phone answering

In response to your query on phone answering, I wonder what the
gain would be?  Might there not even be a net loss?                    1

   For one thing, phone answering for others is not an easy task.
   It requires a certain amount of courtesy and patience and
   diligence that we don't all possess over long periods of time
   (such as half a day).                                           1a

   For another thing, some of us simply might not want to answer
   phones at all.  Yet a group pressure (like, You lout  WE'RE
   doing it, why not you?) could easily develop.                 1b

If Kaye and Barbara need relief, and well they might since the
phones ring incessantly, then mightn't we consider trading their
time with other secretaries who don't have so much phone
answering to do?                                                       2

phone answering

(J13271)  12-DEC-72 9:18;    Title:  Author(s): Kudlick, Michael D./MDK;
Distribution: Van Nouhuys, Dirk H./dvn  ; Sub-Collections: SRI-ARC;
Clerk: MDK;
Origin: <KUDLICK>PHONES.NLS;2, 12-DEC-72 9:18 MDK ;

An Invitation to a Party

We are going to have a newyears eve party. It will be on new
years eve, at our house, 431 Central avenue, Menlo Park.          1

    We will serve mulled wine.                                       1a

    I expect it to be a loud, numerous party with dancing.           1b

    Each of you is welcome.                                           1c

An Invitation to a Party

(J13272)  12-DEC-72 13:32;   Title:  Author(s): Van Nouhuys, Dirk
H./DVN; Distribution: Agent, Station, Hoffman, Carol B., Lee, Susan R.,
Michael, Elizabeth K., Dornbush, Charles F., ARC, Guest O., Feinler,
Elizabeth J. (Jake), Handbook, Augmentation Research, Kelley, Kirk E.,
Meyer, N. Dean, Byrd, Kay F., Prather, Ralph, White, James E. (Jim),
Vallee, Jacques F., Kaye, Diane S., Rech, Paul, Kudlick, Michael D.,
Ferguson, Ferg R., Lane, Linda L., Auerbach, Marilyn F., Bass, Walt,
Engelbart, Douglas C., Hardeman, Beauregard A., Hardy, Martin E.,
Hopper, J. D., Irby, Charles H., Jernigan, Mil E., Lehtman, Harvey G.,
North, Jeanne B., Norton, James C., Page, Cindy, Paxton, William H.,
Peters, Jeffrey C., Ratliff, Jake, Row, Barbara E., Van De Riet, Edwin
K. (Ed), Van Nouhuys, Dirk H., Victor, Kenneth E. (Ken), Wallace, Donald
C. (Smokey), Watson, Richard W., Andrews, Don I., Neigus, Nancy J.,
Crocker, David H., Mantiply, Stan L., Mantiply, Stan L./SRI-ARC NJN DHC
SLM SLM; Sub-Collections: SRI-ARC; Clerk: DVN;

test

this is a test message --- 72 dec 12 11:43                    1

test

(J13273)    12-DEC-72 11:36;    Title:    Author(s): Slutz, Ralph J./RJS;
Distribution: Slutz, Ralph J./RJS(fyi); Sub-Collections: NIC; Clerk:
RJS;

test2

another test ---72 dec 12 11:46                                              1

test2

(J13274)    12-DEC-72 11:43;    Title:    Author(s): Slutz, Ralph J./RJS;
Distribution: Slutz, Ralph J./RJS; Sub-Collections: NIC; Clerk: RJS;

test3

how can i most conveniently create a whole page, with indents and
line numberslithow can i conveniently insert a group of ten new
statements with the same level of line addresses?.                    1

how can i find out the adxdress and characteristice of our own
TIP?                                                                  2

test3

(J13275)  12-DEC-72 13:45;   Title:  Author(s): Slutz, Ralph J./RJS;
Distribution: Slutz, Ralph J., Van Nouhuys, Dirk H./RJS DVN;
Sub-Collections: NIC; Clerk: RJS;
Origin: <DOCB>NOTES?NLS;1, 12-DEC-72 13:00 RJS ;

Editing journal messages

Mike, You can not edit a journal message submitted through
execute journal except for delete letter or delete word.  Does
this answer your question? Jake   P.S. I'm practicing sending
journal messages.                                              1

Editing journal messages

(J13276)    12-DEC-72 13:30;    Title:   Author(s): Feinler, Elizabeth J.
(Jake)/JAKE; Distribution: Kudlick, Michael D./MDK; Sub-Collections:
SRI-ARC; Clerk: SRL;

HI AGAIN, WHEN ARE YOU GOING TO SEND US YOUR NEW VERSION OF
BSYS??                                                                          1

(J13277)   12-DEC-72 7:41;   Author(s): Strollo, Ted R./TRS;
Distribution: Wallace, Donald C. (Smokey)/DCW; Sub-Collections: NIC;
Clerk: TRS;

First Thoughts on an Interactive Data Description Language


Paul, this is my initial reaction to the question you raised the
other day.

First Thoughts on an Interactive Data Description Language

What you need to allow you to put arbitrary information into a
system, for later retrieval, when you don't know exactly what
questions you will later ask about the data base is a data
description language which will allow you to describe data in a
way which makes explicit the relationship between the elements of
the data, and which can interact with you to explicate these
relationships.                                                          1

    Language interpreters must be able to ask the user questions
    to completely specify data relationships which are not yet
    "recognized"; this could be done either at the time a
    "statement" is made or at a later time when a query is being
    made of a data base which is imperfectly described to the
    system (or described in terms different from those used in the
    query).                                                          1a

Here, you could imagine a DSS being used in the collaborative
development of a data base ( e.g. Handbook) where the system data
structurer/queryier would be a party to the dialog. A sample
dialog:                                                                 2

    John's address is 325 State, S.F. 90207.                         2a

        Do you mean John has an address and that address is 325
        State, S.F. 90207?                                           2a1

    Yes.                                                             2b

        What is an address?                                          2b1

    An address is a string of text which tells where a person
    lives.                                                           2c

    [Plus any more dialog necessary to establish in the language's
    primitive terms the explicit relationshps between the words
    used, after which the system would know what "address" means
    to that user -- a meaning which can be further expanded
    later.]                                                          2d

You can see that this data description language interpreter would
have to have an internal data base of "general information"
(primitives) of the same form as the external data bases which it
manipulates. This data base would simply be extended by the
external data bases into specialized data sets.  Once any user
had developed a data base to his satisfaction, he could submit it
to a "referee" -- such as used by technical journals (and thesis
committees) for certification for "publication".  This data base
could then be incorporated into either                                 3

First Thoughts on an Interactive Data Description Language

1) "The" general language interpreter.                                    3a

2) A discipline's Handbook-certified "standard" language
extension for that discipline                                             3b

3) A catalog of special purpose data bases ("dialects").                  3c

I think that the data description languag interpreter might be
the same as the command language interpreter for the on-line
system -- this way all operations and data structures used in the
file manipulation system (e.g. NLS) become primitives in the
semantics of the data description language interpreter, and the
base data description language will allow a data base to
reference any file (data base) or operation in the system -- thus
programs are also specifiable in the data description language.     4

Thus we see that such a data description language could be
seen as a next stage in the evolution of NLS itself!               4a

This interactive data description language (let's give up and
call it IDDL for now) could provide a means for evolving personal
ad group shorthand systems for communicating information.          5

This follows from the work done in NLS command language
development and the idea of subsystems, where you can suspend
the normal interpretation of characters in favor of a local
interpretation. Thus, by deftly moving through various
sub-systems of dialect (dialects of sub-systems) a knowledge
worker would be able to record his thoughts at unprecendented
speed -- and with really responsive hardware and software this
could come to be a faster means of communication than speech
and would have the advantages of                                   5a

1) Complete, instantaneous, totally accurate transcription
of a person's thoughts (maybe there would also be skilled
clerical stenographers?)                                           5a1

Applications to LAW for instantaneous recording and
correllating testimony and (under lawyer/judge/jury
control) searching for relevant legal statutes and
descisions.                                                        5a1a

2) Ability of system DSS to switch communications in real
time among many people, allowing them to                           5a2

"talk" simultaneously                                              5a2a

get summaries of what is being said (delphi techniques)            5a2b

and tune in to individual conversations.                              5a2c

Part of the "shorthanding" could be provided by displaying the
most common alternatives for words (commands) which could be
typed at any point, this would enable the user to "win" a fair
percent of the time by making a bug-selection rather than
typing more characters (if more than 2 or 3 would need to be
typed to specify a word (or phrase) completely).                      5b

What we are seeking is a free interplay between the user, the
system, and the data being manipulated, with the data being
sometimes the system's model of the user, sometimes the users
running model of the system and sometimes the internal
representation (common language) of something external to both
the system and  the user -- the goal directed data which the
system was designed to handle in order to expand the
consciousness of the phenomenon to which this data is related.        6

I think this kind of system would be a real tool for transforming
people's consciousness by increasing the speed at which
information about (and interpretatons of) "the world" could be
interchanged.                                                         7

The ALTER EGO -- A Possible Direction for Command-Language
Evolution


This is a small thinkpiece which I did before the IDDL piece, but
which is closely related to it.

The ALTER EGO -- A Possible Direction for Command-Language
Evolution

One would imagine that as on-line systems become more and more
complicated in terms of the increased power and number of
sub-systems available, that it will become incresingly necessary
for users to be able to create their own interaction languages in
a simple, natural way.                                              1

   The more complex the system gets, the more complex and verbose
   must be the command language for operating the system because
   it is necessary to choose between a greater number of options
   at each phase of command (and file) specification. However, at
   any time a user will only be working on certain bodies of
   information, and only in certain ways so that the range of
   specification needed by a single user can be handled itself by
   a much simpler and smaller language than is needed for the
   whole system.                                                   1a

Such things as synonym capabilities and sub-command
specifications are steps in the direction of a more concise
interchange language, but I believe we need a more disciplined,
imaginative approach to the whole area of command-language
design.                                                            2

   In particular, I think we need t move toward implementation of
   command interpreters that have "knowledge" of the peculiar
   working habits of each user and some undertanding of the
   information they are operating on.                              2a

One can imagine that, as the results of artificial intelligence
research begin to be integrated into large-scale on-line user
systems, command interpreters will tend toward being more
forgiving for human mistakes and able to recognize a much
sloppier, fuzzier, slangier, and more personal language.           3

As command interpreters become even more knowledgeable about a
user's working habits and the content of his work, about
information (or kinds of information) frequently referenced,
about operations frequently performed, and so on, they will be
able to take over increasing amounts of the user's former work.    4

   A simple example of this kind of help would be in sorting
   through all the user's "mail" (Journal transmissions, for
   example), to weed out items which the user would normally
   through away and rank the others in terms of importance to the
   user, and maybe eventually to reply to ones when the system
   thinks it knows how the user would respond himself.             4a

   Thus, you can imagine that the sommand interpreter would

The ALTER EGO -- A Possible Direction for Command-Language Evolution

become something like an "alter ego" to the user, in the sense that it has a growing model of the user and his work.                    4b

In many cases this alter ego, after long association with a user, could be used to provide continuity of the user's work within an organization (so far as it relates to use of on-line systems) in the event of his death or departure, and could even be exported to supply this user's on-line abilities to other organizations.           5

    In effect, this would allow you to freely replicate any
    organizaional/computational capability as soon as it is
    developed in one place without the necessity of explicitly
    programming it.                                                   5a

It may eventually prove useful to connect various physiological monitoring sensors to a user so that the user and his alter ego could establish intimate rapport over a communication system with more channels and wider bandwidth than either typing or speaking alone could provide. It is likely that it will some day be possible to transmit information directly to the brain, bypassing the normal sensory input channels, but it will probably be a long time before these techniques will be able to provide better communication than advanced displays utilizing sophisticated image synthesis and animation, and audio (sound and voice) output.                                                               6

The day will surely come when most online systems users spend more of their time answering questions than they do specifying commands directly.                                                   7

    Some such questions will be originated by the system in order
    to obtain clarification of the user's requests, while others
    will simply be conveyed by the system DSS in order to obtain
    information from one user which is needed (directly or
    indirectly) by other users.                                      7a

    This may have adverse psychological effects in the form of
    user resentment of the system for controlling his working
    consciousness, looking more like the the master than the
    servant.  A user's alter ego should know to what extent he
    prefers to take the active role in giving precise, complete
    commands and how much coaching he wants from the system, and
    it should be sensitive enough to his mental and emotional
    state to be able to make such adjustments automatically and
    dynamically to fit his changing moods.                           7b

Socket 19

Character Generator Process

1

I hereby propose that there be a standard process implemented on
whatever hosts desire which generates character data with out any
regard to input. In some sense this process is the converse of
the discard process [RFC 348]. Many hosts have an existing
terminal testing program [e.g. TTYTST] which would suit this
function adaquately.

2

This Character Generator process would listen for a request for
connection and execute the Initial Connection Protocol (ICP) as
specified in NIC 7104 the "Current Network Protocols" notebook.
Upon completion of the ICP the Character Generator process would
begin to send characters into the network as buffer space is made
available. The Character Generator process is terminated by
closing the connections.

3

Your "User Allocation By Group Accounts" document is an
excellent piece of work. I agree with the major proposals you
present and feel that we should now proceed with further design
and implementation.                                                        1

    My comments below are in four categories:                        1a

        1. A list of operational service control actions I think
we should take that bear on service/load control                           1a1

        2. A list of developmental possibilities including those
you propose                                                                1a2

        3. Comments on the Group Allocation scheme itself           1a3

        4. Comments on the next steps we should take               1a4

OPERATIONAL SERVICE CONTROL ACTIONS                                        2

    Some things we can do to use our computer resources better:       2a

        1. Have all catalogs, directories prepared off-hours.      2a1

        2. DEX most writings of original nature where source data
is not needed from online browsing/assimilating.                           2a2

            This needs much user training and changes of habit.
Most of our users do not use the PSO services now
available. PSO services should not only be used where
appropriate, but should be expanded to offer even more
assistance to people with input and simple text
manipulation (editing) tasks.                                              2a2a

            Defer most DEX processing until night hours. Set up a
RUNFIL that goes off at a particular time?                                 2a2b

                I suspect that even when DEX is used, the tapes are
computer-processed during inappropriate times where
most of them could be deferred until off-hours.                            2a2b1

        3. All superwatch/accounting runs to be run off-hours. Set
up a RUNFIL that goes off at a particular time?                            2a3

            Jeff Peters has been trying this with long superwatch
runs and it has worked well.                                               2a3a

        4. Continue limiting total users on system (local 15/18 as
now?)                                                                      2a4

5. Spread some of our ARC peoples' working hours over more
of the day to use "unused" CPU available.                          2a5

6. Train our users to use the system more efficiently            2a6

   DEX, TNLS                                        2a6a

   PSO use                                          2a6b

   Elimination of wasteful practices:               2a6c

     Output processing where hardcopy already exists and
can be xeroxed.                                                   2a6c1

     Extra files where links would do.     2a6c2

     Files online that should be archived and can be
easily retrieved.                                                2a6c3

     Use of displays where TNLS or DEX would do as well.    2a6c4

DEVELOPMENTAL POSSIBILITIES                                        3

1. Continue working on our system configuration for more
efficiency                                                        3a

   Consider getting DEC I/O box for printer to reduce load it
places on the system translating characters (if this really
would reduce the load).                                          3a1

2. Establish deferred printer queue for off-hours.               3b

   Both for the actual output processor use and the printing.    3b1

3. INITIATE "GROUP ALLOCATION" SYSTEM DESIGN AND
IMPLEMENTATION (13227,5a2:wyg)                                     3c

4. Establish EXPRESS JOB (or terminal?) (13227,5b6:wyg)          3d

5. Further develop the internal job scheduling mechanisms to
provide both interactive and compute-bound jobs good service
for sufficient portions of the day.                               3e

   Make 129.01 scheduler queue 4 stuff really work as
intended - to block service-degrading jobs - but with easy
tc exit. We need some automatic feedback message for users
who fall into the IO WAIT state.                                 3e1

6. Consider establishing a limited compiled code area for:        3f

   Catalog Programs        3f1

   Other user programs used frequently        3f2

7. Remove some of the load from our system by getting NLS to
run on the ISI machine at USC.        3g

COMMENTS ON THE GROUP ALLOCATION SCHEME        4

We need the group allocation system as soon as we can build a
good one.        4a

I don't think we should strive to allow as much as possible
free access to ALL ARC users as you state in (13227,4a:gw). I
think we will be more selective than that, although most ARC
people should probably have it.        4b

I agree that we should not place any UNDUE restraints on the
freedom of access of our users to the system (13227,3c:gw) –
AND after accessing we should not place any undue restraints
on their ability to get needed computer power as they work.        4c

   However, some constraints do presently exist:        4c1

      Our computer power is limited as you point out.
      (13227,2b:gw)        4c1a

      Our goal structure (however poorly defined for now)
      relies more heavily on successful, timely completion of
      certain tasks by certain people than on others (varying
      with time).        4c1b

      We have not yet decided to re-schedule all ARC people's
      working hours so as to use evening, night, and early
      morning available computer power.  (see -- 13227,3c:gwy)        4c1c

         We should bear in mind that our ARC community also
         serves as a model for knowledge-workers' workshops in
         future user organizations.        4c1c1

         Most of those organizations are geared to regular
         8-5 type working hours now and I think they can be
         expected to continue to do so for some time to
         come.        4c1c1a

Any system we are developing should bear this
in mind.                                                        4c1c1a1

It may be best to limit our rescheduling of ARC
working hours to those people who are in the
special-service providing/development roles —
those not expected to be central in future K-W
workshop-using organizations.                                   4c1c1b

This limitation implys, I think, that we
should give even more attention to those
processes that will provide deferred
computer-processing operations.                                 4c1c1b1

Things like: DEX, printer, output processor
queues, system overhead processes, catalog
production, etc.                                                4c1c1b1a

I don't think I know what you mean when you use the phrase
"natural job mix" ( 13227,4b:wg).                               4d

Does it mean: randomly constituted mix? Fair mix? What
people would like to see?  --?                                  4d1

I get the inpression that what we are after is an
effective, efficient, goal-oriented mix that is NOT
"natural" to my thinking, but IS appropriate for what we
are trying to do.                                               4d2

There may well have to be times where some particular
subset of the user population gets most of the service
in order to get their specific jobs done and out of the
way of the rest of the users— the kind of thing we are
doing with the present compile and load scheduling.            4d2a

Your idea about making all users aware of the scarcity of
(and cost of?) our computer resources is very appropriate
( 13277,4d:gw) - a good idea and useful when built into control
schemes.                                                        4e

An area we will really need to think about is the set
intra-group negotiating practices that will help the process
run smoothly without creating interpersonal conflicts within
the user groups.  (referring to -- 13227,4e:gw)                4f

Much of this will be developed by the groups themselves,
but we should do some thinking in advance, perhaps finding
ways to help the process to get off to a good start.           4f1

In (13227,6a1:wyg) branch, I feel that the group allocation
system doesn't really GUARANTEE adequate responsiveness or
fair resource allocation, it only helps us toward these goals.          4g

   I think that fair computing resource allocation
   (13227,6a1b:wyg) comes not only from terminal access and
   console time (as controlled by the proposed terminal access
   allocation scheme), but also (and mainly?) from the amount
   of actual CPU power delivered to the users as responsively
   in terms of time as possible.                                       4g1

   We should be working toward allocation systems that take
   both console and CPU service into account.                          4g2

Re (13227,6b2:gw) where you mention price allocation system
difficulties: I think we will have to consider this further.
There really is a market situation with negotiation and some
subtle forms of bidding going on now in ARC. I suspect that we
will someday make a clear allocation of console/CPU resource
"script?" that people will use to negotiate more cleanly with,
particularly when they are more separated than we are now at
ARC.                                                                    4h

About the TENTATIVE GROUP ALLOCATIONS you offer in
(13227,7:gw):                                                           4i

   Your numbers look good to me as a start, with the possible
   exception of the RADC allocation. This will have to be
   negotiated with them, since they now expect up to 4 users
   on simultaneously as a maximum. I think they might go along
   with the proposed change, though.                                   4i1

   The effect of the proposed ISI NLS use during the Spring
   should be reflected in the A and B group allocations when
   it appears certain.                                                 4i2

   I assume that these allocations are dynamically changeable
   as we learn more about what is needed and as our priorities
   change.                                                             4i3

COMMENTS ON THE NEXT STEPS                                                5

   We should, of course, study whatever comments on (13227,:x)
   you receive from the group to see how they may affect the
   design of the system and what the general reaction of the
   users is to the scheme.                                            5a

   We need to develop a software design that shows how the group

6

allocation scheme will work and how it will be implemented.
DCW/CHI/DIA/KEV are the people who are most likely to be
involved. Perhaps RWW will want to have a meeting soon to get
it started.                                                                    5b

A separate design for the EXPRESS JOB setup seems needed.
This might be done first as a stand-alone feature.                            5c

We need to implement the change from 15 to 18 users at 2:00pm
PST feature so that it is really used.                                        5d

I would like to see some feedback from ARC people on the
items I suggest for consideration in ( 3b:liwy;[ "2. "/"6. " ]; )
above — Developmental Possibilities                                          5e

After discussing with the appropriate people, I plan to take
action on the steps outlined in ( 2a:xebl ) above.                           5f

(J13282) 13-DEC-72 10:20;   Title:   Author(s): Norton, James C./JCN  ;
Distribution: Agent, Station, Hoffman, Carol B., Lee, Susan R., Michael,
Elizabeth K., Dornbush, Charles F., ARC, Guest O., Feinler, Elizabeth J.
(Jake), Handbook, Augmentation Research, Kelley, Kirk E., Meyer, N.
Dean, Byrd, Kay F., Prather, Ralph, White, James E. (Jim), Vallee,
Jacques F., Kaye, Diane S., Rech, Paul, Kudlick, Michael D., Ferguson,
Ferg R., Lane, Linda L., Auerbach, Marilyn F., Bass, Walt, Engelbart,
Douglas C., Hardeman, Beauregard A., Hardy, Martin E., Hopper, J. D.,
Irby, Charles H., Jernigan, Mil E., Lehtman, Harvey G., North, Jeanne
B., Norton, James C., Page, Cindy, Paxton, William H., Peters, Jeffrey
C., Ratliff, Jake, Row, Barbara E., Van De Riet, Edwin K. (Ed), Van
Nouhuys, Dirk H., Victor, Kenneth E. (Ken), Wallace, Donald C. (Smokey),
Watson, Richard W., Andrews, Don I., Stone, Duane L./SRI-ARC   DLS  ;
Sub-Collections: SRI-ARC; Clerk: JCN  ;
Origin: <NORTON>RPAUL.NLS;1, 13-DEC-72 10:00 JBN ; HJOURNAL="JCN
15 DEC 72  6:03AM xxxxx";

Male Chauvenist Pig

your comment is 100% bullshit Harvey. If you dont want to answer
the phone say so. by the way , would it be all right if we were
to make phone answering a part of everyones "assignment". PSO
doesnt like the job either                                        1

Male Chauvenist Pig

(J13283)   13-DEC-72 7:48;   Title:   Author(s): Wallace, Donald C.
(Smokey)/DCW; Distribution: Agent, Station, Hoffman, Carol B., Lee,
Susan R., Michael, Elizabeth K., Dornbush, Charles F., ARC, Guest O.,
Feinler, Elizabeth J. (Jake), Handbook, Augmentation Research, Kelley,
Kirk E., Meyer, N. Dean, Byrd, Kay F., Prather, Ralph, White, James E.
(Jim), Vallee, Jacques F., Kaye, Diane S., Rech, Paul, Kudlick, Michael
D., Ferguson, Ferg R., Lane, Linda L., Auerbach, Marilyn F., Bass, Walt,
Engelbart, Douglas C., Hardeman, Beauregard A., Hardy, Martin E.,
Hopper, J. D., Irby, Charles H., Jernigan, Mil E., Lehtman, Harvey G.,
North, Jeanne B., Norton, James C., Page, Cindy, Paxton, William H.,
Peters, Jeffrey C., Ratliff, Jake, Row, Barbara E., Van De Riet, Edwin
K. (Ed), Van Nouhuys, Dirk H., Victor, Kenneth E. (Ken), Wallace, Donald
C. (Smokey), Watson, Richard W., Andrews, Don I./sri-arc   ;
Sub-Collections: SRI-ARC; Clerk: DCW;

Your suggestions  have occured to us too. Implementng them is
somewhere down the pushup stack.                                    1

(J13284)   13-DEC-72 8:29;   Title:   Author(s): Van Nouhuys, Dirk
H./DVN; Distribution: Crocker, David H., Neigus, Nancy J., Auerbach,
Marilyn F., Irby, Charles H./dhc   njn   mfa   chi   ; Sub-Collections:
SRI-ARC; Clerk: DVN;

A Termina and a Secretary for Doug: reply to (13264,) and
(12365,)


I agree to both sugestions. For ther person, I think a skilled
secratray would be more useful for his present needs. She would
have t be first rate and hit it off, of course.                              1

A Termina and a Secretary for Doug: reply to ( 13264,) and
( 12365, )


( J13285 )    13-DEC-72 9:49;    Title:    Author( s ): Van Nouhuys, Dirk
H./DVN; Distribution: Irby, Charles H., Norton, James C., Watson,
Richard W., Engelbart, Douglas C./chi   jcn   rww   dce   ; Sub-Collections:
SRI-ARC; Clerk: DVN;

phone book memo 3

its cold here

phone book memo 3

Here is the stuff i got done. the last statement lists the hosts
i didnt test. the file is ( UCLA-NMC, PHONEBOOK, 1:w) take the
link. there are some conflicts to resolve, sri-ai gives date-time
on socket 3, many tenexes do an echo on socket 5 rather than 7,
all tenexes do something strange on socket 7, most tenexes give
systat on socket 9, ccn offers rjsnet on sockets 11,13,15
depending on the character set you want,  tenexes offer netstat,
date-time, etc on 11,13,15, and bbn tenex a offers quotes on
socket 17.  well all that conflict stuff is problem number two,
lets get the list published first. -- jon.                          1

phone book memo 3

(J13286)    12-DEC-72 21:58;    Title:  Author(s): Postel, Jonathan
B./JBP; Distribution: Neigus, Nancy J./NJN; Sub-Collections: NIC; Clerk:
JBP;

initial desires and goals for use of the ISI tenex


this is a copy of a message that I sent to John Melvin

initial desires and goals for use of the ISI tenex

Initially, we would like to perform the following functions on
your machine:                                                          1

   NLS use:                                             1a

      compile and load new versions of NLS     1a1

      do some debugging of new versions of NLS     1a2

      do some editting of NLS source files     1a3

   CATALOG SYSTEM use:                               1b

      produce catalogs                       1b1

   MONITOR use:                                      1c

      compile and load new monitors          1c1

To meet these goals, we estimate the following needs in terms of
permanent disk file pages, temporary disk file pages, and user
connect time per week (1 user connect hour (U.C.H.) per week
means 1 user connected for 1 hour once a week):                        2

| | permanent disk storage | temporary diskstorage | connect time | |
|---|---|---|---|---|
| | | | | 2a |
| NLS | 1000 pages | 1000 pages | 40 U.C.H | 2b |
| CATALOG | 400 pages | 2500 pages | 25 U.C.H. | 2c |
| MONITOR | 400 pages | 800 pages | 10 U.C.H. | 2d |
| TOTALS | 1800 pages | 4300 pages | 75 U.C.H. | 2e |

initial desires and goals for use of the ISI tenex


(J13287)  13-DEC-72 13:11;   Title:   Author(s): Victor, Kenneth E.
(Ken)/KEV; Distribution: Andrews, Don I., Bass, Walt, Dornbush, Charles
F., Ferguson, Ferg R., Hopper, J. D., Irby, Charles H., Kaye, Diane S.,
Lehtman, Harvey G., Michael, Elizabeth K., Vallee, Jacques F., Victor,
Kenneth E. (Ken), Wallace, Donald C. (Smokey), White, James E. (Jim),
Watson, Richard W., Norton, James C., Engelbart, Douglas C./sri-prog
rww  jcn  dce  ; Sub-Collections: SRI-ARC SRI-PROG; Clerk: KEV;
Origin: <VICTOR>ISI-NEEDS.NLS;2, 13-DEC-72 12:38 KEV ;

our current plans and goals for the ISI TENEX

This document is intended to describe our plans and goals for the
use of the ISI TENEX for the near future (1 to 6 months).                1

GOALS                                                                    2

   We anticipate the following three major uses of the ISI
   machine:                                                             2a

      NLS use:                                                          2a1

         We would like to be able to do all our compiles and
         loads that are necessary for the bringing up of new NLSs
         on the ISI machine.                                           2a1a

         We would like to be able to perform initial debugging of
         new NLS systems on the ISI TENEX.                             2a1b

         We would like to be able to do some editing of NLS
         source files on the ISI machine.                             2a1c

      CATALOG SYSTEM use:                                              2a2

         We would like to be able to produce all of our catalogs
         on the ISI machine.                                          2a2a

      MONITOR use:                                                     2a3

         We would like to be able to do all our compiles and
         loads that are necessary for the bringing up of new
         monitors on the ISI machine.                                2a3a

   To meet these goals will require that ISI provide us with file
   storage space (both for permanent storage and for temporary
   needs) and with sufficient connect time to be useful.              2b

      Our anticipated needs for the near future are as follows:       2b1

         1800 disk pages of permanent file storage                    2b1a

            1000 pages for NLS rel files, and a running version
            of TNLS                                                   2b1a1

            400 pages for programs needed for the running of the
            CATALOG system                                            2b1a2

            400 pages for MONITOR rel files                           2b1a3

         4300 disk pages of temporary file storage                    2b1b

1

our current plans and goals for the ISI TENEX

(Temporary storage is storage that will be used only
over the course of a session or two.  This storage
will be used for new files that are only temporarily
needed.  They may actually be created during the
course of a session, or they may be copied from over
the net.  In any case, they will not be maintained
permanently on the ISI machine.)                                2b1b1

1000 pages for NLS use                                          2b1b2

2500 pages for use by the CATALOG system                        2b1b3

800 pages for use in generating new monitors                    2b1b4

75 User Connect Hours per week (UCH — where 1 UCH is one
user connected for one hour once a week)                        2b1c

40 UCH for NLS use                                              2b1c1

25 UCH for the CATALOG system                                   2b1c2

10 UCH for monitor work                                         2b1c3

PLANS                                                           3

Our plans to see the above become a reality are as follows:     3a

We are currently doing initial negotiations with ISI for
the needed file storage and connect time.                       3a1

It will be necessary for TNLS to run on the ISI machine.
(This is merely a subset of TNLS running on any TENEX.)         3a2

When version 131 of TENEX is released (anticipated by
12/15/72), I foresee a one to two week effort on my part
to modify standard TENEX to be able to support TNLS.            3a2a

(This is not really modifying standard TENEX, but
filling in some of the hooks that Smokey and I left
behind in our recent trip to BBN.)                              3a2a1

When I have standard TENEX able to run TNLS, I will then
give the necessary modifications to BBN (thus future
releases of TENEX will be able to run TNLS) and to John
Melvin at ISI.                                                  3a2b

John has agreed to implement the mods I send him as
soon it is feasable for him to do so.                           3a2b1

our current plans and goals for the ISI TENEX

> (This will probably be within a week of my sending
> him the needed modifications, assuming no hardware
> problems, etc. on his end.)                                    3a2b1a

At this point in time, it should be feasable for us to
start using the ISI machine.                                     3a2c

We will continue to develop software support to provide
easy and convient access accross the net.                        3a2d

our current plans and goals for the ISI TENEX


(J13288)  13-DEC-72 16:35;    Title:   Author(s): Victor, Kenneth E.
(Ken)/KEV; Distribution: Engelbart, Douglas C., Watson, Richard W.,
Norton, James C., Irby, Charles H., Kudlick, Michael D., Wallace, Donald
C. (Smokey)/emc  chi   mdk   dcw  ; Sub-Collections: SRI-ARC EMC; Clerk:
KEV;
Origin: <VICTOR>ISI-PLANS-AND-GOALS.NLS;2, 13-DEC-72 16:27 KEV ;

(Engelbart,NIC,) -- dce mods from (Watson,NIC,) 15 DEC 72   6:16AM
Brief Summary of NIC Priorities and Charter

INTRODUCTION                                                              1

   The purpose of this document is to quickly and briefly state
   the EMC's current view of NIC's charter and problems needing
   study, development, and further operational resources.   This
   document is to be read as a sequel to "Toward a Framework for
   NIC Evolution" (11005,) and to be viewed within the context
   set up there, which still feels essentially valid to us.             1a

   The NIC's basic charter, as we understand it, is twofold:            1b

      Provide reference information about the network.                  1b1

      Provide Dialog support to network participants.                   1b2

   The NIC is providing services in these areas now.                    1c

   The NIC provides other augmentation services as its resources
   (computer and people) allow.   At the present time these are
   limited to general access to TNLS and whatever use people can
   put it within NIC's allotted computer resources and training
   and documentation capabilities.                                      1d

      A list of NIC services is given in (11005,).                      1d1

      There is much room for improving the quality of NIC
      services.                                                         1d2

   The prime goal of the NIC during the coming year should be to
   improve these services, which includes (but doesn't begin
   with) improving the technological means by which these
   services are provided.   In other words we don't see technology
   development as a prime, end-in-itself goal of NIC, but only as
   needed to improve its services.                                      1e

   We see the NIC as an important seedbed in which people in the
   network community can experiment with the community support
   functions of NLS on a prototype basis. When they feel that
   they want services outside NIC's prime charter for a
   particular group on a normal ongoing basis, then separate
   sources of funding should come from them and possibly a
   separate information center working as part of the Bootstrap
   Community would be set up and supported by another group
   within or without ARC.                                               1f

      This is obviously a fuzzy area and must be clarified as
      ARC's and NIC's clientele and capabilities grow in the
      future.   In document (12380,) DCE has outlined classes of

service which could be offered to communities of discipline
or problem oriented groups over the net through the
Utility.  In normal operation these would probably not be
considered NIC service to these groups.  However, as these
are developed, NIC might want to offer some of them to
people in the network community who did not belong to a
group which ARC or some other information center would want
to support as a single special community.                      1f1

DEVELOPMENT OPPORTUNITIES FOR NIC
The key "development opportunities" (rather than "problems"), as
we see them, are grouped in categories below -- there is no
priority implied in their order:                               2

1) IMPROVED NETWORK-RESOURCE REFERENCE SERVICE:  We feel that
support of the resource notebook, and documentation on the use
of the network is of highest importance.  The first question
people interested in the network ask is, "What resources are
available and how do I gain access and learn to use them?"
Therefore we feel the resource notebook, particularly the
hardcopy version should get prime attention to bring it into
shape so that people in the Network community really feel it
to be a useful product.  We also must build a complete
collection of documentation on network resources.             2a

Associated with the development of the Resource Notebook in
hardcopy should the continued development of
novice-oriented online methods for locating and accessing
the resource information and other NIC data bases such as
catalog, directory, and user documentation.                   2a1

We can expect other sites to want to put their
documentation online in the NIC, the first case will
probably be the TIP user guide.   BBN would like to have
the TIP guide online at the NIC and implement a TIP command
to allow a TIP user to automatically access it.               2a2

2) INTEGRATING NIC SERVICES WITH USER-SITE CAPABILITIES Making
it easier to access and use online NIC services               2b

The NIC should take the lead in integrating NLS into the
network, getting text from and to other systems into and
out of NLS, Journal delivery through the net etc.             2b1

The NIC should take the lead in making it easier for Novice
users to do simple tasks in NLS, create a, possibly
unstructured, document or letter, enter something in the
Journal, access NIC online data bases etc.                    2b2

3) ANALYZING NIC OPERATIONS:  We need to put the entire NIC
operations into a unified operational model within which we
can derive analytic help for the following needs and problems.      2c

ANALYSING THE STATION AGENT AND STATION COLLECTION CONCEPT      2c1

Review the concept of station agents and station
collections and provide better training and help to
them.                                                                2c1a

We need to clarify our definition of what we expect a
station agent to do and then provide more training,
liaison and other help to them.                                      2c1b

We should review our policies on the types of material
we are sending to station collections, how the station
collections are being used etc.                                      2c1c

ANALYSING DATA HANDLING                                           2c2

The NIC has developed its procedures and information
products around a number of data management capabilities
available in NLS, the identsystem, catalog sytem, normal
NLS text entry, the result being a system as viewed from
the NIC, which is a constant source of problems and
doesn't hang together properly.  By system I mean not
just the computer tools, which are working but
unintegrated, but the entire system involving data
input, verification, proofing of formated products etc.      2c2a

The goal for the NIC in this area should be a
complete review of the procedures and tools for
making its catalogs, directories, resource note books
and to make design recommendations on what should be
changed, added to, dropped, consolidated etc..  Other
functions using these same tools should do likewise
and NIC, within its resources, and Development more
generally should do whats necessary to produce a
smoothly functioning integrated set of capabilities.      2c2a1

ANALYSING NIC COSTS                                              2c3

NIC will be under increasing pressure in the near
future, probably by spring 73 and certainly by summer
73, to be able to tell ARPA what various of its services
cost and may need to begin, probably on a subsidized
basis, to charge for its services.  Therefore it needs
to know what its services cost.  NIC seems underfunded

now for the nature of what it is doing and we probably
want to obtain additional funding if possible and this
economic information will be needed to support this
request.                                                                    2c3a

   Help in analysing this problem can be obtained from
   the Analysis Group.                                                      2c3a1

ANALYSING NIC DIALOG SUPPORT NEEDS                                          2c4

   The Journal system has improved significantly in
   reliability, speed and ease of use in the last few
   months, but the NIC should help in the further evolution
   of the DSS by defining NIC needs and requirements in
   this important basic NIC service area.                                   2c4a

   Offline dialog support, represented by the hardcopy
   receipt, recording, reproduction,and distrbution work of
   PSO, is of prime importance and functioning quite well,
   but should be improved in speed and quality where
   possible.                                                                2c4b

ANALYSING USER INTERFACE NEEDS                                              2c5

   Another important area requiring work is the user
   interface, NLS user documentation, training, followup
   visits to sites etc..                                                    2c5a

RELEVANT SPECIAL ACTIVITIES TO CONSIDER                                     3

One major new area the NIC is likely to get involved in during
the coming year is supporting a scholarly journal on
networking using NLS capabilities.                                          3a

The ACM Special Interest Group on AI is going to experiment
with using the NIC to support its newsletter.  If this
experiment proves successful we probably will want to try and
obtain extra funding for its ongoing operation.                            3b

The NIC is also the logical place to begin the special support
of the groups such as Radio Communications Project the ASS
group etc. Later as we evolve guidelines for what should be
"NIC" and what special community projects the place to support
some of these activities may change.                                       3c

(J13289)  14-DEC-72 14:07;   Title:   Author(s): Engelbart, Douglas C.,
Watson, Richard W., Norton, James C./EMC  ; Distribution: Agent,
Station, Hoffman, Carol B., Lee, Susan R., Michael, Elizabeth K.,
Dornbush, Charles F., ARC, Guest O., Feinler, Elizabeth J. (Jake),
Handbook, Augmentation Research, Kelley, Kirk E., Meyer, N. Dean, Byrd,
Kay F., Prather, Ralph, White, James E. (Jim), Vallee, Jacques F., Kaye,
Diane S., Rech, Paul, Kudlick, Michael D., Ferguson, Ferg R., Lane,
Linda L., Auerbach, Marilyn F., Bass, Walt, Engelbart, Douglas C.,
Hardeman, Beauregard A., Hardy, Martin E., Hopper, J. D., Irby, Charles
H., Jernigan, Mil E., Lehtman, Harvey G., North, Jeanne B., Norton,
James C., Page, Cindy, Paxton, William H., Peters, Jeffrey C., Ratliff,
Jake, Row, Barbara E., Van De Riet, Edwin K. (Ed), Van Nouhuys, Dirk H.,
Victor, Kenneth E. (Ken), Wallace, Donald C. (Smokey), Watson, Richard
W., Andrews, Don I./sri-arc  ; Sub-Collections: EMC SRI-ARC; Clerk: RWW;
Origin: <WATSON>NIC.NLS;13, 14-DEC-72 10:58 RWW ;.DIR=1;
.DLD='@; @HJOURNAL="(Engelbart,NIC,) -- dce mods from
(Watson,NIC,) @GDATM;"; @HED=
"Brief Summary of NIC Priorities and Charter";
 @LBS=1; @MCH=65; @SNF=72; @DLS=1; @PGN=0; @PES;
@HRM=72; @F="@SPLIT;Page @GPN;"; @FRM=72;

R&D Contract Status Report for November, Project 1894

> Stanford Research Institute
> Augmentation Research Center
> 333 Ravenswood Avenue
> Menlo Park, California  94025

Mr. Burns, RADC/PMA
Department of the Air Force
Headquarters Rome Air Development Center (AFSC)
Griffiss Air Force Base, New York 13440

Dear Mr. Burns:

This responds to block 10 of DD Form 1664 with respect to
contract F30602-72-C-0333 (SRI #1894).                          1

The table below shows the man hours expended on the subject
contract since the last reporting period (five weeks).          2

| | Cumulative to | Man Hours Expended During Report Period |
|---|---|---|
| | 12/02 | |
| Supervisor | 168 | 128 |
| Senior Professional | 581 | 0 |
| Professional | 1320 | 420 |
| Technical | 32 | 0 |
| Other | 92 | 0 |
| | --------- | |
| | 2193 | |

2a

We estimate that the percentage of technical completion at the
end of November was 75 per cent.                                3

A formal request for contract extension is in process through
contractual channels.                                           4

During November we continued to cooperate with Rome in
development of software which allows Rome to use our system in
the display mode over the ARPA Network.                         5

Work is continuing at ARC on the calculator package that Rome has
requested, and a design specification has been released (13141,).  6

During October Marilyn Auerbach planned the first formal course

to be given in using ARC's NLS on display terminals.  The course
will take place in Rome in December.                                    7


                         Sincerely,


                         Dirk van Nouhuys
                         Research Analyst
                         Augmentation Research Center

her

R&D Contract Status Report for November, Project 1894


(J13290)  14-DEC-72 14:13;   Title: Author(s): Van Nouhuys, Dirk
H./DVN; Distribution: Norton, James C./JCN; Sub-Collections: SRI-ARC;
Clerk: BER;
Origin: <ROW>R&DCONTRACT.NLS;8, 14-DEC-72 14:10 BER ;

new ADVIZ jsys

this document describes a new version of ADVIZ.   The need for
this new version grew from Smokey's and my trip to BBN.   (see
(13292,) for resulting side effects of this new implementation.)
Please make any comments in the next few days in order that i may
send this to BBN for approval before final implementation.

ADVIZ          JSYS 315                                    1

Advise                                                        1a

ACCEPTS IN                                                    1b

    1:   Control word as follows:                             1b1

        Bit 0 = 1 break advise link from TTY designated in bits
        18-35  to me ( a designator of -1 means break all advise
        links to me)
        Bit 1 = 1 break advising-others link (note you can only
        be advising one other TTY at a time)
        Bit 2 = 1 establish advise-others link to line specified
        in bits 18-35
        Bit 3 = 1 set up (for 15 seconds) to receive advise from
        line specified in bits 18-35
        Bits 18-35 TTY designator                            1b1a

RETURNS                                                       1c

    +1:   unsuccessful, error code in 1                       1c1

    +2:   Successful:   requested action performed            1c2

Notes:                                                        1d

    Doing an accept advise causes a receive links to be
    implemented as well as the accept advise.  If the accept
    advise is ignored (i.e., the TTY specified in bits 18-35
    does not do an advise to this terminal within fifteen
    seconds) then an error return is given.                   1d1

    If you are trying to advise another terminal, an output
    link will try to be established first.  If this is
    successful (if it is unsuccessful, then the TLINK errors
    will be generated), then an attempt will be made to
    establish the input (advise) link.  At this point in time,
    the remote terminal has up to 15 seconds to issue an accept
    advise.  (While waiting for the accept advise, the bell
    will ring on both terminals.)  If the remote terminal does
    not accept, then an error is generated.                   1d2

    An enabled wheel, or operator, can establish an advise link
    without the remote terminal accepting the advise.         1d3

    It is illegal to issue this jsys with more than one bit of
    bits 0, 2, or 3 of register 1 set.                        1d4

ADVIZ ERROR MNEMONICS:                                           1e

    TLNKX1:   Links Refused                                      1e1

    TLNKX2:                                                       1e2

    TLNKX3:                                                       1e3

    ADVX1:    Advise not accepted                               1e4

    ADVX2:    Accept advise ignored                             1e5

    ADVX3:    Illegal combination of bits 0, 2, and/or 3        1e6

new ADVIZ jsys

(J13291)  14-DEC-72 16:17;   Title:  Author(s): Victor, Kenneth E.
(Ken)/KEV; Distribution: Andrews, Don I., Bass, Walt, Dornbush, Charles
F., Ferguson, Ferg R., Hopper, J. D., Irby, Charles H., Kaye, Diane S.,
Lehtman, Harvey G., Michael, Elizabeth K., Vallee, Jacques F., Victor,
Kenneth E. (Ken), Wallace, Donald C. (Smokey), White, James E.
(Jim)/sri-prog  ; Sub-Collections: SRI-ARC SRI-PROG; Clerk: KEV;
Origin: <VICTOR>NEW-ADVIZ.NLS;7, 14-DEC-72 13:46 KEV ;

coming changes to ADVISING in the EXEC

One of the results of Smokey's and my trip to BBN was that in
order for advise to become part of standard TENEX, it must be
respecified to become a handshaking procedure.  See (13291,) for
the new specification of the ADVIZ jsys.                              1

The implications of this are as follows:                             2

   the RECEIVE ADVISE and REFUSE ADVISE EXEC commands will go
   away.                                                             2a

   To advise someone the procedure will become:                     2b

      you issue the EXEC ADVISE (TERMINAL) command                  2b1

      the person you wish to advise must issue the new EXEC
         ACCEPT (ADVISE FROM TERMINAL) command                      2b2

      the order in which these two commands are executed does not
      matter as long as both are issued within 15 seconds of each
      other                                                         2b3

   there should be no change in the NLS procedure for sharing
   screens                                                          2c

      (however, it will be necessary to change some of the
      implementation)                                               2c1

(note: this stuff will not be implemented for some time.  The
function of this document is merely to advise people of what is
coming and to solicit comments in time to have an effect)           3

coming changes to ADVISING in the EXEC

(J13292)   14-DEC-72 18:45;   Title:   Author(s): Victor, Kenneth E.
(Ken)/KEV; Distribution: Agent, Station, Hoffman, Carol B., Lee, Susan
R., Michael, Elizabeth K., Dornbush, Charles F., ARC, Guest O., Feinler,
Elizabeth J. (Jake), Handbook, Augmentation Research, Kelley, Kirk E.,
Meyer, N. Dean, Byrd, Kay F., Prather, Ralph, White, James E. (Jim),
Vallee, Jacques F., Kaye, Diane S., Rech, Paul, Kudlick, Michael D.,
Ferguson, Ferg R., Lane, Linda L., Auerbach, Marilyn F., Bass, Walt,
Engelbart, Douglas C., Hardeman, Beauregard A., Hardy, Martin E.,
Hopper, J. D., Irby, Charles H., Jernigan, Mil E., Lehtman, Harvey G.,
North, Jeanne B., Norton, James C., Page, Cindy, Paxton, William H.,
Peters, Jeffrey C., Ratliff, Jake, Row, Barbara E., Van De Riet, Edwin
K. (Ed), Van Nouhuys, Dirk H., Victor, Kenneth E. (Ken), Wallace, Donald
C. (Smokey), Watson, Richard W., Andrews, Don I./sri-arc   ;
Sub-Collections: SRI-ARC; Clerk: KEV;
Origin: <VICTOR>NEW-EXEC-ADVISE.NLS;3, 14-DEC-72 16:59 KEV ;

ANSWERING PHONES

With regards to answering the phones, I agree with Harvey that it
should be (if it isn't already) a PSO function. In fact, I'm not
sure why it's even brought up for question. To anyone who wishes
to call me a "Male Chauvinist Pig" I say, "It takes one to know
one "

1

ANSWERING PHONES

(J13293)  14-DEC-72 11:39;    Title:   Author(s): Hardeman, Beauregard
A./BAH   ; Distribution: Agent, Station, Hoffman, Carol B., Lee, Susan
R., Michael, Elizabeth K., Dornbush, Charles F., ARC, Guest O., Feinler,
Elizabeth J. (Jake), Handbook, Augmentation Research, Kelley, Kirk E.,
Meyer, N. Dean, Byrd, Kay F., Prather, Ralph, White, James E. (Jim),
Vallee, Jacques F., Kaye, Diane S., Rech, Paul, Kudlick, Michael D.,
Ferguson, Ferg R., Lane, Linda L., Auerbach, Marilyn F., Bass, Walt,
Engelbart, Douglas C., Hardeman, Beauregard A., Hardy, Martin E.,
Hopper, J. D., Irby, Charles H., Jernigan, Mil E., Lehtman, Harvey G.,
North, Jeanne B., Norton, James C., Page, Cindy, Paxton, William H.,
Peters, Jeffrey C., Ratliff, Jake, Row, Barbara E., Van De Riet, Edwin
K. (Ed), Van Nouhuys, Dirk H., Victor, Kenneth E. (Ken), Wallace, Donald
C. (Smokey), Watson, Richard W., Andrews, Don I./SRI-ARC  ;
Sub-Collections: SRI-ARC; Clerk: BAH  ;

I will lose all kinds of face with the Library Ladies if some of
the Arc group doesn't show up at the annual library xmas coffee.
For those of you who have never been: Time — 9:30 to 3:30 Thurs.,
Dec. 21; Place — Main Library, way in the back; Protocol — come
as you are, get free coffee and home-made goodies, and meet some
of the rest of the people at the Institute.  Y'all come now,
hear      - JAKE F.                                                      1

(J13294)    14-DEC-72 9:08;    Title:    Author(s): Feinler, Elizabeth J.
(Jake)/JAKE; Distribution: Agent, Station, Hoffman, Carol B., Lee, Susan
R., Michael, Elizabeth K., Dornbush, Charles F., ARC, Guest O., Feinler,
Elizabeth J. (Jake), Handbook, Augmentation Research, Kelley, Kirk E.,
Meyer, N. Dean, Byrd, Kay F., Prather, Ralph, White, James E. (Jim),
Vallee, Jacques F., Kaye, Diane S., Rech, Paul, Kudlick, Michael D.,
Ferguson, Ferg R., Lane, Linda L., Auerbach, Marilyn F., Bass, Walt,
Engelbart, Douglas C., Hardeman, Beauregard A., Hardy, Martin E.,
Hopper, J. D., Irby, Charles H., Jernigan, Mil E., Lehtman, Harvey G.,
North, Jeanne B., Norton, James C., Page, Cindy, Paxton, William H.,
Peters, Jeffrey C., Ratliff, Jake, Row, Barbara E., Van De Riet, Edwin
K. (Ed), Van Nouhuys, Dirk H., Victor, Kenneth E. (Ken), Wallace, Donald
C. (Smokey), Watson, Richard W., Andrews, Don I./Sri-arc  ;
Sub-Collections: SRI-ARC; Clerk: JAKE;

Garbage

This is garbage.                                                                    1

Garbage

(J13295)   14-DEC-72 10:50;   Title: Author(s): Norton, James C./JCN;
Distribution: Van Nouhuys, Dirk H./DVN  ; Sub-Collections: SRI-ARC;
Clerk: JCN;

1973 Natiomal Computer Conference&Expostion


Doug: Bill Bethke asked me to contact you and ask if you would be
willing to present a invited paper at the first annuak computer
conference to be held in New York 4-8 June. He is on the proram
committee of the SID association and they are having a session on
interative communication systems I think Bill feels your work is
ideal for this area and also it would be nice if you presented in
a panel he is inviolved in. The hooker is that a abstract is
required by the end of the month. This is not to exeed 200 words
which is not too bad I hope. Since Bill is on the system or at
least can read messages in his initials file it would be neat if
you could respond to him directly.                                      1

1973 Natiomal Computer Conference&Expostion


(J13296) 14-DEC-72 13:48; Title: Author(s): McNamara, John L./JLM; Distribution: Engelbart, Douglas C./DCE; Sub-Collections: RADC; Clerk: JLM;

expunge at logout time


I would like to see us put back the expunge at logout time that
we removed some time ago.  By doing this, we would have one less
difference from standard TENEX as well as the fact that temp
files would disappear properly at logout time.  Please let me
know your feelings on the matter.                              1

expunge at logout time

(J13297)    14-DEC-72 9:00;    Title:   Author(s): Victor, Kenneth E.
(Ken)/KEV; Distribution: Agent, Station, Hoffman, Carol B., Lee, Susan
R., Michael, Elizabeth K., Dornbush, Charles F., ARC, Guest O., Feinler,
Elizabeth J. (Jake), Handbook, Augmentation Research, Kelley, Kirk E.,
Meyer, N. Dean, Byrd, Kay F., Prather, Ralph, White, James E. (Jim),
Vallee, Jacques F., Kaye, Diane S., Rech, Paul, Kudlick, Michael D.,
Ferguson, Ferg R., Lane, Linda L., Auerbach, Marilyn F., Bass, Walt,
Engelbart, Douglas C., Hardeman, Beauregard A., Hardy, Martin E.,
Hopper, J. D., Irby, Charles H., Jernigan, Mil E., Lehtman, Harvey G.,
North, Jeanne B., Norton, James C., Page, Cindy, Paxton, William H.,
Peters, Jeffrey C., Ratliff, Jake, Row, Barbara E., Van De Riet, Edwin
K. (Ed), Van Nouhuys, Dirk H., Victor, Kenneth E. (Ken), Wallace, Donald
C. (Smokey), Watson, Richard W., Andrews, Don I./sri-arc   ;
Sub-Collections: SRI-ARC; Clerk: KEV;

New NIC Manager

Effective 15 Dec Mike Kudlick will become NIC manager. A
description of the major current NIC problems and general purpose
is given in (13289,) as seen by the EMC.  We are fortunate in
having someone such as Mike to lead this important project.                    1

get this too

New NIC Manager

(J13298)    14-DEC-72 14:28;    Title:  Author(s): Engelbart, Douglas C.,
Watson, Richard W., Norton, James C./EMC  ; Distribution: Agent,
Station, Hoffman, Carol B., Lee, Susan R., Michael, Elizabeth K.,
Dornbush, Charles F., ARC, Guest O., Feinler, Elizabeth J. (Jake),
Handbook, Augmentation Research, Kelley, Kirk E., Meyer, N. Dean, Byrd,
Kay F., Prather, Ralph, White, James E. (Jim), Vallee, Jacques F., Kaye,
Diane S., Rech, Paul, Kudlick, Michael D., Ferguson, Ferg R., Lane,
Linda L., Auerbach, Marilyn F., Bass, Walt, Engelbart, Douglas C.,
Hardeman, Beauregard A., Hardy, Martin E., Hopper, J. D., Irby, Charles
H., Jernigan, Mil E., Lehtman, Harvey G., North, Jeanne B., Norton,
James C., Page, Cindy, Paxton, William H., Peters, Jeffrey C., Ratliff,
Jake, Row, Barbara E., Van De Riet, Edwin K. (Ed), Van Nouhuys, Dirk H.,
Victor, Kenneth E. (Ken), Wallace, Donald C. (Smokey), Watson, Richard
W., Andrews, Don I./sri-arc  ; Sub-Collections: EMC SRI-ARC; Clerk: RWW;