Functions for: 2a1

      External users - the Network Information Center (NIC)   2a1a

      Internal users - prototype systems such as: 2a1b

        Dialog Support System (DSS)   2a1b1

        Documentation Production and Control System (DPCS) 2a1b2

        Software Engineering Augmentation System (SEAS)   2a1b3

        System Developers' Handbook System (SDHS)   2a1b4

    Developing service delivery and marketing principles and
practices   2a2

    Providing operational marketing and delivery of services
within the ARC and NIC customer markets   2a3

II   MAJOR ACCOMPLISHMENTS   3

Network Information Center [NIC)   3a

    Some of the work reported below under Software Development

and Dialog Support System --- namely, that work related to
improvements in the Journal system and the NIC/QUERY system
--- was jointly sponsored by the NIC.   3a1

Other NIC work is related to improvements in NIC service,
as follows: 3a2

  1) We are undertaking a study to determine the
  feasibility of using the University of California Santa
  Barbara (UCSB) 360/75 system to process the NIC's
  formatted reports: Catalog Listings and Indexes, Journal
  Indexes, and Directories.   3a2a

    Storage of the main files would be at UCSB.
    Updates to these files would be sent via Network FTP
    from the NIC to UCSB and formatted output would be
    produced there.
    Files for on-line querying would be transmitted back
    to the NIC for residence and use on the NIC's
    computer system.   3a2a1

  2) In parallel with the above study to transfer some of
  the computer processing to UCSB, we are undertaking a
  study to determine the uses and frequency needs of the
  NIC reports mentioned above.   3a2b

    The study is being implemented by a questionnaire
    distributed through the ARPANET News for June 1973.   3a2b1

  3) We are carrying on a study to determine the costs of
  operating the NIC.   3a2c

    It appears that the NIC is significantly understaffed
    to cover adequately its current scope of services for
    a clientele whose size and range of needs have grown
    far beyond those planned for two years ago when our
    budget was last set. These studies are j3c3 to
    determine what changes are needed.   3a2c1

    We intend to compare the NIC's costs for various
    operations with those of similar operations at other
    institutions, drawing as many parallels as are
    justifiable.   3a2c2

  4) We are planning to expand the capabilities of the
  NIC/QUERY language, in order to provide for a more
  general file format capability.   3a2d

    Selected users are cooperating to provide feedback

about features they would like to have in the
NIC/QUERY system.   3a2d1

5) The problem of assigning and maintaining unique
identifications of sites, hosts, and organizations on
the ARPA Network is being coordinated through the NIC,
with the assistance of ARPA and RML.   3a2e

The intention is to maintain these identities in the
NIC's files, for access by anyone on the Net. Access
would be on-line through the NIC's "ident" system.
It would also be possible for a user process to
obtain a site-ident data base via FTP. A report on
these plans is forthcoming in the immediate future.   3a2e1

Dialog Support System (DSS)   3b

In a major extension of the DSS we have modified the
Journal to deliver messages and citations through the Net
to users at their own sites.   3b1

We have modified the Ident System so that it allows a User
to record as part of his ident his desire for delivery at
his own site instead of or in addition to delivery online
at ARC or via hard copy. We have made a place in the Ident
System to record his address at another site for Network
Delivery.   3b2

We have speeded up Journal delivery to 0 - 60 minutes
during the middle of the day.   3b3

Journal Delivery now is activated every few minutes. If
there is mail to deliver it will first test to determine
whether the system load and the free disk space will
allow it to deliver without degrading the response for
other users. If the load average is too high or the
available disk space too low, it will dismiss itself for
a few minutes and try again.   3b3a

We are designing and planning for Multi-site Journal and
Ident systems.   3b4

Software Development   3c

During the past quarter we have been pursuing the tasks
connected with development of a Modular Programming System
as described (14165,) and other software development
described in (14164,).   3c1

The first phase of the calculator has been completed. It
allows arithmetic operations on numbers input or addressed
in NLS files, and includes storage registers and printout
of recorded operations.   3c2

We have taken delivery of two low-cost, alpha-numeric
terminals and work is progressing on providing DNLS from
such a class of terminals.   3c3

A major proposal for removing a number of inconsistencies
in the NLS command language has been reviewed and can move
to the implementation-documentation phase.   3c4

An allocation system has been implemented that limits
users' access to the system according to work groups during
hours of peak load.   3c5

We have made a number of improvements to the programs that
support DNLS on Imlac terminals locally and on the ARPANET.   3c6

Preparation for Workshop Utility   3d

   We have met with Tymshare people on several occasions to
discuss the subcontract to be made between SRI and Tymshare
and details of the operation of the Utility service.   3d1

      Tymshare is in the process of ordering the paging box
   (at their risk) in order to help meet the September 1
   Utility service startup target date.   3d1a

   We are in the process of interviewing prospective staff
for some of the ARC portions of the Utility service. When
they are hired, we will commence their training. Some
Utility positions will be filled by present ARC staff whose
replacements must also be hired and trained.   3d2

   We are about to commence testing, through use on the
SRI-ARC PDP-10 system, the group allocation system that
will permit us to deliver "guaranteed" amounts of system
access to Utility subscribers.   3d3

   We have started training of initial clerical users at the
ARPA IPT office. Other training of Network (NIC) users has
increased, with courses run remotely at Mitre, BBN, and
Illinois. Some of those new users may also be part of the
user group for the Utility.   3d4

III   PROBLEMS ENCOUNTERED   4

Limited computer system resources are still a problem. We
have not been able to obtain added resources at other Network
sites due to heavy loads elsewhere (BBN, USC-ISI). We are
hoping that the group allocation system will help us to
maintain NIC service, ARC operations and system development
service, as well as train some Utility users prior to the
startup of the Utility. It will be difficult.   4a

Small debugging and procedural problems with the vendor
continue to slow down our efforts to provide flexible and
reliable computer output to microfilm and publication grade
photo-typesetting.   4b

IV   FISCAL STATUS   5

Estimated expenditures and commitments to date are:
$1,442,295 excluding computer lease commitments. Funds
required to complete the work within funding limitations are:
$827,705. We are in the process of evaulating current project
costs relative to total estimated contract costs. Certain NIC
costs have been higher than estimated. When our study is
completed, we will notify RADC technical and contracts people
of our position. Estimated date of completion of work:
February 10, 1974.   5a

V   ACTION REQUIRED BY THE GOVERNMENT   6

Provision of the remaining incremental project funding of
$817,484 as near to July 1 as possible to cover current costs.   6a

VI   Next Quarter Plans   7

Serious preparations for offering NLS as a Workshop Utility
will continue. These involve recruiting and training: a
Utility Manager, a Training Specialist, a Documentation
Specialist, Software Support, a Workshop Coordinator, and a
Community Coordinator.   7a

Tasks undertaken recently --   such as creating a capability
to support DNLS from low cost displays, command language
cleanup, more and better HELP facilities -- will continue.
The Group Allocation system for guaranteeing fair distribution
of resources to Utility subscribers will begin operation on
ARC's system. The calculator will be released for operatoinal
use. DEX II will be released for trial use.   7b

DSS: 7c

The Journal system will be improved to allow: 7c1

    entry and delivery of items to the Journal through the
network without explicit entry into NLS,   7c1a

    designation of items as Action items or Copies for Your
Information,   7c1b

    and use of Ident system by the Network as a server
process.   7c1c

A significant effort to look into provision for classes of
privacy among Journal items will begin.   7c2

NLS Foundations: 7d

A new table-driven command parsing system will be
implemented. The new system will make it easier to improve
HELP facilities, simplify command language changes, easily
allow alternative command recognition schemes, and simplify
insertion of Phase II use measurement facilities.   7d1

Ongoing thinking and planning for design of the Modular
Programming system will continue. A cleanup and
documentation of NLS source code will begin.   7d2

NIC will: 7e

extend the Query system based on experience to date;   7e1

give courses at several network sites in NLS use and NIC
services;   7e2

continue to collect and organize network resource
information and other NIC data bases;   7e3

and complete an analysis of NIC costs and of the
disposition of NIC clerical support time.

    7e4

Approved by:

D. C. Engelbart, Principal Investigator

    8

Quarterly Management Report 4: RADC/ARPA Project 1868

(J17250) 29-JUN-73 16:13;   Title: Author(s): Stanford Research
Institute /§SRI-ARC; Distribution: /§SRI-ARC DLS PK2 JCN RWW DCE JSP BC;
Sub-Collections: SRI-ARC; Clerk: DVN;
Origin: <VANNOUHUYS>QMR.NLS;7, 29-JUN-73 09:51 DVN ;

Down The Ruddy Moad of Life We Go

We shall build a test file that's
fairly hefty in size, and one tat possesses a fair
amount of structure.

    We shall, for example, proceed to indent
    some text as a new statement which the system
    will surely handle properly if it's able.

        Still further into the depths of depression
        goes this intrepid test file.

    And further still alongte rudd moad of life.

Until we meet our final reward: a gold mine in the sky.

17256 Distribution
    James E. (Jim) White,

Down The Ruddy Moad of Life We Go

(J17256) 18-JUN-73 01:02;   Title: Author(s): James E. (Jim) White/JEW
; Distribution: /JEW ; Sub-Collections: SRI-ARC; Clerk: JEW;
.SNF=HIRM;

Mail courtesy of Net Journal Submission

This piece of mail comes to you

direct from FTP.

Fondest regards.

17257 Distribution
    James E. (Jim) White,

Mail courtesy of Net Journal Submission

(J17257) 18-JUN-73 02:00;   Title: Author(s): James E. (Jim) White/JEW
; Distribution: /JEW ; Sub-Collections: SRI-ARC; Clerk: JEW;
.SNF=HIRM;

Now is the time...

for all good me (this line is text)

17258 Distribution
    James E. (Jim) White,

Now is the time...

(J17258)   18-JUN-73 02:02;   Title: Author(s): James E. (Jim)
White/JEW ; Distribution: /JEW ; Sub-Collections: SRI-ARC; Clerk: JEW;
.SNF=HIRM;

NOw is thetime to go home.

this is a one-liner.

17259 Distribution
    James E. (Jim) White,

NOw is thetime to go home.

(J17259)   18-JUN-73 02:26;   Title: Author(s): James E. (Jim)
White/JEW ; Distribution: /JEW ; Sub-Collections: SRI-ARC; Clerk: JEW;
.SNF=HI RM;

Just one more?

abc

17260 Distribution
   James E. (Jim) White,

Just one more?

(J17260)   18-JUN-73 02:28;   Title: Author(s): James E. (Jim)
White/JEW ; Distribution: /JEW ; Sub-Collections: SRI-ARC; Clerk: JEW;
.SNF=HIRM;

jean, is there any documentation available on the datacomputer -
cca-tenex? if so how can i get it. mike leavitt.   1

17261 Distribution
    Jean Iseli,

Dumdum memo

Trying out the first statement in NLS.   1

Starkle, starkle, little twink,   2

What the hell you are I think.   3

17262 Distribution
    Bonnie Nash-webber, Joseph J. Passafiume,

Dumdum memo

(J17262) 18-JUN-73 07:11;   Title: Author(s): J. J. Wolf/JJW;
Distribution: /BN2 JJP2; Sub-Collections: NIC; Clerk: JJW;
Origin: <BBN-TENEX>MEMOJ.NLS;1, 18-JUN-73 07:08 JJW ;