Another Vote for a Simplified Version of Help

I agree with (33322,) in that there should be a simpler version of
help for "naive" users. We currently don't teach Help until the
Second Course because it was felt by Applications Development that
most Help descriptions were too complex for the beginning user. I
think many more users would be inclined to use Help if there were a
simpler version.   1

Another Vote for a Simplified Version of Help

(J26348)   29-AUG-75 13:36;;;;   Title: Author(s): Susan Gail
Roetter/SGR; Distribution: /JBP([ACTION]) DMB([INFO-ONLY] for
DIRT notebook) DIRT([INFO-ONLY]) MCG([INFO-ONLY]) LEG([
INFO-ONLY]) DHC([INFO-ONLY]) DLS([INFO-ONLY]) US([INFO-ONLY
]) ; Sub-Collections: SRI-ARC DIRT US; Clerk: SGR;

26348 Distribution

Jonathan B. Postel, Delorse M. Brooks, Jonathan B. Postel, Priscilla
A. Wold, Rita Hysmith, Pamela K. Allen, Delorse M. Brooks, Elizabeth
F. Finney, Beverly Boli, Lawrence A. Crain, Kirk Sattley, Susan Gail
Roetter, Robert N. Lieberman, Ann Weinberg, Kenneth E. (Ken) Victor,
Douglas C. Engelbart, James H. Bair, Elizabeth K. Michael, Richard W.
Watson, Elizabeth J. Feinler, Harvey G. Lehtman, Kirk E. Kelley,
Laura E. Gould, Jeanne M. Beck, Dirk H. Van Nouhuys, James C. Norton,
Mario C. Grignetti, Laura E. Gould, David H. Crocker, Duane L. Stone,
Susan Gail Roetter, Priscilla A. Wold, Jeanne M. Beck, Pamela K.
Allen, Rita Hysmith, Sandy L. Johnson

User Services Schedule

I'm going to maintain a schedule of planned future training in a file
at bbnb (roetter,record,) and a hardcopy on my door for any of you
who are interested. Also, I've sent a message to JLC (Sgt. Crabtree)
asking him not to distriibute his problems to SRI-ARC. Sorry to
bother everyyone with partial copy and ident problems,   1

User Services Schedule

(J26349)   29-AUG-75 14:08;;;;   Title: Author(s): Susan Gail
Roetter/SGR; Distribution: /SRI-ARC([INFO-ONLY]) ; Sub-Collections:
SRI-ARC; Clerk: SGR;

26349 Distribution

Douglas C. Engelbart, Martin E. Hardy, J. D. Hopper, Charles H. Irby,
Harvey G. Lehtman, James C. Norton, Jeffrey C. Peters, Dirk H. Van
Nouhuys, Kenneth E. (Ken) Victor, Richard W. Watson, Don I. Andrews,
Mary Ann Kellan, Buddie J. Pine, Andy Poggio, David L. Retz, Laura J.
Metzger, Karolyn J. Martin, Jan A. Cornish, Larry L. Garlick,
Priscilla A. Wold, Pamela K. Allen, Delorse M. Brooks, Beverly Boli,
Rita Hysmith, Log Augmentation, Joseph L. Ehardt, Raymond R. Panko,
Susan Gail Roetter, Robert Louis Belleville, Rene C. Ochoa, Ann
Weinberg, Joan Hamilton, Adrian C. McGinnis, Robert S. Ratner, David
S. Maynard, Robert N. Lieberman, Sandy L. Johnson, James H. Bair,
Jeanne M. Leavitt, Rodney A. Bondurant, Jeanne M. Beck, Marcia L.
Keeney, Elizabeth K. Michael, Jonathan B. Postel, Elizabeth J.
Feinler, Kirk E. Kelley, N. Dean Meyer, James E. (Jim) White

1

In two weeks, I will be moving to Santa Cruz for nine months

I have been officially accepted as an undergraduate (Junior) at UCSC.
In two weeks (Sept, 13) I will take three and a half weeks vacation
to get moved and oriented in my new home at 911 Mission in Santa
Cruz. I plan to be available on-line during most of this time as
soon as my foreign exchange Los Gatos number has been installed.   1

On October 9, I should start hourly status. I think current plans
are for me to work up to twenty hours a week primarily on
documentation. After October 9, I plan to appear at ARC
approximately every two weeks until next summer when I hope to return
to work full time.   2

I think I'll probably follow the Information Science program with
hopes of continuing my work in general systems theory towards a
standard for decision and my work on the Whole Universe Catalog with
possible fall-out for Help. If I can get them interested, they might
be willing to help find support towards the development of an
"on-line university". However all this is currently just my fantasy
until I have a chance to talk to the people there.   I'll keep you
posted. -- kirk   3

In two weeks, I will be moving to Santa Cruz for nine months

(J26351) 31-AUG-75 23:47;;;;   Title: Author(s): Kirk E. Kelley/KIRK;
Distribution: /SRI-ARC([INFO-ONLY]) ; Sub-Collections: SRI-ARC;
Clerk: KIRK;

26351 Distribution

Douglas C. Engelbart, Martin E. Hardy, J. D. Hopper, Charles H. Irby,
Harvey G. Lehtman, James C. Norton, Jeffrey C. Peters, Dirk H. Van
Nouhuys, Kenneth E. (Ken) Victor, Richard W. Watson, Don I. Andrews,
Mary Ann Kellan, Buddie J. Pine, Andy Poggio, David L. Retz, Laura J.
Metzger, Karolyn J. Martin, Jan A. Cornish, Larry L. Garlick,
Priscilla A. Wold, Pamela K. Allen, Delorse M. Brooks, Beverly Boli,
Rita Hysmith, Log Augmentation, Joseph L. Ehardt, Raymond R. Panko,
Susan Gail Roetter, Robert Louis Belleville, Rene C. Ochoa, Ann
Weinberg, Joan Hamilton, Adrian C. McGinnis, Robert S. Ratner, David
S. Maynard, Robert N. Lieberman, Sandy L. Johnson, James H. Bair,
Jeanne M. Leavitt, Rodney A. Bondurant, Jeanne M. Beck, Marcia L.
Keeney, Elizabeth K. Michael, Jonathan B. Postel, Elizabeth J.
Feinler, Kirk E. Kelley, N. Dean Meyer, James E. (Jim) White

Procedure for PR at Gunter to input columnar material into NLS

Rejournalized to add to the dpcs subcollection

Procedure for PR at Gunter to input columnar material into NLS

TABLES PROCEDURE   1

There is a new feature in NLS 8.5 at ISIC that makes it easier to use
TABs to line up columns when typing in tables than it is in NLS-8 at
Office-1. The Useroptions command, Space (for Tabs), sets up NLS so
that the appropriate number of spaces are inserted in your line when
you hit TAB to go to the next tabstop you have set. Its other effect
is that the first character of your TYPEIN will always appear at the
left margin, so that the position of the characters you type in
corresponds to where the columns will appear when you print your
file. Here is the procedure worked out with Jo Wagner and Cindy
Pattillo for using this feature to enter columnar material using NLS
at ISIC and getting that text merged into the rest of the document at
Office-1.   2

SETTING UP: 3

    PR inserts the normal text of their document into the appropriate
    NLS file at Office-1. When the typist reaches a table of columnar
    text of more than a couple of lines, she inputs only the title of
    the table, skips the columnar text, and resumes typing the
    statement following the table. She should note, on her hardcopy,
    the statement address (usually the SID) of the last statement
    which is to precede the table.   3a

    When she is ready to input several of the skipped tables, she will
    logout of Office-1 and close the connection (by typing "@ c
    <CR>").   3b

    @ o <SP> 244 <CR>   [Open a connection to USC-ISIC] 3c

    @ LOG <SP> ROETTER <SP> SGR <SP> <CR>   3d

        The @'s in this step and those immediately following are not
        typed by user, they are printed by TENEX as heralds.   3d1

    @ TSET <CR>   3e

    @ NLS <CR>   3f

INPUTTING YOUR FIRST TABLE: 4

BASE C: Goto Useroptions <CR>   4a

    I've capitalized the letters of each command-word that user
    types.   4a1

USER C: <SP>Space (for tabs) <CR>   4b

USER C: <SP>Printoptions C: Tab (stop settings) T:
<SP> <SP> <SP> <SP> <SP> X <SP> <SP> <SP> X <SP> <SP> <SP> X <CR>   4c

    [i,e, type a number of spaces, then a character where you want
    your first tab stop to be, space over to your next tab stop,
    type a character, etc. -- to set the tab stops you need for
    your first table. You have a 72-character line to work with.]   4c1

USER C: Show C: <SP>Printoptions <CR>
...
tabstops: 10,15,38,55   4d

    This optional command will show you the numbers of the columns
    where you set the tabstops in the previous command; this is
    useful information because you can set the tabstops using the
    column numbers the next time you have a similar table, without
    re-spacing through that table.   4d1

USER C: Quit Nls <CR>   4e

@ NLS <CR>   4f

    The Useroptions commands you have just given will take effect
    only in your next NLS session, so quit and recall NLS.   4f1

BASE C: <SP>CReate File T: FILENAME <CR>   4g

    FILENAME Conventions:
    The filename given to the table file should be the name of the
    corresponding chapter file at Office-1, followed by a "T" and a
    number. For example, the first table you input for AFM
    85-652CH3 would carry the filename "AFM85-652CH3T1.   4g1

    Wait for "<ROETTER, AFM...,>" to appear to indicate that the
    file has been successfully created and loaded before going on: 4g2

BASE C: Insert Text (to follow) A: 0 +e <CR>
T:
This table is to follow statement # XXX, <CR>   4h

    [Where XXX = the SID or statement # of the statement in the
    Office-1 file which this table is to follow.]   4h1

BASE C: Insert Statement ...   4i

    Start typing the table. Use <CTRL-I> to tab to the next column
    position. Use <CTRL-V><CR> to put in second lines of table
    entries. Use <CTRL-E> to end statement and input the next one.
    Using <CTRL-A> and <CTRL-W> to backspace your input will move

Procedure for PR at Gunter to input columnar material into NLS

your carriage back and overprint and leave you in the right
column position. <CTRL-V><CR> will mess up your spacing by
printing <EOL> at the beginning of the next line, but your next
TAB will put you in the right position; the <EOL> will not go
into your file.   4i1

BASE C: Update File <CR>   4j

--when you have finished typing this table. Only one table is
to go into each file. If you have been using <CTRL-E> to
insert statements, remember to type <CTRL-X> before you Update.   4j1

INPUTTING ANOTHER TABLE-NEW FILE-SAME TABSTOPS: 5

BASE C: <SP>CReate File T: AFM85-652CH3T2 <CR>   5a

BASE C: Insert Text (to follow) A: 0 +e <CR>
T:
This table is to follow statement # XXX. <CR>   5b

[where XXX = the SID or statement # of the statement in the
Office-1 file which this table is to follow.]   5b1

BASE C: Insert Statement ...   5c

Start typing the table. Use <CTRL-I> to tab to the next column
position. Use <CTRL-V><CR> to put in second lines of table
entries. Use <CTRL-E> to end statement and input the next one.
Using <CTRL-A> and <CTRL-W> to backspace your input will move
your carriage back and overprint and leave you in the right
column position. <CTRL-V><CR> will mess up your spacing by
printing <EOL> at the beginning of the next line, but your next
TAB will put you in the right position; the <EOL> will not go
into your file.   5c1

BASE C: Update File <CR>   5d

--when you have finished typing this table. Only one table is
to go into each file. If you have been using <CTRL-E> to
insert statements, remember to type <CTRL-X> before you Update.   5d1

INPUTTING ANOTHER TABLE/FILE WITH DIFFERENT TABSTOPS: 6

BASE C: Goto Useroptions <CR>   6a

USER C: <SP>Printoptions C: Tab (stop settings) T:
<SP> <SP> <SP> <SP> <SP> X <SP> <SP> <SP> <SP> X <SP> <SP> <SP> X <CR>
       [or]

3

25,35,42,65 <CR>   [if you have already worked out the tabstops
                    for this type of table and noted the column numbers]   6b

USER C: Quit Nls <CR>   6c

@ NLS <CR>   6d

BASE C: <SP>CReate File T: AFM85-652CH3T3 <CR>   6e

BASE C: Insert Text (to follow) A: 0 +e <CR>
T:
This table is to follow statement # XXX, <CR>   6f

    [where XXX = the SID or statement # of the statement in the
    Office-1 file which this table is to follow.]   6f1

BASE C: Insert Statement ...   6g

    Start typing the table. Use <CTRL-I> to tab to the next column
    position. Use <CTRL-V><CR> to put in second lines of table
    entries. Use <CTRL-E> to end statement and input the next one.
    Using <CTRL-A> and <CTRL-W> to backspace your input will move
    your carriage back and overprint and leave you in the right
    column position. <CTRL-V><CR> will mess up your spacing by
    printing <EOL> at the beginning of the next line, but your next
    TAB will put you in the right position; the <EOL> will not go
    into your file.   6g1

BASE C: Update File <CR>   6h

    --when you have finished typing this table. Only one table is
    to go into each file. If you have been using <CTRL-E> to
    insert statements, remember to type <CTRL-X> before you Update.   6h1

WHEN SEVERAL TABLE/FILES HAVE BEEN CREATED & UPDATED: 7

BASE C: Goto Tenex <CR>   7a

@ SNDMSG <CR>   7b

    To: weinberg@usc-isic, beck@bbnb,
    roetter@bbnb,wold@bbnb,weinberg@bbnb   7b1

    cc: dsdc-pr@office-1   7b2

    Subject: Please transfer files to DSDC-PR at Office-1   7b3

    Message: Please FTP the following files:
    <AFMXXXT1,>

        <AFMXXXT2,>
        to the appropriate chapter of AF manual at Office-1, RSVP to
        DSDC-PR@Office-1, ...signed
        <CTRL-Z> <CR>   7b4

    @ LOGO <CR>   7c

TRANSFERRING THE FILES TO O-1 & MERGING THE TABLES INTO THE DOCUMENT: 8

    These steps in the procedure will be carried out by SRI-ARC
    personnel until the procedures are more detailed and a Gunter
    person has been trained to take this over.   8a

    When the message from a PR person is received, the specified files
    in Roetter's directory at USC-ISIC should be FTP'd to directory
    DSDC-PR at Office-1, to files of the same name.   8b

    At Office-1, each transferred file should be loaded in turn and
    the origin statement printed to find the statement address for the
    location of the table in the document-proper.   8c

    Load the chapter file and look at the statement whose SID is
    specified in the tables file to check that a table belongs there.   8d

    Copy the Plex: <AFMXXXT1, 1> to follow <AFMXXX, SID>   8e

    Recheck the chapter file to verify that the tables are included
    correctly (It will later be formatted so that tables appear at the
    left margin, so some lines may overlap now tho they will later
    accomodate 72 characters to the line). Update the chapter file.   8f

    Delete the files AFMXXXT1, etc. from the directory DSDC-PR.   8g

    Log in to USC-ISIC, and delete the files of the same name from
    Roetter's directory.   8h

    Send a SNDMSG, from your own directory, to DSDC-PR, including in
    the Subject line the name of the PR person who did the tables.
    List the files that have been successfully transferred. cc: copy
    to all those in the original distribution.   8i

Procedure for PR at Gunter to input columnar material into NLS

(J26352) 2-SEP-75 11:46;;;;   Title: Author(s): Jeanne M. Beck/JMB;
Distribution: /DMB([ACTION] dpcs notebook please) DPCS([INFO-ONLY]
) ; Sub-Collections: DPCS SRI-ARC; Clerk: DVN;   Origin: <
IJOURNAL, 26332.NLS;1, >, 27-AUG-75 12:37 XXX ;;;;   Title:
Author(s): Jeanne M. Beck/JMB; Distribution: /CFP([ACTION]) JVW(
[ACTION]) US([INFO-ONLY]) POOH([INFO-ONLY]) RWW([
INFO-ONLY]) KIRK([INFO-ONLY]) LAC([INFO-ONLY]) MAS2([
INFO-ONLY]) DVN([INFO-ONLY] Ann said she thought you might
possibly be interested) JHB([INFO-ONLY]) ; Sub-Collections:
SRI-ARC US; Clerk: JMB;   Origin: < BECK, TABLES.NLS;6, >,
27-AUG-75 11:54 JMB ;;;;####;

####;

Procedure for PR at Gunter to input columnar material into NLS

(J26352) 2-SEP-75 11:46;;;;   Title: Author(s): Jeanne M. Beck/JMB;
Distribution: /DMB([ACTION] dpcs notebook please) DPCS([INFO-ONLY]
) ; Sub-Collections: DPCS SRI-ARC; Clerk: DVN;   Origin: <
IJOURNAL, 26332,NLS;1, >, 27-AUG-75 12:37 XXX ;;;;   Title:
Author(s): Jeanne M. Beck/JMB; Distribution: /CFP([ACTION]) JVW(
[ACTION]) US([INFO-ONLY]) POOH([INFO-ONLY]) RWW([
INFO-ONLY]) KIRK([INFO-ONLY]) LAC([INFO-ONLY]) MAS2([
INFO-ONLY]) DVN([INFO-ONLY] Ann said she thought you might
possibly be interested) JHB([INFO-ONLY])) ; Sub-Collections:
SRI-ARC US; Clerk: JMB;   Origin: < BECK, TABLES,NLS;6, >,
27-AUG-75 11:54 JMB ;;;;####;

####;

26352 Distribution

Delorse M. Brooks, Marilynne A. Sims, Delorse M. Brooks, Elizabeth F. Finney, Beverly Boli, Joseph L. Ehardt, James H. Bair, Robert N. Lieberman, Pat Whiting O'Keefe, James H. Bair, Robert Louis Belleville, Ann Weinberg, Thomas L. Humphrey, Jeanne M. Leavitt, Kirk E. Kelley, Duane L. Stone, Elizabeth J. Feinler, N. Dean Meyer, Dirk H. Van Nouhuys, Douglas C. Engelbart, James C. Norton, Richard W. Watson, Charles H. Irby,

Dialog Concerning Policing Logins

    2-SEp-75 0341-PDT GEOFF: Your dir.
      Distribution: VANNOUHUYS, peters, geoff
      Received at: 2-SEP-75 03:41:29-PDT   1

        I caught someone logged into your directory this weekend from
      the ISI-Tip though a telnet out of ISI, and as soon as I linked to
      them
      they disconnected on me.
        I suggest you change your password from your initals
      if you value your files.
      [Geoff]   1a

I don't know, but I have a fair suspision who it was logged in as me
from the loggin information...some one at JPL who has been invovlved
in their relations with the Network. In any event anyone who can log
in as me is welcome as far as I'm concerned. It makes me
uncomfortable to think that anyone would approach them in the spirit
of "Now I've caught you". I don't think this is an appropriate place
for a police function and I wish the next time you see anyone logged
in as me you would either offer to be helpful or lay off.   2

Dialog Concerning Policing Logins

(J26353)   2-SEP-75 11:54;;;;   Title: Author(s): Dirk H, Van Nouhuys,
Geoffrey S, Goodfellow/DVN GSG; Distribution: /JCP([INFO-ONLY])
FEEDBACK([INFO-ONLY]) ; Sub-Collections: SRI-ARC NIC FEEDBACK;
Clerk: DVN;   Origin: < VANNOUHUYS, NEWMESS,NLS;9, >, 2-SEP-75
11:13 DVN ;;;;####;

26353 Distribution
Jeffrey C. Peters, Special Jhb Feedback,

Copy Directory Doesn't Work

Instead it tells me "NLS System error".   1

Copy Directory Doesn't Work

(J26354)   2-SEP-75 12:06;;;;   Title: Author(s): Dirk H. Van
Nouhuys/DVN; Distribution: /FEEDBACK([ACTION]) ; Sub-Collections:
SRI-ARC FEEDBACK; Clerk: DVN;

26354 Distribution
Special Jhb Feedback,

No Address for Letter at BBNB Either, Strange File Ownership State
after FTP

Dear Eatforward, After my last message to you I carried my would-be
letter via FTP to BBNBB in the hopes Letter would run there. It
didn't. Besides that, Like a couple of other NLS files (but not txt
files) I have FTP'd in the last few weeks it arrived in my directory
in a strange state of ownership. The default directory is something
called TSCAIR for one thing. For another, If you try to modify the
file it says it is being modified bt NEIGUS(DVN). It says the safe
thing if you show status, but if you update it says there are no
modifications, update unnecessary. It is possible to make a file you
can work with by Update Rename. Neigus presumably has something to
do with our friend the BBN programmer Nancy Neigus who might have
worked on FTP.   1

No Address for Letter at BBNB Either, Strange File Ownership State
after FTP

(J26355)   2-SEP-75 13:34;;;;   Title: Author(s): Dirk H. Van
Nouhuys/DVN; Distribution: /FEEDBACK([ACTION]) NJN([INFO-ONLY])
; Sub-Collections: SRI-ARC FEEDBACK; Clerk: DVN;

26355 Distribution
Special Jhb Feedback, Nancy J. Neigus,

Item on Tables Procedure for Gunter

I forwarded journal item (26332,) to DPCS before I realized that DVN
had rejournalized it as (26352,). So these two items are copies of
the same thing.   ....jeanne   1

Item on Tables Procedure for Gunter

(J26356)   2-SEP-75 18:12;;;;   Title: Author(s): Jeanne M. Beck/JMB;
Distribution: /DPCS([INFO-ONLY]) ; Sub-Collections: SRI-ARC DPCS;
Clerk: JMB;

26356 Distribution

Marilynne A. Sims, Delorse M. Brooks, Elizabeth F. Finney, Beverly
Boli, Joseph L. Ehardt, James H. Bair, Robert N. Lieberman, Pat
Whiting O'Keefe, James H. Bair, Robert Louis Belleville, Ann
Weinberg, Thomas L. Humphrey, Jeanne M. Leavitt, Kirk E. Kelley,
Duane L. Stone, Elizabeth J. Feinler, N. Dean Meyer, Dirk H. Van
Nouhuys, Douglas C. Engelbart, James C. Norton, Richard W. Watson,
Charles H. Irby,

Add Dave Smith to Ident System

Please add to the ident system the new staff member David Smith, his
ident should be DAV and his username will be DAVESMITH, He should be
in the groups SRI-ARC, ARC-DEV, NPG, NSW, Thanks --jon,   1

Add Dave Smith to Ident System

(J26357)   2-SEP-75 18:20;;;;   Title: Author(s): Jonathan B.
Postel/JBP; Distribution: /MLK([INFO-ONLY]) ; Sub-Collections:
SRI-ARC; Clerk: JBP;

26357 Distribution
    Marcia L. Keeney,

Re--33391,>>>How do you use Letter?

Was the change of Letter from a program to a subsystem noted
ANYWHERE? Can an announcement be made now? Distributed to those who
authorize and direct changes to docuentation, Which versions of NLS
was the change made in?   1

Re--33391,>>>How do you use Letter?

(J26358) 2-SEP-75 19:07;;;;   Title: Author(s): Jeanne M. Beck/JMB;
Distribution: /FEEDBACK([ACTION]) DVN([INFO-ONLY]) BEV([
INFO-ONLY]) KIRK([INFO-ONLY]) DSM([INFO-ONLY]) ;
Sub-Collections: SRI-ARC FEEDBACK; Clerk: JMB;

26358 Distribution
   Special Jhb Feedback, Dirk H, Van Nouhuys, Beverly Boli, Kirk E,
   Kelley, David S, Maynard,

Jump to Content Next at Office-1

Is this a bug?   1

    In the third course I have been presenting Jump to Content Next
command as an alternative to the Address expression: "content".
But it does not work the same; Jump to Content Next won't find the
next instance of content in the same statement--starts looking
only in the next statement. I have a printout recording this
problem (or is this the way it's spozed to be?) if you would like
to see it,   1a

Jump to Content Next at Office-1

(J26359)   2-SEP-75 19:16;;;;   Title: Author(s): Jeanne M, Beck/JMB;
Distribution: /FEEDBACK([ACTION]) US([INFO-ONLY]) ;
Sub-Collections: SRI-ARC FEEDBACK US; Clerk: JMB;

26359 Distribution
Special Jhb Feedback, Susan Gail Roetter, Priscilla A. Wold, Jeanne
M. Beck, Pamela K. Allen, Rita Hysmith, Sandy L. Johnson,

Locator and Catalog file problem

Forward this to someone who can fix and who will notify me when it is
fixed. Thank you

Locator and Catalog file problem

When you follow the TNLS directions for getting to the Titleword
indicies in Locator, i,e,, typing
     Print Branch A: 7f3 ,1 <CR> V: <CR>
you will arrive at the first branch of that catalog file where the
first titleword entry under "A" (like "Aardvark") will print, And
there you are; what do you do next? This confuses new users because
they have been getting instructions from Locator as to how to get
around, but there are no instructions at this point, nor explanations
of why a reference to aardvark printed,   1

This happens because the link in (userguides, locator, 7f3) goes to
something like (catalogfile,1:w), Shouldn't this link NOT go to
statement 1 but rather to an instructions branch or at least to
statement 0?   2

There are similar problems for the other catalog files referenced,   3

Locator and Catalog file problem

(J26360)   2-SEP-75 19:34;;;;   Title: Author(s): Jeanne M. Beck/JMB;
Distribution: /FEEDBACK([ACTION]) ; Sub-Collections: SRI-ARC
FEEDBACK; Clerk: JMB;

26360 Distribution
    Special Jhb Feedback,

DNLS hurdle

The response to the ? mark typed at BASE command level in DNLS does
not all fit on the screen once, so that if you see the command you
want, like l for load, you can't just type it, but have to type a CD
or CA first   This breaks the rhythm of using the ? feature; you have
to do someting else before you can do what you usually do. This
confused my new DNLS users in class; they had learned that they
could just type the letter when they saw the command they wanted,   1

DNLS hurdle

(J26361)   2-SEP-75 19:57;;;;   Title: Author(s): Jeanne M. Beck/JMB;
Distribution: /FEEDBACK([ACTION]) ; Sub-Collections: SRI-ARC
FEEDBACK; Clerk: JMB;

26361 Distribution
    Special Jhb Feedback,

More AFMFormat, glossary, and Help

Documentation weekly report for week ending AUG 29, 1975

More AFMFormat, glossary, and Help

Bev	1
This Week	1a
Final review of Format SS.	1a1
Fixed up another Glossary screw-up.	1a2
Continued working on Base file in Help.	1a3
Next Week	1b
Print Sec. Func. Guide if master of Preface is available.	1b1
Continue working on Base file in Xhelp.	1b2
Kirk	2
Done	2a
Ground my wheels trying to get AFM files formatted to meet some deadlines. Didn't make it in any of the cases.	2a1
Made more changes in the AFMFormat tool.	2a2
Went over Help needs with Jan.	2a3
Do	2b
Do Tabs scenario using the new space for tabs feature.	2b1
Finish getting Help files in order for bringing up 8.5.	2b2
Write the step by step DPCS procedures for the Air Force Manual.	2b3
Continue to add bells, whistles, and necessary changes to AFMFormat.	2b4
Decide for sure whether or not to punt the Letter Program.	2b5
Transfer to Jan of Help and Class-I user programs.	2b6
Put the current list of development documentation on line.	2b7

More AFMFormat, glossary, and Help

(J26362)   2-SEP-75 23:00;;;;   Title: Author(s): Kirk E, Kelley/KIRK;
Distribution: /SRI-ARC([INFO-ONLY]) DIRT([INFO-ONLY]) DMB([
INFO-ONLY] dirt) ; Sub-Collections: SRI-ARC DIRT; Clerk: KIRK;

26362 Distribution

Douglas C. Engelbart, Martin E. Hardy, J. D. Hopper, Charles H. Irby,
Harvey G. Lehtman, James C. Norton, Jeffrey C. Peters, Dirk H. Van
Nouhuys, Kenneth E. (Ken) Victor, Richard W. Watson, Don I. Andrews,
Jonathan B. Postel, Priscilla A. Wold, Rita Hysmith, Pamela K. Allen,
Delorse M. Brooks, Elizabeth F. Finney, Beverly Boli, Lawrence A.
Crain, Kirk Sattley, Susan Gail Roetter, Robert N. Lieberman, Ann
Weinberg, Kenneth E. (Ken) Victor, Douglas C. Engelbart, James H.
Bair, Elizabeth K. Michael, Richard W. Watson, Elizabeth J. Feinler,
Harvey G. Lehtman, Kirk E. Kelley, Laura E. Gould, Jeanne M. Beck,
Dirk H. Van Nouhuys, James C. Norton, Delorse M. Brooks
David C. Smith, Mary Ann Kellan, Buddie J. Pine, Andy Poggio, David
L. Retz, Laura J. Metzger, Karolyn J. Martin, Jan A. Cornish, Larry
L. Garlick, Priscilla A. Wold, Pamela K. Allen, Delorse M. Brooks,
Beverly Boli, Rita Hysmith, Log Augmentation, Joseph L. Ehardt,
Raymond R. Panko, Susan Gail Roetter, Robert Louis Belleville, Rene
C. Ochoa, Ann Weinberg, Adrian C. McGinnis, Robert S. Ratner, David
S. Maynard, Robert N. Lieberman, Sandy L. Johnson, James H. Bair,
Jeanne M. Leavitt, Rodney A. Bondurant, Jeanne M. Beck, Marcia L.
Keeney, Elizabeth K. Michael, Jonathan B. Postel, Elizabeth J.
Feinler, Kirk E. Kelley, N. Dean Meyer, James E. (Jim) White

DRAFT Account of Commands Branch and Runfile to Collect Messages from
Several Sites into NLS

Can you make you own on the basis of this? Please comment,

DRAFT Account of Commands Branch and Runfile to Collect Messages from
Several Sites into NLS

The commands group uses the Run TENEX Subsystem command of the
Programs Subsystem to run FTP, In the command statement beginning
"Exe pro" the options are taken as follows: the output mode is
Teletype so you can see if something is happening, the Input mode is
a TENEX Text file that I will explain below, and you answer "yes" to
"Wait for completion?" to help with cross-site timing problems, The
statement beginning "Exe Mes" moves the text file that contains the
imported messages into NLS with the move message command of the
Message Subsystem, The essential commands group that does this is as
follows, You have to fill in file names for your directory,   1

    Exe pro run ten ftptel fil FILENAME.TXT;yes   1a

    Exe Mes Mov Mes FROMSITE.TXT;   1b

The text file need to run FTP works like a runfile, that is it feeds
characters to TENEX one by one, although it differs in small ways
from a real run file, It uses FTP to log into another site, draw the
message file back to the home site where it gives it an arbitrary
name, then deletes the message file at the foreign site (to keep
messages from building up) and returns control to NLS, An NLS
statment that will serve as a source for the text file follows with
generalized words in upper case where you must put in specific words
to make yours fit: 2

    connect SITENAME
    log USRNAME PASSWORD ACCOUNT#
    get message.txt;
    ARBITRARYNAME.TXT;

    delete message.txt;
    Yquit
    full
    quit

                                                                              2a

    You must make one commands statement and one runfile for each
    site, To work, the statements and branches must be exactly as
    above, character by character including spaces and carriage
    returns, except for varialbe names, idetns, etc, To make a
    statement like the NLS statement above into a proper text file the
    easiest process is to creat a separate NLS file with only that one
    statement, locate yourself at character one of the statement, and
    then use the Output Sequential File command, The sequential file
    you create should have the name called for in the NLS commandns
    statement,   2b

    I use the process that collets messages from other sites in the

DRAFT Account of Commands Branch and Runfile to Collect Messages from
Several Sites into NLS

context of a branch that collects all my messages into an NLS
file. For example here is my whole commands branch.   Note that
it controls FTP with txet files with names like suckisic, which
create   text files like fromisic.txt;   which contain the messages
and assumes existing NLS files called newmess and oldmess,   2c

    mess   2c1

       Mov Ple (newmess,1) (oldmess,)   2c1a

       Jum Lin (oldmess,)   2c1b

       Upd Fil Old   2c1c

       Exe Pro Loa Pro message   2c1d

       Jum Lin (vannouhuys,newmess,:w)   2c1e

       Exe Mes Mov Mes vannouhuys,message,txt;   2c1f

       exe pro run ten ftptel fil suckoffice-1.txt;yes   2c1g

       Exe Mes Mov Mes vannouhuys,fromoffice-1.txt;   2c1h

       exe pro run ten ftptel fil suckisic.txt;yes   2c1i

       Exe Mes Mov Mes vannouhuys,fromisic.txt;   2c1j

       Update Fil Old   2c1k

Dick Watson employs a similar branch which also reformats and
prints the collected messages: 2d

    (dicksmess)   2d1

       Con Dir watson rww   2d1a

       cop fil message.txt;1;holdmess.txt;   2d1b

       Mov Ple (newmess,1) (oldmess,)   2d1c

       Jum Lin (oldmess,)   2d1d

       Upd Fil Old   2d1e

       Got Pro Loa Pro message   2d1f

       Jum Lin (watson,newmess,)   2d1g

DRAFT Account of Commands Branch and Runfile to Collect Messages from
Several Sites into NLS

Got Mes	2d1h
Mov Mes watson,message.txt;	2d1i
exe pro run ten ftptel fil dicksoffice-1.txt;yes	2d1j
Exe Mes Mov Mes watson,fromoffice-1.txt;	2d1k
exe pro run ten ftptel fil dicksisic.txt;yes	2d1l
Exe Mes Mov Mes watson,fromisic.txt;	2d1m
Sor mes 1	2d1n
Qui To Bas	2d1o
sub tex ple 1 n n n n y	2d1p
Upd Fil Old	2d1q
Set vie nwjl	2d1r
Out Qui	2d1s

The whole commands branch mess takes about one cpu minute to run
and about 5 clock minutes with moderate loads. If a host is dead
the process goes on. If there are no messages at a foreign site
the process goes on with messages from FTP including "File not
found". There have been some problems with processes similar to
this failing because of cross-site timing problems. This verson
has run about 50 times without failing.   2e

DRAFT Account of Commands Branch and Runfile to Collect Messages from
Several Sites into NLS

(J26363) 2-SEP-75 23:06;;;;   Title: Author(s): Dirk H. Van
Nouhuys/DVN; Distribution: /JMB([ACTION]) SGR([ACTION]) POOH([
ACTION]) ; Sub-Collections: SRI-ARC; Clerk: DVN;   Origin: <
VANNOUHUYS, MYLIN.NLS;120, >, 2-SEP-75 23:01 DVN ;;;;####;

26363 Distribution
   Jeanne M, Beck, Susan Gail Roetter, Ann Weinberg,

Suugestion on Strange File Ownership

it's still a bug,

Suugestion on Strange File Ownership

Eatingback my previous words, Jon Postel suggestes that the origen of
the strange file ownership arises as follows. My files at office 1
had partial copies. FTP forwarded that information in the file
header where it lives as directory numbers. But directory numbers do
not refer to the same directories at differebt sites. Nancy
Neigus's name appeared becuase she has the smae directory number at
BBN that I have at Office-1. The weird defualt for links the same
way.   1

Suugestion on Strange File Ownership

(J26364)   2-SEP-75 23:13;;;;   Title: Author(s): Dirk H, Van
Nouhuys/DVN; Distribution: /FEEDBACK([ACTION]) NJN([INFO-ONLY])
; Sub-Collections: SRI-ARC FEEDBACK; Clerk: DVN;

26364 Distribution
Special Jhb Feedback, Nancy J, Neigus,

Space May Separate a Directive from its Delimiters

Dean Meyer sent me a message in response to (33387,) that it does not
matter if spaces intervene between the delimiters of an Ouptput
Processor Directive and its text, I tried a few and it appears he is
right, That leaves a further question: how much faster would the
Output Processor run if whenever it saw a delimiter followd by a
space it knew that it was not seeing a directive and went on to the
next character? This is a suggestion, I have never heard of anyone
intentionally inserting a directive including spaces outside the
text,   1

Space May Separate a Directive from its Delimiters

(J26365)   2-SEP-75 23:37;;;;;   Title: Author(s): Dirk H, Van
Nouhuys/DVN; Distribution: /FEEDBACK([ACTION]) DPCS([INFO-ONLY])
; Sub-Collections: SRI-ARC FEEDBACK DPCS; Clerk: DVN;

26365 Distribution
   Special Jhb Feedback, Marilynne A. Sims, Delorse M. Brooks, Elizabeth
   F. Finney, Beverly Boli, Joseph L. Ehardt, James H. Bair, Robert N.
   Lieberman, Pat Whiting O'Keefe, James H. Bair, Robert Louis
   Belleville, Ann Weinberg, Thomas L. Humphrey, Jeanne M. Leavitt, Kirk
   E. Kelley, Duane L. Stone, Elizabeth J. Feinler, N. Dean Meyer, Dirk
   H. Van Nouhuys, Douglas C. Engelbart, James C. Norton, Richard W.
   Watson, Charles H. Irby,

weekly report

3-September-75   1

 Last Week   1a

  nsw protocols   1a1

   -worked not at all on updating the file package document as
   agreed to at the june protocol meeting   1a1a

  project management   1a2

   -Meeting Notes   1a2a

    +General discussion, not much focus, but did touch on the
    need to make the air force nsw/nls users happy for our
    continued support, a brief review of coming milestones,   1a2a1

   -Continued work on collecting currently relavent Design
   Documents,   1a2b

   -Continued the work on a shopping list of proposal ideas,   1a2c

  arpa protocols   1a3

   -went to DC (26&27 Aug) to discuss DCAs AUTODIN II protocol
   proposal,   1a3a

    Served on a committee of arpa network protocol "experts"
    to review a "request for proposal" prepared by DCA for
    the construction of the AUTODIN II network,   1a3a1

 Next Week   1b

  nsw protocols   1b1

   -complete updating the file package specification documents   1b1a

  project management   1b2

   -collect the set of design documents, transmit the table of
   contents to COMPASS   1b2a

   -reallocate the funds among the project account numbers to
   refelect the new reality (or unreality, depending on your
   point of view),   1b2b

   -prepare a note relating project account numbers to contract
   work statement tasks   1b2c

weekly report

    -prepare a "shopping list" of ideas for next proposal round, 1b2d

    -review reporting reqirements of current contract 1b2e

    -prepare to finalize current contract 1b2f

    -revise and refine milestones 1b2g

  arpa protocols 1b3

   -read INWG notes 1b3a

   -read Network Measurement notes 1b3b

   -write a chapter on protocols for the "arpa book" 1b3c

weekly report

(J26366) 3-SEP-75 14:21;;;; Title: Author(s): Jonathan B.
Postel/JBP; Distribution: /ARC-DEV([INFO-ONLY]) ; Sub-Collections:
SRI-ARC ARC-DEV; Clerk: JBP;

26366 Distribution

David C. Smith, Mary Ann Kellan, Andy Poggio, David L. Retz, Jan A. Cornish, Larry L. Garlick, Delorse M. Brooks, Beverly Boli, James E. (Jim) White, Ann Weinberg, Kenneth E. (Ken) Victor, Dirk H. Van Nouhuys, Jonathan B. Postel, Elizabeth K. Michael, David S. Maynard, Karolyn J. Martin, Harvey G. Lehtman, Kirk E. Kelley, Charles H. Irby, Joseph L. Ehardt, Robert Louis Belleville, Don I. Andrews, Richard W. Watson, Douglas C. Engelbart,

a potential ARC 'product': a CLI/CML self contained package

I believe that the concepts of CML and the CLI are useful concepts in
and of themselves, independent of the NSW environment of a frontend
backend multi process/host implemenatation.   1

   They aught to be useable in the same address space of a larger
   process and in this environment could provide for the user
   interface of this larger process.   1a

I think we should give serious consideration to releasing a CLI/CML
package as a separate ARC "product".   2

   This product could be used in applications outside of NSW and
   perhaps aid in the debugging of future tools for the NSW.   2a

   It would probably be easier to integrate (in a NSW consistant
   manner) new tools written using this CLI/CML package for a non NSW
   environment than to integrate tools that use a different approach
   for the user interface.   2b

   (These uses come to mind without too much thought).   2c

(I would guess that it would take 1-3 man-months of additional effort
to produce a CLI that interfaced to routines in its own address
space, as opposed to the use of MSG, or DPS, and that in the long run
that this effort would be well worth it to ARC.   3

   I think that we all agree, in hindsight, that we made a big
   mistake in keeping L10 as a local tool 5 years ago, and had we
   distributed L10 then, MCA, and BBN, and others, would probably be
   using L10 now instead of BCPL.)   3a

1

a potential ARC 'product': a CLI/CML self contained package

(J26367) 3-SEP-75 11:55;;;;   Title: Author(s): Kenneth E. (Ken)
Victor/KEV; Distribution: /NPG([ACTION]) RWW([ACTION]) DCE([
ACTION]) JCN([ACTION]) ; Sub-Collections: SRI-ARC NPG; Clerk:
KEV;

26367 Distribution
David C, Smith, Andy Poggio, David L, Retz, Jan A, Cornish, Larry L,
Garlick, Robert Louis Belleville, Elizabeth J, Feinler, Joseph L,
Ehardt, Jonathan B, Postel, Kirk E, Kelley, Karolyn J, Martin, David
S, Maynard, Kenneth E, (Ken) Victor, James E, (Jim) White, Elizabeth
K, Michael, Don I, Andrews, J, D, Hopper, Charles H, Irby, Harvey G,
Lehtman, Richard W, Watson, Douglas C, Engelbart, James C, Norton,

The SRI-ARC Workshop Utility Service: What and Why

This paper is an updated version of <24031,> of Oct 74 with same title.
I (RLL) would welcome comments on it since I plan to rewrite it soon.
Thank you, Rob.

The SRI-ARC Workshop Utility Service: What and Why

James C. Norton

10 SEP 75

Augmentation Research Center
Stanford Research Institute
Menlo Park, California 94025

TABLE OF CONTENTS   PARAGRAPH

I INTRODUCTION

2

The Augmentation Research Center (ARC) at Stanford Research
Institute (SRI) has developed, over a period of years under
government sponsorship, a general-purpose interactive
augmentation system centering about what we now call an
"Augmented Knowledge Workshop," abbreviated below as
"Workshop." The goal of ARC's work has been to evolve a
prototype workshop system that will significantly improve the
performance of individuals and teams engaged in knowledge-work
activities, where the workshop "system" involves daily use of
coordinated tools, procedures, methodologies, and languages.   2a

For further background, see [9], [15], and other references in
Section VIII.   2b

II THE ARC "COMMUNITY PLAN"

3

ARC is a one-organization community of researchers and system
developers, supported by several different contracts. The
research and development activities of ARC are aimed at
exploring the possibilities for augmenting individuals and
groups in the performance of knowledge work with the help of
computer aids. These aids range from offline batch to online
real-time in nature. Exploratory development and operation of
augmentation systems have been our substantive work.   3a

ARC's Initial Research and Development Strategy   3b

    The researchers within ARC do as much of their work as
    possible using the range of capabilities offered. Thus they
    have served not only as researchers, but also as the
    subjects for the analysis and evaluation of the augmentation
    systems that they have been developing. Consequently, an
    important aspect of the augmentation work done within ARC is
    that the techniques being explored are implemented, studied,
    and evaluated with the advantage of intensive everyday use.
    We call this research and development strategy
    "bootstrapping."   3b1

    In our experience, complex man-machine systems can evolve
    only in a pragmatic mode, within real-work environments
    where there is an appropriate commitment to conscious,
    controlled, and exploratory evolution. For over ten years
    the evolution of our "augmented knowledge workshop" system
    has developed within such an environment.   3b2

The Next Stage in ARC's Research and Development Strategy   3c

The next stage application is now underway. We are
continuing to involve a wider group of people so that we can
transfer the fruits of our work to others, and so that we
can obtain feedback needed for further evolution from a
wider spectrum of applications than is possible in our
Center alone. We are providing Workshop support service to
selected groups who are willing to take extra trouble to be
exploratory, but who: 3c1

1) are not necessarily oriented to being Workshop system
   developers (they have their own work to do),   3c1a

2) can see enough benefit from the system's application
   and from the experience of trying it so that they can
   justify the problems they will encounter as
   "pioneering" users, and   3c1b

3) can accept our assurance that reliability, system
   stability, and technical application help will meet
   their conditions for risk and cost.   3c1c

Establishing a Workshop Utility and providing the type of
service work proposed herein are part of ARC's long-term
commitment to pursue the continued development of augmented
knowledge workshops in a pragmatic, evolutionary manner. Our
last few years of work have concentrated on the means for
delivering support to a distributed community, for providing
teleconferencing and other basic processes of collaborative
dialogue, etc.--consciously aiming toward having experience and
capabilities especially applicable to support remote and
distributed groups of exploratory users for this next stage of
wider-application bootstrapping.   3d

III ELEMENTS OF THE WORKSHOP UTILITY SERVICE   4

The service includes: 4a

   Providing training as appropriate in the use of the ARC
   online system (NLS): Display NLS (DNLS), Typewriter NLS
   (TNLS), and Deferred Execution (DEX) software subsystems.   4a1

   Providing technical assistance to subscribing-organizations'
   "Workshop Architects" in the formulation, development, and
   implementation of augmented knowledge work procedures within
   their selected offices.   4a2

   This technical assistance includes help in the development
   of NLS use strategies suitable to each organization's
   environment, procedures within each organization for
   implementing these strategies, and possible
   special-application NLS extensions (or simplifications) to
   handle the mechanics of particular user needs and
   methodologies.   4a3

The service also includes (and is based upon) the availability
20 hours a day, 7 days a week of Workshop Utility computer
service via the ARPANET from a PDP 10 TENEX system operated by
commercial facility management companies, Tymshare, Inc. based
in Cupertino, California and Bolt, Beranek, and Newman Inc.
(BBN), based in Boston, Mass.   4b

IV   DISCUSSION OF THE WORKSHOP UTILITY SERVICE

5

Objective   5a

The focus of our efforts is on working with subscribing
organizations' personnel in the mutual development and use
of procedures, methodology, software features, and other
online tools; and on the training of users that will allow
their exploratory use of augmented workshop systems. This
objective has the following key components: 5a1

1) Building a user group (a community of individuals and
organizations) whose members will find real value in
applying the service, and whose participation will
contribute to their organizations' goals both directly
(by making the users' own activities more effective) and
indirectly (by accelerating the maturation and acceptance
of augmented knowledge workshop techniques).   5a1a

2) Developing ARC's know-how and capability for
integrating innovation with new-development transfer.   5a1b

Scope of the Workshop Utility Service   5b

We consider it now appropriate for the technology, as
currently developed, to be used by people from a number of
organizations in their day to day work over an extended
period of time.   5b1

The types of Workshop services that we support at varying
levels of capability are described in [15] under the
headings: 5b2

Collaborative Dialogue   5b2a
Document Development, Production, And Control   5b2b
Research Intelligence   5b2c
Community Handbook Development   5b2d
Computer-Based Instruction   5b2e
Meetings And Conferences   5b2f
Community Management And Organization   5b2g
Special Knowledge Work By Individuals And Teams   5b2h

Our present capabilities in the above areas are briefly
indicated in [9] and [15]. For each area, there is an
immediate applicability of the basic NLS provisions for
composing, modifying, studying, publishing, collaborating,
etc., and we have additional special provisions specifically
supporting almost every area. We are dedicated to

continuing the evolution of each area in a persistent,
year-after-year strategy where the profile of evolutionary
effort expended at any given time over the array of
application specialties is to be responsive to the profile
of application needs and values of the user community.   5b3

Technology Transfer   5b4

We are transferring technology from our local group of
experienced users to a wider group of inexperienced,
geographically separate users. This technology consists
of online software capabilities, a coordinated repertoire
of online-assistance tools, associated concept and
language additions dealing with the tools and with the
information organization and task processes associated
with their use, new aspects to intragroup organization
and working methodology. Training a group in use of this
new technology is necessary to the transfer, and to help
others learn to train people in the new technology
requires a transfer of the additional technology used to
support the training.   5b4a

The process of technology transfer is not simple, judged
by our and others' experiences. We base our "Community
Plan" strategy upon our understanding that there are at
least two main requirements for a successful transfer
process that proceeds at a reasonable speed and cost: 5b4b

   1) The group originating the technology and having
      the experience, enthusiasm, and initial commitment
      to its value must follow through with training and
      application support of the end user groups until a
      critical mass of equivalently experienced and
      enthusiastic end users has developed.   5b4b1

   2) The end user groups must each have at least one
      properly placed, active supporter of the transfer
      process. We have been using the term "local
      Workshop Architect" for this role.   5b4b2

We give particular emphasis to this second
requirement--that each coherent group planning to
integrate the proposed services into its working life
should have at least one member serving as a "Workshop
Architect." The function of this person is to be familiar
in detail with both the needs of his or her organization
and the capabilities we are proposing. The Architect
knowing his group's needs and our capabilities, will help
introduce a workshop system into his organization (in

appropriate evolutionary stages), meeting these needs.
ARC personnel work closely with the Workshop
Architect--in training him, in initially giving him
significant help in his role, and in a continuing
exchange of technical information.   5b4c

The labor-funding levels in our service proposals to
clients are based on the assumption that when a client
group is allocated a portion of the Utility Online
Services, a corresponding allocation of direct
technical support will go primarily to its Workshop
Architect. Most of the responsibility for integrating
the Workshop service into his organization or
community is handled by this person.   5b4c1

For any group of users we expect evolutionary growth of
their Workshop service application, in both quantity and
range. This growth will take guidance and support of the
sort that in the commercial computer world would be
offered by the applications specialists and "systems
engineers." These people work with the end user
organizations in integrating the manufacturer's or
service company's technology into its operations. To
follow through with our Community Plan, it is essential
that ARC offer a similar service. This will be one of our
biggest challenges in further developing the Workshop
Utility Service.   5b4d

Services Offered   5b5

    The Workshop Utility service consists of two components:
    computer support and people support,   5b5a

    Computer Services   5b5b

        The Underlying Computer Service Support   5b5b1

            We offer a Workshop Utility version of ARC's online
            system (NLS), serviced over the ARPANET (or by
            direct telephone lines for non-ARPANET users), at
            least 20 hours a day, seven days a week. NLS
            features are described in the documents listed in
            Section VIII,   5b5b1a

            This service is provided by a computer system
            operated and managed by commercial timesharing
            utility companies (Tymshare, Inc, and BBNB), rather
            than from a system directly operated by ARC, There
            are two important reasons for this arrangement: 5b5b1b

                1) A commercial firm has the experience,
                facilities, leverage on vendors, and redundant
                equipment that make possible more reliable
                service than can be produced in our research and
                development environment,   5b5b1b1

                2) It will be possible to expand the service in
                a more flexible manner in increments of whole or
                partial machines as usage grows,   5b5b1b2

        Service Partitioning   5b5b2

            We are currently using a computer-based "group
            allocation" scheme for partitioning online access
            and service between groups of users, This
            guarantees each group its fair share of access to
            system resources while preserving both adequate
            responsiveness and independence for each group to
            plan its own usage loading,   5b5b2a

        File Privacy   5b5b3

            The Workshop Utility provides (via the ARPANET) the
            necessary standard TENEX software and facility
            operating procedures to ensure reasonable privacy
            of file access, NLS additionally provides to users
            the ability to specify which other users may have

access to any specific file. However, the
visibility and availability of planning information
and other recorded dialogue in ARC's currently open
Journal System provides some of the more
significant potential of our Workshop.   5b5b3a

ARC online-service personnel will access clients'
user files at a client's request only, as required
from an operational standpoint; however, other
users of the Workshop Utility Service are denied
read, write and list access to a client's files,
unless he specifically releases files for general
use.   5b5b3b

People Support Services   5b5c

We are still learning about the requirements for
people support services (in amount and nature)
required for a successful Workshop Utility service,
particularly in the direct client support category.   5b5c1

Direct Client Support Services   5b5c2

The clients' users must be trained to varying
levels of competence, depending upon the nature of
their jobs and the tasks they perform. Some new
procedures and methods are being developed and
learned to allow effective use of the system in
users' working environments. Specifying these
procedures requires ARC help in analyzing each
group's needs and present operations.   5b5c2a

Therefore the following types of services are
required: 5b5c2b

Assistance to each client in training their
initial users to a beginning level of
proficiency.   5b5c2b1

Assistance in training Utility clients to make
special use of the system for applications that
are peculiar to their user environments.   5b5c2b2

Assistance to Utility clients in developing
related documentation, procedures, records, and
methods as needed locally to support their
special use of the system.   5b5c2b3

Help for the above areas may come in several forms: 5b5c2c

Sessions at SRI for training and
application-system design.   5b5c2c1

Brief residency of SRI personnel at client sites
to offer analytic or design help and training.   5b5c2c2

"Circuit riders" who periodically visit client
sites to discuss problems, receive feedback on
how to improve the service, and offer training
or analytic help.   5b5c2c3

Indirect Client Support Services   5b5c3

The entire operation, including the interface
between the Utility and the clients, requires
competent administration.   5b5c3a

Documentation of the basic user features of the
system and of their application techniques needs to
be complete and must have various special versions
tailored to particular types of users.   5b5c3b

The version of NLS that runs on the Utility must
have effective maintenance and quality assurance.
A systematic means of integrating new and useful
features from the development version of the system
into the version running on the Utility is being
provided.   5b5c3c

Clerical support of various types is needed.   5b5c3d

V   SUBSCRIBING ORGANIZATIONS   6

Present Subscribers

[Funded "slots" or single "shares": each about $40k/year level]

6a

RADC   slots: 5   Rome Air Development Center (Air Force)   6b

Over 30 users at RADC concentrating on management system use,
software engineering, and document production with the goal of
matching the capabilities of NLS and its related methodologies to
Air Force "knowledge-worker" needs.   6b1

Bell Canada   1   Business Planning Group   6c

About 10 users at Bell concentrating on online communications and
document production with the goal of gaining first-hand experience
with these new techniques and assessing the possibilities for and
impacts on communications services that may be provided in the
future.   6c1

ARPA   5   General ARPA use and National Software Works   6d

Many ARPA users use USC-ISI and BBN-TENEX computer systems for
online message service (SNDMSG, READMAIL, TECO, and RD). Over 50
directories have been established at OFFICE-1 for purposes of
backup for those needs and as a step toward the gradual
introduction of NLS into ARPA offices. Over 35 ARPA people have
started using NLS in their work during the past few months. We
expect an increasing use in program management activities by ARPA
people, using techniques based on the capabilities in NLS and on
specially developed methodology. In addition, the ARPA/Air Force
National Software Works (NSW) program is just beginning and will
grow into a significant effort with NLS Utility use as a core for
many developmental and communication functions.   6d1

ETS   1   ARPA: Educational Testing Service   6e

ETS is using NLS for document production, correspondence
management, and structured data base design construction for
publishing filtered subsets.   6e1

NIC   1   ARPA: Network Information Center Users   6f

This is the set of ARPA Network Information Center (NIC) users who
were previously been served through the SRI-ARC computer. Their
specialized online NIC service is now being provided from OFFICE-1

(over 40 user sites). The data base is being produced and accessed
through NLS.   6f1

Seismic   2 ARPA: Seismic Data Mgt System Development   6g

The Seismic Data Management System Development (SDMS) effort, part
of the ARPA VELA program, is beginning to use NLS as the basis of
dialogue among participants in the VELA program and as the basis
for a set of files that will aid users of the Seismic Data system
to find information about resources that will enable them to use
the data being collected by the system.   6g1

BRL   1 Ballistic Research Laboratories (Army)   6h

BRL is starting to explore application of Workshop technology to
their operations. Document production, team dialogue, and
personal information management are most likely initial areas of
use.   6h1

Hudson   1 Hudson Institute (ARPA subcontract)   6i

Hudson is starting to explore application of Workshop technology
to the online and hardcopy production of foreign country profile
documents under an ARPA contract. NLS will also provide a
communications link with their ARPA project monitors.   6i1

NSRDC   2 Naval Ship Research and Development Center   6j

NSRDC is exploring the application of Workshop technology to their
operations. Document production, team dialogue, and personal
information management are the initial areas of use.   6j1

SRI   1 Stanford Research Institute   6k

SRI management is starting to explore application of Workshop
technology to their own operations. Document production,
distributed project team dialogue, and personal information
management are most likely initial areas of use.   6k1

NSA   1 National Security Agency   6l

NSA is starting to explore application of Workshop technology to
their operations related to the design and building of the NSAnet.
Document production, distributed project team dialogue,
information center services and personal information management
are most likely initial areas of use.   6l1

They are expected to have an entire in-house machine dedicated for
users of NLS.   6l2

AMC   3   Army Materiel Command HQ   6m

    AMC is initially exploring the use of our AKW system for
    inter-office mail and personal information management.   6m1

NSW   3   AF Data Systems Design Center and
AF Data Services Center   6n

    These Air Force organizations (AFDSC at the pentagon and AFDSDC at
    Gunter AFB) are heavily using our service for documentation
    production and control. Eventually these sites will be the
    prototypes for the National Software Works (ARPA and Air Force
    sponsored project).   6n1

Other Prospective Applications: 6o

AFAA	Air Force Audit Agency	6p
DCA	Defense Communications Agency	6q
DDC	Defense Documentation Center	6r
DL-OSH	Dept of Labor-Occup, Safety & Health NIOSH-related	6s
DOI	Dept, of Interior, Office of ADP management	6t
DOT	NE Corridor Study and other applications	6u
IBM	Active in Structured Programming - RADC related	6v
NBS	National Bureau of Standards - previous users	6w
NIOSH	Interest both at SRI and at NIOSH: documentation	6x
NSF	Support of staff personnel	6y
PTI	Public Technology, Inc,	6z
USGS	U,S, Geological Survey distributed researchers	6a@

VI ACCOUNTING AND BILLING

7

Basic Contractual Arrangements: 7a

Clients are charged on the basis of direct and indirect services
rendered,   7a1

   The basic charge is $40,000 per year for each single "group
   allocation share" or "slot" of the Office-1 computer at all
   times the system is currently scheduled to be available for use
   (20 hours/day, 7 days/week). This also covers direct and
   indirect people services.   7a1a

Direct charges related to training and advising clients   7b

Training and consulting with clients and their users are performed
from ARC's Menlo Park site, at the clients' sites, and at times
from other locations (while ARC staff are travelling) using the
ARPANET facilities. Such assistance is provided in planned
day-long sessions, in relatively short, but fruitful terminal
and/or telephone links, and in written dialogue transmitted
through the computer system (SNDMSG and Journal).   7b1

As additional subscribers join the user community, costs related
to these activities will be charged directly to each client
contract,   7b2

Indirect (common) costs of facility and its operation   7c

Software maintenance and coordination with Tymshare and BBN
software staff, administration and day-to-day operational
supervision and analysis of the service, special documentation for
users, and Journal and other file management are activities shared
by all users. Due to the complex nature of this advanced
technology, we have found that considerable effort is required to
make the service run smoothly, although the effort required is
decreasing as better methodology is developed and as we grow more
effective in these new roles,   7c1

Costs related to these indirect activities are being charged to a
common account with each client contract being charged for its
share on a "percentage of total client-user guaranteed access"
basis,   7c2

Access guarantee, its nature and effect   7d

The Office-1 Workshop computer system guarantees users login
access according to the proportion of overall funding their

organizations have provided. For instance the RADC allocation
group is guaranteed 10 logged-in jobs all 20 hours each day.   7d1

In addition, to encourage more efficient use of overall system
resources when other groups are not using their full allocations,
additional RADC users (and other users) may login on an
"off-quota" status. If users from the other groups subsequently
login to fill their own allocations, the most recently logged in
off-quota users are logged off by the system (one-by-one) after a
warning message and time period for each. This arrangement appears
to result in higher use of the total resources with an evening-out
effect between client groups over periods of a week or more.   7d2

In addition, up to 2 users may at all times "elog" (express logon)
in for periods up to 7 minutes for quick message reading and
sending sessions. This is becoming important to users who are
relying more and more heavily upon the system for their daily
work.   7d3

Another system feature is "autologout." Jobs that have no
terminal input or system output in a 15 minute period are
automatically logged off with adequate notification. This
arrangement has worked to ensure that only active jobs are logged
in, resulting in better utilization of the allocated job slots.   7d4

A single group allocation share, its meaning   7e

A single allocation share represents 3% of the available computer
central processing resource. The "pie-slice scheduler", part of
the Tenex operating system, insures that the collection of
logged-in users under a particular group allocation receive at
least the group's share.   7e1

For example, the RADC group has 5 shares, so it is guarenteed at
least 15% of the central processor resource.   7e2

Excess central processing resources will be distributed to each
logged-in user job.   7e3

VII SUMMARY COMMENTS   8

ARPA and other government agencies have provided a considerable
amount of funding for the development of the ARC Workshop technology
during the past 12 years. The Workshop Utility Service provides an
effective medium for transfer of this technology to government,
commercial, and educational organizations, thereby returning useful
results from the investment. As the community of using organizations
grows, this return will become increasingly more significant. It is
ARC's goal that these effects will be widespread in our society, both
through direct use of the Workshop Utility and from use of related
systems incorporating some aspects of the technology being developed
here.   8a

One of the most significant resources being developed by the user
community is the common Journal dialogue data base. As this grows in
size and interconnectedness, it will become a very rich collection of
information, aiding continuing community members and providing more
efficient introduction to the technology and other information on a
wide range of subjects to new members. At present, there are over
25,000 Journal entries. It is the shared nature of this data base
and the sharing of both system and people resources that will
accelerate the introduction of these techniques. As the community
grows in size, we must find new, appropriate ways for handling shared
costs and other business matters.   8b

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The SRI-ARC Workshop Utility Service: What and Why

The SRI-ARC Workshop Utility Service: What and Why

(J26368) 10-SEP-75 14:31;;;;   Title: Author(s): James C. Norton/JCN;
Distribution: /SRI-ARC([INFO-ONLY]) ; Sub-Collections: ARC-LOG NIC
SRI-ARC; Clerk: RLL;   Origin: < ARC-LOG, X26368,NLS;1, >,
8-SEP-75 19:07 RLL ;;;;
####;

26368 Distribution

Douglas C. Engelbart, Martin E. Hardy, J. D. Hopper, Charles H. Irby, Harvey G. Lehtman, James C. Norton, Jeffrey C. Peters, Dirk H. Van Nouhuys, Kenneth E. (Ken) Victor, Richard W. Watson, Don I. Andrews, David C. Smith, Mary Ann Kellan, Buddie J. Pine, Andy Poggio, David L. Retz, Laura J. Metzger, Karolyn J. Martin, Jan A. Cornish, Larry L. Garlick, Priscilla A. Wold, Pamela K. Allen, Delorse M. Brooks, Beverly Boli, Rita Hysmith, Log Augmentation, Joseph L. Ehardt, Raymond R. Panko, Susan Gail Roetter, Robert Louis Belleville, Rene C. Ochoa, Ann Weinberg, Adrian C. McGinnis, Robert S. Ratner, David S. Maynard, Robert N. Lieberman, Sandy L. Johnson, James H. Bair, Jeanne M. Leavitt, Rodney A. Bondurant, Jeanne M. Beck, Marcia L. Keeney, Elizabeth K. Michael, Jonathan B. Postel, Elizabeth J. Feinler, Kirk E. Kelley, N. Dean Meyer, James E. (Jim) White

Citations to suggestions - RLL's collection since 1973.

In response to Jon's request, I am journalizing my collection of
suggestion references. Some have been included in NLS-8, others
might be a good source for new improvements. I have tried to collect
items sent to FEED and other sources. If you have references to
other items please send them to FEED. Thank you. Robert

Citations to suggestions - RLL's collection since 1973,

This is my (RLL) collection of references to items under the category
of suggestions,   1

(SUGS) suggestions   2

   DVN 2-SEP-75 09:35 33387 Modify's Substitute Command and Output
   Procesdor Directives
   Location: (JOURNAL, JRNL29, J33387:gw)
                                                                               2a

      Message: 2a1

         I'm afraid in some cases anyway when Modify finds a
         directive it carefully destroys it by putting spaces after
         the period and semicolon as directed, It could be fixed
         reasonably I think by having it search forward when it found
         a period to see if it found a semicolon without an
         intervening invisible and having it search backward when it
         found a semicolon to see if it found a period without an
         intervening invisible, If they reset their delimiters to any
         character involved in the action of the Modify Subsitute
         command, they they would still be running a risk, but in
         that case I think they could go on on their own,   2a1a

   SGR 29-AUG-75 13:36 26348 Another Vote for a Simplified Version
   of Help
   Location: (JOURNAL, JRNL29, J26348:gw)
                                                                               2b

      Message: 2b1

         I agree with (33322,) in that there should be a simpler
         version of help for "naive" users, We currently don't teach
         Help until the Second Course because it was felt by
         Applications Development that most Help descriptions were
         too complex for the beginning user, I think many more users
         would be inclined to use Help if there were a simpler
         version,   2b1a

   DVN 28-AUG-75 09:34 33358 For the Whole Universe Catalog Command
   Language
   Location: (IJOURNAL, 33358, 1:w)
                                                                               2c

      Comments: Follows 33005   2c1

   DVN 25-AUG-75 10:09 33322 Needs of Help
   Location: (IJOURNAL, 33322, 1:w)
                                                                               2d

Citations to suggestions - RLL's collection since 1973,

Comments: This responds to 26245   2d1

KIRK 26-AUG-75 00:54   26328 Output (to) Proof
Location: (JOURNAL, JRNL29, J26328:gw)

                                                                2e

Message: 2e1

Since it is clear that new generalized output commands are
needed for the various output processors, sources, and
destinations, I would like to add the "Output (to) Proof"
command if it is not already included in the design. This
command would be a part of the Base Output command (assuming
"Output" remains the same and is not changed to something
more intuitive like "Print") and format the currently loaded
file and place it on the Tektronix. This could be
accomplished by doing an "Output Com File" into the user's
directory and then Goto Proof (loading it if necessary), and
display the processed file on the Tecktronix thus saving the
user from learning and having to do these several steps.   2e1a

LAC 24-AUG-75 09:56   33316 A Tracing Pad for GNLS-Requirement and
design.
Location: (IJOURNAL, 33316, 1:w)

                                                                2f

JAKE 19-AUG-75 03:02   26293 Network Identification System -
Comments and Suggestions
Location: (GJOURNAL, 26293, 1:w)

                                                                2g

DVN 18-AUG-75 17:06   33254 Proposed Changes for Handling Right
Margins on Different Devices
Location: (JOURNAL, JRNL29, J33254:gw)

                                                                2h

Message: 2h1

I favor the changes proposed in <26270,3b2> I believe the
number of people who are trying to print text wider than
screen width is small and that they are sophisticated, that
they will expect problems and be able to deal with them. I
favor <26370,3b2> over <26370,3b1> moderately because I
generally feel it is better for users to be able to set
things. How about the Useroptions Command "Set Wraparound
(point to)".   2h1a

RA3Y 17-AUG-75 08:42   33244 Eliminating a Log-In Step:
Going directly to NLS

Citations to suggestions - RLL's collection since 1973,

    Location: (JOURNAL, JRNL29, J33244:gw)
    *****Note: [ACTION] *****

                                                                        2i

        Message: 2i1

            I have been looking for ways to make things simpler for
            naive users in NLS, One way to simplify things, it seems to
            me, is to take the user directly to NLS after he or she logs
            in, If the user then wants to do things in TENEX, he or she
            could Goto TENEX as a subsystem, Besides simplifying
            getting to NLS by one step, this would make NLS seem like
            the main system of the machine, instead of TENEX, Perhaps
            we can already do this as an option, Any feelings on the
            matter?   2i1a

    JAKE 15-AUG-75 00:42 26272 DPCS Queen for a Day
    Location: (MJOURNAL, 26272, 1:w)

                                                                        2j

    JDH 13-AUG-75 17:59 26270 Proposed changes for handling Right
    Margins on different devices
    Location: (LJOURNAL, 26270, 1:w)
    *****Note: [ACTION] *****

                                                                        2k

        Comments: This proposed change might affect you drastically,
        Any comments will be appreciated,   2k1

    JGN 11-AUG-75 19:08 33186 command 'completers'
    Location: (JOURNAL, JRNL29, J33186:gw)

                                                                        2l

        Message: 2l1

            This is a brief note to add to my prievious comments about
            command recognition modes, In addition to the new mode I
            recommend, the system should recognize command completers
            that cause the current command(or commandword) to e
            completed, Currently, only space and escape are recognized,
            I would propose that <cr> and other obvious control codes be
            recognized as well, These completers would have a two-fold
            function -- they would complete the command and then operate
            with their own intristic function, This would permit habit
            patterns developed for TENEX and other similar time-sharing
            systems to be consistantly used,
                        Thanks   ----- Greg Noel   2l1a

    DCE 29-JUL-75 08:48 33071 On standard default setting for margins

Citations to suggestions - RLL's collection since 1973,

Location: (JOURNAL, JRNL29, J33071:gw)

2m

Comments: To support Jake's request in (JOURNAL, JRNL28,
J26202)   2m1

Message: 2m2

Jim and Bud: Jake's request in (JOURNAL, JRNL28, J26202)
makes sense to me -- that "... default right margins on all
devices be standardized to 72 with useroptions available for
deviations from the standard", I'd like to see a definite
response -- either a Yes or a reason-supported No, as to
intent; and if Yes, when, Thank you, Doug   2m2a

RLL 10-JUL-75 17:45   26107 SUG: Inconsistency in journal item
link: statement 0 instead of 1,
Location: (JOURNAL, JRNL28, J26107:gw)   2n

Message: 2n1

There is an inconsistency in the citation forjornal items,
For items in the JRNL files the statement is Jxxxx wich is
essentially statement 0, For items that are fils, the link
takes one to statement 1, THEY BOTH SHOULD BE AT THE TOP,I
wold think this is a design fault,   2n1a

JAKE 20-JUN-75 03:44   26031 ident system woe
Location: (GJOURNAL, 26031, 1:w)

2o

NDM 19-JUN-75 21:39   26039 Experimental Sort Command
Location: (JOURNAL, JRNL28, J26039:gw)

2p

Comments: Optionally includes reverse sorts, ignoring case, and
beginning from other than the first character in the statement, 2p1

Message: 2p2

I have written a Sort command which has the following
options: 2p2a

Alphabetic -- ignores upper/lower case   2p2a1

Reverse -- reverse order   2p2a2

Content Analyzer call -- calls the current content

4

    analyzer filter program; begins sort from resultant
    character position (or from beginning if no program)   2p2a3

    These options may be combined. Any number of them may be
    specified in any order (after bugging the branch/plex/group
    to be sorted). The command exists in the following
    user-attachable subsystem: 2p2b

        <XPROGRAMS, SORT,SUBSYS,>   2p2b1

    This is not a class-1 program. Enjoy... Dean   2p2c

DCE 21-JUN-75 11:06   NDM re new, experimental Sort Subsystem
(26039,)
Location: (JOURNAL, JRNL28, J32795:gw)

                                                                2q

    Message: 2q1

    Dean: Congratulations and thanks. Works beautifully. I have
    another twist to ask about, regarding the "Content Analyzer
    call." I'd like to set two text pointers by means of the
    Content Analyzer, and have the sort done on the string
    between the pointers. Using the CCPOS (control marker)
    position for one of the positions, as in current Sort
    Subsystem, works pefectly well (so far in my experience) for
    designating a start point for an unspecified length of
    subsequent text-string sort key. How about the following
    modification to your Subsystem, which should allow a new
    option without changing at all the operation as it stands?
    If a user sets the global text pointer "p1" in his
    content-analysis process, then the Conte... sort would be
    done with the limited-length text string between p1 and
    CCPOS; if p1 weren't set, then do as is currently done.
    Regards, Doug   2q1a

RLL 9-JUN-75 00:34   25982 SUG: Indicating a file is being modified
Location: (JOURNAL, JRNL28, J25982:gw)   2r

    Message: 2r1

    It is just a smalll point, but it would be nice to know if
    the file one loads is currently being modified (by oneself,
    of course; otherwise your are informed.). This coull be
    done by addeing sqquare brackets (a la, show directory
    command) about the link when placed in the TTY window (or
    just printed for the TNLS folks) as is the present case.
    True a show file status command will show it also but...
    small things are neat. My only objection to square

Citations to suggestions - RLL's collection since 1973,

bravvkets being the only indication is that is is obscure,
any other sugs are welcomed, opposing views tooo,   2r1a

KIRK 9-JUN-75 15:42 32715 Regarding RLL'S 25982 'Indicating a
file is being modified'
Location: (JOURNAL, JRNL28, J32715:gw)

                                                                         2s

    Message: 2s1

        DNLS users do not usually get notified when a file is
        modified by anyone when they load it because the message
        flashes by to fast, It would be valuable to me to see if I
        am currently modifying a file when I load it, It would also
        be valuable if I could see if some one else is modifying it,   2s1a

RLL 16-MAY-75 15:06 25879 sug: Reducing the refreshing of DNLS
screen for show disk, delete files, etc.
Location: (JOURNAL, JRNL27, J25879:gw)   2t

    Message: 2t1

        To reduce the time for refreshing I offer the following
        suggestion: For the show disk status command and similar
        commands as well as the display for deleted files do NOT
        clear screen but simply delete lines from top as needed in
        the same way when inserting several lines of text,   2t1a

        Optionally, for two or less lines of info, you can display
        the text in the TTY window with a message to the effect on
        the command feedback line (if you like),   2t1b

NDM 23-APR-75 14:56 32371 proposed new output command syntax
PROPOSAL FOR NEW SYNTAX FOR OUTPUT COMMANDS
Location: (LJOURNAL, 32371, 1:w)

                                                                         2u

    Comments: revises 32326   2u1

DVN KIRK 15-MAY-75 12:11 25872 SUG: POINT and TYPEIN
Rejected Proposal To Reduce SOURCE, DESTINATION, and CONTENT to
POINT and TYPEIN
Location: (JOURNAL, JRNL27, J25872:gw)

                                                                         2v

    Comments: The documentation group considered the proposal and
    in the end rejected it because of the ambiguity about optional
    address and because of the time necessary to make the changes,
    but I thought the idea worth recording,   2v1

Citations to suggestions - RLL's collection since 1973,

Message: 2v2

    New users and old have expressed confusion and frustration
    over the terms SOURCE, DESTINATION, and CONTENT to represent
    SSEL, DSEL, and LSEL in User Documentation and in response
    to <CTRL-S>, Because of changes in the definition of SSEL
    etc,, it would be possible to reduce these three special
    terms to one as shown below, We have chosen the word
    "point" which would mean BUG/ADDRESS, then
                    SSEL=POINT/TYPEIN
                    DSEL=POINT
                    LSEL=TYPEIN/POINT   2v2a

    Note that the address is occasionally optional and that fact
    would not appear in command syntax, It would have to be
    part of the definition of point,   2v2b

RLL 9-MAY-75 14:04   25851 SUG: don't clear TYPEIN line til
verified
SUG: don't clear TYPEIN line until address is verified,
Location: (JOURNAL, JRNL27, J25851:gw)   2w

Message: 2w1

    It would be nice if the typed in address remained visible on
    the CRT screen while the system searched for it instead of
    the current clearing of the command address(TYPEIN) line,
    It could be cleared after the address is verified
    (internally) and as is indicated (usually) by the viewspec
    prompt(the next prompt), I think this is more than just
    nice but very desireable,   2w1a

27-APR-75 1602-EDT PETERS: HOW TO MAKE YOUR TI WORK RIGHT OVER
THE NET TO BBNB
    Distribution: SRI-ARC:
    Received at: 27-APR-75 16:02:21-EDT   2x

HEY PEOPLE, I'VE FINALY FOUND THE RIGHT TERMINAL PARAMETERS TO
SET FOR YOURSELF WHEN USING A TI OR SIMILAR DEVICE OVER THE NET
TO BBN, I ALWAYS WONDERED WHY YOU HAD TO DO MORE THAN "NO
RAISE" TO HAVE THINGS HAPPEN RIGHT FOR YOU IN NLS, IT TURNS
OUT THAT THE BBNB MACHINE ASSUMES YOU'RE A MODEL 33 TELETYPE,
EVEN WHEN YOU COME IN OVER THE NET, SO THE THING TO DO AFTER
YOU'VE SAID "NO RAISE" IS ALSO TO SAY "TERMINAL (TYPE IS)
NVT<CR>", NVT = NETWORK VIRTUAL TERMINAL, IF YOU MAKE
YOURSELF A TERMINAL TYPE TI OR TI733, IT FIXES THE UPPER-LOWER
CASE STUFF FOR NLS, BUT IT ALSO INSERTS EXTRA PADDING WHICH YOU
DON'T NEED, AND WHICH MAKES THE SLOW RESPONSE (UGH!!) EVEN
SLOWER, - JEFF   2x1

27-APR-75 2227-EDT LIEBERMAN: TI's over the net to BBNB
    Distribution: PETERS, lieberman
    Received at: 27-APR-75 22:27:44-EDT   2y

    Jeff: just read your message re. terminnals to BBNB. I have
    fond tat term type 37 is better than NVT (term 37<CR>), this
    gives uper/lowercase and no extra padding. Robert   2y1

27-APR-75 2143-PDT LIEBERMAN: sug
    Distribution: PETERS, lieberman
    Received at: 27-APR-75 21:43:56-PDT   2z

    As I tried to explain in the link, think we sould have (and
    sould in te future) have a logon message repeated to indicate
    that .33 is up, athough it is clearly printed in the header a
    mesage is woth it. rob.   I don't know what happend on our
    link, did you get aother link?? Rob   2z1

KIRK 24-APR-75 11:39 25784 New design for tabs in NLS
New design for tabs in NLS
Location: (LJOURNAL, 25784, 1:w)

                                                                 2a0

    Comments: This is a previous journal item resubmitted in order
    to enter it in the DPCS subcollection   2a01

NDM 23-APR-75 14:56 32371 Update Proposal for Output Commands
Syntax
PROPOSAL FOR NEW SYNTAX FOR OUTPUT COMMANDS
Location: (LJOURNAL,32371,1:w)
*****Note: [ACTION]
(Secondary Distribution Copy from MLK)*****

                                                                 2aa

    Comments: revises 32326
    Secondary Distribution Copy   2aa1

NDM 18-APR-75 14:01 32326 Proposal for Change in Output Commands
Syntax
Proposal for change in Output Commands Syntax
Location: (LJOURNAL, 32326, 1:w)

                                                                 2ab

KIRK 10-APR-75 20:41 25706 Change in running NLS-8; & to $
Ampersand -> Dollarsign
Location: (JOURNAL,JRNL26,J25706:w)
*****Note: [ACTION] i wont act until I here from you -- jim
(Secondary Distribution Copy from JHB)*****

                                                                 2ac

Comments: If UD does not object, I would like to make the
change in the running system as it is felt the transition for
users may be much harder if we waited until NLS-9 is brought
up.   2ac1

Message: 2ac2

Under our contract to ISI, ampersand is to be made a valid
character useable in statement names. This necesitates
changing the character for external name searches to be
dollar sign, Ampersand was a poor choice for external name
searches as it is much more appropriate as a valid character
in a statementname (the only replacement for that function
being the cumbersome "-and-"), Dollar sign is more of a
delimiter type character and quite appropriate for an
external name search which is an expensive process as
address searches go,   2ac2a

DVN 8-APR-75 22:43   25695 Batch Processor
For Batch Processor
Location: (JOURNAL, JRNL26, J25695:gw)

                                                                      2ad

Comments: Response to (25688,)   2ad1

Message: 2ad2

Assuming it could run commands branches and the like, such a
processor could be extremely useful to publications people
running the output processor and printing the result or
running other automated editing operations,   2ad2a

KEV 8-APR-75 13:25   25688 batch processor proposal
a simple minded batch processor proposal
Location: (JOURNAL, JRNL26, J25688:gw)
*****Note: [ACTION] *****

                                                                      2ae

Message: 2ae1

i suspect that it would take about 1-2 days to implement a
quick and dirty batch processor to run on bbnb, this
processor would ask a user the name of a file to be run (eg
runfil, etc), input and output files, the name, password and
account of a user, and the time at which to start the job,
thus a user could specify work to be performed on hers/his
behalf in the middle of the night under light load
conditions, please give me any feedback or feelings you

have on this and if there is both sufficient interest and
need i will see about implementing it,   2ae1a

DVN 4-APR-75 20:28   25675 sug: paragraphSubstrucutreWastebasket
Statement/Paragraph, Plex/Substructure, Wastebasket
Location: (JOURNAL, JRNL26, J25675:gw)

                                                              2af

    Comments: Responds to 25658 etc,   2af1

    Message: 2af2

        I like the suggestion of calling statement paragraph, and
        plex substrcutre, and of saving deletes, I think we have to
        think carefully about the procedures and commands of saving
        deletes, It doesn't seem to me normally worth while to save
        units smaller that a statement, but what about a mass
        substitute?   2af2a

        I have some worries about the psychological effect on new
        users who are unimaginative of calling a statement a
        papragraph, For example, from time to time it is useful to
        make sentences up of more than one statment, Are people
        going to feel needlessly confined because of the name? 2af2b

DVN 4-APR-75 20:18   25674 sug: for federal size aper, an op dir,
Fitting Government Paper
Location: (JOURNAL, JRNL26, J25674:gw)

                                                              2ag

    Message: 2ag1

        We should have an Output Processor directive something
        like ",Federalpaper = On;", which you could put in the
        header, and it would reset all the margins, headers, top and
        bottom etc, to fit 8,0 x 10,5 paper,   2ag1a

KIRK 2-APR-75 21:56   25658 on sugs for plex names change and
wastbasket
Re CHI 25653 and RLL 25602 comments on suggested changes to NLS-9
Editor
Location: (KJOURNAL, 25658, 1:w)

                                                              2ah

RLL 2-APR-75 14:16   25652 new names:PARAGRAPH, SUBSTR,,
wastebasket
commment on NLS-NSW changes: PARAGRAPH, SUBSTRUCture, and
wastebasket
Location: (JOURNAL, JRNL26, J25652:gw)   2ai

Comments: The name of things IS indeed important,   2ai1

Message: 2ai2

RE: (KJOURNAL, 25650, 1:w)   2ai2a

The name change (statement to paragraph) sounds like a great
idea, the waste basket idea seems to be a slight duplication
of the version feature (u can backup to the previous
version) however perhaps not as easy or reliable (one could
have created and deleted items within a partial copy), In
any case this waste basket sounds like a nature for another
dimension (like graphs, backlinks, etc),   2ai2b

One objection: the name SUBSTRUCTURE sounds, to me, like
what a BRANCH is, Perhaps another name can be found (FIELD,
SET, etc, or just STRUCTURE)   2ai2c

CHI 2-APR-75 14:43 25653 re 25650: Kirk's sugs for NLS-9
re 25650: Kirk's suggested changes for NLS-9
Location: (JOURNAL, JRNL26, J25653:gw)

                                                                     2aj

Message: 2aj1

Kirk, with respect to your suggestions about Paragraph and
Substructure and waste-basket, I would like to say I patched
NLS to use Paragraph and Substructure and found it to be
very nice except that old habbits caused me to delete a lot
of substructure when I meant to delete a statement, With
regard to the waste basket for deleted material, is it your
intention that deleted text would go there too (e.g. delete
word)? All of the formatters (actually the seqgen) would
have to be changes so as not to show this bra7ch to the user
or it would have to be a separate tree within the file (or a
separate file -- one per user) in which case there would
have to be special commands to get at the contents, All in
all, I like the ideas and think we should try to come up
with some workable solutions, -- Charles,   2aj1a

KIRK 2-APR-75 05:21 25650 SUG: 'statement' to 'paragraph + a
waste basket
Two changes for NLS-9 to help avoid lost work
Location: (KJOURNAL, 25650, 1:w)

                                                                     2ak

KEV 20-MAR-75 10:52 25602 proposed mouse button change,
proposed mouse button or option character change

Citations to suggestions - RLL's collection since 1973,

Location: (JOURNAL, JRNL26, J25602:gw)

2al

Message:

2al1

with the advent of 133 tenex we no longer have the ability
to enter control characters via the mouse and keyset, i
therefore propose that either the option charater be changed
to one of the existing mouse button characters (perhaps
escape - 101 down and up), or that one of the mouse button
characters (say 101 down and up) be changed to input a
control-U,

2al1a

DVN 21-MAR-75 00:06   25610 replacing source/content in
documentation
Questioning the SOURCE
Location: (JOURNAL, JRNL26, J25610:gw)

2am

Message:

2am1

Not to waken sleeping dogs, but I think we should seriously
consider replacing SOURCE in NSW documentation with
WHEREFROM, DESTINATION with WHERETO, and CONTENT with WHAT,

2am1a

KIRK 21-MAR-75 19:32   25617 reply to KEV'S 25602 re mouse buttons,
In response to KEV's 25602 'proposed mouse button or option
character change'
Location: (JOURNAL, JRNL26, J25617:gw)

2an

KIRK 22-MAR-75 00:32   25619 Response to DVN's 25610 re 'the
SOURCE'
Response to DVN's 25610 'Questioning the SOURCE'
Location: (JOURNAL, JRNL26, J25619:gw)

2ao

Message:

2ao1

Rather than replace the three meta-primatives LSEL, DSEL,
and SSEL with three other "more intuitive terms", I would
propose using only the two terms: POINT and TYPEIN, TYPEIN
is a primitive term, For TNLS, the primitive "ADDRESS"
would be better than POINT but we must write documentation
which works for both DNLS and TNLS, The use of the one
meta-primative POINT cat replace the three we now use, So
POINT in TNLS = ADDRESS, In DNLS, POINT = BUG/ADDRESS and
[POINT] = BUG/[ADDRESS],

2ao1a

Citations to suggestions - RLL's collection since 1973,

    NDM 13-NOV-74 14:00   24489 Proposal for Bibliography Subsystem
    Proposal for Bibliography Subsystem
    Location: (MJOURNAL, 24489, 1:w)
    *****Note: [INFO-ONLY] *****

                                                                    2ap

       Comments: Request for comments and suggestions on a first step
       bibliographic citation program,   2ap1

    JEW 19-FEB-75 16:19   25430 Second-Pass L10 List Data Type Design
    Second-Pass L10 List Data Type Design
    Location: (HJOURNAL, 25430, 1:w)
    *****Note: [INFO-ONLY] *****

                                                                    2aq

       Comments: This issue must be decided quickly, since both PCP
       and NLS-backend implementations depend upon it,   2aq1

    KIRK 15-FEB-75 21:51   25406 "no such marker"-wrong algorithm
    I'm not searching for a marker you ignorant machine!!
    Message: It occurs to me that the reason fast DNLS users get the
    annoying message "no such marker" all the time is in large part
    due to the fact that the algorithm for determining when a marker
    has been requested is backward. A marker search should only occur
    when the "marker shift" (right mouse button) is let up after a
    keyset chord made while the marker shift was down. Unfortunately,
    pushing the keyset BEFORE holding down the marker shift causes a
    marker search to occur, This has not only caused users to be
    slowed down and much wasted time (how do you measure such things),
    it is inconsistant with the way a shift button normally works, I
    first noticed the annoyance when KEV brought up the new mouse
    button algorithm a year or so ago, It appears that then the
    change was made, A marker search should only be initiated if the
    marker shift is pushed BEFORE a keyset chord and let up AFTER the
    chord, In the name of all those old and new users who have been
    frustrated and confused by "no such marker" lets agree to fix the
    problem,
    *****Note: [INFO-ONLY] *****

                                                                    2ar

    RLL 4-FEB-75 16:17   25296 Sug:New Command to generate link from
    BUG
    Sug:New Command to generate complete link from BUG
    Location: (HJOURNAL, 25296, 1:w)   2as

    RLL 22-JAN-75 00:04 25174 Sug:cut down typing for JUMP File Return
    Sug: cutting down the typing for TNLS users for JUMP File Return
    command
    Message: One of the complaints often heard is the verbose print

outs TNLS gives the users, Here is one spot which would be nice
to eliminate some typing, When using th jump file return command
and one selects the file (which is printed out) the file name (as
a link) is again printed (per usual when going to another file)
It would be nice to supress this second printout, I realize this
might be very hard if not impossible since the command and the
loading of the file are different processes, lso it would meaa
some inconsistency, In any case this suggestion is on record for
future considerations (right gang??) Rob   2at

RLL 17-JAN-75 11:48 25136 sug: show rec ident/lastname command
SUG: new command == Show Record (for) IDENT/LASTNAME
Location: (HJOURNAL, 25136, 1:w)   2au

RLL 16-JAN-75 15:12 25127 SUG: Automatic requesting of ref items
SUG: Automatic requesting of referenced items,
Location: (HJOURNAL, 25127, 1:w)   2av

KIRK 15-JAN-75 00:15 25113 sug:help database to/0-1: why not
oper?
How about the OFFICE-1 operator?
Message: If for various reasons (mostly having to do with the
hassle that's currently necessary) no one in applications or
development wishes to be responsible for moving userguide and
documentation files to office-1, and since our own operators will
be moving on to other things at the end of February, perhaps the
appropriate person for "retrieving" files for OFFICE-1 from
SRI-ARC is the same person responsible for "retrieving" files for
OFFICE-1 from the archive: the OFFICE-1 operator, Anyone should
be capable of requesting a file to be at OFFICE-1 by sending a
message to the operator there, The tymshare operators certainly
should know how to tranfer files,
*****Note: [INFO-ONLY] *****

                                                                    2aw

RLL 10-JAN-75 11:48 25060 sug: help data base
sug: help data base
Message: 1: add the word 'errors', 'error message' is there but I
think errors is just as likely to be requested,
2: the #3 item in the 'error messages' branch (sendmail errors)
aparently has no information in it, just the name of the branch,
3: main sug- have every error message in the glossary so that
one can search on it, because of conflicts (e,g,nls system error
would conflict with nls as a keyword to search on) one might have
dashes between words of error messages and let peole know about
this convention,   2ax

DCE 26-DEC-74 11:48 24821 control markers: the name
Reply to Bair (24815,) and Kelley (24802,) regarding Control

14

Citations to suggestions - RLL's collection since 1973,

Marker issues
Location: (GJOURNAL, 24821, 1:w)
*****Note: [INFO-ONLY] *****

2ay

RLL 7-JAN-75 22:37   25023 SUG: action/info change to 'to/copy to'
SUG: action/info change to 'to/copy to'
Message: How about changing the distribute for action/information
only to distribute to/copy to in the sendmail subsystem, this
conforms with the way most organizations split their distribution
list (TO and CC) It also conforms to the sndmsg split. More
importantly I think it is the recepient that must decide whether
action is needed,

2az

RLL 6-JAN-75 22:39   25016 Sug: more meaningful prompts
Sug: more meaningful prompts
Message: I am sure this suggestion has been mentioned many time
before but for the record: i believe the prompts wuld be better
if they related to the user rather than the system, e.g. "C"
should be plit between Commandverb (C) and Noun (N), this would
help in such subsystems wher th verb is not needed. (Sendmail:
where the noun actually means submit NOUN).
"T" should be replaced by something indicating LINK or text or
FILeetc, (this is most likely a bit harder to impplement than the
first split) Well I am sure other examples can be found. Robert

2bə

DVN 30-DEC-74 21:37   24861 Current Marker
More on Current Marker
Message: In Help generally we have used the term Current Marker
and the acronym CM rather than any of the terms suggested in the
cited journal items, In particular we have avoided the word
"pointer" which is used to refer to a text point in L-10 which
points between rather than to characters, I believe Kirk's
"command marker" was a slip of the mind, However, we have also
been trying to avoid the use of any such esoteric term and to use
instead constructions such as "moves you to" or "you are at", see
for example Help's account of "address" or effects under "delete
group",
*****Note: [INFO-ONLY] *****

2ba

    Comments: Follows journal items (24815,) (24802,) and (24821,)   2ba1

RLL 26-DEC-74 11:50   24822 SUG: Automatic refuse link
SUG: Automatic refuse link while printing in TNLS,
Location: (GJOURNAL, 24822, 1:w)

2bb

    Comments: Clearly for the future,   2bb1

Citations to suggestions - RLL's collection since 1973,

23-DEC-74 1140-PST LIEBERMAN: ident for documentation
    Distribution: WEINBERG, VANNOUHUYS, lieberman
    Received at: 23-DEC-74 11:40:48   2bc

    I   But would suggestion a four or five letter ident to give
    the impression of a group, how about Docu or docum? Robert   2bc1

JHB 26-DEC-74 08:29   24815 sug: command marker/control
marker/pointer
Location of the Command Marker or Control Marker -- why not
'pointer'?
Message: Re KIRK (24802,)
I support KIRK's comment that the CM should be left at the first
character of the statement following the moved statement or
structure,
I noticed that Kirk referred to the "command marker", That is not
defined in the Help DB nor is it used in the Quick Reference,
Control Marker is instead, II prefer the former, but the question
arrises, why not call it a Pointer? That would be consistent with
users experience, the part of Help devoted to pointing, be more
concrete a concept and more easily explained to new users, Could
we not substitute Pointer for Control Marker in future
documentation?
*****Note: [INFO-ONLY] *****

                                                                        2bd

RLL 24-DEC-74 11:37   24810 Sug: A new textual entity called 'LINE
Sug: A new textual entity called 'LINE'
Location: (GJOURNAL, 24810, 1:w)   2be

    Comments: This is only a temporarzy type entity since the
    graphics capbility might eliminate its need, Should be great
    for tables, Becasue of grphic entity LINE might be changed to
    some other name, Any suggestions?   2be1

KIRK 12-DEC-74 22:28   24748 sug: syntax conventions
Proposed change in command syntax conventions
Message: I think we should add a command syntax description
convention in help for when you cant tell from the commandwords
what the selection type is, In those cases, the proper syntax
should be "ENTITY-SELECTION" e,g,: NUMBER-DESTINATION,
IDENT-CONTENT, LINK-CONTENT,
*****Note: [INFO-ONLY] *****

                                                                        2bf

DVN 13-DEC-74 09:10   24749 sug: Help Syntax
Fo Specifying Types of Selections in Help Syntax
Message: I like the suggestion in 24748, I don't think the way
Kirk suggests writing out the SELECTIONS is quite right,..it

implies that the two parts are paralell when in fact they are a
class and subclass, I would like something like
DESTINATION[NUMBER],
*****Note: [ACTION] *****

2bg

    Comments: I would particularlly like to hear coments on this
    from people in the field like JHB RLL SRL DLS EJK,   2bg1

SRL 9-DEC-74 05:55   24698 sug: Documentation Reviewed by KWAC
New Documentation Should be Reviewed by KWAC as well as
APPLICATIONS
Message: I notice in the Documentation Report that a document
Preface toNLS, a three-page introductory document, has gone to
Applications for approval, I don't know the normal procedure (if
there is one) but thought it might be a good ideas to get comments
from the KWAC group as well as Applications when a new piece of
documentation is being reviewed,
*****Note: [ACTION] *****

2bh

    Comments: Is there an ident for distribution to Applications?   2bh1

  6-DEC-74 1925-PST KELLEY: execute viewchange
    Distribution: FEEDBACK AT NIC, LIEBERMAN, weinberg
    Received at: 6-DEC-74 19:25:12   2bi

    This is already described in help, I added the word
    "levadjust" to point to the information, It is located under
    execute viewchange,   2bii

  6-DEC-74 1408-PST KELLEY: Help suggestion
    Distribution: FEEDBACK AT NIC, lieberman
    Received at: 6-DEC-74 14:08:44   2bj

    Tht's an excellant idea, Is there any thing I can do to solict
    more
    feedback concerning help? Your message is the ONLY feedback I
    have
    received from office-1 via the feedback process, I wonder
    where the
    complaints are????   2bj1

NDM 4-DEC-74 15:46   24658 Output Processor/Trailing directive
Output Processor Bug: Trailing directive
Message: The Output Processor directive "Trailing" does not work,
It should leave in the output invisibles that appear at the end of
lines, With Trailing set to Off, the OP continues to remove
spaces at the end of a line before the next visible, Edwards at

Bell pointed the problem out to us, and we have no answer to his
problem without this directive,
*****Note: [INFO-ONLY] *****

2bk

Comments: Wonder if I should leave this out of the about to be
published Output Processor Guide? That would be a loss,   2bk1

KIRK 26-NOV-74 21:47 24623 Why HELP is so slow,
one reason why the searches in Help are so slow
Message: The database is carefully designed and maintained so that
the first word asked for in a search can be found via an any-name
search which is much faster than a first-name search on large
files, It appears that help has been doing a first-name search
all this time, Search time should decrease dramatically when the
code is changed to take advantage of the file structure,
*****Note: [INFO-ONLY] *****

2bl

NDM 21-NOV-74 16:30   31378 Output Commands: re RLL SUG
Unifying Output Commands
Location: (GJOURNAL, 31378, 1:w)
*****Note: [INFO-ONLY] *****

2bm

JHB 21-NOV-74 10:48   24568 Sendmail form
Sendmail form
Message: The command is screwy...it says insert sendmail form,
should be status form,
*****Note: [INFO-ONLY] *****

2bn

19-NOV-74 1812-PDT FEEDBACK at OFFICE-1: Journal Design
recommendation *** probably referring to output sequential SUG
    Distribution: LIEBERMAN AT SRI-ARC, feedback
    Received at: 19-NOV-74 18:11:39   2bo

    Rob, Is being handlee with others...except will try to track
    down programmer to see if can be part of current mods,
    Feed/jim   2bo1

RLL 19-NOV-74 11:51   24546 SUG: Unify the output file commands
SUG: Unify the output file commands and insert (copy) file
commands
Location: (GJOURNAL, 24546, 1:w)   2bp

    Comments: prompted by the latest addition: OUTPUT TERMINAL FILE
    command,   2bp1

Citations to suggestions - RLL's collection since 1973,

   DVN 14-NOV-74 11:01   24513 Bundling Sendmessages
   Bundling Sendmessages and Responsibility for Authorship
   Message: I believe in procdures such as those described in
   (mjournal,24393,) but problems arises when you have a bundle of
   sendmessages by various authors, First, it is easey to acknowledge
   authorship only of authors known to the ident system, A more
   serious problem arises with other authors' intent, On at least one
   occasion I jornalized just such dialogue and acutely vexed Dean
   and moderately vexed our good outside friend Duane Stone by
   immortalizing messages they thought were not ready for posertity,
   I had, as it happened asked their permision, but misundestood
   their reply in sendmessages (now lost), All this has made me
   super careful about getting autohr's consent, Being super careful
   can take months,
   *****Note: [INFO-ONLY] *****

                                                                        2bq

   JMB 13-NOV-74 15:48   24494 Sug: sendmail workfile and
   reinitializing
   Sendmail workfile & Initializing: Ref: <24482,> <24480,>
   Location: (MJOURNAL, 24494, 1:w)
   *****Note: [INFO-ONLY] *****

                                                                        2br

   KIRK 12-NOV-74 13:20   24482 Sug: initializing sendmail- not at
   entry
   send-mail workfile
   Message: I don't think the send-mail work file should be
   initialized whenever a user goes into the sendmail subsystem, I
   would like to be able to continue a sendmail item after having to
   reset NLS, I would also like to be able to say "Execute Sendmail
   Interrogate" and not have all my work go away if I make one
   mistake and when I say "No" to "(Finished?)", Of course there
   needs to be some mechanism to let the user know he has an
   unfinished item, I suggest placing the user in the interrogate
   command automatically if he doesn't have unfinished mail and/or
   sending the noise words (and pseudo command) "(you have unfinished
   mail, initialize?)" Y/N: .
   *****Note: [INFO-ONLY] *****

                                                                        2bs

     Comments: This is in answer to CHI's <24480,> I don't know who
     he sent it to (when I try to load it, I get the message 'File
     not on-line; If archived, use EXEC's INTERROGATE') so I'm
     sending my response to you guessing that you also got the
     question,   2bs1

   NDM 1-NOV-74 13:40   31248 Support for prompt C; re (24346,) by RLL

                                  19

Citations to suggestions - RLL's collection since 1973.

   Message: I like RLL's suggestion in (24346,), I think the OK/C:
   is a much nicer way to do things in general than OK/[**]:, I feel
   the <control-u> should only be used where syntax requires it or
   for options very seldom used.
   *****Note: [INFO-ONLY] *****

                                                                            2bt

   Comments: My guess is that it would be a trivial CML fix,   2bt1

   JHB 31-OCT-74 11:28   24370 support for sug add a OK in Send mail
   Need for an OK in the Sendmil Command: Send the Mail.
   Message: I support RLL's request (24232,) and note that other
   users have had the same problem: that I like to do a show status
   command in sendmail before sending the item, however, if I forget
   the space and continue to type without looking (SH <CA>) I have
   found out that I have sent the mail, My recommendation is to have
   an additional <CA> (as a OK) needed to send the mail.(This is one
   of the few times I am in favor of aditional strokes.)
   *****Note: [INFO-ONLY] *****

                                                                            2bu

   29-OCT-74 2220-PDT FEEDBACK at OFFICE-1: Office-1 shutdown and
   LP Problems
      Distribution: LIEBERMAN AT SRI-ARC, norton, feedback
      Received at: 29-OCT-74 22:20:49   2bv

      Rob, Thanks for the comment on the LP crash rate, Copies went
      to the appropriate people so will just keep the msg for the
      record,
      There have been other comments about the abrupt shut edown of
      Office-1, Veryy rarely do they give any warning, I guess
      that's JCN's department,
      Yours truly, Feed   2bv1

   RLL 29-OCT-74 13:46   24346 SUG: unnecessary ^U in Force command
   SUG: unnecessary control U in FOrce command
   Message: Why is it necessary to have the last part of the force
   command accessd by control u? the options should be OK/C: instead
   of OK/[**]: This will make the use of this command simpler,
   Example: force word <BUG> lower <BUG>, Far better than Force Word
   <BUG> <^U> Lower <BUG>,   2bw

      Comments: Could this not be an easy fix via the CML????   2bw1

   RLL 27-OCT-74 12:34   24330 sug on shut down at O1
      RUde office-1 ssout down
   Location: (MJOURNAL, 24330, 1:w)   2bx

   RLL 16-OCT-74 12:27   24232 sug: OK in Sendmai

Citations to suggestions - RLL's collection since 1973,

sug: Needed for an OK in the send the mail command (in
Sendmail),
Message: I find that I like to do a show status command in
sendmail before sending the item, however, if I forget the space
and continue to type without looking (SH <CA>) I have found out
that I have sent the mail, My recommendation is to have an
additional <CA> (as a OK) needed to send the mail,(This is one of
the few times I am in favor of aditional strokes,)   2by

26-OCT-74 2104-PDT LIEBERMAN: RUde office-1 ssout down,
   Distribution: FEEDBACK AT OFFICE-1, FEEDBACK, NORTON,
lieberman
   Received at: 26-OCT-74 21:04:40   2bz

   I have the occasioon to be on OFFICE-1 at night, Generally
   forgetting he time, without warning the system ssuts down at
   9:00 PDT, OK, maybe the TNLS users don't like too many
   typeout but, I think one five minute warnin would be nice,   2bz1

12-OCT-74 1043-PDT BAIR: Need for echo of YES/NO
   Distribution: FEEDBACK AT OFFICE-1, feedback, bair, lee,
lieberman
   Received at: 12-OCT-74 10:43:22   2c0

   When the user types in y or n in response to the appropriate
   prompt, he should see the echo of yes or no,
   Many users have requested this and it seems logical,
   particularly in TNLS when a record of interactions is retained
   on a typescript,   2c01

12-OCT-74 1117-PDT LIEBERMAN: echo of Y/N: agree
   Distribution: FEEDBACK, BAIR, FEEDBACK AT OFFICE-1, lieberman
   Received at: 12-OCT-74 11:17:30   2ca

   Yes , an echo for the Y/N prompt is indeed needed, Please add
   my name to the long list of those desiring it, Rob   2ca1

KIRK 11-OCT-74 00:38 24196 read/cold/line length
problems/suggestions
Line lengths in NLS
Location: (JJOURNAL, 24196, 1:w)
*****Note: [INFO-ONLY] *****

                                                                       2cb

RLL 9-OCT-74 14:39 24177 sug: show current subversion of NLS
date,
Message: It would be nice to be able to find out or print at the
begginning of a nls session he curren subversion of NLS, THe date
and time would be most helpful since I believe there is no

21

Citations to suggestions - RLL's collection since 1973,

numbering scheme, thi wuld help in isolating bugs to a particular
subversion an be a back up in notifiying people of new versions,
Make the method by which thi is done easy (e,g,, show current
subversion date,)   Rob   2cc

RLL 25-SEP-74 17:19 24058 Show directory command toooooo long,
Message: What good is the show directory command if it take
considerably longer to see ones directory using ths NLS command
than using the tenex dir command? I have found myself going to
Tenex almost always because of the time, P,S, Thanks for
'paging' the directory, That makes the NLS command a bit better
for long dirctories (over the tenex comaand,)   2cd

RLL 2-OCT-74 16:17   24122 sug: show return command statement
numbers
Thanks for the show return command, Maybe the statement number
(or/and SID) would bbe nice to see on the list of return
statements,
  Distribution: FDBK([ACTION] JHB [ACTION]) *****Note: Author
Copy*****

                                                                            2ce

RLL 2-OCT-74 16:49   24123 sug: new viewspec to show only statement
names,
If NULL NULL or NULL SPACE are to be the default name delimitors,
then I think JAKE's old idea of having a viewspec to show only
statement names is needed, this would enable a fast way of
checking the enforced name delimitors aswell as being very
valuable for scanning a file, It would also be of value for
creating indexes with copy with filter command and as a training
aide,
  Distribution:/FDBK([ACTION]) JAKE([INFO-ONLY]) JHB([
INFO-ONLY]) KIRK([INFO-ONLY]) DVN([INFO-ONLY]) POOH([
INFO-ONLY]) RWW([INFO-ONLY]) DCE([INFO-ONLY])
*****Note: Author Copy*****

                                                                            2cf

 4-OCT-74 1635-PDT MEYER: Bibliographies
   Distribution: NORTON, BAIR, LIEBERMAN, meyer, peters
   Received at: 4-OCT-74 16:35:43   2cg

   The CBI community is creating bibliographic citations in our
   standard catalog format, What thy and others would really like
   is a subsystem that takes a plex of citattions and creates a
   author/titleword/number listing, Right? Right!
   I estimate that it would take on the order of 15-20 hours of my
   time and 2 hours of Jeff Peters' time to do this,
   Shall I? (Question specifically directed to JCN)   2cg1

22

Citations to suggestions - RLL's collection since 1973,

EKM HGL CHI RWW 25-SEP-74 16:57   24056 read/warm/NLS task list
NLS Task Shopping List for NSW
Location: (HJOURNAL, 24056, 1:w)
*****Note: [INFO-ONLY] *****

2ch

RLL 24-SEP-74 13:36   24040 Poor name for output sequential file
Poor name for output sequential file,
Message: It seems that when does a output squential on a file, the
new file name must be the same but version higher, Poor, At least
it should be same name with extension TXT not NLS, It is OK to not
allow a name choice but make the resulting name reasonable,
Thanks,

2ci

NDM 16-SEP-74 14:50   31058 read/warm/split screens NLS8-comment
Split Screen commands
Message: I think the new split screen control commands are very
poor, When I go to split my screen, I know were I want the
boundary, I don't want to have to stop and figure which
boundaries it may fall perpendicular to, Isn't much more
straightforward to say "Insert a Horizonal Boundary (or Edge if
you will) here"? As Robert said, even those of us familiar with
trigonometry found the new command non-intuitive (a euphamism),
Let me once more ask you to consider the suggestions made in
30932,

2cj

   Comments: Not too late to change, is it?   2cj1

RLL 13-SEP-74 11:07   23964 sug: use one line for opt, info in sh
dir,
use same line for optional info in show directory command
Location: (HJOURNAL, 23964, 1:w)   2ck

RLL 11-SEP-74 09:42   23940 new insert/delete edge commands
Comments on new insert/delete edge commands (in work) and bugs,
Location: (HJOURNAL, 23940, 1:w)   2cl

KIRK 14-AUG-74 17:04   23797 Addressing in commands by bugging a
link
Location: (GJOURNAL, 23797, 1:w)
*****Note: [INFO-ONLY] *****

2cm

RLL 14-AUG-74 14:14   23793 see (23797,) for support
suggestion on indirect addressing,
Location: (GJOURNAL, 23793, 1:w)   2cn

DCE 13-AUG-74 14:05   23787 read/cool/suggestion- keep messages up

Citations to suggestions - RLL's collection since 1973,

Suggestion: Some DNLS feedback messages should stay up
Location: (GJOURNAL, 23787, 1:w)
*****Note: [INFO-ONLY] *****

2co

RLL 12-AUG-74 10:48   23767 suggestion on the show commands: always
have a 'show' for a 'set'
Location: (GJOURNAL, 23767, 1:w)   2cp

RLL 12-AUG-74 10:32   23766 help subsystem suggestion: list the
subsystem which the command is in,
Location: (GJOURNAL, 23766, 1:w)   2cq

RLL 9-AUG-74 10:43   23750 A new jump command suggestion,
Location: (GJOURNAL, 23750, 1:w)   2cr

RLL 6-AUG-74 20:06   23740 sug on copy file command
Location: (GJOURNAL, 23740, 1:w)   2cs

NDM 24-JUL-74 15:36   23674 Read/Warm/outline numbering- NDM
response
Outline Numbering User Program
Location: (GJOURNAL, 23674, 1:w)
*****Note: [INFO-ONLY] *****

2ct

RLL 24-JUL-74 00:06   23671 user prog suggestion: assignment of
numbers to plex statements at beginning of statements
Location: (GJOURNAL, 23671, 1:w)   2cu

KIRK 18-JUL-74 17:47   23641 read/cool/process commands as
tutorials-supported
Process Commands used as tutorials,
Message: I have caught the enthusiasm from JAKE's (23637,), I
think these would be useful activated by a link in the Help
system, It would make it much more "interactive" ... an excellant
idea that might solve our current problem with examples,
*****Note: [INFO-ONLY] *****

2cv

NDM 18-JUL-74 11:48   30932 read/warm/split screen suggestion
Split Screen Commands
Location: (GJOURNAL, 30932, 1:w)

2cw

JAKE 17-JUL-74 14:37   23637 Read/Warm/Process command as training
idea
Other uses for Process Command Forms feature of New NLS

Citations to suggestions - RLL's collection since 1973,

    Location: (GJOURNAL, 23637, 1:w)

                                                                        2cx

    RLL 12-JUL-74 08:21 23610 add an 'OK' to sort command
    Message: strongly urge the sort command have a 'OK' confirming
    <CA>, At present, after address is given the sort takes off and
    does its thing,   2cy

    RLL 11-JUL-74 20:15 23601 help database suggestion:re process
    command
    Message: For the Help system (TNLS) if one seeks info on the
    process comand in the programs susbystem but enters help via a
    goto help and does a show process the help subsys thinks it is
    process sendmail command, think two items can be offerred one for
    each process command , Rob   2cz

        Comments: Just a test   2cz1

    KIRK 8-JUL-74 21:22 23551 Read/cool/new repeat command proposal
    DSEL modification need,
    Location: (GJOURNAL, 23551, 1:w)
    *****Note: [INFO-ONLY] *****

                                                                        2d@

    RLL 18-JUN-74 20:40 23397 indicate last OK was accepted
    indicate last OK was accepted,
    Message: One should have a three dot response or <CR> after the
    final CA or <CR> in commands such as update file, I find myself
    unsure if ii relly did hit the last confirmation, ture I could do
    a control t but that is more difficult, I a lazy especially at the
    TI,   2da

    RLL 18-JUN-74 19:41 23396 stop printing control characters
    stop printing control characters:suggestion
    Message: Is the control S functioning in the new NLS? also, may I
    suggest a control character to stop printing remainder of branch,
    that would be (I think) more meaningful than stopping statement
    printing snce most statements are short and by the time one types
    it the staement is done anyway, Robert,   2db

    RLL 7-JUN-74 09:38 23302 sug: New recognition mode:
    New recognition mode: a true expert-expert,
    Message: Please read (23294,) and (23298,) for suggestion on an
    additional recognition mode, I would not replace the
    expert-expert mode but have this new mode made in addition,   2dc

    RLL 6-JUN-74 18:01 23294 sug:New recognition mode
    New recgnition mode - True expert-expert
    Location: (GJOURNAL, 23294, 1:w)   2dd

Citations to suggestions - RLL's collection since 1973,

> Comments; Please comment ; will send to fdbk after your
> personnal response, Believe this to be a very important
> improvement in the system,   2dd1

RLL 5-JUL-74 11:31   23528 Suggestion for DNLS: relative addressing
without the nasty control U,
Message: Why cannot address be given with out option control char?
If text is to be given as address then option char can be use
then, this would make the following very nice: Jump back 7 <ca>
to mean jump back seven statements from the bug (which is the
<ca>) ,   2de

JHB 6-JUN-74 22:56 23298 Read/Hot/response to true expert-expert
mode
Response to (23294,) RLL:New recognition mode
Message: I think secondary and tertiary command level recognition
by spaces instead of unique spelling is worthy of serious
experimentation,
From a psychological viewpoint, the suggested operation is far
more consistant in psychomotor operation, Further, experiments
have shown that short term memory is more efficient utilizing
character consistency rather than alternatives (as it would be
using all numbersor all characters rather than the combination),
Whether this will affect long term memory of keystrokes for
command recognition can only be projected from the work on STM,
I recommend that this alternative be implemented as soon a
possible and that it be integrated with MDK's proposed online
command presentation scheme, It should be substituted for the
present expert/expert mode,
*****Note: [ACTION] *****

                                                                    2df

RLL 15-MAY-74 19:20   23011 sug:herald length zero
herald length zero, why not?
Message: Why can't tthe herald be set to length zero? The prompt
(if at least partially on) will be sufficient to key the user, The
terse option could be defaoult to be length zero if any prompt is
on (partial or full), otherwise leave terse as is when no prompt
is on,   2dg

RLL 10-MAY-74 18:19   22964 extra prompt in new nls
Message: In a few commands after one has a choice of input (e.g,
"OK:/ C:") the system response with the selected choice prompt,
E.G, update C: File OK:/C C: Compact OK:, It is nice to know what
I picked (Ithink) but in TNLS I feel it is unnecessary and adds
to the overabundance of feedback characters, True one can turn
the whole thing of via useroption but why have iit at all, just
added work for the system, the newtork and the terminal (as well
as the human trying to watch every character), OUT DAMN C,   2dh

Citations to suggestions - RLL's collection since 1973,

RLL 8-MAY-74 11:22 22917 Show directory command; comments
Location: (MJOURNAL, 22917, 1:w)   2di

RLL 8-MAY-74 10:30 22916 help sys: useopt
help sys: useopt
Message: For TNLS users, useroption subsystem the help system
could stand a bit of improvement, the description of
'currentcontext' command seems like the description for the reset
currentcontext command, The menu items also seem to be mixed up,   2dj

RLL 6-MAY-74 16:00 22910 Stack no; ring yes
Stack no; ring yes,
Message: I strongly urge that the link stack should not be simply
a push down, pop-off stack, I have found severa times that I
wished to return to previous files, I flip back and forth among
three files or two files, As presently implemented I lose the
third file, Please let me know reasons if this is not possible,
thnaks Robert   2dk

RLL 6-MAY-74 14:09 22909 Semicolons in new NLS, Where are they?
Semicolons in new NLS, Where are they?
Message: Apparently the semicolons context search is not
functional in New NLS, Only the ",," can be used, This is
unforatunate because when using TNLS to shift and hunt for the
quote is not a smoth operation for most typists, if text searching
within statement is be via the "=s" suffix, then may I suggest
that some 'no shift' charcter be used, semicolons is a good choice
- the pinky finger rests on it; also a colon mihgt be good but
this varies from termnal to termnal, P.S, I thought that the
semicolon, angle bracket, square bracket searches were in NEW NLS,
Additional note: an equal sign is also an uppercase charcter,
Robert   2dl

RLL 6-MAY-74 13:43 22907 Space needed in New TNLS
Space needed in New TNLS
Message: on new NLS: at the typewriter terminals for TNLS, there
should definitely a space after the address and the next noise
words or prompts, e,g, ,,,A:/[T]: addressThrough A:/[T]: address
,,,,, Robert   2dm

RLL 23-APR-74 18:16 22811 show command in help system
suggestion on show command in help system
Message: I have found that the show command in the help subsystem
(new TNLS) is annoying, Just typing the nemu number or series
ofwords should be enough for help to help, the other commands
could be keyed in my a space (<space>q[uit],etc,) Since the
overwhelming (95% is my guess)command wouldbe the show command, it
would make good sense to change it from a programming point of
view as well as a user point of view,   2dn

Citations to suggestions - RLL's collection since 1973,

RLL 23-APR-74 12:48   22804 help system suggestion
Message: suggestion on help system: the show < command returns one
to next higher level; fine, But in TNLS it would be nice to return
to this point without printing out all the "help" info again
· includingg the menu (it was presumedly printed out before and one
.can look at it), Yes, one could use the control D command to
cease printing but this is not 'neat', If not too hard suggestion
a show <n command to supress the printing,   2do

RLL 23-APR-74 12:43   22803 help system suggestion: name delimitors
Message: suggestion: add to help database the fact that when
statement delimitors are set for STRUCTURE that this remains with
the file for all time until changed, not just for current online
session,   2dp

SRL 12-APR-74 12:35   22714   calendar: read - hot
File about online calculator
Message: I have a file (lee,cal,) with some preliminary ideas
about an online calculator, Feel free to take a look and let me
know what you think, I've never tried writing a design document
before, so beware!

                                                                    2dq

NDM 6-DEC-73 17:55   20799 Re: (20109,) & (20746,)
Message: I think appending a letter to indicate time zone to the
strings generated by the directives GT and GDT is a reasonable
addition, Its real merit lies in the expansion of NLS to other
hosts (at present it is never really ambiguous), The four
additional directives Mr. Lieberman suggests are also very
reasonable requests, particularly considering the expected
increase in Network use of NLS, I would hope that both these
changes will be made, but they don't seem like items of the
highest priority at present,

                                                                    2dr

CHI 6-DEC-73 09:18   20740 Response to 20258 and 19557
Message: Robert, Thanks for the suggestions on margin notes and
remarks, We have been thinking along a slightly different line
which will yield the same results but it wont happen tomorrow, We
will consider your idea and its impact on our previous plans, --
Charles Irby

                                                                    2ds

RWW 16-NOV-73 17:02   20339 Reply to (20258,) on the Need for a
Remarks Entity
Message: Robert, your suggestion on remarks is appreciated, For a
long time a ccomments capability has been on our want list along
with footnotes and other related issues, There are a number of
journal items over the past two years on these topics with

suggestions, Implementation keeps getting pushed because of other
items with seeming higher priority, We just don't have the
resources to do all the good things that would be useful that
people think of, A commet facility will eventually see the light
of day and your suggestion will be considered, I can't promise
when however, but please keep sending ideas, They are not lost
and are appreciated,@

2dt

RLL 15-NOV-73 08:27   20258 re: new text string - remarks
Location: (IJOURNAL, 20258, 1:w)   2du

   re: intra-statement remarks - suggestion   2du1

      i suggest that a special intra-statement text string be
      implemented, called remarks, this string would be delimited
      by special characters, default for example being % (percent
      signs), this delimitor could be changed in a fashion similar
      to statement name delimitors,   2du1a

      the purpose of 'remarks' is to allow intra-statement text
      that is completely ignored in the nls print command or the
      output processor (by means of a switch for nls and a new
      directive for the output processor), this will enable the
      user to put comments or remarks or notes at places in the
      statement where they apply, this suggestion stems from the
      typical way people read documents, also, this concept can
      be used in creating papers, the remarks would be used by
      the various authors, edtiors, or typists to communicate
      suggestions, alternative text, or missing text,   2du1b

      the command i[nsert] r[emarks] [at a:] addr ca [t:] would
      insert the specified text after the given address and
      enclose the text with the , in effect, delimitors, the
      commands delete remarks, move remarks, copy remarks would
      have the obvious results,   2du1c

      two options are possible- the remarks text for computation
      of addresses could be a) ignored or b) not ignored, at the
      moment i am not sure which would be better, perhaps it
      should be related to the printing option, that is, if
      remarks printing is desired then all addresses would take in
      consideration the remarks text and if no remarks printing is
      desired then the addresses would be computed as if the
      remarks text was not there, clearly this might cause some
      confusion and i can conceive that such an option would be
      difficult to implement,   2du1d

this suggestion is an alternative to the margin notes
suggestion made early, possibly both might be desirable.   2du1e

i would like comments on both this suggestion and the margin
notes suggestion,(see nic document (kjournal,19557,) for
margin notes suggestion) robert lieberman (rll)
(nsrdc@sri-arc)   2du1f

RLL 8-NOV-73 11:49 20109 output processor suggestion re: time
zones
Message: the time zone would be very nice to append to the
commands 'gdt' and 'gt', one letter would do, namely, e =
eastern, c=central, m=mountaan, p= pacific, daylight vs standard
time should not be a problem, clearly we have another set of
commands now possible, 'gdte', 'gdtc', 'gdtm', and 'gdtp', (also
for 'gt,') 'gt' and 'gdt' would always append 'p' unless the new
commands are included in the system, robert   2dv

JCN 24-OCT-73 17:33 19848 Reply to (19825,): Append Command Needs
Message: Robert: About the append ideas-- you might like to try
the user-program append with the goto programs get append and
then goto programs execute append connamd, This asks you what
group of statements you want appended and what text inserted
between them as they go together, Is this what you want?? lso,
there is a smarter input sequential user program called inseqh or
such, I think it does som level setting stuff according to the
number of consequetive CR's,...might help, I assume you are using
the INMES stuff on sndmsgs,,it's a user program too,,,I guess we
discussed it, Let me know if this helps you ok? Jim

                                                               2dw

RLL 23-OCT-73 08:41 19825 suggestion on a new append statement
Message: after a execute insert sequential there exist a nls file
with no structure, we have found it desirable to structure it by
joining (appending) several statements together, however, the
append command operates on statements only, we suggestion that
aappend be extended to groups, so that one can append to a
statement from a group of statements, namely, append to statement
.1 from .3 to .13 etc, one could call this ommand group append
to distinguish from append, robert lieberman of nsrdc   2dx

RLL 8-OCT-73 18:09 19557 margin note addition to nls
Location: (KJOURNAL, 19557, 1:w)   2dy

i suggest a margin note part of a statement, this would act as
marginal notes for the specified statement, there would be an
option of printing these notes or not printing them, they
would be inserted with a special insert statement or through a
special address reference (e.g. m.1a2 to mean the margin of

.1a2), all editing (change, replace, delete, etc) will not
(repeat not) effect any change in the address referencing of
the text body itself (so one does not need to know what is in
the margin for referncing), in a very real sense the margin
will act as a separate file with identical statement structure,
this could be simulated in display nls by splitting your screen
in two, but the advantages of having it within the same file as
the text body seems to me worth it, of course typewriter nls
would have no other choice,   2dy1

the motivation for this suggestion stems from the desire to
have all the advantages of the hardcopy environment
incorporated into nls   2dy2

robert lieberman nsrdc (rll)   2dy3

RLL 5-OCT-73 10:20 19525 for output processor : new command
'GrabS'
Message: a suggestion for the output processor, the command
'Grab' serves a useful function for lines; why not have a similar
command (GrabS') for statements, One often does nto knwo how many
lines will be in a statement but a header statement such as a
chapter title will be followed by another statement,   r,
lieberman of nsrdc   2dz

VGC 27-SEP-73 19:42 19354 Response to LINK change proposed by KEV
Location: (JJOURNAL, 19354, 1:w)

                                                              2e@

KEV 26-SEP-73 16:57 19324 [NWG/RFC# 576]
proposal for modifying linking
Location: (JJOURNAL, 19324, 1:w)

                                                              2ea

RLL 18-JUL-73 11:54 17867 new entity for nls
Location: (LJOURNAL, 17867, 1:w)   2eb

Citations to suggestions - RLL's collection since 1973,

(J26369) 3-SEP-75 17:12;;;; Title: Author(s): Robert N.
Lieberman/RLL; Distribution: /EKM([ACTION]) JBP([ACTION])
SRI-ARC([INFO-ONLY]) ; Sub-Collections: SRI-ARC; Clerk: RLL;
Origin: < ARC-LOG, SUGS.NLS;1, >, 3-SEP-75 16:50 RLL ;;;;####;

26369 Distribution
N. Dean Meyer, James E. (Jim) White, Douglas C. Engelbart, Martin E.
Hardy, J. D. Hopper, Charles H. Irby, Harvey G. Lehtman, James C.
Norton, Jeffrey C. Peters, Dirk H. Van Nouhuys, Kenneth E. (Ken)
Victor, Richard W. Watson, Don I. Andrews,
Elizabeth K. Michael, Jonathan B. Postel, David C. Smith, Mary Ann
Kellan, Buddie J. Pine, Andy Poggio, David L. Retz, Laura J. Metzger,
Karolyn J. Martin, Jan A. Cornish, Larry L. Garlick, Priscilla A.
Wold, Pamela K. Allen, Delorse M. Brooks, Beverly Boli, Rita Hysmith,
Log Augmentation, Joseph L. Ehardt, Raymond R. Panko, Susan Gail
Roetter, Robert Louis Belleville, Rene C. Ochoa, Ann Weinberg, Adrian
C. McGinnis, Robert S. Ratner, David S. Maynard, Robert N. Lieberman,
Sandy L. Johnson, James H. Bair, Jeanne M. Leavitt, Rodney A.
Bondurant, Jeanne M. Beck, Marcia L. Keeney, Elizabeth K. Michael,
Jonathan B. Postel, Elizabeth J. Feinler, Kirk E. Kelley

Two bugs with OP and COM

Discovered while trying to format Air Force Manuals

Two bugs with OP and COM

Split does not work after a TabTo in headers. This configuration
works in the body and so should work in the header. For example try
outputting this message with the following directives.   1

1

Two bugs with CP and COM

ParagraphPage

The second problem is a com problem with column vertical spacing,
The last line seems to be left off of all columns that begin with a
paragraph which would otherwise be automatically preceeded by a blank
line.   2

Two bugs with CP and COM

(J26371)   3-SEP-75 15:40;;;;   Title: Author(s): Kirk E, Kelley/KIRK;
Distribution: /EKM([ACTION]) HGL([ACTION]) FEED([ACTION]) ;
Sub-Collections: SRI-ARC; Clerk: KIRK;

26371 Distribution
    Elizabeth K, Michael, Harvey G, Lehtman, Special Jhb Feedback,

Dialog Concerning Copy Directory

3-SEP-75 1426-PDT FEEDBACK(FEED) at OFFICE-1: *Copy Directory
Command*
   Distribution: , DVN(VANNOUHUYS at BBN-TENEXB), FEED(FEEDBACK)
   Received at: 3-SEP-75 17:27:24-EDT   1

   In reply to your message of 2-SEP-75 1206-P   DVN Journal:
   (26354,) Subject: Copy Directory Doesn't Work   1a

     Dirk, I need some more information about your problem with the
     Copy Directory command. Where were you working? Were you in
     TNLS or DNLS?
     Pam   1a1

     >>>I was working at BBNB in DNLS,___   1a2

Dialog Concerning Copy Directory

(J26373)   3-SEP-75 22:22;;;;   Title: Author(s): Dirk H, Van
Nouhuys/DVN; Distribution: /FEEDBACK([ACTION]) ; Sub-Collections:
SRI-ARC FEEDBACK; Clerk: DVN;

26373 Distribution
Special Jhb Feedback,

Word Processing Seminar

I'm forwarding this note Susan sent me,

Word Processing Seminar

3-SEP-75 1604-PDT ROETTER at OFFICE-1: Mail from OFFICE-1
  Distribution: VANNOUHUYS AT BBNB
  Received at: 3-SEP-75 19:05:35-EDT   1

From Word Processing World (July-August 1975)   1a

Sept. 16-18 -- WP conference sponsored by the International Word
Processing Association will feature 2 1/2 days fo seminars and
equipment exhibits at the San Francisco Hilton. Fee for IWP
members, $100; $125 for non-members. For information: IWP,
WIllow Grove, PA   19090   1b

Word Processing Seminar

(J26374) 3-SEP-75 22:27;;;; Title: Author(s): Dirk H. Van Nouhuys,
Susan Gail Roetter/DVN SGR; Distribution: /DPCS([INFO-ONLY])
DOCPLAN([INFO-ONLY]) ; Sub-Collections: SRI-ARC DPCS DOCPLAN;
Clerk: DVN;

26374 Distribution
    Douglas C. Engelbart, Dirk H. Van Nouhuys,
    Marilynne A. Sims, Delorse M. Brooks, Elizabeth F. Finney, Beverly
    Boli, Joseph L. Ehardt, James H. Bair, Robert N. Lieberman, Pat
    Whiting O'Keefe, James H. Bair, Robert Louis Belleville, Ann
    Weinberg, Thomas L. Humphrey, Jeanne M. Leavitt, Kirk E. Kelley,
    Duane L. Stone, Elizabeth J. Feinler, N. Dean Meyer, Dirk H. Van
    Nouhuys, Douglas C. Engelbart, James C. Norton, Richard W. Watson,
    Charles H. Irby, Raymond R. Panko, James H. Bair, David R. Brown,
    Glenn A. Sherwood, N. Dean Meyer, Kathey L. Mabrey, Norman R.
    Nielsen, Thomas L. Humphrey, Robert Louis Belleville, Elizabeth K.
    Michael, Richard W. Watson, James C. Norton, Robert N. Lieberman, Pat
    Whiting O'Keefe

Please review and indicate corrections to me.

This is a statement of milestones for SRI-ARCs NSW effort, these
are our current best estimates, we expect that as we progress in
the various tasks our estimates may change and this note will be
updated.   2a

Terms   2b

   Base   2b1

      The central core editing commands of NLS   2b1a

   NLS 8.0   2b2

      The existing NLS at Office-1 and BBNB.   2b2a

   NLS 8.5   2b3

      The NLS with the file structure and Graphics initial
capabilities.   2b3a

   NLS 9.0   2b4

      The NLS with the front-end back-end split, using the CLI,
and integrated into the NSW.   2b4a

   CLI   2b5

      Command Language Interpreter   2b5a

   DPS 2.5   2b6

      The Distributed Programming System as defined in July 1975.   2b6a

   FE-10   2b7

      The Front-End on the PDP-10 Tenex: this is principally the
CLI, but is dependent on communication and Terminal Control
modules as well as the operating system.   2b7a

   FE-11   2b8

      The Front-End on the PDP-11: this is principally the CLI,
but is dependent on communication and Terminal Control
modules as well as the operating system.   2b8a

"char tty"   2b9

    This characterizes the character at a time interaction using
    hardcopy terminals, withn echoing and prompting provided by
    the CLI.   2b9a

"half duplex tty"   2b10

    This characterizes the interaction where the terminal echos
    the characters actually typed, and the CLI has no
    information about how much has been typed (ie, line at a
    time or not) thus the CLI does no echoing or prompting.   2b10a

"display"   2b11

    This characterizes a full duplex two dimentional
    alphanumeric display work station incorporating a line
    processor,   2b11a

NLS   3

  WM-NLS file interaction design document   1-Aug-75   3a

    DONE 30-July-75 (See -- 26222,)   3a1

  NLS 8,5 ready for experimental use   15-Aug-75   3b

    DONE 5-Aug-75 (Up at ISIC)   3b1

  Identification system specification document   15-Aug-75   3c

    DELAYED -- now expected   10-Sep-75   3c1

  Base in NSW accessed in char tty mode   21-Aug-75   3d

    DELAYED due to debugging problems
    with MSG communication protocol   3d1

    The combination of Base for NLS 9,0,
    the CLI and a communication using the MSG protocol now
    works, The interface to the NSW file system is not
    even begun design since definite specifications of the
    interface are not available,   1-Sep-75   3d2

  Journal design document   1-Sep-75   3e

    Delayed -- now expected   1-Dec-75   3e1

  Editing Tools for Standard Air Force Manuals: 3f

modify subsystems in 8,5	15-Sep-75	3f1
format subsystems in 8,5	15-Sep-75	3f2
Table of Contents feature in 8,5	15-Sep-75	3f3
Programs subsystem	1-Oct-75	3g
Cobol Output subsystem in both 8,0 and 8,5	1-Oct-75	3h
DONE 22-Aug-75		3h1
Base in NSW accessed in display mode	15-Nov-75	3i
Hyphenation feature	1-Nov-75	3j
Calculator subsystem	1-Dec-75	3k
UserOptions subsystem	1-Dec-75	3l
XXX subsystem	1-Dec-75	3m
Syntax Generator	1-Dec-75	3n
NLS 8,5 ready to be used by the utility	1-Jan-76	3o
Output Processor modifications	1-Mar-76	3p
Editing Tools for Standard Air Force Manuals:		3q
modify subsystems in 9,0	1-Mar-76	3q1
format subsystems in 9,0	1-Mar-76	3q2
Table of Contents feature in 9,0	1-Mar-76	3q3
Sendmail and Journal	1-Apr-76	3r
Graphics in NLS 9,0	1-Apr-76	3s
LSI 11 terminal controller	1-Apr-76	3t
Front End		4
FE-10 (char tty, new tool) runs	15-Aug-75	4a
DONE 15-Aug-75		4a1
FE-10 (char tty, old tool) runs	15-Oct-75	4b

NSW Milestones

NLS Calculator subsystem documentation	15-Dec-75	6g
Front End user documentation (on line)	1-Jan-76	6h
Front End user documentation (off line)	1-Jan-76	6i
Front End system documentation	15-Jan-76	6j
Front End tool suppliers information document	1-Feb-76	6k
NLS Graphics Documentation	1-Feb-76	6l
Debugger Document	1-Feb-76	6m
NLS Journal documentation	1-Apr-76	6n

NSW Milestones

(J26375) 4-SEP-75 01:37;;;;   Title: Author(s): Jonathan B.
Postel/JBP; Distribution: /EKM([ACTION]) BEV([ACTION]) CHI([
ACTION]) JEW([ACTION]) RWW([INFO-ONLY]) ; Sub-Collections:
SRI-ARC; Clerk: JBP;   Origin: < POSTEL, MILESTONES,NLS;14, >,
4-SEP-75 01:34 JBP ;;;;####;

26375 Distribution
   Elizabeth K. Michael, Beverly Boli, Charles H. Irby, James E. (Jim)
   White, Richard W. Watson,

Gunter Going

I am off again for two weeks (maybe more) at Gunter. The first week,
there is going to be another major rewrite of a volume of AFM66-1.
The second week will be a smaller rewrite of another volume. Work
will continue on the test PR document as well as the other projects
that are ongoing. I will keep in touch as to what is happeneing. I
hope to back Sept. 22, pooh   1

Gunter Going

(J26376)   4-SEP-75 11:20;;;;   Title: Author(s): Ann Weinberg/POOH;
Distribution: /SRI-ARC([INFO-ONLY]) ; Sub-Collections: SRI-ARC;
Clerk: POOH;

26376 Distribution

Douglas C. Engelbart, Martin E. Hardy, J. D. Hopper, Charles H. Irby, Harvey G. Lehtman, James C. Norton, Jeffrey C. Peters, Dirk H. Van Nouhuys, Kenneth E. (Ken) Victor, Richard W. Watson, Don I. Andrews, David C. Smith, Mary Ann Kellan, Buddie J. Pine, Andy Poggio, David L. Retz, Laura J. Metzger, Karolyn J. Martin, Jan A. Cornish, Larry L. Garlick, Priscilla A. Wold, Pamela K. Allen, Delorse M. Brooks, Beverly Boli, Rita Hysmith, Log Augmentation, Joseph L. Ehardt, Raymond R. Panko, Susan Gail Roetter, Robert Louis Belleville, Rene C. Ochoa, Ann Weinberg, Adrian C. McGinnis, Robert S. Ratner, David S. Maynard, Robert N. Lieberman, Sandy L. Johnson, James H. Bair, Jeanne M. Leavitt, Rodney A. Bondurant, Jeanne M. Beck, Marcia L. Keeney, Elizabeth K. Michael, Jonathan B. Postel, Elizabeth J. Feinler, Kirk E. Kelley, N. Dean Meyer, James E. (Jim) White

1

Comment on (26370,) Gunter Trip Report

Jeanne, I think your trip report is excellent, very clear and
readable and very complete. Should help other people around here get
a picture of what's going on, I think it's a good model for other trip
reports. Just one thing for all of US's info, Lynn wasn't hired as
Larry's secretary. I slipped and said that when I was there last and
she corrected me. I'm not sure what her title is but she is
sensitive about that.   1

Comment on (26370,) Gunter Trip Report

(J26377)   4-SEP-75 11:26;;;;   Title: Author(s): Susan Gail
Roetter/SGR; Distribution: /JMB([ACTION]) US([INFO-ONLY]) ;
Sub-Collections: SRI-ARC US; Clerk: SGR;

26377 Distribution
Jeanne M. Beck, Susan Gail Roetter, Priscilla A. Wold, Jeanne M.
Beck, Pamela K. Allen, Rita Hysmith, Sandy L. Johnson,

Comment on (33384,) HRRO contractor

Connie McLindon has expressed interest lately about finding some ARPA
contractors that are distributed to start communicating with the
sponsoring ARPA office (HRRO in this case), You noted in your
message that a full fledged group mihght come on next spring, Is
there a possibility that as a preliminary a few people (maybe these
two) could become users of the ARPA slots for the purpose of
communicating with people in HRRO they have dealings with? Connie is
trying to make better use of the slots they have (they have 5 and are
using only time for 1), If you want to talk more about this let me
know.   1

Comment on (33384,) HRRO contractor

(J26378)   4-SEP-75 11:39;;;;   Title: Author(s): Susan Gail
Roetter/SGR; Distribution: /DCE([ACTION]) RH([INFO-ONLY]) ;
Sub-Collections: SRI-ARC; Clerk: SGR;

26378 Distribution
    Douglas C. Engelbart, Rita Hysmith,

Exporting the CLI/CML Package; Support for Ken's (26367,)

Ken's notion of exporting the CLI/CML package is, I think, a terrific
one. Upon first exposure to the internals of Tenex I was amazed to
learn that the sophisticated and fairly similar command languages of
the EXEC and TELNET were implemented by totally independent CLIs.
The general principle behind Ken's suggestion is also important.
Many features of NLS are significant products in their own right.
And exposure to individual tools may help people see the need for the
whole workshop.   1

Exporting the CLI/CML Package; Support for Ken's (26367,)

(J26380)   4-SEP-75 13:03;;;;   Title: Author(s): James E. (Jim)
White/JEW; Distribution: /SRI-ARC([INFO-ONLY]) ; Sub-Collections:
SRI-ARC; Clerk: JEW;

26380 Distribution

Douglas C. Engelbart, Martin E. Hardy, J. D. Hopper, Charles H. Irby,
Harvey G. Lehtman, James C. Norton, Jeffrey C. Peters, Dirk H. Van
Nouhuys, Kenneth E. (Ken) Victor, Richard W. Watson, Don I. Andrews,
David C. Smith, Mary Ann Kellan, Buddie J. Pine, Andy Poggio, David
L. Retz, Laura J. Metzger, Karolyn J. Martin, Jan A. Cornish, Larry
L. Garlick, Priscilla A. Wold, Pamela K. Allen, Delorse M. Brooks,
Beverly Boli, Rita Hysmith, Log Augmentation, Joseph L. Ehardt,
Raymond R. Panko, Susan Gail Roetter, Robert Louis Belleville, Rene
C. Ochoa, Ann Weinberg, Adrian C. McGinnis, Robert S. Ratner, David
S. Maynard, Robert N. Lieberman, Sandy L. Johnson, James H. Bair,
Jeanne M. Leavitt, Rodney A. Bondurant, Jeanne M. Beck, Marcia L.
Keeney, Elizabeth K. Michael, Jonathan B. Postel, Elizabeth J.
Feinler, Kirk E. Kelley, N. Dean Meyer, James E. (Jim) White

CONTACT: Saudia Arabia CPO, Mosley on 7 Aug 75

For the record, No potential,

CONTACT: Saudia Arabia CPO, Mosley on 7 Aug 75

(ARABIA) Contact report 26381   1

  (DATE) 7 Aug 75   1a

  (BY) Lieberman   1b

  (ATTENDEES)   1c

    Sammy Mosley - Saudia Arabia CPO   1c1

    Ray Kelly - SRI   1c2

    Robert Lieberman - SRI-ARC   1c3

  (ADDRESSES) Full name of organization, address, and phon   1d

    Mosley   1d1

      Vice president of the Central Planning Organizatio
      Saudia Arabia   1d1a

  (MEDIUM) FACE-TO-FACE   1e

  (WHERE) ARC, Menlo park, CA   1f

  (ACTION-ITEMS)   1g

    Actions taken, to be taken, etc,, dated   1g1

  (DISTRIBUTION) ARC-LOG DCE JCN RLL   1h

  (REFERENCES) <19123,> JCN 18-Sep-73   1i

  (DOCUMENTS) Hard copy given and received   1j

    (GIVEN) Date and documents given   1j1

    (RECEIVED) Date and documents received   1j2

  (REMARKS)   1k

    Mosley's boss, the president of CPO, saw a demo at ARC
    years ago; thus Mosley requested a demo.   1k1

    Kelly is a senior economist and leader of SRI's projec
    Central Planning Organization. Bud Soucie, Systems &
    MSD-London, was suppose to come but did not make it,   1k2

CONTACT: Saudia Arabia CPO, Mosley on 7 Aug 75

Basically I gave the usual demo. There seemed to be little
interest and the visit was kept short.   1k3

I felt it was important to give the demo really for the SRI
guy, Kelly, so he would be aware of what we have going on.
There did not seem any particular interest on his part.   1k4

This demo was set up by Dave Brown.   1k5

CONTACT: Saudia Arabia CPO, Mosley on 7 Aug 75

(J26381) 4-SEP-75 14:48;;;; Title: Author(s): Robert N,
Lieberman/RLL; Distribution: /ARC-LOG([INFO-ONLY]) DCE([INFO-ONLY
]) JCN([INFO-ONLY]) RLL([INFO-ONLY]) ; Sub-Collections:
SRI-ARC ARC-LOG; Clerk: RLL;

26381 Distribution
James C. Norton, Log Augmentation, Douglas C. Engelbart, James C. Norton, Robert N. Lieberman,

V. RUN-TIME ENVIRONMENT

Run-time errors will be reported in terms of the structure of the source program (this might be in the form of a postprocessor).

There will be a well defined, standard operating system interface.

There will be a well defined, standard data base interface.

There will be a common object data format for transferring records between machines.

There will be dynamic debugging facilities, in terms of the source language, including commands to set and reset breakpoints on any statement in the program, the ability of the system to return control to the user in the event of a program error, facilities for examining and altering any data item in a program once it has been frozen and control returned to the interactive debugging control, the ability to restart the program not necessarily at the point at which execution was interrupted, facilities for deleting, replacing and inserting lines in the program, commands to request statistical information about the behavior of the program, and convenient methods for initiating any of the foregoing facilities.

CONTACT: CINCPAC, Eulenstein on 5 August 75

Shows the need to let other SRI people know about us.

CONTACT: CINCPAC, Eulenstein on 5 August 75

(CINCPAC) Contact report 26382   1

  (DATE) 5 August 75   1a

  (BY) Lieberman   1b

  (ATTENDEES)   1c

    Cdr, Karl Eulenstein - CINCPAC   1c1

    Charles Phillips - SRI-NWRC-Hawaii   1c2

    Fred Forsyth - SRI-WWRC   1c3

    Paul Tuan - SRI-ISL   1c4

    Robert Lieberman - SRI-ARC   1c5

  (ADDRESSES) Full name of organization, address, and phone number   1d

  (MEDIUM) FACE-TO-FACE   1e

  (WHERE) ARC, Menlo Park, CA   1f

  (ACTION-ITEMS)   1g

    Actions taken, to be taken, etc,, dated   1g1

  (DISTRIBUTION) ARC-LOG DCE JCN RLL   1h

  (REFERENCES)   1i

  (DOCUMENTS) Hard copy given and received   1j

    (GIVEN) Date and documents given   1j1

      "Coordinated Information Services for a Discipline- or
Mission-Oriented Community," Douglas Engelbart, 12-DEC-72,
(mjournal,12445,)   1j1a

      "The Augmented Knowledge Workshop," Douglas C, Engelbart,
Richard W, Watson, and John C, Norton, 1-MAR-73,
(ijournal,14724,)   1j1b

      "Investments in Tomorrow," SRI, No, 14, Winter 1975   1j1c

    (RECEIVED) Date and documents received   1j2

  (REMARKS)   1k

CONTACT: CINCPAC, Eulenstein on 5 August 75

At the request of Dave Brown I gave a demonstration to the
above attendees.   1k1

All seem interested in what our AKW system offered. Eulenstein
was going to check out the Pete Tasker contact I mentioned.
Pete was here some time ago and was trying to interest MITRE
and /or CINCPAC in our service.   1k2

CONTACT: CINCPAC, Eulenstein on 5 August 75

(J26382) 4-SEP-75 15:26;;;; Title: Author(s): Robert N.
Lieberman/RLL; Distribution: /ARC-LOG([INFO-ONLY]) DCE([INFO-ONLY
]) JCN([INFO-ONLY]) RLL([INFO-ONLY]) ; Sub-Collections:
SRI-ARC ARC-LOG; Clerk: RLL;

Another item for the KWAC agenda

Output Processor   1

    I don't know if this is really big enough to merit a spot on the
    formal agenda, but I'd like it considered: (1) even dumb text
    processors like RUNOFF routinely provide right and left
    justification. Why can't NLS? In fact, Jim Norton tells me that
    full justification was available in NLS-7, but that it didn't
    carry over to NLS-8. This is a pain; more important, I find that
    it hampers me in my efforts to expand the usergroup and get
    financial support for the system.   1a

    (2) This is really trivial, but, while I'm on the subject: I'd
    like the option of getting SIDs through the Output Processor
    instead of either statement numbers or nothing. This should be
    simple, but it hasn't been done.   1b

    (3) Other OP problems or needs.   1c

Another item for the KWAC agenda

(J26383)   4-SEP-75 14:01;;;;   Title: Author(s): David A, Potter/DAP;
Distribution: /FGB([ACTION]) KWAC([INFO-ONLY]) ;
Sub-Collections: NIC KWAC; Clerk: DAP;

26383 Distribution

Frank G, Brignoli, Marilynne A, Sims, Elizabeth F, Finney, Lawrence A, Crain, E, S, VonGehren, Glenn A, Sherwood, Kathey L, Mabrey, Jeanne M, Beck, David A, Potter, Robert N, Lieberman, Terry H, Proch, Ronald P, Uhlig, Susan Gail Roetter, Michael A, Placko, Stanley M, (Stan) Taylor, Elizabeth J, Feinler, Rudy L, Ruggles, Frank G, Brignoli, Robert M, Sheppard, Richard W, Watson, Douglas C, Engelbart, James C, Norton, James H, Bair, Duane L, Stone, Inez M, Mattiuz, Connie K, McLindon,

1

OP Features You want

Forgot to mention to best of my knowledge OP never did support right
justification in NLS 7 except for COM

OP Features You want

The output processor does support right justification for COM. We are
presently augmenting that capability witha hyphenation facility. To
do same for line printer would not be that hard, but nobody with
funding has pushed us to do it. There is a version of OP available
that does support SIDs with some additional capabilities. It is
accessed not as standard OP because its under development for NSW,
but probably could be used by others if they desired and the
applications side ogthe house felt they want to support it now. It
will be converted to be the standard running OP in near future.
Discussions of OP probably useful agenda item. Dick Watson   1

OP Features You want

(J26384)   4-SEP-75 17:31;;;;   Title: Author(s): Richard W.
Watson/RWW; Distribution: /DAP([ACTION]) EKM([INFO-ONLY]) JCN([
INFO-ONLY]) SGR([INFO-ONLY]) ; Sub-Collections: SRI-ARC; Clerk:
RWW;

26384 Distribution
David A. Potter, Elizabeth K. Michael, James C. Norton, Susan Gail
Roetter,

message sending

congratulations, you are the subject of a test!   1

message sending

(J26385)   4-SEP-75 16:04;;;;   Title: Author(s): Priscilla A.
Wold/PAW2; Distribution: /PAW2([INFO-ONLY]) PKA([INFO-ONLY]) ;
Sub-Collections: SRI-ARC; Clerk: DAV;

26385 Distribution
    Priscilla A, Wold, Pamela K, Allen,