Feedback to 23 Aug 74

(J31025) 23-AUG-74 16:47; Title: Author(s): Special Jhb
Feedback/FEED; Sub-Collections: SRI-ARC; Clerk: FEED;
Origin: <FEEDBACK>FEED.NLS;30, 30-JUL-74 11:42 FEED ;

Feedback to 23 Aug 74

For the record

Feedback to 23 Aug 74

(NLSControlCharacters) **   1

  CD =   1a

(journal)   2

    ILA 23-AUG-74 05:17   31022
    Bug in TNLS text scanning
    Message: Problem in using TNLS in scanning for text using the
    ;text; type delimiter. When a backspace is performed in the
    string the search ends up at the beginning of the file rather then
    at the correct position. All indications are that the text string
    was properly located and any changes go at the beginning of the
    file.
                                                                            2a

    EJK 26-JUL-74 12:24   30949
    Dimaggio directory
    Message:
                                                                            2b

    NDM 3-JUL-74 13:38   23520
    Message from Kennedy: bug report
    Location: (MJOURNAL, 23520, 1:w)
                                                                            2c

      Comments: [ACTION]   2c1

    SRL 4-JUN-74 08:57   23229
    Missplaced bug
    Location: (MJOURNAL, 23229, 1:w)
    *****Note: [ACTION] *****
                                                                            2d

    MEH 30-MAY-74 08:39   23162
    Office-1, Line Scanner bug, request to fix.
    Location: (MJOURNAL, 23162, 1:w)
    *****Note: [INFO-ONLY] *****
                                                                            2e

      Comments: Jim: This is the request to Tymshare to fix the
      Line-Scanner bug that pervents Bell Canada from inputing
      cassette through their Mux link, John Swarbrick (Tymshares
      Service Mgr) said they would correct ASAP.   2e1

(messages)   (:xbb)   3

  (JULY)   3a

Feedback to 23 Aug 74

3-JUL-74 0619-PDT NSA: sndmsg ctrl codes
Distribution: FEEDBACK
Received at: 3-JUL-74 06:19:48   3a1

   We have been having trouble getting ^S to print back the
   entire (or any)
   message after inserting a file, Any suggestions?   3a1a

   Jess Hill   3a1b

3-JUL-74 1511-PDT FEEDBACK: sndmsg control codes
Distribution: NSA, feedback
Received at: 3-JUL-74 15:11:34   3a2

   Jess Hill, ^S is intercepted by NLS when you leave it to Go
   to Exec, (NLS is calling the Exec then and ^S doesntget
   through,,,BBN thing), However, ^R still works for retyping
   up to the last CR, This problem will be corrected in a New
   NLS to be offered in the Fall,   Jim   3a2a

4-JUL-74 0526-PDT NAPKE: IBM Tapes
Distribution: FEEDBACK, mattiuz, napke
Received at: 4-JUL-74 05:26:16   3a3

   Could tell me at what address to send the tape?   3a3a

   Do you if the tape could be ruined by the customs
   people,,,like do they have some sort of magnetic detecting
   equipment?   I forhot at word at the beginning of the
   previous sentence,,,,it's "Do you know if" not "Do you if", 3a3b

   Penny   3a3c

4-JUL-74 0733-PDT NAPKE: IM Tapes
Distribution: FEEDBACK, mattiuz, napke
Received at: 4-JUL-74 07:33:55   3a4

   I forgot to mention something this morning when I sent you a
   message,,,,so here goes, We were planning to use the DEX
   program to convert the TEXT FILE (ince the contents of the
   tape has been dumped into OFFICE-1) to an NLS file, The tape
   we are send ing you will contain level adjusters (u's and
   d's) and when to start a new statement (|), Do you see any
   problems in using the DEX program?   3a4a

   penny   3a4b

8-JUL-74 0849-PDT MEYER: SORTREV

Feedback to 23 Aug 74

        Distribution: BAIR AT ARC, feedback, feedback at ARC
        Received at: 8-JUL-74 08:49:05   3a5

        Jim: SORTREV now works from new NLS at ARC. So does
        SORTMES. You may find SORTMES more appropriate. --Dean   3a5a

    8-JUL-74 0944-PDT MATTIUZ: Jim, do you thing it would be a
    good idea if i got all the messages we have send lately, that
    is Penny, you and I, on the IBM transfer and Journalize them
    for the record and in order to help future users when perhaps
    doing the same? Maybe you are doing this already?
        Distribution: FEEDBACK
        Received at: 8-JUL-74 09:44:20   3a6

        I didn't realize i was only at the subject, short message
        and long subject,.ah ha,   3a6a

            INEZ   3a6b

    8-JUL-74 1229-PDT MATTIUZ: new directory
        Distribution: FEEDBACK, BAIR, mattiuz
        Received at: 8-JUL-74 12:29:27   3a7

        Jim, on June 6 i sent a message about geting a new directory
        set up for Mike Katsoulis and he has been here for a month
        and cannot work in his own space,.....was there a problem?
        Could you let me know as soon as possible,...INEZ   3a7a

    8-JUL-74 1359-PDT STONE: Shared Screen Problems
        Distribution: FEEDBACK, kennedy
        Received at: 8-JUL-74 13:59:41   3a8

        I tried a shared screen using the directions in the
        <userguide> file, I was flipped to the exec and told
        ILLEGAL INSTRUCTION   JSYS   DBLST =   104000,,404
        at CEC+20 =   51117   3a8a

        I was using an IMLAC,..tring to link to another IMLAC with
        advise,
        Is this fixable??   3a8b

    8-JUL-74 1436-PDT STONE: Shared Screens
        Distribution: FEEDBACK, kennedy
        Received at: 8-JUL-74 14:36:01   3a9

        Attempted shared with J Norton, on host 2 with the Tasker
        initiaating the connection, I could see his actions, but he
        got nothing from me, Looks like shared screen doesn't work
        in any mode any more, Would be nice if it were working

within the next month or so, since we are contemplating a
couple of demos related to the NSW project
Any chance of getting it fixed??   3a9a

8-JUL-74 1825-PDT FEEDBACK: IBM data
Distribution: MATTIUZ, NAPKE, feedback
Received at: 8-JUL-74 18:25:33   3a10

Hi, The u's, d's, !'s etc, will probably come out as text,
There is a timing problem: I will be back east from the
15th to the end of the month on business, and, if you would
believe, getting married! So, address it to the programmer
as well:
Elizabeth Michael (or Jim Bair)
Augmentation Research Center
Stanford Research Institute
Menlo Park, CA 94025
I'll be out of touch after the 20th for awhile, driving
across as honeymoon........... Au revoir, Jim   3a10a

8-JUL-74 1834-PDT FEEDBACK: tape and customs...
Distribution: NAPKE, feedback
Received at: 8-JUL-74 18:34:46   3a11

Penny, Those Canadian guysare pretty tough, but I dont think
it will have any trouble coming this way,, They only X ray
stuff you handcarry,   I presume it will a regular 8 or
so in, reel? Not a cassette or something, Jim   3a11a

8-JUL-74 1840-PDT FEEDBACK: IBM tape dialogue
Distribution: MATTIUZ, feedback
Received at: 8-JUL-74 18:40:53   3a12

Inez, That certainly was a big subject (punny
intended,.haha),... Thats an excellent idea, but frankly I
dont know when I' could get to it, Could you remind me in
early august when I get back?
Incidentally, I finally did a similar thing,..bought a
house, Couldn't have one built because costs have
skyrocketted to $50 per sq foot here, but found a nice
little thing here in Menlo Park, How are you enjoying
yours?
    Au revoir, Jim   3a12a

8-JUL-74 1844-PDT FEEDBACK: Shared screen probs,
Distribution: STONE, KENNEDY, feedback
Received at: 8-JUL-74 18:44:29   3a13

Hi, Noted your difficulty and will try to get hopper to

4

Feedback to 23 Aug 74

> look at it, but to be honest , not much effort is being
> vesteed in oldnls now, Perhaps the NSW demo will carry some
> wait (haha),   See you soon, Jim   3a13a

10-JUL-74 1828-PDT BAIR: Dex tape
Distribution: MATTIUZ, bair, feedback
Received at: 10-JUL-74 18:28:53   3a14

> Hi, We are still working on it, can't find anything wrong so
> far, It would really help if you still had the original DEX
> file around or we could retrieve it from achive if you
> recall the file name, I believe the NLS filename is CRED,
> we unfortunately can't tell anything from that,   We'll
> keep trying to determine the difficulty, we have some
> equiipment problems that we have to iron out here too,
> Au revoir, Jim   3a14a

11-JUL-74 1153-PDT BEDFORD: how to identify users listed in
Exec's SYS command,.......?
Distribution: FEEDBACK, mattiuz
Received at: 11-JUL-74 11:53:20   3a15

> I would like to know how to identify users listed in the
> output from the SYSTAT command,......,it would help if one is
> in trouble and would like to link to someone for
> help,......,like, would HELP be able to help ; could WWMCS
> provide any info the journal system,...,etc, ?   3a15a

16-JUL-74 0709-PDT NSA: lost files
Distribution: FEEDBACK
Received at: 16-JUL-74 07:09:52   3a16

> Hey!!   3a16a

> What gives!!! Seems we lost a couple of files the past 2
> days,
> Are you in FLAKEY mode?? If so, would you give us warning,   3a16b

> The files we lost are   CONTX.NLS (probably a PC too) and
> CAREY.NLS,
> Any help you can give us will be appriciated,   3a16c

> Thanks, Jess Hill, Steve Walker, etc,   3a16d

16-JUL-74 1052-PDT MATTIUZ: ibm tapes
Distribution: FEEDBACK, napke, mattiuz
Received at: 16-JUL-74 10:52:04   3a17

> Jim, after the conversion is made, where will the data be?

        bell directory as an exec (txt) file?
        ---Inez   3a17a

    16-JUL-74 1100-PDT MATTIUZ: dex tape
    Distribution: BAIR, FEEDBACK, mattiuz
    Received at: 16-JUL-74 11:00:24   3a18

    Jim the txt file for that tape was called "cred,imm" and the
    dex was just "dexworkimm"   3a18a

    Is this whated you need to know? Unfortunately, i always
    delete them once the conversion is done, However if yo can
    get them from the archive that would be great,.....Inez   3a18b

    16-JUL-74 1925-PDT NSA: Missing File
    Distribution: FEEDBACK
    Received at: 16-JUL-74 19:25:53   3a19

    I was on last night (15 July) from 1830 (your time) until
    2000, I was working with a file called CAREY, The system
    died about 1915 and came up in a few minutes, This morning
    (16 Jul) we discovered several files missing and requested a
    restore, The version of Carey which was restored was the one
    prior to the 1915 problem, unfortunately I did a lot of work
    on the file between that time and 2000, Is it possible to
    restore that file as of 2000 15 Jul, I did an update at that
    time just before logg
    g off, Thanks for you help ,
    Steve Walker   3a19a

    17-JUL-74 1113-PDT NSA: ^X in TNLS
    Distribution: FEEDBACK
    Received at: 17-JUL-74 11:13:13   3a20

    We have been experiencing a large number of sperious ^X's
    the
    past few days, At this time we are unable to determine if
    this is
    line noise (terminal to tip) or if it is originating at
    OFFICE-1,
    If you have any info or advice (or can fix it) please let us
    know,   3a20a

    Jess Hill, Steve Walker, Steve Noga   3a20b

    17-JUL-74 1509-PDT BAIR: file restore
    Distribution: OPER, MARTINEZ, feedback
    Received at: 17-JUL-74 15:09:06   3a21

Feedback to 23 Aug 74

opps, that should be <nsa> not nasa,   Thanks, Jim   3a21a

18-JUL-74 0638-PDT NSA: lost files
     Distribution: FEEDBACK
     Received at: 18-JUL-74 06:38:06   3a22

     File INTELM,NLS was worked on yesterday (17 Jly). All info
     past 8 Jly is gone,   3a22a

     Steve Noga   3a22b

19-JUL-74 0636-PDT STONE: "exceed capacity" while using inmes
     Distribution: FEEDBACK, meyer at SRI-ARC, bair at SRI-ARC
     Received at: 19-JUL-74 06:36:07   3a23

     A couple of us have gotten the exceed capacity
     signal,,,normally associated with too long of a statement in
     NLS, I think its being caused by a message received from
     LArry Crain at Gunter, I would like to save this and
     supsequent messges received from BBN, but inmes will only
     save those up to the one from Crain, Is there a way around
     this? Can one selectively delete messages at TENEX level?
     HELP!!   3a23a

19-JUL-74 1021-PDT STONE: exceed capacity using inmes
     Distribution: FEEDBACK, meyer at SRI-ARC, bair at SRI-ARC
     Received at: 19-JUL-74 10:21:25   3a24

     I was able to get the message file in by doing an insert
     sequential, but then spent an hour editing rearanging etc,
     to get into readable NLS structure,   3a24a

22-JUL-74 1045-PDT NAPKE: IBM tape
     Distribution: FEEDBACK, mattiuz, napke
     Received at: 22-JUL-74 10:45:13   3a25

     The tape was sent to San Francisco Air Express,,,,on Fridaye
     afternoon,,,,,July 19/74, Has anybody contacted you yet that
     there is a aprcel at the airport?   If not could send
     somebody to the airport to get the tape,,,,,,The
     identification code that you should in order to collect the
     tape at the airport is   AE020718, The tape is addressed
     to Elizabeth Michael, Could have kindly let me know what
     happens?   3a25a

     Thnak you,
     Penny Napke   3a25b

23-JUL-74 0820-PDT CARRIER: SENDPRINT

Feedback to 23 Aug 74

    Distribution: FEEDBACK, carrier, meyer, bair
    Received at: 23-JUL-74 08:20:16   3a26

    We are asking SENDPRINTto wait at page breaks. It does so,
    but the leading spaces in the first line of the new page
    disappear. Tried on two different terminals. Sendprint is
    eating them. --Dean and Bobbie Carrier (RADC)   3a26a

23-JUL-74 1520-PDT BEDFORD: some questions on nls
procedures::
    Distribution: FEEDBACK, mattiuz, bedford
    Received at: 23-JUL-74 15:20:34   3a27

    1.) to get to the NEXT occurrence of a string you use the
    command   A: [LIT]   ; is there any provision for getting
    to the last occurrence of that same string ?
    2.) any luck on arranging for us to identify sub-groups for
    ourselves ?   3a27a

24-JUL-74 0707-PDT CAVANO: archive malfunction
    Distribution: FEEDBACK, bair
    Received at: 24-JUL-74 07:07:59   3a28

    The archive system has failed to archive my files two days
    after successful notification from TENEX, Could there be
    something I am doing wrong or does the system archive the
    files w/o removing them form directory??   3a28a

29-JUL-74 0737-PDT BAIR at SRI-ARC: update file
    Distribution: LEE AT OFFICE-1, bair, hopper, feedback at
OFFICE-1
    Received at: 29-JUL-74 07:37:46   3a29

    Susan, Yes you have to have the file loaded to update it,   3a29a

29-JUL-74 0811-PDT LEE: Update File
    Distribution: FEEDBACK, BAIR AT ARC, HOPPER AT ARC
    Received at: 29-JUL-74 08:11:16   3a30

    Just for the record, the prompt following update file is
    misleading - people see the F: and assume it wants the name
    of the file to be updated - better noise words would help so
    that a person would see something like - Update file to new
    name F: or something - I suppose this is taken care of in
    the new system so this can be filed away,,,Thanks for a
    quick answer   3a30a

29-JUL-74 1244-PDT LEE: Update File

Feedback to 23 Aug 74

        Distribution: HOPPER AT ARC, BAIR AT ARC, FEEDBACK
        Received at: 29-JUL-74 12:44:20   3a31

        You're right - the F: only appears after you start to type a
        filename - I wasn't paying attention!!
        I don't think the problem of not being able to type a
        filename beginning with f is worth spending that much time
        on since it'll be o.k. soon in the new language,
        Have you had a chance to look at that addressing problem I
        reported Friday - that's probably more important - but then
        maybe I'm overlooking something there! It was the deal
        where addresses without periods were being accepted etc.,,,
        Thanks   3a31a

    29-JUL-74 1825-PDT FEEDBACK: NLS procedures
        Distribution: BEDFORD, feedback
        Received at: 29-JUL-74 18:25:17   3a32

        Mike, 1) Ther is no provision for search to the last
        occurAnce of a LIT,
        2)   The identification of subgroups within an allocation
        group is not part of the Tenex software, We cannot make
        changes unless approved by ARPA and agreed by all Tenex
        systems owners, At present we have no plans for pushing
        this change, If you let me know specifically what you want
        to do there may be a way around it,   Jim   3a32a

    29-JUL-74 1827-PDT FEEDBACK: lost files
        Distribution: NSA, feedback
        Received at: 29-JUL-74 18:27:52   3a33

        Steve Noga, If the problem with lost fils has not resolved
        itself or the files restored, send me your phone number so
        that I can call you for discussion of the problem, Thanks,
        Jim Bair   3a33a

    29-JUL-74 1830-PDT FEEDBACK: archive
        Distribution: CAVANO, feedback
        Received at: 29-JUL-74 18:30:52   3a34

        Hi Joe, Archive has to be run by an operator, and is
        periodically, I think you might have hit one of the longer
        periods, If the files still arent gone after you have
        archive/deleted, then let me know, Ciao, Jim   3a34a

    29-JUL-74 1833-PDT FEEDBACK: sendprint
        Distribution: CARRIER, meyer, feedback
        Received at: 29-JUL-74 18:33:39   3a35

Feedback to 23 Aug 74

Bobbie, We are working on the problem...it is a hard one,
Need to know if this is your first use of the feature or if
the stop at page end has worked before and this is a new
bug, Jim   3a35a

(jun)   3b

28-JUN-74 1321-PDT NAPKE: IBM Tapes
   Distribution: FEEDBACK, mattiuz, napke
   Received at: 28-JUN-74 13:21:04   3b1

We could shorten the record length to 1000 that is one
thousand characters, How aout that?   The blocking factoe
would still be one, OK?   3b1a

penny   3b1b

28-JUN-74 0935-PDT BAIR: User progs lowercase & inrun
   Distribution: SHEPPARD, feedback
   Received at: 28-JUN-74 09:35:24   3b2

Bob, You will notice that the descriqption of Lowercase says
something about instituting as a content analyzer, That
_eans after you load the program you invoke it by user
viewspec i instead of executing it (hopefully),
   INRUN has a note about Buffer pages required, Many
programs require more than the default 4pp, You Go to
Programs Buffer size,,,, Then just hi a 7 or 8 to be on the
safe side, This increases the executable user qprograms
buffer and let's you load the program into core, Note that
if you load more than one program, you can also exceed the
buffer size, so it's wise to keep track of the pages you are
usi or rese" the program suffer after you complete
execution, Hope this does the trick,   J
   (excuse typos,,,noisy line), (ressssel = reset)   3b2a

28-JUN-74 0834-PDT BAIR: IBM Conversion
   Distribution: NAPKE, feedback, mattiuz
   Received at: 28-JUN-74 08:34:41   3b3

Penny, We prefer 800bpi density,
The fixed record length sounds too long, NLS uses the
record length to determoine statement length, We dont know
what you would do with 2000 "haracter statements, but NLS
would have a hard time handling them, Can you lessen the
character length,,,perhaps we will have to go to variable
records,,,,
Sorry I didn't respond sooner, but I was out of town for a

Feedback to 23 Aug 74

          bit, and didnt take a terminal with me,
            Jim   3b3a

27-JUN-74 0757-PDT SHEPPARD: Loading user program 'inrun'
   Distribution: FEEDBACK, JIMB
   Received at: 27-JUN-74 07:57:08   3b4

   I am not able to load this program from NLS, I get message
   'loading user program'
   'loading outside of allowed area'
   'format error, word 41 55 block type 447356'   3b4a

   can you assist?   3b4b

27-JUN-74 0652-PDT SHEPPARD: HELP
   Distribution: JIMB, NORTON, FEEDBACK, sheppard
   Received at: 27-JUN-74 06:52:02   3b5

   I am tryin g to run a program that is in the <user-progs>
   directory and am having some trouble. This is due to the
   fact that I am a new user of nls. Can you assist? I am
   trying to run the job 'lowercase'
   on a file, however when I type 'gpg' then type 'GPE' the
   job does not do what I think It should do. In fact, it does
   not even effect my file. Can you give me the steps needed
   to run this program on my file?   3b5a

26-JUN-74 1448-PDT FERGUSON: login mess
   Distribution: MARTINEZ, FEEDBACK
   Received at: 26-JUN-74 14:48:03   3b6

    Bob,
   would you please put the file <mrtinez>login.;1 in as the
   system login message, (and also give me a call), thanks
   ferg   3b6a

26-JUN-74 1353-PDT NAPKE: IBM tapes
   Distribution: FEEDBACK, mattiuz, napke
   Received at: 26-JUN-74 13:53:38   3b7

   I have some answers to your questions, Jim.   3b7a

    1) you have a choice of 2 tape densities   800bpi or
   1600 bpi
    2) the fixed record length is 2000 characters per record.
    3) there is a blocking factor of one.
    4) Tomorrow I will play around with the file to set it up
   to be taped,,,,then i can tell you the total number of
   blocks on the tape.   3b7b

Feedback to 23 Aug 74

Penny   3b7c

26-JUN-74 1134-PDT KENNEDY: exercising a terminal
    Distribution: OPER, feedback
    Received at: 26-JUN-74 11:34:41   3b8

    Thank you for the fast accurate response,   3b8a

26-JUN-74 1039-PDT OPER: EXERCISING A TERMINAL
    Distribution: KENNEDY, FEEDBACK
    Received at: 26-JUN-74 10:39:07   3b9

    IN RESPONSE TO YOUR MAIL OF 6/26/0759 THE PROGRAM YOU ARE
    REFERING
    TO IS CALLED <NETSYS>TTYTST.SAV AND CAN BE ACCESSED BY
    CALLING IT
    FROM THE EXEC,
    THANX
    BOB MARTINEZ
    TYM/OFFICE-1   3b9a

26-JUN-74 0759-PDT KENNEDY: COMMAND TO EXERCISE A TERMINAL
    Distribution: OPER, FEEDBACK
    Received at: 26-JUN-74 07:59:29   3b10

    SOME TIME AGO I STUMBLED ON A COMMAND USED TO EXERCISE A
    TERMINAL BY PRINTING OUT THE WHOLE CHAACTER SET LINE AFTER
    LINE WITH EACH LINE DISPLACED BY ONE, IE:
    ABCDEF ETC,
    /ABCDEF ETC,
    @/ABCDEF ETC,
    CAN YOU REFRESH MY MEMORY? WILL YOU??   3b10a

26-JUN-74 0606-PDT NAPKE: a short question concerning IBM
tapes
    Distribution: FEEDBACK, MATTIUZ, napke
    Received at: 26-JUN-74 06:06:41   3b11

    If the tape is EBCDIC,....,where do the ASCII non-printing
    characters fit in, I think I missed a point there,...COuld
    you elaborate?
    Am gathering the rest of the information you
    require,...Hopefully, you will receive it later today,   3b11a

24-JUN-74 2033-PDT BAIR at SRI-ARC: IBM Tapes
    Distribution: MATTIUZ AT OFFICE-1, NAPKE AT OFFICE-1, bair,
feedback at OFFICE-1
    Received at: 24-JUN-74 20:33:35   3b12

Feedback to 23 Aug 74

Hi,
Looks like everything has a reasonable probability of
working, so send me the tape. We do need some additional
info:
1) What is the tape density?
2) Are there any non-printing ASCII characters you know of?
3) What is the fixed record length?
4) YES, we do prefer the tape without labels.
5) What is the blocking factor?
6) what is the total number of blocks on the tape?
That should do it. Note that we are assuming fixed length.
Jim   3b12a

24-JUN-74 0853-PDT BAIR: Net trouble
    Distribution: CARLSON AT ISI, NORTON, FEEDBACK, WATSON AT
SRI-ARC
    Received at: 24-JUN-74 08:53:14   3b13

    Bill, A double check shows that there was Net trouble at the
    time you were trying to log in,,should be OK now.
        Jim Bair   3b13a

24-JUN-74 0840-PDT BAIR: No response from Office-1
    Distribution: CARLSON, JACOBS, FEEDBACK, norton, watson at
SRI-ARC
    Received at: 24-JUN-74 08:40:19   3b14

    Bill, Thanks for the message ,,,it is difficult to know when
    certain Network ports are not responding. In some cases it
    is a function of the interaction between the Net and Tenex.
    Did you receive a dead refused response? Or just no header?
    Anyway, it should be OK now. Even computers have it rough
    on Monday mornings,,,
        Ciao, Jim Bair   3b14a

21-JUN-74 0456-PDT MEYER: DEX Tape from BELL-CANADA
    Distribution: FEEDBACK, BAIR, mattiuz, meyer
    Received at: 21-JUN-74 04:56:58   3b15

    Jim: My apologies. I gave both paper tape and cassette
    that Bell gave me to Jim Norton. They're probably sitting
    on his desk. --Dean   3b15a

20-JUN-74 1723-PDT FEEDBACK: IBM tape conversion
    Distribution: MATTIUZ, NAPKE, bair at SRI-ARC, feedback
    Received at: 20-JUN-74 17:23:26   3b16

    Penny and Iez, I will get right on the problem first

thing,,,the info you provided should do the trick, thanks,
Jim   3b16a

20-JUN-74 1719-PDT FEEDBACK: Dex tape
Distribution: MATTIUZ, meyer, feedback, bair at SRI-ARC
Received at: 20-JUN-74 17:19:37   3b17

Inez, No I haven't received the tape ,,,,did you mean that
Dean Meyer brought it with him? when he came to Calif, this
week? When I get that I should be able to get one of our
programmers to look for the problem,,of course that no
assurance that he will find it!!
        Au revoir, Jim   3b17a

20-JUN-74 0816-PDT MATTIUZ: tape and dex
Distribution: FEEDBACK, mattiuz
Received at: 20-JUN-74 08:16:47   3b18

Jim, I sent a tape to you by Dean - after converting it into
nls by the dex process, the beginning of the tape ended up
at the end of the file,
If yo remember this happened to me before and you asked to
have the upon another reoccurrence, The file in my
directory is "CRED" if you want to look at it after you have
seen the tape,,,,let me know if you have received it and
what you think,,,,thaks   3b18a

        -----Inez   3b18b

20-JUN-74 0800-PDT NAPKE: IBM tapes
Distribution: FEEDBACK, mattiuz, napke
Received at: 20-JUN-74 08:00:48   3b19

Inez showed me the message from feedback (i think
Jim,,,,that is from Jim),,,,,where you asked a few questions
about IBM tape, I have a few answers,,,,first of all the
tape is EBCDIC - 9 track,   the records are fixed
length,,,,,,at the beginning of each record there is a
descriptive word telling you the length of the record in
characters, If you would like a specific length for each
record,,,there is no problem arranging this,   It is
difficult to say how how many computer words the f
e will be as we have variable length records right now and
the data will have to be massaged to create fixed length
records,,,,,,Right now it is about 130,000 words,   The
IBM people can also create a tape without tape labels if you
wish,

As far as the time frame is concerned,,,,,,,we would like the

14

data in NLS as soon as you can do it after we send you the
tape,

Is there anything specific you guys need on the tape to be
able to read it??
penny   3b19a

19-JUN-74 1252-PDT FEEDBACK: Inquiry
Distribution: NORTON, feedback
Received at: 19-JUN-74 12:52:56   3b20

Jim, I took care of the question about the Journal indexes
from stone/liuzzi, The last update of the master catalog
seems to be about 26 May, however, The links from
userguides do work now,
Incidentally, since I didn't get the chance to ,,,here's to
a good trip (as if any of yours were ever any other way,,,)
    Best, Jimescesc   3b20a

18-JUN-74 1828-PDT BAIR: Journal Indexes
Distribution: STONE, LIUZZI, feedback
Received at: 18-JUN-74 18:28:16   3b21

Stoney, The journal indexes are accessable via the link
(userguides,arclocator,1:x) etc, as they should be, I
updated the links so that the since Jan 74 gets you to a
catalog that includes late May but not much more recent than
that, I didn't find anything by Ray, but its worth a second
look, Good luck, Jim   3b21a

18-JUN-74 1159-PDT LIUZZI: Links to Journal Catalogues
Distribution: NORTON AT SRI-ARC, FEEDBACK, bair
Received at: 18-JUN-74 11:59:45   3b22

Can you give me links to the more recent Journal catalogues?
If they don't exist on Office 1 yetI'll search on the ARC
machine, We need to find an article by Liuzzi (RAL) on
WWMCCS,,,,Quick reply would be appreciate
Thank
Stoney   3b22a

17-JUN-74 1736-PDT FEEDBACK: IBM transfer
Distribution: MATTIUZ, feedback
Received at: 17-JUN-74 17:36:24   3b23

Inez, Yes it worked.Some editing changes were nvcessary
after it got into NLS, but nothing too major, Jim says
that we can't do this unless some financial arrangements are
made, but this once we will make an exception, We will

have to have a tape mailed but need to know more about it
first. How many computer words long is it? Is it EBCDIC 9
track ? Does it have any special pointers denoting records
or anything like that?
In addition, what is your time frame...it would take us
about two weeks minimum to complete it once it was received.
Note that this is an experiment....
Jim   3b23a

17-JUN-74 1021-PDT MATTIUZ: ibm transfer
Distribution: FEEDBACK, mattiuz
Received at: 17-JUN-74 10:21:27   3b24

any news on how the experiment work for NASA Ames?
we opted to wait for the results,.....inez   3b24a

14-JUN-74 2054-PDT BAIR: runfile
Distribution: UCSB, feedback
Received at: 14-JUN-74 20:54:31   3b25

John Pickens,
You should be able to run runfiles now,.I have changed the
directory permissions. Let me know how it glad to help,
Jim Bairesc   3b25a

14-JUN-74 0945-PDT UCSB: RUNFIL
Distribution: FEEDBACK, pickens at UCSB
Received at: 14-JUN-74 09:45:55   3b26

Jim Bair,   3b26a

what I want to do is set up 8 or ten tab stops plus a few
other
terminal parameters in NLS every time I enter it. The
process
requires several minutes of time and a pound of wasted
energy
every time i have to do it. The runfile command makes it
simple,
And it implies no extra load on your system. Why can't I
have it
forever??   3b26b

John Pickens   3b26c

13-JUN-74 1517-PDT FEEDBACK: runfile
Distribution: UCSB, feedback
Received at: 13-JUN-74 15:17:38   3b27

Dear John Pickens,
My mistake, Ithought it was available to you, but as you
correctly surmise,, it's not available to net users,   I'm
not sure what you are trying to do but, if it's repetitive
editing the substitute command should help, If that cannot
be applied to do the trick, then let me know and I will make
a directory change that will permit you to use the runfile
command for a short period, (like a week),
Although it's not necessary to fill me in, I'm interested in
what you are doing, Let me know what I can do,
Sincerely,
Jim Bair   3b27a

11-JUN-74 1653-PDT UCSB: rnfile
    Distribution: FEEDBACK
    Received at: 11-JUN-74 16:53;56   3b28

    attn jim bair
    on my account runf<esc> just gives ?   that capability is
    apparently
    disabled for network users, why?   3b28a

    john pickens
    ident jrp   3b28b

11-JUN-74 1230-PDT SHEPPARD: login problem
    Distribution: FEEDBACK
    Received at: 11-JUN-74 12:30:09   3b29

    i seem to have a problem with login, i first loged in but
    had problems
    with my tip connection and was disconnected, later when I
    reached office-1 i login again but find that it is offquota
    because i am still in the system, however, systat will not
    tell me what the older job was,
    Also , i can not Attach to the older job because it cant be
    found,
    the problem is systat tells me I am not there but groupstat
    tells me I am,   3b29a

10-JUN-74 1214-PDT BAIR: IBM data transfer to Office-1
    Distribution: FEEDBACK, norton, bair at SRI-ARC
    Received at: 10-JUN-74 12:14:02   3b30

    Jim, Inez wants to tranfer less than 100 pp of abstracts
    from IBM equipment to Office-1, If the thing Elizabeth is
    doing for the Air Farce works via NASA AMES can we offer the
    same service to Bell but perhaps a at a fee? I imagine they
    will be additonal need if we set the mechanism for the

transfer this time,   Jim
cc of last msg:
Inez, I talked wiith our programmer who is working on a
transfer for someone on the ARPA Net, They are trying it
experiemntally this week, If it is successful (through NASA
Ames) I'll let you know by next week, Can you wait that
long? If so we can then see if there is some way Bell can
employ the same mechanism, Jim   3b30a

7-JUN-74 0833-PDT BAIR at SRI-ARC: file protection
    Distribution: CAVANO AT OFFICE-1, bair, feedback at
OFFICE-1
    Received at: 7-JUN-74 08:33:47   3b31

    Joe, There's a complete description of file protection in
    NLS in (gjournal,23273,1) that has been distributed to Stone
    and the other architects for further distribution, It
    should tell you how to do what you want,   3b31a

6-JUN-74 2304-PDT BAIR at SRI-ARC: IBM to Office-1 data
transfer
    Distribution: MATTIUZ AT OFFICE-1, bair at OFFICE-1,
feedback at OFFICE-1
    Received at: 6-JUN-74 23:40:48   3b32

    Inez, I havent been able to contact our programmer who has
    worked on a similar transfer, She should be back on Fri,
    There is a way to convert tapes by using a program at NASA
    AMES, Not sure if its available for non Network people,
    Also, have you considered conversion to ASCII through a
    commercial computer outfit in Montreal or elsewhere? We
    don't have the facilities at ARC or Office-1, Will let you
    know more ASAP,   Best, Jim   3b32a

6-JUN-74 0741-PDT MATTIUZ: new ident and new directory
    Distribution: FEEDBACK, mattiuz
    Received at: 6-JUN-74 07:41:18   3b33

    Jim, we require two things here: Only an ident for   3b33a

    Phil R, Marquette
    Bell Canada
    620 Belmont St,
    Room 1105
    Montreal, Quebec
    H3C 3G4
    TEL: 514-870-5733   3b33b

    eNew Directory with the 300 page llocation for: 3b33c

            Mike Katsoulis
            Bell Canada
            620 Belmont St,
            Room 1105
            Montreal, Quebec,
            H3C 3G4
            TEL: 514-870-2713   3b33d

            (wat initial password will you set up for him?) also what
            directory can Phil work from with only an ident? would it be
            ny one f ours?)   3b33e

            thanks INEZ   3b33f

        5-JUN-74 1511-PDT HOPPER: Execute Logout
            Distribution: FEEDBACK
            Received at: 5-JUN-74 15:12:00   3b34

            Is fixed, The protection of the group data file was set
            incorrectly,
            This will undoubtedly happen again (as it has in the past)
            so make
            a note of it if you feel like it, (too many
            operators/programmers
            around)   3b34a

        4-JUN-74 1902-PDT FEEDBACK: Eecute logout
            Distribution: FEEDBACK, ferguson, bair, ferguson at SRI-ARC
            Received at: 4-JUN-74 19:02:02   3b35

            Still does not work,,,what gives? You figmo or something? 3b35a

        4-JUN-74 1302-PDT FEEDBACK: Dex
            Distribution: FEEDBACK, mattiuz
            Received at: 4-JUN-74 13:02:18   3b36

            If the tape was created fromanother system, it probably
            doesn't have the p(ope(codes on it to permit the program to
            function properly, Some of those codes are delimiters which
            are necessary for inputs, We can look at the file if you
            wish; what is its name?   Jim   3b36a

        3-JUN-74 1514-PDT MATTIUZ: cassette/dex
            Distribution: FEEDBACK, mattiuz
            Received at: 3-JUN-74 15:14:05   3b37

            After ruuninf in a tape and converting by dex i loaded the
            file and got a message indicating input error - no delimiter
            read, what does this mean? by the way the tape was from

another system:honeywell, i am sure this has something to do
with it.........thanks inez   3b37a

2-JUL-74 1501-PDT FEEDBACK: Login ident problems
Distribution: NSA, feedback
Received at: 2-JUL-74 15:01:11   3b38

Steve Walker, we just brought up some new software that is
designed to improve protection and permit only subscribing
clients to login, It looks like it has some bugs in it
which we are tryiing to fix, Thanks for letting us know,
Jim Bairescesc   3b38a

1-JUL-74 1957-PDT NSA: Login Ident Problems
Distribution: FEEDBACK
Received at: 1-JUL-74 19:57:21   3b39

None of the Idents we had been using are valid now at login,
They are still good on entering NLS so no real problem, The
following Idents are the ones we're currently using: STW,
JNH, SPN, TEH, Thanks,
Steve Walker   3b39a

1-JUL-74 1355-PDT FEEDBACK: DEX tape and problem
Distribution: MATTIUZ, feedback
Received at: 1-JUL-74 13:55:53   3b40

Inez, We are having some considerations about the hardware
interface of the tape to computer,   So there are two
questions:
1) What was the exact tape machine you used to playback the
tape into Office-1?
2) Did you try it more than once with the same error?
Consistency is very important, becuase if the problem occurs
randomly rather than every time you try it, then it sounds
like noise, which is next to impossible to correct,
It seems like I'm always doing this, but I do apologize fr
taking so long on these things,,,it is really hard to get
together wiht the programmers,   AU revoir, Jim   3b40a

1-JUL-74 1348-PDT FEEDBACK: IBM Tape
Distribution: NAPKE, feedback, mattiuz
Received at: 1-JUL-74 13:48:36   3b41

Penny, OK,,,but bair in mind (ho ho) that those will be
statements in your file, and that that's a pretty long thing
to edit and address, The software will handle it withoout
sweat however, (After all this dialogue and work on your
part, I hope we can get the transfer to work!!)   Jim Bair   3b41a

(May)   3c

     30-MAY-74 2024-PDT MATTIUZ: JOURNAL SENT ON MAY 29 RE NEW
     IDENT AND ARCHIVED TAPES
          Distribution: FEEDBACK, MATTIUZ
          Received at: 30-MAY-74 20:24:25   3c1

     JIM, COULD YOU PLEASE TELL ME BY SEND MESSAGE WHERE I CAN
     GET THOSE TWO ITEMS YOU SENT ME AS THEY SEEMED TO HAVE
     DISAPPEARED FROM MY FILE,,,LOTS OF WEIRD THINGS WERE
     HAPPENING HERE TODAY AND MAYBE THERE IS A CONNECTION,
     THANKS   3c1a

                    INE
          INEZ   3c1b

     30-MAY-74 1409-PDT MATTIUZ: ARCHIVED FILES
          Distribution: FEEDBACK, MATTIUZ
          Received at: 30-MAY-74 14:09:47   3c2

     SOMETHING IS FUNNY HERE,,WHEN I TYPED "INT ALTMODE SPACE AND
     THE FILE NAME" IT SAYS THAT MY FILE IS NOT ARCHIVED, IF YOU
     TYPE "INT SPACE AND THE FILE" IT THEN TELLS YOU IT IS
     ARCHIVED AND WHERE TO FIND IT
     THIS SHOULDN'T HAPPEN SHOULD IT ? oIF THE ALTMODE IS USED
     INCICATION IS YOUR FILE IS THERE,,OTHERWISE IT IS NOT   3c2a

     30-MAY-74 1405-PDT MATTIUZ: DIRECTORY
          Distribution: FEEDBACK, MATTIUZ
          Received at: 30-MAY-74 14:05:08   3c3

     JIM, SOMETIMES IT SEEMS AS IF THE SYSTEM THINKS I AM SOMEONE
     ELSE AS I KEEP GETTING FILES THAT DON'T BELONG TO ME IN MY
     DIRECTORY,,,TODAY ONE OF THEM WAS "TELNETSCRIP ETC" FILE ,
     MAYBETHAT IS WHY FUNNY THINGS HAVE BEEN HAPPENING LATELY,   3c3a

     30-MAY-74 0228-PDT UCSB: Clowns!!
          Distribution: FEEDBACK
          Received at: 30-MAY-74 02:28:04   3c4

     Don't you clowns read journal entries under ident FEED?
     Gads, what
     ridiculous response to the user community,   3c4a

          jrp@nic   3c4b

     30-MAY-74 0143-PDT BEDFORD: inputting the contents of a file
     to sndmess,,,,,,How to for Message ?

Feedback to 23 Aug 74

        Distribution: FEEDBACK, bedford
        Received at: 30-MAY-74 01:43:31   3c5

        I tried using the Control B here, and it asks for the file
        name, and then gives me the end of file automatically;
        when I check the message I sent to myself, everything is
        there but the file,.,.,what am I doing wrong ?   3c5a

30-MAY-74 0140-PDT BEDFORD: ideas for recording the
interaction during a link between two terminals,,,,,.Have any
thoughts on this ?
        Distribution: FEEDBACK, bedford
        Received at: 30-MAY-74 01:40:55   3c6

        I thoght that it might be neat to call a program throgh a
        RUNFILE type operation as soon as you realized that you
        would want to save the content of an interaction,,,,,.Is
        there anyway of doing this at present ?   3c6a

30-MAY-74 0138-PDT BEDFORD: input from terminal during
RUNFILE (How Do ?)
        Distribution: FEEDBACK, bedford
        Received at: 30-MAY-74 01:38:23   3c7

        I thought that it was a control F that did the trick,
        followed by the number of millisec's, you want it to pause
        for, but I can't make it work,   3c7a

29-MAY-74 1507-PDT FEEDBACK: To have a msg or not, that is
the question
        Distribution: FEEDBACK, docb, FERGUSON
        Received at: 29-MAY-74 15:07:44   3c8

        Virginia,   That surely is a bug, It did the same thing to
        me, We'll fix it as soon as possible, Thanks for letting
        us know, Jim Bair   3c8a

29-MAY-74 1444-PDT DOCB: QUESTION
        Distribution: FEEDBACK
        Received at: 29-MAY-74 14:44:31   3c9

        WHAT DOES THE "NO MESSAGES AT ALL" MESSAGE (WHICH APPEARS
        WHEN
        I FIRST LOG IN) MEAN? IT DOES NOT SEEM TO MEAN THAT I HAVE
        NO
        MAIL WAITING (SINCE ONCE I WAS TOLD: "NO MESSAGES AT ALL"
        AND
        THEN ON THE NEXT LINE "YOU HAVE A MESSAGE" !)?? THANK YOU,
                        VIRGINIA KALLAL (DOCB@OFFICE-1)   3c9a

28-MAY-74 1330-PDT MATTIUZ: private journal
    Distribution: FEEDBACK, mattiuz
    Received at: 28-MAY-74 13:30:25   3c10

    Jim, how about some info on the private command in the
    journal,,,,e,g, how is it recorded etc,,,,   3c10a

28-MAY-74 1329-PDT MATTIUZ: archived tapes
    Distribution: FEEDBACK, mattiuz
    Received at: 28-MAY-74 13:29:23   3c11

    Jim why are tapes archived forever?   SAY we wanted a file
    deleted completely but it is already archived,,,is it really
    necessary for it to be there forever?
        Inez   3c11a

28-MAY-74 1327-PDT MATTIUZ: new ident
    Distribution: FEEDBACK, mattiuz
    Received at: 28-MAY-74 13:27:48   3c12

    Jim, could you please arrange to ahve a new ident set up for
    PRM,
    Phil is with us for the summer and is using the system
    already,,,thanks Inez   3c12a

    Inez,   3c12b

        The question about archive is a good one, The reason
        they stay there forever is because the tapes are written
        sequentially, with each file that is archived added to
        the reel of tape in chronological order, Once a tape is
        used up, the record ring is removed to ensure that the
        files are not errased, The only people who can restore a
        file from archive are the people who have the password to
        the directory from which the file came, But we have no
        way of going back to a particular place on the tape to
        errase a file without endangering the rest of the tape,   3c12b1

        I am in the process of preparing a detailed description
        of the protection mechanism that has recently been built,
        Sorry it's taking awhile to get it together, In the
        Journal when you set a Journal item to private by typing
        the "PRivate" command, only those persons on the
        distribution list can load or read the file,   The
        mechanism for this interacts with Tenex to use the file
        protection codes -- it's pretty safe,   3c12b2

        We'll be glad to set up the ident for you, but will need
        more information: 3c12b3

Feedback to 23 Aug 74

                    Full name
                    Address
                    Phone number
                    He will receive Journal mail in hardcopy unless you
                    request a directory for him...it will be mailed to the
                    address specified for the ident system,   3c12b3a

27-MAY-74 1315-PDT BEDFORD: report of apparent error trap to
ARC personnel
        Distribution: FEEDBACK
        Received at: 27-MAY-74 13:15:08   3c13

        Twice today, on apparently completely different
        circumstances, I got a message:
        DEFERR called with other than GSTACK--no linkage found to
        GSTACK (please reprot this to ARC programming personnel)
        ILLEGAL INSTRUCTION   R0 =   0
        etc,
        Illegal instruction was executed and I got bumped off, I
        don't know wat this means, but it wasn't too troublesome,
        and I thought I'd bettter do like the message says   3c13a

27-MAY-74 1020-PDT BAIR at SRI-ARC: Letter Program
        Distribution: FEEDBACK, sheppard at OFFICE-1, norton at
OFFICE-1
        Received at: 27-MAY-74 10:21:11   3c14

        Hi Bob, Jim tells me that you are having some difficulty
        with the letter program...a tough one to try without
        documentation, Maybe a quick review would help,
        The commands are:
        Go to Programs Get rel file: LETTER
        Go to Programs Execute program:LETTER
        When the program asks fro filename, use a link address or
        default to the file you're in,
        Give it a CR for your ident, and the ident of the receiver,
        eg, JHB
        Answer the other questions,
        Use the command:
        Output Device Teletype to print out the formatted letter at
        your terminal,
        Well, I hope this helps...let me know if it dosn't solve the
        problem,
        Take care, Jim   3c14a

24-MAY-74 1603-PDT BAIR: Journal Indexes
        Distribution: FEEDBACK, stone, kennedy
        Received at: 24-MAY-74 16:03:50   3c15

It turns out that no indexes have ever been updated at
Office-1, What's there gott moved over by default as a
result of the transfer to that machine, We are rectifying
the situation, and hope to have a complete master index and
catalog available by June first, Sorry about not having it
there, but I thought the prograams were being run, Thanks
for letting us know.   3c15a

22-MAY-74 1026-PDT BAIR at SRI-ARC: Mouse
   Distribution: FEEDBACK, stone at OFFICE-1, bair
   Received at: 22-MAY-74 10:25:24   3c16

   The mouse you sent us back (the last one) is one we had
   already modified and sent you!! What's the deal, should we
   send it back to you so that you can trade for the proper
   mouse or was that intentional?? Jim   3c16a

20-MAY-74 1616-PDT FEEDBACK: Funny date in journalmail
   Distribution: FEEDBACK, mckenzie at BBN, keeney at SRI-ARC
   Received at: 20-MAY-74 16:16:59   3c17

   Hi Alex, Yes the compuuter really slipped upfor a while
   there,,,went back to the beginning of time, That date was
   the convention agreed upon to start all computer clocks,
   Apparently that's when the first thing that was like a
   cmputer appeared,,,,folklore,   Anyway, the clock is backin
   the correct century, Regards, Jim Bair   3c17a

20-MAY-74 1559-PDT FEEDBACK: Ident things
   Distribution: FEEDBACK, keeney at SRI-ARC
   Received at: 20-MAY-74 15:59:38   3c18

   Hi, Did you ever change RN2 (Dick Nelson) to on-line
   delivery?
   How about all of RADC including the buchh of new idents?
   Please let me know, thanks, Jim   3c18a

17-MAY-74 1429-PDT BAIR at SRI-ARC: Archived file deletion
   Distribution: FEEDBACK, edwards at OFFICE-1
   Received at: 17-MAY-74 05:24:19   3c19

   Fred,
   Sorry for the delay in anwswering your inquiry, Initially I
   thought
   it would take some programming so I postponed action until I
   returned
   from the East coast (a 2 week trip), However, as it turns
   out there
   already exists a command to delete and undelete files from

        your
        archive directory,
        The Exec command is "ADELETE", and the converse is
        "UNADELETE",
        I'm glad you asked the question...that is a very useful
        capability,
            Jim Bair   3c19a

    16-MAY-74 0448-PDT Mailer:
        Distribution: FEEDBACK
        Received at: 16-MAY-74 0448:09-PDT   3c20

        Mail for hhughes,mac@MIT-MULTICS not deliverable because:
            Cannot locate mailbox for "hhughes,mac"; please check
        spelling of user name,   3c20a

        ------   3c20b

    16-MAY-74 0447-PDT Mailer:
        Distribution: FEEDBACK
        Received at: 16-MAY-74 0447:57-PDT   3c21

        Mail for hughes@MIT-MULTICS not deliverable because:
            Cannot locate mailbox for "hughes"; please check spelling
        of user name,   3c21a

        ------   3c21b

    15-MAY-74 1754-PDT FEEDBACK: little storms have about msg
    notification
        Distribution: FEEDBACK, mattiuz, bedford
        Received at: 15-MAY-74 17:54:31   3c22

        Mike, Me thinks it already tells you gobbles up CPU enough
        when you do a systat, You can type mess CR at any time for
        the msgs since you signed on, The Bair, (Delete have from
        subject, and insert enough before gobbles,,,,, =en retro
        editing),   3c22a

    15-MAY-74 1745-PDT FEEDBACK: Logout msg immediately after
    login
        Distribution: FEEDBACK, mit-dmcg
        Received at: 15-MAY-74 17:45:13   3c23

        That msg must have have been one of those unpredictable
        random errors, If it happens again let us know and we can
        try to trace it,   3c23a

     3-JUN-74 1134-PDT FEEDBACK: Extra files and interogate

Feedback to 23 Aug 74

Distribution: FEEDBACK, mattiuz
Received at: 3-JUN-74 11:34:01   3c24

Inez, Telnet is a network subsystem that enables you to go
through Office-1 to other hosts on the Network, It
automatically creates a file call Telnettypescript which is
an exact record of what you did during that transaction, If
you did not use Telnet then someone logged in as you did,
Or maybe it was created by accident,
When you used interrogate, you said you typed int <alt>
space filename, It then tries to find a file with a space
in the name, With an <alt> you do not type any spaces, The
space is a substitute for the altmode,
I will send the Journal item to you again, Let me know if
there are any further with problems with this, Best, Jim   3c24a

3-JUN-74 1125-PDT FEEDBACK: Runfile and sndmsg
   Distribution: FEEDBACK, bedford, mattiuz
   Received at: 3-JUN-74 11:25:02   3c25

   Mike,I order to input something from the keyboard while a
   runfile is running, try control shift * or the equivalent on
   your terminal followed by the number of millisecs,   Please
   try on an experimental basis,
   In order to input any file (sequential) to a sndmsg, use
   control b and enough of the filename! to be recognized
   uniquely, eg, "message,copy;2" esc, When you type control
   r, you will see only that which you typed in after the file
   specification, However, control s should retype the entire
   contents of the msg field including the file,
   On recording links: we currently do not have a
   specifi*0v|2*;*specific way of doing this, But I am going to
   see if I can find a way, perhaps using some of our
   experimental programs,   3c25a

3-JUN-74 0945-PDT SHEPPARD at OFFICE-1: execute logout
instruction in nls
   Distribution: FEEDBACK
   Received at: 3-JUN-74 09:45:49   3c26

   this instruction does not seem to work?
   could it be me ? i get "illegal instruction " plus some
   other
   stuff,   3c26a

3-JUN-74 0845-PDT MATTIUZ: execute logout command
   Distribution: FEEDBACK, mattiuz
   Received at: 3-JUN-74 08:45:54   3c27

                this is not wroking in nls......we are directly taken into
                the exec level when this command is given with a message
                teelling us we have used an ellegal command,   3c27a

(author)   4

    FEED 11-JUN-74 12:42   30875
    Feedback Response
    Location: (MJOURNAL, 30875, 1:w)
    *****Note: Author Copy*****
                                                                                4a

    FEED 4-JUN-74 18:37   30840
    Bug at Office-1, tertiary distribution
    Location: (MJOURNAL, 30840, 1:w)
    *****Note: Author Copy*****
                                                                                4b

        Comments: Jim, If you haven't already would you please look at
        this? (Dean, the ident for Office-1 is FEED, dir is Feedback @
        Office-1 for sndmsg, Thanks.)   4b1

    FEED 29-MAY-74 16:08   30830
    Response to IMM about Archive, Privacy and an Ident
    Location: (MJOURNAL, 30830, 1:w)
    *****Note: Author Copy*****
                                                                                4c

    FEED 20-MAY-74 17:34   30774
    Items for NIC attention
    Location: (LJOURNAL, 30774, 1:w)
    *****Note: Author Copy*****
                                                                                4d

    FEED 20-MAY-74 17:10   30773
    Interaction of substitute and viewspecs,
    Message: Ed, The substitute command is designed to be controlled
    by the current viewspecs, This gives the user a powerful way to
    control its effect, If you want to have it work on all of the
    entity specified merely ensure that viewspec w is in force,   See
    Section 5, page 15 of the TNLS User's Guide, statement 10c, Copy
    to all RADC because this is probably notcommon knowledge,
    *****Note: Author Copy*****
                                                                                4e

    FEED 20-MAY-74 16:55   30772
    Missing news
    Message: there's no money, Please ask ARPAfor further details,

Feedback to 23 Aug 74

*****Note: Author Copy*****

4f

FEED 3-APR-74 11:20   30396
Problems with Group File Protection and Possible solutions
Location: (JJOURNAL, 30396, 1:w)
*****Note: Author Copy*****

4g

Comments: Action required by Bell-Canada, other inputs welcome,   4g1

FEED 30-MAR-74 15:35   30369
Response to
Message: Duane, Your Journal msg of 25 mar is being attended to ,
You will be notified of further developments, Thanks for the
input, (JHB)
*****Note: Author Copy*****

4h

FEED 27-MAR-74 11:49   30317
New NLS availability
Message: In response to Inez's sndmsg (20MAR1317) asking about
when the New NLS would be available, I've decided to inform KWAC,
Best estimates at present center around August, 1974, We realize
that is far from our original estimates, but we are finding more
and more things that we want to include in New NLS that should
make it even better than we originally anticipated, In addition,
we are desirous of providing full support for any new system in
documentatio, training, and help, It's a bigger job than we
anticipated, but it looks well worth it,   Jim Bair for
the Utility,
*****Note: Author Copy*****

4i

FEED 2-MAR-74 16:24   30167
Response to Fedback problems from Bell Canada
Location: (HJOURNAL, 30167, 1;w)
*****Note: Author Copy*****

4j

Comments: (This short message will also act as a test of the
Journal distribution problem to ident PAN, NOTE also that
there was a bug in the Journal system about two weeks ago
affecting regular delivery that was fixed, and has not recurred
to our knowledge),   4j1

FEED 25-FEB-74 19:00   30141
Name delimiter Problem
Message: Mike: The problem You experienced (re -- ,30127,) with a

Feedback to 23 Aug 74

statement name not working within one particular statement was due
to an inadvertant change of the name delimiters to NULL from (and
), (Command = Execute Name delimiter   followed by those you want
effective in that statement), I have reset them so the name
address should work now, Thanks for your inquiry,
*****Note: Author Copy*****

4k

    Comments: (Submitted 25 Feb at 7pm PDT)   4k1

FEED 15-FEB-74 15:28   30096

Message: Mike: Neither the system or you are overlooking
anything, we simply havent completed the software set up necessary
for the group protection to work yet, We will let you know when
the groups are defined to the System, Thanks for your inquiry and
sorry for the inconvenience,
*****Note: Author Copy*****

4l

(UTILITY) Items acted upon by Utility Staff (Those from feedback =
solution, explanation or action)   5

  NDM 17-MAY-74 11:14 23030
  RADC Inter-Office Memo Format
  Message: Duane: No way to do that simply with directives, SRI's
  standard format is similar, so I wrote a user content analyzer
  program which does approximately that, It's called SRIFORM, We
  may be able to modify the format slightly to get just what you
  want, Take a look at eh program and let us know if you guys need
  help modifying it, (Note: it does a special thing for statements
  with bullets, i,e, starting with , or -) You can update a file,
  reformat it with the program, do an output device printer, the
  unlock the file, --Dean

5a

  EJK 17-MAY-74 03:40 30764
  Message to activate the 'System',
  Location: (LJOURNAL, 30764, 1;w)

5b

  JHB 16-MAY-74 11:29 23021
  Feedback about Tenex Scrolling
  Location: (LJOURNAL, 23021, 1;w)
  *****Note: info only*****

5c

  WEC 3-MAY-74 08:34 30633
  Critique of Introductory NLS Course

Feedback to 23 Aug 74

Location: (LJOURNAL, 30633, 1:w)

5d

    Comments: This is a letter of about 50 lines so it can be
    printed at your terminal.   5d1

LAC 3=MAY=74 08:28 30632
Remarks on nls course
Location: (LJOURNAL, 30632, 1:w)

5e

    Comments: these are a few comments and observations on the
    NLScourse given 2=3 May at SRI=Wash   5e1

EFF 3=MAY=74 08:26 30631
course comments
Location: (LJOURNAL, 30631, 1:w)

5f

    Comments: Betty's Comment   5f1

JRP 1=MAY=74 10:06 30597
Grumble, grumble
Message: Doesn't anyone read this? Where is the response to my
message
re, RUNFIL?????????????

5g

JRP 26=APR=74 11:47 30568
RUNFIL PROBLEM
Message: HOW MAY I RUN THE RUNFIL COMMAND AT OFFICE=1? ALL I NEED
TO DO IS SET UP A DOZEN TAB STOPS IN NLS (WHICH IS VERY TEDIOUS
MANUALLY)

5h

    Dear Mr,Pickens,
    Please accept my most humble apologies for not responding to
    (30568,) or (30597,), Some explanation about the human (not
    machine) error, I mistook your ident for another similiar
    ident that I have sent things to in the past and then responded
    by sndmsg, That is a problem when no name is included with the
    ident,
    In the meantime (we aren't usually this slow) you may have
    answered your question, but if not: use the command RUNF<esc>
    CR RUNFILENAME<esc> CR, That works if your runfile is set up
    as a sequential file , If you need assistance doing that
    please let me know,
    Again, sorry for the lack of responsiveness, Jim Bair   5h1

Feedback to 23 Aug 74

ADO 30-APR-74 18:18   30593
missing news
Message: There's no news online,

5i

EJK 30-APR-74 10:05   30587
Viewspecs and 'Substitute' interaction,
Message: I just found, the hard way, that there is an interaction
between viewspecs and the substitute command, In trying to
substitute i,e, for ie, I got nowhere until viewspec w was used to
replace x, Is this the way it is supposed to work or is this an
accident? If this is the way it is supposed to work - WHY???

5j

DLS 22-APR-74 06:23   30503
Default settings for new NLS users
Location: (JJOURNAL, 30503, 1:w)

5k

MIKE 10-APR-74 14:43   30449
This is a resend of a March 26 to MEH (JJOURNAL, 30299,1)
Message: We would like your reaction to this proposal,

5l

15-MAY-74 1737-PDT FEEDBACK: Program problems
   Distribution: FEEDBACK, bedford
   Received at: 15-MAY-74 17:37:02   5m

   Mike, It should work if you, Go to Programs Output Compiler
   L10 CR FILENAME
   CR with the CM positioned at statement ,0 (have the file
   updated and
   loaded), It should automatically create a REL file which you
   then execute
   by Go to Programs Get Rel file FILENAME,   If it is a content
   anal, then Go
   to Programs Institute FILENAME CR as Content anal,
   Exceed capacity means you have put more characters into some
   buffer than it
   is programmed for, Either set your program buffer size to more
   or send us a
   copy of your program so that we can better determine what's
   going on,
   Good luck, Jim
   PS, Thanks for the thanks,...   5m1

15-MAY-74 1610-PDT FEEDBACK: Library services at the NIC
   Distribution: FEEDBACK, hughes at MIT-MULTICS, norton,

Feedback to 23 Aug 74

hhughes.mac at MIT-MULTICS
    Received at: 15-MAY-74 16:10:02   5n

    Herb,
    There have been major changes in the NIC recently by ARPA.
    These changes
    will virtually eliminate service as it is now known. This will
    be formally
    announced this week through the System, with copies sent
    through the mail to
    key people at each site,
    Thus, the answers to your questions are very different than
    they would have
    been a few weeks ago, Yes, we would like to have any documents
    for our
    hardcopy collection that you would like to share with us, They
    would of
    course be indexed in our Journal indexes, but that will be
    available only to
    people that are on line,
    Since there will be no service via the NIC after 1 July, it
    would not be
    useful to establish any kind of abstract library (there is none
    now),
    However, if you wish to purchase part of the Utility service
    from us, we
    would be glad to discuss any possibiliites, The service
    currently sells for
    a minimum of $10 to 40 thousand per year which includes user
    support as well
    as computer service/time, If you are interested or have any
    further
    questions, please feel free to contact Jim Norton or myself at
    SRI (415)
    326-6200 ext, 3614,   Thanks for your inquiry, Jim Bair (Head,
    User
    Development)   5n1

15-MAY-74 1459-PDT FEEDBACK: Dexwork file deletion
    Distribution: FEEDBACK, mattiuz
    Received at: 15-MAY-74 14:59:44   5o

    Inez, I'M a bit confused by your problem, The DEX process
    automatically creates a dexwrk file to completet th conversion,
    Did you actually receive some error msg when you tried to ddo
    the conversion? Something else must have gone wrong, Do you
    have any idea what? For eg, did you delete only the permanent
    copy and not the PC? Anyway, with the automatic creation of
    the dexwrk file no error msg should be necessary, Jim   5o1

15-MAY-74 1019-PDT BAIR at SRI-ARC: For the record -- telecall
    Distribution: FEEDBACK, bair, FERGUSON
    Received at: 15-MAY-74 10:18:32   5p

    From Hugh Lapinski, 854-6322,   Forum uses previous versions of
    same filename,extension to maintain the same conference record
    ongoing, Trim was naturally delting versions preceding thee
    last 2,
    Dir FUTURE was set to NO TRIM,   5p1

05/15/74 0949-edt HHughes,MAC at MIT-Multics: Net mail from site
MIT-MULTICS
    Distribution: FEEDBACK
    Received at: 15-MAY-74 06:48:07   5q

    i have several questions,
    we have here at project mac several documents that we think of
    interest, Do you have a hardcopy library and if so could we
    send
    you copies to be numbered and placed in the library, We noticed
    for example that the tenex documentation has nic numbers   5q1

    second related question
    we have prepared abstracts of MAC technical memos for
    journal entry into the NIC
    is there already a library of abstracts, If so what kind of
    stuff
    is in it and would it be appropriate for us to put ours into
    it?
    or would it be better to simply create a mit-multics file of
    documents and abstracts available to everyone   5q2

    thanks   Herb Hughes   5q3

9-MAY-74 1124-PDT MATTIUZ: dex
    Distribution: FEEDBACK, mattiuz
    Received at: 9-MAY-74 11:24:43   5r

    Jim, earlier i deleted my dexwrk file before completing the dex
    work on other files i had taped,.Ofcourse the system did not do
    the dex conversion on these files until i realized what i had
    done and then had to undelete the dexwrk one,,,Should there not
    be an error message issued to us when you try to do dex without
    an existing dexwrk file in your directory?,,,,Inez   5r1

6-MAY-74 2107-EDT Vint Cerf at AMES-TIP: Net mail from site
BBN-TENEX
    Distribution: FEEDBACK
    Received at: 6-MAY-74 19;06;23   5s

Jim:
haven't tried guest because office-1 was not responding on
Monday May 6 at 1800 hours, Will try again later this week and
will gripe if I have trouble, Thanks for checking again,
Vint   5s1

4-MAY-74 1327-PDT BEDFORD: a couple of prob's re Content
Analyzer
    Distribution: FEEDBACK
    Received at: 4-MAY-74 13:27:38   5t

    Jim, I still don't have the knack for storing a compiled
    version of a program in a REL file;
    Could you outline once more for me what I'm supposed to do,   5t1

    Also, I would like to know what is happening when I print a
    structure with the Analyzer on, and get a message saying
    "Exceed capacity",
    Thanks,   5t2

    ?   5t3

3-MAY-74 1433-EDT MCKENZIE at BBN-TENEX: Date of my last
journal message
    Distribution: FEEDBACK, Keeney at SRI-ARC
    Received at: 3-MAY-74 12:19:19   5u

    Dear Feedback,
    What the (expletive deleted) is going on? Yesterday I sent a
    Journal
    message about Scheduled Software Maintenance through the
    Journal,
    Today at least "LAFORGE" and myself got copies dated
    16-NOV-1858,
    Try looking at (LJOURNAL, 30610, 1:w),
    Regards,
    Alex McKenzie   5u1

3-MAY-74 1238-PDT MEYER at SRI-ARC: MESSAGE,TXT Files
    Distribution: FEEDBACK, ferguson, bair, jimb at OFFICE-1
    Received at: 3-MAY-74 12:37:32   5v

    Ferg: Bad protection (we fixed it) was BAIR at Office-1,
    Don't know what's changing it, I mentioned we had trouble
    sending from Office-1 to hopper at arc (in same message dist),
    Thanks for help (for Bair too), See you Wednesday PM, --Dean 5v1

3-MAY-74 1035-PDT STONE: Off line delivery of Journal docs

Feedback to 23 Aug 74

Distribution: FEEDBACK, keeny at SRI-ARC
Received at: 3-MAY-74 10:36:01   5w

The recently created RADC idents,,,mclean, stinson, laretto,
nelson, and kesselman are all getting hardcopy delivery from
the journal, Please change their delivery to on-line,,,,This
should be the default in the future for anyother
directories/idents unless we indicate otherwise,,,thanks   5w1

Stoney   5w2

3-MAY-74 1027-PDT FERGUSON at SRI-ARC: ScrewyMESSAGE,TXT files
  Distribution: FEEDBACK, meyer, bair, jimb at NIC, ferguson
  Received at: 3-MAY-74 10:27:41   5x

  Dean,
If what you say about unusual protection (like 775200) on
MESSAGE files
is true, a person will not be able to SNDMSG to him, Did this
occur at
ARC or OFFICE-1, Either Me or JIMB should write a program
which
prints out the protection of all the MESAGE files, and then we
can fix
up the bad guys, Dean please let me know ASAP, which system
this was,
  Jimb, please contact me an perhaps you can write the program
is you have
time,
Ferg   5x1

1-MAY-74 1434-PDT FERGUSON at SRI-ARC: cop of mess to yogen
dajal (su-dsl)
  Distribution: FEEDBACK
  Received at: 1-MAY-74 14:33:24   5y

  Yogen,
This is in response to your message of Apr, 25 concerning
getting hung
up when trying to link to a terminal which was "NOT LOGGED IN",
  You can in fact link to a terminal which is not yet logged
in,
However, if you link t a job that is currently HUNG (either
logged in
or not logged in) you will get hung also, The situation which
you
apparently ran into was someone having gotten hung on his (or
her)
terminal during the login sequence, Thus, when you tried to

link
you got hung,
  This should, I hope< explain what happened, If you have any
further problems, don't hesitate to ask,
Ferg (Bill FERGUSON@ARC)   5y1

1-MAY-74 0733-PDT BEDFORD: a suggestion for more information in
the SYStat command
    Distribution: FEEDBACK, mattiuz
    Received at: 1-MAY-74 07:33:47   5z

    why not have the system indicate whether or not the user has
    received any new messages since he last signed on ? (ie, YOU
    HAVE A MESSAGE)
    No charge for these little brainstorms of mine (not to be
    confused with storms in little brains)   5z1

1-MAY-74 0713-PDT MIT-DMCG: YOU WILL BE LOGGED IN 5 MINS
    Distribution: FEEDBACK
    Received at: 1-MAY-74 07:13:26   5a0

    GOT ABOVE MESSAGE IMMEDIALTLEY AFTER TYPING IN MY IDENT,
    VERY DISCONSCERTING,   5a01

30-APR-74 1205-PDT BEDFORD: thanks for the help on our recent
flurry of requests
    Distribution: FEEDBACK
    Received at: 30-APR-74 12:05:21   5aa

    I realize that we've really been bombarding you with all sorts
    of different requests over the past few weeks; We appreciate
    your
    attention; you've been most helpful,   5aa1

30-APR-74 1146-PDT FEEDBACK: Processing Suspended
    Distribution: FEEDBACK, bedford, mattiuz, norton
    Received at: 30-APR-74 11:46:38   5ab

    Mike,, Processing is currently suspended when the load average
    is over 4 and the process that user calls requires more 11
    seconds of CPU since the last interaction, We are working on a
    better way of controlling system load, but for now this is
    designed to keep the lad down to a reasonable level,   Does
    this explain it or do you need more info/explanation? Jim Bair
    (lad = Load)   5ab1

30-APR-74 1139-PDT FEEDBACK: Distribution lists
    Distribution: FEEDBACK, mattiuz, bedford, norton
    Received at: 30-APR-74 11:39:46   5ac

I am sended you a copy of this via direct sndmsg. If anyone
receives a "queued" etc,, the system will continue to try to
send the message until it gets through, for as long as five
days. The copy I have sent to all Bell using this technique
was queued but it should get through,
This is in specific response to a request from Mike and Inez,
I have sent out a discription of how to create distribution
lists for SNDMSG. You already probably know how to do this for
the Jouranl System whiich is a separate subsystem, by using the
ident Bell-canada, I am at this time testing an alternative
to these two ways that combines them. We have not released it
becuase of inadequate documentation, but it seems that the need
for it is high at Bell,
Submiting sndmsgs through the Journal:
In SNDMSG typeafter the prompt USER:
YOURIDENT/RECEIVERIDENT@NIC CR
RECEIVERIDENT = Bell=canada in your case, or any valid ident,
Let feedback know if there are any problems, Jim Bair   5ac1

30-APR-74 1019-PDT FEEDBACK: JWORK PC Close fail
    Distribution: FEEDBACK, postel at ISI
    Received at: 30-APR-74 10:19:59   5ad

Jon, The Jwork file is created by the journal in the process of
journal operation by you, Something slipped to cause the
system not to be able to finish its use of the file and update
the partial copy, So, you may have trouble with future journal
submission,, If you do, control c, reset, delete all versions
and PCs of JWORK and then go back into NLS, Be careful that
you dont complete a long process and then find out it wont go,
Hope this answers your question, Jim Bair   5ad1

30-APR-74 1007-PDT FEEDBACK: Group distribution
    Distribution: FEEDBACK, bedford, norton
    Received at: 30-APR-74 10:07:30   5ae

Mike, Group distribution is to the identt Bell-Canada, which
should deliver a copy to every using at Bell,
The sndmsg dist is alittle different, I sent you a description
of how to set a distribution list some time ago, Would you
please checkto see if you have it either via sndmsg or Journal?
If you cant find it I'll look to see where it went,   Thanks,
Jim
Jim Norton may be able to help you a little on his visit
therethis week,   5ae1

30-APR-74 1002-PDT FEEDBACK: Msg distribution
    Distribution: FEEDBACK, ucla-nmc
    Received at: 30-APR-74 10:02:59   5af

Dave, Sorry about the confusion on msgs, In trying to get
responded to as fast as possible, I send the responses to the
address listed in the FROM field, In this case there also was
a msg about multiple user dirs, that I sent to you for info,
The spelling one was from someone at your site?   Anyway, I'll
try to be more specific in addressing in the future,   Jim Bair   5af1

30-APR-74 0933-PDT FEEDBACK: Guest at Office-1
   Distribution: FEEDBACK, cerf at ISI, su-dsl
   Received at: 30-APR-74 09:33:23   5ag

   Vint Cerf, Double checking on the guest dir problem,,,has it
   cleared up? The double checker (Jim)   5ag1

30-APR-74 0604-PDT MATTIUZ: dex mixup
   Distribution: FEEDBACK, mattiuz
   Received at: 30-APR-74 06:04:37   5ah

   Jim, this happened twice but i have already got rid of the data
   so the next time if it happens i will snd you all the
   info,,,,Inez   5ah1

30-APR-74 0603-PDT MATTIUZ: group ident
   Distribution: FEEDBACK, mattiuz
   Received at: 30-APR-74 06:03:15   5ai

   Jim, When using this feature, We should have to put in only the
   name Bell when the system asks for Users in sndmess, is that
   right? I tried it and the mess was sent but i tried to see if i
   got any messages it said nomess,,How do i sue this feature?
                              Inez   5ai1

29-APR-74 1047-PDT BEDFORD: "PROCESSING SUSPENDED",,,,,,, Why
do?
   Distribution: FEEDBACK, mattiuz
   Received at: 29-APR-74 10:47:48   5aj

   What is it that causes processing to become suspended, as
   indicated by the systems response to a Control T ? Inez has
   noticed this a couple of times when using the Cassett,,,, or
   DEX,,,programs, and I just had it happen when printing
   something with the conent analyzer on, Isn't there some way
   you could get a notice to the user; When using the Cassett
   program, you can waste a lot of time, reading in data to a
   system in which processing has been suspended,   5aj1

29-APR-74 0958-PDT EDWARDS: DELETE OF ARCHIVED FILES
   Distribution: FEEDBACK
   Received at: 29-APR-74 09:58:12   5ak

HAS A DELETE COMMAND YET BEEN IMPLEMENTED TOLET A USER GET RID
OF
OLD FILES WHICH ARE IN 'ARCHIVE' AND NO LONGER WANTED?
IF SO HOW DOES IT GO?
IF NOT IS SUCH A COMMAND CONTEMPLATED?
FRED EDWARDS   5ak1

29-APR-74 0951-PDT DOCB: "YOU-WILL-BE-LOGGED-OUT" MESSAGE
    Distribution: FEEDBACK
    Received at: 29-APR-74 09:51:57   5al

    I'M SURPRISED AT SOME OF THE TIMES THAT MESSAGE ("YOU WILL
    BE LOGGED OUT IN FIVE MINUTES IF YOU CONTINUE TO DO NOTHING")
    APPEARS; I.E. TIMES WHEN I'VE NOT BEEN IDLE FOR ANY LENGTH
    OF TIME, SUCH AS TODAY RIGHT AFTER I LOGGED IN IT HAD
    PRINTED "IDENT" BUT I HADN'T HAD TIME TO REPLY), IS THIS
    NORMAL, AND CAN YOU TELL ME WHEN TO EXPECT THE MESSAGE?
    THANK YOU (AND THANKS FOR YOUR PROMPT REPLY TO MY PREVIOUS
    QUESTIONS), V. KALLAL   5al1

26-APR-74 1844-PDT NORTON: MUX and DEX
    Distribution: FEEDBACK, hardy at SRI-ARC, norton
    Received at: 26-APR-74 18:44:08   5am

    Martin: I agree with Jim Bair, The Bell Canada troubles with
    getting DEX input via the high speed line are important, WE
    (you or Rod?) should try to look at it, We've been a little
    slow about responding to this item, so if next week some one of
    you calls Mike and looks into a trial run, etc it would be of
    great help, I know you're busy with lots of stuff,,but a little
    time on this would really be appreciated, Mike's got lots of
    other problems   including slow servic from the computer   on
    his m
    d, Maybe we can slove this one and he'll feel he's getting a
    little more ahead of it, Thanks Jim Norton   5am1

26-APR-74 1408-PDT UCLA-NMC: responses from FEEDBACK,
    Distribution: FEEDBACK
    Received at: 26-APR-74 14:08:26   5an

    I just got Login, Link-to-operator, and spelling responses,
    Only the first enquiry was generated by me, I will try
    to track down the authors,   5an1

    If an author gives you an ident, you might want to send
    responses thru the journal as FEED/author@OFFICE,   5an2

    Dave Crocker (DHC)   5an3

26-APR-74 1353-PDT BEDFORD: Sending Messages of Journal Items to
GROUPS of Users - How Do ?
    Distribution: FEEDBACK
    Received at: 26-APR-74 13:53:13   5ao

    How can I send a message (or journal document) to the Bell
    Canada users without typing in all their names, It's not the
    typing I mind so much, it's trying to remember who they all
    are,
    Thanks,   5aoi

25-APR-74 2354-PDT FEEDBACK: Journal indexes
    Distribution: FEEDBACK, hardeman at OFFICE-1, beck, hopper
    Received at: 25-APR-74 23:54:53   5ap

    TThe indexes seem to be there, but Beau, PLEASE could you get
    he most recent there? The lastest seemed to be early March,
    User are really asked for this, Jim   5ap1

25-APR-74 2352-PDT FEEDBACK: Journal indexes
    Distribution: FEEDBACK, bedford
    Received at: 25-APR-74 23:52:41   5aq

    Mike, hello again, The userguides and indexes should be
    available now, altough they may not be as current yet as we'ed
    like, The link, (userguides,arclocator,1:xm) should give you
    all you need, Sorry for the problem, we still have some bugs
    in the transfer process from ARC to Office-1, Jim   5aq1

25-APR-74 1846-PDT SU-DSL: GUEST account and USC-ISI
    Distribution: FEEDBACK
    Received at: 25-APR-74 18:46:27   5ar

    JIM*
    Just tried to log in as guest and the damn system complained
    that
    null password was invalid, Then looked for USC-ISI directory
    and found it missing! Left not for Jim Norton at SRI just
    because
    he was handy, but thought you might look into it,
    Vint Cerf (CERF@ISI)   5ar1

25-APR-74 1527-PDT SU-DSL: A POSSIBLE BUG IN THE EXEC
    Distribution: FEEDBACK
    Received at;   25-APR-74 15:27:56   5as

    HI! I MAY HAVE DISCOVERED A BUG,I TRIED TO 'LINK'
    TO A TERMINAL THAT WAS NOT LOGGED INTO THE EXEC,
    BUT WHICH WAS CONNECTED TO OFFICE-1, IFOUND ITS NUMBER BY

```
      LOOKING AT 'SYST',
      THE SYSTEM THEN JUST HUNG UP ON ME! IT
      REFUSED TO RESPOND EVEN TO CTRL-C,THE
      FIRST TIME THIS HAPPENED WAS WHILE I WAS ON THE
      TI-SILENT 700,THE ONLY WAY TO QUIT WAS TO LOGOFF
      AT THE TIP(A NAUGHTY THING TO DO!), IN ORDER
      TO CONFIRM THIS BUG I REPEATED THIS, WHILE ON
      A 2741, THIS TIME I GOT A MESSAGE TELLING ME
      THAT I WAS INDEED LINKED TO THE SPECIFIED TERMINAL,
      BUT ONCE I PROCEEDED TO SEND SOME TEXT AFTER ';'
      THE SYTEM DIDN'T RESPOND WITH  A PROMPT AFTER A <CR>, AND AFTER
      THAT NO CONTROL
      COMMANDS WOULD BRING IT BACK INTO THE COMMAND MODE,              5as1

      IF THE  'LINK' COMMAND DOESN'T PERMIT LINKING TO
      TERᴍINALS NOT LOGGED INTO THE EXEC, IT SHOULDNT
      ATLEAST HANG UP,I DON'T THINK ITS DUE TO THE
      IDIOSYNCRACIES OF THR  TERMINALS (ALTHOUGH
      THE 2741 IS WIERD),I'D BE INTERESTED IN KNOWING
      WHAT THE PROBLEM IS,YOU CAN SEND ME A MESSAGE
      AT THE SU-DSL,MY NAME IS YOGEN DALAL,                            5as2

   25-APR-74 1333-PDT MITRE-TIP: jwork
      Distribution: FEEDBACK
      Received at:    25-APR-74 13:33:39                              5at

      i was in nls and used the journal to submit message after the
      journal system said completed i quit the nls, at that point the
      system said "<MITRE-TIP>JWORKJBP,NLS;1 cannot be closed", what
      does that imply?
      --jon. (Postel @ isi ot JBP in the journal)                    5at1

   25-APR-74 1320-PDT OPER: RESTORED DIR,
      Distribution: FEEDBACK, POLLACK, FERGUSON, JIMB
      Received at:    25-APR-74 13:20:08                              5au

      ON A LINK I RECIEVED WORD FROM USER FUTURE (HUBERT LIPINSKI)
      THAT
      HIS DIRECTORY HAD ALL TXT FILES DISAPPEAR, A CHECK OF HIS DIR
      SHOWED
      IN FACT ALL FILES WERE GONE EXCEPT MESSAGE,TXT AND THAT WAS
      DELETED,
      WE RAN AN OCTAL DUMP WHICH WAS ANALYZED TO SHOW EVIDENCE
      POINTING
      TO A DELETION AND EXPUNGE OF THE FILES RATHER THAN SOMETHING
      MORE EXOTIC , LIPINSKI COULD NOT EXPLAIN WHAT HAD HAPPENED (HE
      DIDNT
      KNOW THAT ANYONE HAD DELETED THE FILES) AND HE MENTIONED THAT
      USERE CROCKET HAD ALSO HAD SOME TXT FILES DISAPPEAR, ONCE I
```

Feedback to 23 Aug 74

```
    RECIEVED
    THE GO AHEAD FROM FERG AND JIMB I RECREATED ALL HIS FILES FROM
    OUR
    BACKUP TAPE STORAGE, MOST PLAUSABLE EXPLANATION FOR THE
    DISAPPEARENCE
    SEEMS AT THE MOMENT TO BE INADVERTENT OR MALICIOUS DELETION,
    OUR NORMAL DAILY DELD WAS PROBABLY BEHIND THE EXPUNGE, FEEL
    FREE TO
    CONTACT ME IN MORE INFO IS DESIRED.
      THANX
    BOBM
    TYM/OFFICE-1                                                    5au1
```

```
25-APR-74 1038-PDT  BEDFORD:  moving control marker to the
beginning of a statement from somewhere in the body of the
statement....HOW DO ?
    Distribution:  FEEDBACK
    Received at:    25-APR-74 10:38:07                             5av
```

```
    If I'm making changes within a statement, using the [literal
    string] capability, how do I tell the damn marker to back up to
    the beginning of the statement ?
    The counterpart of     >      , which moves the marker to he end
    of the statement , is     <, which moves the marker to the
    beginning of the File Header statement, no matter where I start
    from,  Help please.
    Thanks.                                                        5av1
```

```
24-APR-74 2025-PDT  ILLINOIS:  neted
    Distribution:  FEEDBACK
    Received at:    24-APR-74 20:25:58                             5aw
```

```
    Howcome there is no NETED at OFFICE?
      -- Dave Grothe                                               5aw1
```

```
24-APR-74 1739-PDT  MITRE-TIP:  ident passwords
    Distribution:  FEEDBACK
    Received at:    24-APR-74 17:39:46                             5ax
```

```
    is it possible to create a sense of security for those
    paranoids who
    wish some mild assurance that their work is under their own
    control,
    what i have in mind is passwords on idents, so that at least
    one can be
    sure that messages are not being sent in ones name with out
    ones
    knowledge,
    --jon, (postel @isi or jbp in the journal)                    5ax1
```

Feedback to 23 Aug 74

24-APR-74 1735-PDT MITRE-TIP; message of the day
    Distribution: FEEDBACK
    Received at: 24-APR-74 17:35:57   5ay

    can anything be done to eliminate typing the message of the day
    at me
    after i seen it? this loginn is the fourth time ive seen the
    "feedback"
    message and the 'n'th thime ive seen the "new exec" message,
    --jon,
    (postel @ isi or jbp in the journal)   5ay1

24-APR-74 1446-PDT SU-DSL; advertisements after login
    Distribution: FEEDBACK
    Received at: 24-APR-74 14:46:27   5az

    Gents:
    How about reversing the order in which announcements come out
    so that
    the latest come first, I am tired of sitting through all the
    old ones
    to find out if there are any new ones,
    CERF@ISI   5az1

24-APR-74 1409-PDT DOCB; QUESTIONS ABOUT MAIL AND MESSAGE FILES
    Distribution: FEEDBACK
    Received at: 24-APR-74 14:09:28   5b@

    1) IS THERE ANY WAY TO AVOID THE LISTING OUT OF THE "SYSTEM"
    LETTERS
       THAT COME IMMEDIATELY AFTER LOGIN ? FOR EXAMPLE, I'VE SEEN
    THE
       LETTER FROM MARTINEZ (4-15-74) ABOUT THE NEW EXEC SO MANY
    TIMES I
       ALMOST HAVE IT MEMORIZED, I'VE TRIED TYPING °C,°O,°X, ETC,
    TO ABORT
       THE PRINTING, BUT THERE'S NO RESPONSE, IT SEEMS,
    2) SIMILARLY, IS THERE ANY WAY TO ABORT THE PRINTING OUT OF A
    LONG
         MESSAGE AFTER YOU TYPE "MESSAGE" ? (I.E. SUPPOSE AFTER
    YOU SEE
         THE BEGINNING OF THE MESSAGE YOU DECIDE YOU DON'T WANT
    TO LOOK
       AT THE REST OF IT?
    3) IS THERE ANY WAY TO LOOK AT ONLY PART OF YOUR MESSAGE,TXT;1
    FILE?
        SO FAR THE ONLY WAY OF LOOKING AT THE MESSAGE FILE THAT
    I'VE
       FOUND IS TO "COPY MESSAGE,TXT;1 TTY:", BUT THEN YOU HAVE TO

LOOK
     AT THE WHOLE THING, ISN'T THERE SOME WAY OF SKIPPING PAST
A GIVEN
     (SAY, THE ONE THAT'S CURRENTLY PRINTING OUT) LETTER?
4) IS THERE A WAY OF EMPTYING THE MESSAGE FILE (BESIDES
DELETING IT)?
     IS THERE A WAY OF EMPTYING (OR DELETING) PART OF THE MESSAGE
FILE,
     BUT NOT THE WHOLE THING? (I.E. CAN YOU EDIT IT? I'VE TRIED
AND
     TRIED TO GET THE MESSAGE FILE INTO NLS TO WORK WITH IT,
BUT
     CAN'T SEEM TO DO IT, (I ASSUME THAT'S BECAUSE "TXT" FILES
AREN'T
     PROPERLY STRUCTURED FOR NLS ?))
5) IS THERE A LIMIT TO HOW LONG THE MESSAGE FILE CAN BE? IF SO,
WHAT IS
     THE LIMIT AND WHAT HAPPENS WHEN THE ACCUMULATED MESSAGES GET
TO BE
     LONGER THAN THE LIMIT? (DOES IT PREVENT PEOPLE FROM SENDING
YOU MAIL
     ?)
     PLEASE SEND REPLIES TO ME VIA SNDMSG TO DOCB@OFFICE-1,
THANK YOU,
     VIRGINIA KALLAL (STATION AGENT FOR DOCB),   5b@1

24-APR-74 1004-PDT UCLA-NMC: Signon messages
     Distribution: FEEDBACK
     Received at: 24-APR-74 10:04:39   5ba

     I belong to that select group with "group" directories, so
     that signon messages are printed EVERY time I log in, That
     means that I have been getting a THIRTY LINE PRINTOUT
     every time I have logged on the past several days,   5ba1

     I strongly recomment that signon messages
     a) Not have a title line
     b) Only contain pointers to the full text,   5ba2

     Dave Crocker (DHC thru Journal),   5ba3

24-APR-74 0950-PDT NBS-TIP: System messages at login tine
     Distribution: FEEDBACK
     Received at: 24-APR-74 09:50:03   5bb

     How can I suppress the printing of system messages? I
     frequently log in several times a day and don't care to see
     them all each time,   Ira Cotton, NBS   5bb1

Feedback to 23 Aug 74

24-APR-74 0858-PDT OWEN at USC-ISI: FEEDBACK
    Distribution: FEEDBACK
    Received at: 24-APR-74 09:00:45   5bc

        I HAVE YET TO RECEIVE ANY FEEDBACK FROM FEEDBACK
    CONCERNING
    MY INQUIRY TO THE CHANGE IN THE GUEST PASWORD, VERY CONCERNED
    ABOUT
    THE LACK OF RESPONSE AS THE INQUIRY WAS MADE BY INDIVIDUALS
    FROM ARPA,
    NOT NICE TO FOOL WITH FATHER PAYCHECK, I WOULD APPRECIATE
    HEARING
    FROM SOMEONE,

                                     ALAN R. HILL
                                     SDAC-TIP   5bc1

24-APR-74 0829-PDT OPER: USER INQUIRY
    Distribution: FEEDBACK
    Received at: 24-APR-74 08:29:05   5bd

    LAST NIGHT UCLA-NMC LINKED WITH THE INQUIRY ON HOW TO
    "FIND OUT WHAT THE JOURNAL THINKS MY NETWORK ADDRESS IS (IS
    THERE AN IDENTIFICATION SUBMODE LIKE THERE USED TO BE?),"   5bd1

    SINCE WE CANNOT DEAL WITH THIS I AM FORWARDING IT TO FEEDBACK,
    THANX
    BOBM
    TYM/OFFICE-1   5bd2

24-APR-74 0717-PDT BEDFORD: L-10 capability for Bell Canada
    Distribution: FEEDBACK
    Received at: 24-APR-74 07:17:23   5be

    We've got what I feel to be a real problem here, in not being
    able to deve an L-10 capability here, I thoght we would be
    able to free-up some of Penny's time, but she appears to be
    fully booked up by the other group reporting to Ken Hoyle here,
    I think Penny's got enogh smarts to pick it up rapidly once she
    got a chnace to expose herself (nice talk, eh ?) to it; this
    initial exposure (there I go again,,,) is going to be difficult
    to fit into here schedule, I was wondering if I could learn
    some of the basics of the language on my own, then sit down
    with her to outline some of it, showing her that it's not all
    that difficult, Once she stated to pick it up, she'd quickly
    progress past my level,
    Other alternatives include:
    1,) learn while linked to someone (like Dean M,); this has
    proven to be slow, unreliable, and frustrating
    2,) bringing someone (like Dean M,) here, or sending Penny

somewhere (like Washington) to pick it up; this wuld be both
expensive and time-consuming (seeing as how Penny can't get any
free time anyway),
3,) forget abot developing an L-10 capability in-house, and
rely on existing capabilities in your group to handle problems
as the arise on a one-sot basis,
Could you give me a call (collect) to discuss some of these
alternatives ?   5be1

23-APR-74 1536-PDT MATTIUZ; bad files
   Distribution; FEEDBACK
   Received at;   23-APR-74 15:36:27   5bf

   Jim, forget the previous message on bad files,I don't now how
   but all is well again,,,,thanks Inez   5bf1

23-APR-74 1354-PDT BAIR; allocation quota
   Distribution; FEEDBACK, norton, FERGUSON, hopper
   Received at;   23-APR-74 13:54:45   5bg

   i have just observed 7 RADC users on and 2 Bell users with a 5
   min ave, of over 6!!!!!! Seems that is not working as
   advertized , We (it would seem) must fix this!!!   5bg1

23-APR-74 1351-PDT MATTIUZ; bad files
   Distribution; FEEDBACK, mattiuz
   Received at;   23-APR-74 13:51:15   5bh

   Jim,regardless of the file i load i cannot do anything in it, i
   always get the "fst entry nonexistant" comment,,,why should
   this happen in all my files and waht could i have done for this
   to happen?,,,,,Inez
   z   5bh1

23-APR-74 0703-PDT MATTIUZ; dex
   Distribution; FEEDBACK, mattiuz
   Received at;   23-APR-74 07:03:12   5bi

   Jim,a couple of times when i am converting an exec file into
   nls via the dex process, the whole structure of the file has
   been rearranged,,,,as if the system just slots the statements
   in at random, Have you come upon this before, if so am i doing
   something wrong?,,,,,,Inez   5bi1

22-APR-74 2234-PDT BECK at SRI-ARC; Office-1 availability
   Distribution; FEEDBACK
   Received at;   23-APR-74 04:53:33   5bj

   I have not been able to log into Office-1 on Sunday or Monday

Feedback to 23 Aug 74

evening (today) through either tip or telnet, Either "Host is
disconnected" or "Host not responding" every time,   5bj1

22-APR-74 2001-PDT MARKOWITZ: Message about a feedback mechanism
    Distribution: FEEDBACK
    Received at: 22-APR-74 20:01:55   5bk

    wouldnt it be nice if them who didnt want a lon   5bk1

    message such as that of 22-apr didnt have to get it?   5bk2

    How about a shorty that tells those interested to type the
    contents of a file   5bk3

26-APR-74 1725-PDT FEEDBACK: message forward
    Distribution: FEEDBACK, martinez
    Received at: 26-APR-74 17:25:36   5bl

    Bob, Was this msg to you? It came to Feedback,
    16-APR-74 1249-PDT SU-DSL: tip and the '@' sign
        Distribution: FEEDBACK
        Received at: 16-APR-74 12:49:15
        Bob:
        Note that a TIP user who types two @ signs will see three
    echoed,
        The first two are echoed by the TIP and the one that gets
    through
        is
        typically echoed by TENEX,
        Vint Cerf   5bl1

26-APR-74 1720-PDT FEEDBACK: SNDMSG -s
    Distribution: FEEDBACK, feedback at SRI-ARC
    Received at: 26-APR-74 17:20:58   5bm

    Control S does not work in inferior exec to retype the msg,
    This is a bug and should be fixed, Thank you,   5bm1

26-APR-74 1718-PDT FEEDBACK: MUX and DEX,,,
    Distribution: FEEDBACK, norton, hardy at SRI-ARC
    Received at: 26-APR-74 17:18:22   5bn

    Martin, We continue to get inquires from Bell about MUX and
    DEX as
    exemplified by the following, I do not understand this area
    and would
    greatly appreciate it if you or one of your people would deal
    directly
    with Mike on this, You have met him and that makes it seem

even more
reasonable,   Please send copies of your dialogue to FEEDBACK
for the
record, Thanks, Jim Bair,
16-APR-74 1459-PDT BEDFORD: compatibility of CASSETTE.SAVE;1
and our
MUX
    Distribution: FEEDBACK, mattiuz
    Received at: 16-APR-74 14:59:18
    Do you fellows have ay reason to suspect that the Cassette
routine
    (for inputting cassette tapes) is somehow incompatible wth
the GDC
    1202 MUX that we ae using ?
    We have no problem reading in tapes when coming in on DDD,
but when
    we use the MUX, we get all sorts of garbage which aborts the
run
    (IE,, Control C's, Control Z's, etc,) It's a real puzzle to
us,
    althogh we suspect that the difficulty lies in the CASSETTE
    software rather than in the MUX,
    Any ideas ?   5bn1

26-APR-74 1701-PDT FEEDBACK: Load ave and Superwatch
    Distribution: FEEDBACK, day, mattiuz, bedford
    Received at: 26-APR-74 17:01:24   5bo

    Inez, As Jim may have told you, Superwatch isnt run during the
    day, that is it is not used to create the charts, etc,, that
    require any computer power, However, it has to go around and
    collect statistics during the day, so that's what it's doing
    when you see it, That doesn't require much power and therefore
    should increase the load average,
    Incidentally, having fond memories of Montreal about now,
    Really did enjoy my visits ther and meeting with you people,
    Must be spring ther now, huh? Jim   5bo1

26-APR-74 1651-PDT FEEDBACK: Using the Journal Indexes
    Distribution: FEEDBACK, bedford, mattiuz
    Received at: 26-APR-74 16:51:24   5bp

    Mike, Some additional info on searching for journal items:
    after you have located the citation in the index or know the
    number from some other source, and you find that's not online
    (when you jump on link and it does not get you the file) use
    the Exec's Interrogate command, The trick is to use the
    generic name for the directory: <journal>xxxxx, rather than
    some specific directory such as <ijournal>, I hope this helps,

particularly to retrieve archived Journal items, Please let me
know if i
continues to be "inoperative", Jim   5bp1

25-APR-74 2327-PDT FEEDBACK: Markers
Distribution: FEEDBACK, bedford
Received at: 25-APR-74 23:27:55   5bq

Mike, hmmmmm,, no one but Doug and Jiim (a little) users
markers, They can be very valuable when you repeatedly address
a floating point in a file, You can rearrange it, but always
return to the named location, Particularly good for some
programs,,,,   You should be able to use them in the address
field by preceding the Marker name with a # (pound sign), Let
me know if you have any luck, Jim   (Sorry this one took a
little long to answer,,,lots of reasons,,,,,,)   5bq1

25-APR-74 2321-PDT FEEDBACK: spelling
Distribution: FEEDBACK, ucla-nmc
Received at: 25-APR-74 23:21:42   5br

re 19 Apr msg, the programmer who cannot spell has left,
Thanks for pointing that out to us,   5br1

25-APR-74 2317-PDT FEEDBACK: msgs, etc,
Distribution: FEEDBACK, oper, MARTINEZ
Received at: 25-APR-74 23:17:04   5bs

Bob, Tnx for info and forwarded msgs,,,,they are taken care of,
The problem of disappearing files is not a newone, and is
relatively serious, Hope that ferg can figure out,
Incidentally, leaving the system up has been a great help to me
tonite,,,thanks, JIm Bair   5bs1

25-APR-74 2313-PDT FEEDBACK: CM
Distribution: FEEDBACK, bedford
Received at: 25-APR-74 23:13:40   5bt

Mike, The intrastatement address for beginning of statement is
_ not <, Could be a problem with the terminal character set,,
does it have a _? Jim   5bt1

25-APR-74 2311-PDT FEEDBACK: Neted
Distribution: FEEDBACK, illinois
Received at: 25-APR-74 23:11:00   5bu

We cannot find any problem with Neted, It appears to have been
there since we brought the system up in Feb, If the problem

persists, let us know again,
Re: msg from Dave Grothe   5bu1

25-APR-74 2308-PDT FEEDBACK: ident passwords
   Distribution: FEEDBACK, mitre-tip
   Received at: 25-APR-74 23:08:21   5bv

   Jon, sounds like a valid point, Will forward it to software
   development for action under needed development,   5bv1

25-APR-74 2302-PDT FEEDBACK: Questions about mail and msg files
   Distribution: FEEDBACK, docb
   Received at: 25-APR-74 23:02:45   5bw

   Virginia, I'll use your number to refer to the questions you
   asked:
   1) Already answered in other sndmsg
   2) Type "Rubout" or DEL depending on your terminal
   3) Use READMAIL to see msgs by date, etc, as explained therein
   4) Yes to all: in NLS use execute insert sequential,,,it will
   prompt your for the filename and an address of where to put the
   whole file in NLS, Then you can delete selectively, and delete
   the message,txt at Exec level
   5) There is not limit other than the size of your directory,
   Yes, if you exceed that, you will not be able to receive msgs,
   Detailed explanations and instructions are in the TENEX user
   guide youshould have, If not contact the NIC (marsha keeney),
   If we can assist further let us know,   5bw1

25-APR-74 2249-PDT FEEDBACK: First thing to do for bad files
   Distribution: FEEDBACK, mattiuz, stone, MCLINDON
   Received at: 25-APR-74 22:49:08   5bx

   Inez, That problem has occurred more than once and has to do
   with the hardware (disc) getting lost, When you do get that,
   "fst entry nonexistant" or "bad file" immediately control C and
   reset by calling NLS again, This clear up the problem in many
   cases, Jim
   Duane and Connie, In case you had similar problems come
   up,,,good thing to help your users,   5bx1

25-APR-74 2244-PDT FEEDBACK: DEX mixup
   Distribution: FEEDBACK, mattiuz
   Received at: 25-APR-74 22:44:24   5by

   Inez, I can't think of anything you are doing wrong, but that
   certainly is a rare problem with DEX, We can have one of our
   programmers take a look at the problem, but in all fairness
   they have to see the error, It works fine here, So, if you

can give us the DEX file, mixed up resultant file in NLS, and
the original tape we'll try our best to figure out what
happened. Has it happened more than once?   Jim   5by1

25-APR-74 2239-PDT FEEDBACK: Office-1 availability
Distribution: FEEDBACK, beck
Received at: 25-APR-74 22:39:16   5bz

Jeanie, Office-1 is not supposed to up those times. The
contract reads 6 days per week, 16 hrs a day, shut down at 9PM.
Please let us know if it does not meet those hrs. (Jim)   5bz1

25-APR-74 2236-PDT FEEDBACK: L-10
Distribution: FEEDBACK, bedford, norton
Received at: 25-APR-74 22:36:36   5c@

Mike, Jim will be able help you on this during his next
visit...in the very near future. Sorry there has been a delay.
It doesn't look like the remate link training method worked too
well for L-10. Regards, Jim Bair   5c@1

25-APR-74 2233-PDT FEEDBACK: re: Link to operator about Journal
Network Address
Distribution: FEEDBACK, ucla-nmc
Received at: 25-APR-74 22:33:47   5ca

In order to check the Journal ident system in NLS, type Go to
Ident subsytem CR, then with the subsystem prompt: >, type
STatus and supply the ident or the person's name preceded by a
period. The caps are what you should need to type. Quit the
subsystem when done.   Please let Feedback know if this gets
to the right person.   5ca1

25-APR-74 2213-PDT FERGUSON: Login Messages
Distribution: FEEDBACK, MARTINEZ, norton at ARC
Received at: 25-APR-74 22:13:46   5cb

    Bob,
A large number of usrs have complained that we leave login
messages around TOO LOONG!! So, Norton, Bair, and I have
come up with the following ideas
1) You should be the only person to put in and delete login
    messages, so that te users see a uniforn style.
2) No login message should be longer than 2 (two)!! lines.
    This mean that many messages will simply indicate the
    subject matter, with and indication of the TXT file in
<SYSTEM>
    to type out for more info.
3) Any message more than 10 days old should be removed.

Feedback to 23 Aug 74

        If you want to talk with me about this, and we should,
        give me a call in the morning,
        ferg
        p,s, Requsts for login messages sould only be accepted from
        you, Jimb, Ed Pollack, Jim Norton, Jim Bair, or me,   5cb1

    25-APR-74 2213-PDT FEEDBACK: Login Messages, particularly for
    multiple user directories
        Distribution: FEEDBACK, nbs-tip, ucla-nmc, cerf at ISI,
    su-dsl, mitre-tip, norton,, docb, illinois
        Received at: 25-APR-74 22:13:38   5cc

        Since a number of users commented about the same situation, I
        am sending this message to all at the same time, A decision
        has been made that messages will be less than two lines,
        pointing to a longer file if necessary, that only one person
        will send them, and that they will be deleted after 7 days,
        Thanks for your inquiries, let us know if you have any further
        input on this,   5cc1

    25-APR-74 2139-PDT FEEDBACK: Guest password
        Distribution: FEEDBACK, owen at USC-ISI
        Received at: 25-APR-74 21:39:52   5cd

        Alan, The password was changed by someone using the directory,
        we have now changed it back, I'M terribly sorry about not
        responding sooner and could give you all kinds of reasons, but
        just please accept my apologies for any inconvenience, Let us
        know any ideas/comments you have, Thanks, Jim Bair (User
        Development)   5cd1

    22-APR-74 1901-PDT BAIR: lost files
        Distribution: FEEDBACK
        Received at: 22-APR-74 19:01:30   5ce

        Dear Dave,
        Due the limited, finite computter resources available any file
        that is not accessed within 21 days is archived -- stored on
        tape, It can be retrieved by using the interogate command at
        the executive level, If you have any further problems, please
        feel free to sndmsg to Feedback,
        Sincerely,
        Jim Bair   5ce1

    19-APR-74 1421-PDT BEDFORD: "Fix marker named,,,,,,,,"
        Distribution: FEEDBACK
        Received at: 19-APR-74 14:21:55   5cf

        I'm not sure of the value of this capability,,,the Fix Marker

command, Is there any way of addressing (A:) the marker once
you've put it in, other than the Execute Marker List command ?
What can you use these markers for ?
Thanks ?   5cf1

19-APR-74 1341-PDT UCLA-NMC: spelling in interrogate command
    Distribution: FEEDBACK
    Received at: 19-APR-74 13:41:03   5cg

    Please correct the spelling of retreived to retrieved, Check
    the Interrogate Tenex Command, Thanks   5cg1

18-APR-74 1803-PDT FEEDBACK: File Restore, re msgs from Ed, Bob,
and Users
    Distribution: FEEDBACK, norton, MARTINEZ, jimb, pollack
    Received at: 18-APR-74 18:03:33   5ch

    This is a suggested procedure for handling file restoration at
    Office-1,
        There have been alot of problems lately associated with
    retrieving
        files from dumps in two cases: 1) from archive, particularly
    when
        the archive tape is at ARC due to the age of the file, and
    2) when
        there is a bad file, The history of some recent problems,
        particularly with Kennedy@and Stone at RADC do not be
    recounted,
        the dialogue iis recorded in (feedback,feed,utility:m),
    Dave
        Hopper is working on the spurious messages that are printed
    with
        the archive requests, Jeff Peters has restored the journal
    file
        from ARC archives as per the RADC request and Kennedy has an
    older
        version of his bad initials file restored and seems to be
    happy",

        I suggest the following procedure for future caases,
    undoubtedly
        there will be many,
            1) The operator (at Tymshare) review the archive
    requests at
            the end of each day (5pm EDT) and restore those file that
    he
            can from local tapes, At that time if a file is not
    available
            at Tymshare, or if he has any problems, he can contact

Jeff
        Peters before he departsARC at 5 PDT, The goal , I
think,
        should be 1 day return, However (and this is a good way
to
        impress users), if the operator can get the files back
the same
        day by occasionally looking at the listing, it would be a
        tremendous advantage,
        2) Bad files are one of the most serious problem the
daily
        user can face, The version that is bad is usually not
        recoverable except by the long and tedious process of
editing
        out the good portions of the file in NLS and deleting the
bad,
        However, it is not necessary to do any editing in NLS to
help a
        user get back in business, The operator restores the
most   5ch1

        recent good version of the file, and informs the user
that it is
        in his dir and the new name he's given it, The
difficulty is in
        determining what is a good version, AS far as I can tell
it
        must be loaded in NLS and an Execute File Verify done,
If the
        verify works, it should solve the problem (of course the
user
        still looses any editing done to subsequent versions,
        It's important in both cases for the user to be notified
that
        something has been done for him (users tend to miss
that),
        Incidentally, in the case where they cannot get into
Office=1,
        they should be called to inform them know its up, This
is very
        important -- I can vouch for it after being out in the
NET world
        for 3 years,
        Bob had some question about the timing -- whether or not
all
        operators should be trained, My personal opinion is that
the
        entire period of 16 hrs a day should be covered by an
opertor

        who can restore files and respond to phone calls,
    particularly
        with regard to status, both of the Net access and
    Office-1 ,
            u
        Jeff Peters will be available to help or get files off
    AARC
        tapes between 8 - 5 PDT,   Requests that come to Feedback
    will
        be forwarded to the operator by sndmsg, Any response to
    the user
        should be sent also to FEEDBACK so that we know what
    happened
        and have a record ,
        These are my suggestions; comments welcome, I think it
    will
        really help if we agrree on the the standard procedure
    for these
        non_NLS problems, Thanks, Jim BAir   5ch2

    P,S, Users may think there is some NLS solution and talk about
    plexes, etc, but I think this procedure will Work if that is
    ignored in the case of bad files,   5ch3

18-APR-74 1620-PDT CAVANO; archival
    Distribution; FEEDBACK
    Received at;   18-APR-74 16:20;48   5ci

    I am still having trouble in getting the archival system to
    cooperate with me, What can I be doing wrong (unless the files
    are being archived without being removed from my directory)??? 5cii

18-APR-74 1219-PDT SDAC-TIP; guest
    Distribution; FEEDBACK
    Received at;   18-APR-74 12:19:09   5cj

    What happen to the guest password?
        Alan R, Hill <owen>@isi,<vsc>@isi,<tgs>@isi   5cj1

17-APR-74 1150-PDT Mailer;
    Distribution; FEEDBACK
    Received at;   17-APR-74 1150:31-PDT   5ck

    Mail for crocker@UCLA-NMC not deliverable because;
    Not deliverable after 5 days,
    ------   5ck1

17-APR-74 1144-PDT BEDFORD; Journal index,,,,,,where, if at all?

Feedback to 23 Aug 74

Distribution: FEEDBACK   5c1
Received at: 17-APR-74 11:44:17

Is there an index available for the journal system we're using
on Office-1 ?   5c11

17-APR-74 1135-PDT BEDFORD: <USERGUIDES>arclocator,: I'm having
trouble
Distribution: FEEDBACK   5cm
Received at: 17-APR-74 11:35:53

What happened to the arclocator since I last tried to use it?   5cm1

16-APR-74 1526-PDT KENNEDY: System problems and file problems
Distribution: FEEDBACK, oper, bair, norton
Received at: 16-APR-74 15:26:31   5cn

You will be pleased to know that all of system related problems
have gone away.
As of 1703 I logged in to Office-1.
As of about 1800 I managed to get version 'X' of ejk,nls;25
up. It was a version that should not have existtted, since I
had journaled and deleted some of it earlier. But,,,
I outputted it, got a good version of it in nls;25 did some
work, updated and then deleted the pc andthenls of version 24.
Everything seems fine now. So I am going home and do my
incometax.
(NOTE) Iam not delinquent, the returns from upstate NY go to
Mass. In Mass they have Patriots Day whichis a legal holiday
and we get extended til midnit onthe 16th.
Tomorrow at this time I may be delinquent.   5cn1

16-APR-74 1459-PDT BEDFORD: compatibility of CASSETTE,SAVE;1 and
our MUX
Distribution: FEEDBACK, mattiuz
Received at: 16-APR-74 14:59:18   5co

Do you fellows have aY reason to suspect that the Cassette
routine (for inputting cassette tapes) is somehow incompatible
wth the GDC 1202 MUX that we ae using ?
We have no problem reading in tapes when coming in on DDD, but
when we use the MUX, we get all sorts of garbage which aborts
the run (IE,, Control C's, Control Z's, etc.) It's a real
puzzle to us, althogh we suspect that the difficulty lies in
the CASSETTE software rather than in the MUX.
Any ideas ?   5co1

16-APR-74 1249-PDT SU-DSL: tip and the 'a' sign

Distribution: FEEDBACK
Received at: 16-APR-74 12:49:15   5cp

Bob:
Note that a TIP user who types two @ signs will see three
echoed.
The first two are echoed by the TIP and the one that gets
through is
typically echoed by TENEX.
Vint Cerf   5cp1

16-APR-74 1243-PDT CERF at USC-ISI: NETWORK PORT ALLOCATION
Distribution: FEEDBACK
Received at: 16-APR-74 12:43:49   5cq

JIM:
THANKS FOR THE RESPONSE, I NOW UNDERSTAND WHAT'S GOING ON,
CHEERS.;VINT   5cq1

16-APR-74 1214-PDT PETERS at SRI-ARC: ARCHIVE REQUEST
Distribution: FEEDBACK, FEEDBACK, MARTINEZ at OFFICE-1
Received at: 16-APR-74 12:13:51   5cr

<IJOURNAL>14724,NLS;1 IS NOW ON-LINE AT OFFICE-1.   5cr1

16-APR-74 1154-PDT FEEDBACK: File restore
Distribution: FEEDBACK, stone, kennedy
Received at: 16-APR-74 11:54:20   5cs

Ed, Tymshare was unable to restore a good version of your
initials file? Sorry for the delay, If still a problem let me
know and we'll try an alternative route,
Duane and Ed, I'm still trying to get Journal,14724, restored,
Problem with it being arcived on the ARC machine a long time
ago, We have to work out proceedures for handling this,   Jim   5cs1

16-APR-74 1137-PDT BEDFORD: WHEEEE! Thanks for the new
allocation of disc,
Distribution: FEEDBACK
Received at: 16-APR-74 11:37:51   5ct

No problem at all when you run short of space at the other end;
I've already started to figure out ways of getting that 300
page allocation to do more work for me, Thanks again,   5ct1

16-APR-74 1127-PDT FEEDBACK: Disc allocation
Distribution: FEEDBACK, bedford
Received at: 16-APR-74 11:27:54   5cu

Feedback to 23 Aug 74

Mike, Done, (Feels good to say that,,,), You now have 400
pp, That's 100 over the max we set, but Oe'll try it to see
how it works out, We subdivided our finite resources to come
up with 300 per user, so as people claim their own, we may have
to set you back, I trust you'll be understanding at that
time,,,it's hard to let go of a resource like that, Shouldn't
be for a while yet,   Jim   5cu1

16-APR-74 1117-PDT FEEDBACK: Allocation of Office-1
Distribution: FEEDBACK, cerf at USC-ISI
Received at: 16-APR-74 11:17:46   5cv

vint, First to clear up some confusion, then answer to your
question (no secrets here!) The number of ports is purely a
mechanical factor and does not relate to who can log in,,, its
analogous to the number of phone lines available,,,,   The
computer can handle (barely) 20 jobs as an ave, max, So we
have sold 20 slots to whoever wanted to buy (with ARPAs
concurrance of course), A slot currently is 16 hrs/day 6
days/week connect time and related support services such as
trouble shooting,
at's it, (It will become more complex as it evolves,)
The slots are currently purchased by ARPA (12, 4 of which are
NIC), Rome Air Dev, Center (USAF) (5), Bell Canada (1), SRI
(1), and one for sale, They are $40,000 each/year, (May go
down in a year,,,)
Hope that answers your question, thanks for the interest,
Jim Bair (Coordinator User Development)   5cv1

16-APR-74 1105-PDT FEEDBACK: Restore = "impossible"
Distribution: FEEDBACK, peters, peters at SRI-ARC
Received at: 16-APR-74 11:05:53   5cw

Jeff, Martinez could not restore Journla, 14724, Tried
everything, Received later msg saying it might have been
retrieved, but was unusable, Requested by <kennedy>,,,   Can
you help? Help!!   5cw1

15-APR-74 1442-PDT BEDFORD: allocation of pages to BEDFORD up to
400 ?
Distribution: FEEDBACK
Received at: 15-APR-74 14:42:56   5cx

Could you raise the allocation of pages for Bedford up to 400,
at the expense of either Kollen, or Day (only temporarily in
the case of Day), I've done about all th trimming I can,
Thanks,   5cx1

15-APR-74 0744-PDT OPER: MAKING ARCHIVE HAPPEN

Feedback to 23 Aug 74

        Distribution: FEEDBACK, NORTON, FERGUSON, POLLACK
        Received at: 15-APR-74 07:44:33   5cy

        REFERENCES TO ARCHIVE COMPLAINTS MUST BE APPROACHED ON AN ITEM
        BY
        ITEM BASIS FOR THE MOST EFFECTIVE "FINE TUNING" TO OCCUR, WE
        WILL MAKE
        AN OVERALL GREATER EFFORT TO PROVIDE ACCEPABLE CUSTOMER SERVICE
        BUT
        NEED TO KNOW THE SPECIFICS OF COMPLAINTS TO ELIMINATE THOSE
        SYNPTOMS
        AT THEIR SOURSE: ARE REQUESTS THAT REFERENCE TAPES NOT LOCATED
        AT TYMSHARE INVOLVED? IS THERE A SPECIFIC USER WHO NEEDS EXTRA
        SERVICE TO
        OVERCOME HIS EXPRESSED DISSATISFACTION? DO THE ALLEGED
        BREAKDOWNS
        OCCUR DURRING A PARTICULAR TIME PERIOD (WHICH WOULD INDICATE TO
        ME
        WHICH PERSONELL REQUIRE FURTHER INSTRUCTION AND/OR CONTROL)?   5cy1

        ON TANGIBLE SUGGESTION I CAN INPUT AT THIS TIME IS THAT
        SUPERFLUOUS
        JOURNAL ERROR MESSAGES OF THE TYPE "<DIRNAME>IDENT,NLS;1 NO
        SUCH
        DIRECTORY" MUST BE CLEARED UP; ARCHIVE REQUESTS TO THE A,R,T
        ARE
        OBSCURRED WHEN LINES OF THESE OUTPUT, I WILL SEND THE CURRENT
        STATUS OF THESE TO MARSHA KEENEY AND DAVE HOPPER,   5cy2

        ON DIRECTORY <USERGUIDES> (AND OTHER SUCH CASES) IT IS A
        SIMPLE
        THING TO SET 'DONT ARCHIVE' ON FILES THAT SHOULD REMAIN AND IT
        WOULD
        BE INCORRECT FOR ME TO ASSUME I CAN DETERMINE THE CRITERION FOR
        THIS
        MYSELF; THIS DECISION WOULD SEEM TO BE BEST MADE IF NOT
        IMPLEMENTED
        AT ARC,   5cy3

        I LOOK FORWARD TO WHATEVER FURTHER INPUTS AARE AVAILABLE FOR
        THE
        COOPERATIVE EFFORT IT WILL TAKE TO ELIMINATE OR REDUCE THESE
        PROBLEMS,   5cy4

        THANX
        BOB MARTINEZ
        TYM/OFFICE-1   5cy5

  15-APR-74 0738-PDT MATTIUZ: load average

Feedback to 23 Aug 74

        Distribution: FEEDBACK, norton, day, mattiuz, bedford
        Received at: 15=APR=74 07:38:38   5cz

        Jim, is there any big reason why superwatch is run first thing
        in the Morning? It appears to be the job that makes the load
        average to high in the morning, Can this job not be run before
        the compute goes down during the night?.........Inez   5cz1

    13=APR=74 2205=PDT BECK at SRI=ARC: Archived <userguides> at
    Office=1
        Distribution: FEEDBACK, norton, vanNouhuys, kelley
        Received at: 15=APR=74 00:42:06   5d@

        Except for the following 3 files:
          op=direxp.nls;16
          op=dirlist.nls;8
          tnls=charcodes.nls;15
        there are no Office=1 <userguides> files on archive tapes,
        Because of the procedure (see=JJOURNAL, 22363,1:w) for
        maintaining Office=1's copy of <userguides>, there most likely
        won't be any more files archived from that directory,
            In particular, I will be reading every file there every 3
        weeks (thus archive won't get to it) by means of transfering
        ARC's current copy of <userguides> to office=1,
            I don't quite understand, from Feedback's sndmsg, what the
        problem with <userguides> is at Office=1, but it might be due
        to the fact that several parts of the TNLS Users Guide never
        got transferred, so users probably interrogated for it & found
        it missing,
            The reason several files were missing (all NLS files
        should b"e there as of today) is that I've found file transfer
        of a whole directory that is not a username to inconsistently
        but constantly fail with all methods I've been advised of,
        I've spent many frustrated hours at this, Several weeks ago I
        was promised by Hopper & White that they were working on better
        tools for this, However, Today I did manage to get most of the
        files over there individually despite several bomb=outs for
        each
        f them,
            Print files are not available at Office=1's <userguides>
        so far, because ARC'S print files don't work on Office=1's
        printer, Therefore, new print files will have to be generated,
        However, users do have an alternative to running print files:
        they may obtain such hardcopy directly from the NIC at SRI=ARC
        by asking for the Users Guide they want,   5d@1

    12=APR=74 1541=PDT OPER: KENNEDY
        Distribution: FEEDBACK
        Received at: 12=APR=74 15:41:54   5da

Feedback to 23 Aug 74

        I DON'T THINK BOBM CAN HELP MUCH EITHER SINCE I ALSO DON'T
        UNDERSTAND
        WHAT THE PROBLEM HERE IS, WE RESTORED THE FILE WITH NO
        TROUBLE BUT THEN KENNEDY LINKED BACK AND STARTED TALKING ABOUT
        BRANCHES AND PLEXES AND THAT'S REALLY OUT OF OUR DEPARTMENT, I
        SUGGEST
        YOU GET IN TOUCH WITH HIM AND LET US KNOW WHAT WE CAN DO TOHER
        RESTORING HIS FILES,
                WITH REGARD TO THE MESSAGE FROM THE OPERATOR, WE ARE
        TRAINING A NEW OPERATOR ON TENEX AND HE HAS BEEN DOING
        FINE UNTIL HE RAN INTO AN NLS PROBLEM,
                LET US KNOW THE RESULT OF THIS, THANKS, EDWARD POLLACK   5da1

    12-APR-74 1442-PDT OPER: RESTORING <KENNEDY>FILE
        Distribution: FEEDBACK
        Received at: 12-APR-74 14:42:37   5db

       TALKED WITH KENNEDY AND HE DECIDED TO WAIT UNTIL MONDAY TO FIX
       UP THE PROBLEM , BOB M, IS NOT   5db1

       HERE TODAY & I AM NEW AT THIS & NOT TO MUCH HELP,
       JOE REVILLE   5db2

    12-APR-74 1211-PDT CERF at USC-ISI: ALLOCATION OF NETWORK PORTS
    AT OFFICE-1
        Distribution: FEEDBACK
        Received at: 12-APR-74 12:09:31   5dc

       JIM BAIR RECENTLY ADVISED ME THAT THERE ARE A TOTAL OF 30
       NETWORK PORTS
       ON OFFICE-1 OF WHICH 20 ARE ALLOCATED TO SUBSCRIPTION GROUPS,
       HIS
       COMMENT WAS THAT ARPA HAS PAID FOR 4 NIC SLOTS, I AM
       ESSENTIALLY
       CONFUSED BY THIS SINCE I ASSUMED THAT ARPA PAID FOR THE ENTIRE
       SYSTEM
       AND THAT TYMSHARE IS FACILITY MANAGING THE THING, IN ANY CASE,
       I USE
       ACCOUNT SU-DSL WHICH IS CERTAINLY PAID FOR BY ARPA, IN THE
       INTEREST
       OF UNDERSTANDING THE POLICY, CAN I BE APPRISED OF THE GROUPS
       WHICH HAVE
       ACCESS TO OFFICE-1 AND THE NUMBER OF PORTS ALLOCATED TO EACH OF
       THESE
       GROUPS? IF THIS IS DEEMED SENSITIVE INFORMATION, PERHAPS CARIG
       FIELDS
       OR STEVE CROCKER AT ARPA WILL GIVE PERMISSION FOR THIS
       INFORMATION TO
       BE GIVEN TO ME, BUT I DIDN'T WANT TO BOTHER THEM UNLESS IT IS

Feedback to 23 Aug 74

NECESSARY, THANKS IN ADVANCE FOR TAKING THE TROUBLE TO RESPOND,
VINT CERF [CERF@ISI].   5dc1

12-APR-74 1204-PDT FEEDBACK: restore = impossible
    Distribution: FEEDBACK, peter at OFFICE-1
    Received at: 12-APR-74 12:04:37   5dd

    Martinez could not restore Journlal, 14724. Tried everything
    at Office-1. Can you help? JimBair   5dd1

12-APR-74 1153-PDT FEEDBACK: File restore
    Distribution: FEEDBACK, kennedy, oper
    Received at: 12-APR-74 11:53:30   5de

    Oper: (Bob M ?) Did you restore <kennedy>EJK to the latest
    good version yet? As per his sndmsg of 11 apr 1526, If you
    have just wanted to check, but you havent please send a copy of
    the restore notification to FEEDBACK, This will help us
    greatly help the users and keep track of things. (Excuse the
    typos...)   5de1

12-APR-74 1146-PDT FEEDBACK: Your phone call
    Distribution: FEEDBACK, crocker at UCLA-NMC, crocker at ISI
    Received at: 12-APR-74 11:46:33   5df

    Your call about not being able to make the final connection
    into Tenex from the Net is appreciated. We were aware of the
    problem and had fixed it earlier but it recurred... Fixed it
    again, but taking a serious look at the Net server software.
    Any further problems, please feel free to sndmsg to
    Feedback@Office-1.   (Jim Bair)   5df1

10-APR-74 0913-PDT STONE: Interogate...mouse
    Distribution: FEEDBACK
    Received at: 10-APR-74 09:13:10   5dg

    We never did get back one document,,Martinez said he tried
    everything he new...It was the AKW doc by doug watson and
    norton,,,,# 14724,,,retyped portions of it, but it should be
    on-line, since it is used often,   5dg1

    What everhappened t the 3rd (last) mouse we sent back to you
    guys, Did you get it? It was sent prior to your last visit,
    JIM,,,remember, I asked if you could bring it with you??
    Appreciate a check,,thhanks   5dg2

10-APR-74 0711-PDT BEDFORD: Slow response times leading to
disaffection toward the system

Feedback to 23 Aug 74

        Distribution: FEEDBACK, mattiuz, bedford
        Received at: 10-APR-74 07:11:12   5dh

        Everytime I learn about something new in this system, like a
        special user program, or that RUNFILE routine, I get all
        excited and enthusiastic. Then I try to use one of them, and
        am quickly brought back to earth. Having to wait over a minute
        while the RUNFILE routine I built up tries to get into NLS
        takes all the fun out it. More importantly, it wastes a lot of
        time that I was trying to save with RUNFILE in the first place.
        Inserting MESSAGE.TXT files into NLS is no use at all if it's
        goin
        to take over two minutes to get through the command, Execute
        Programs ....INMES.
        More experienced users probably don't have to wait around to
        see if the command "took", but all of us around here tend to
        check things as we go, not out of any sense of insecurity about
        the system's ability to perform, but because we make lots of
        mistakes as we go. The lack of feedback (actually a very
        delayed form of feedback) is really cramping our learning and
        developing within the system.
        This is not a bitch, by the way. I've bitched before, and I'm
        sure that you're more aware of the problem's this lack of
        memory is causing than we are. I just wated to point out that
        the slow response time may be more acutely felt by novice users
        such as ourselves, and may have more impact on their attitudes
        torwards this style of working than it would have on you
        seasoned professionals.   5dh1

    12-APR-74 0817-PDT BAIR at SRI-ARC: gripe about allocation
    (11apr1547)
        Distribution: FEEDBACK, cerf at PARC-MAXC, kudlick
        Received at: 12-APR-74 08:15:55   5di

        Sorry for the inconvenience. There are 30 Net ports. The
        problem you had was due to our Allocation system which controls
        the number of login jobs for each user group at Office-1.
        There are a total of 20 which are allocated to the subscription
        groups, for example, ARPA has paid for 4 NIC slots. We think
        this is an effective way of sharing limited resources. Any
        further questions or problems, sndmsg to FEEDBACK@office-1.
        Jim   5di1

    11-APR-74 1526-PDT KENNEDY: initials file
        Distribution: FEEDBACK, oper
        Received at: 11-APR-74 15:26:19   5dj

        My initials file is suddenly a bad file. I think the problem

                is in the branch called (mess), Can you either fiex or bring
                back yesterday's version? Sorry about that!   5dj1

     11-APR-74 1136-PDT STONE: Mouse
           Distribution: FEEDBACK
           Received at: 11-APR-74 11:36:30   5dk

           Disregard last mess on mouse, The 3rd and final mouse arrived
           here today, in fine shape after its stay in the hospital, The
           first one received over 6 months ago is still performing
           flawlessly, Thanks a million for the job, It makes DNLS a
           delight again, The replacement for # 3 has been shipped out
           this morning,   5dk1

      9-APR-74 1702-PDT FEEDBACK: (jjournal,30403,) Protection Issue
           Distribution: FEEDBACK, stone
           Received at: 9-APR-74 17:02:37   5dl

           Duane, thanks for you votes, they are counted, It turns out
           that we do not have to change things for you becuase you are in
           a different category form Commercial users,
           Note that even though your ha ha (4,) rings a little true,
           foriegn disclosure is not legal,,,,,   Anyway, nobody in your
           group minds open files? Even Deane? Jim   5dl1

      9-APR-74 1437-PDT KENNEDY: archive restore (msg frm Jim)
           Distribution: FEEDBACK
           Received at: 9-APR-74 14:37:40   5dm

           jmb = all of mine came back, Acouple took hmore than one day,
           and did require a second request, I think this is growing
           pains and things seem to have picked up okay, There were at
           least three requests for one of Doug Engelbart's reports which
           they never found, There was considerable interaction betweeen
           oper and dls, but no file,   5dm1

      9-APR-74 1436-PDT FEEDBACK: Files Online
           Distribution: FEEDBACK, mattiuz, bedford
           Received at: 9-APR-74 14:36:34   5dn

           Mike, All the files that are supposed to be on line now are,
           You should now be able to use Journal indexes, etc, Please let
           us know if there is any further difficulty,
           Re: Journal,30300,) and sndmsgs,,,   5dn1

      9-APR-74 1405-PDT FEEDBACK: Archive restore
           Distribution: FEEDBACK, kennedy, stone
           Received at: 9-APR-74 14:05:13   5do

Feedback to 23 Aug 74

    Ed: Did you get your files restored yet from archive? If it
    took more than one day, please tell me the date, and filename
    of the requests and any other pertinent info, Waiting for your
    reply, Jim Feedback   5do1

DVN 5-APR-74 16:24   22634
COMTEST of JOVIAL Chapter
Location: (JJOURNAL,22634,1:w)
*****Note: (Secondary Distribution Copy from XXX)*****

                                                                  5dp

DLS 4-APR-74 05:35   30404
Where have all the stats gone?
Message: Susan, I get the Superwatch graphs each week,,,,good deal
because I like to keep track of how the ARC system is being used
(now that the troublesome RADC guys are gone), Will we be getting
the equivalent graphs and/or the BAH Week in review report from
Office-1, I have accumlated stats from BAH's report for the past
year, and am interested in making comparisons between them and our
current use,

                                                                  5dq

DLS 4-APR-74 05:20   30403
Privacy, Protection, Whats the problem?
Location: (JJOURNAL, 30403, 1:w)

                                                                  5dr

NDM 3-APR-74 14:24   22623
Group File Protection: Response to (30396,)
Location: (JJOURNAL, 22623, 1:W)

                                                                  5ds

MIKE 26-MAR-74 14:29   30299
HELP HELP HELP ! We need a line processor,
Location: (JJOURNAL,30299,1:W)
*****Note: (Secondary Distribution Copy from XXX)*****

                                                                  5dt

JHB 30-MAR-74 19:42   22536
User Development Trip to Bell Canada &Pre-application Analysis
Location: (JJOURNAL, 22536, 1:W)

                                                                  5du

    Comments: Historical and Analytical; Follow-on Necessary in
    conjunction with Bell study of AKW,   5du1

JHB 30-MAR-74 19:38   22535
User Development Trip to RADC, 19 Nov 73

Feedback to 23 Aug 74

Location: (JJOURNAL, 22535, 1:w)

5dv

Comments: Historical

5dv1

MDK 27-MAR-74 08:09   22498
stuff
Location: (JJOURNAL, 22498, 1:w)

5dw

Comments: thought you might be interested in this msg from
network feedback,

5dw1

MIKE 26-MAR-74 15:34   30301
Some questions on protectiona dn recognition of Bell users as a
group,
Message: I've compared the protection numbers for some file of
other Bell users, and I 've found that I'm able to get into files
designated 775200, whereas before I was unable to, Does this mean
the system now recognizes us a a group ? If so, is there any
quick way of ourn usin SNDMESSAGE to send a message to every
member of the group, other than typing out each name ?

5dx

In order to create distributions for sndmsg, you must first
create a file, This file will contain nothing but the names of
the people you wish to be in a particular distribution,   2)
Then you insert one statement in the file and in it put the
names of the receivers just as you would in sndmsg
(lastname,lastname, etc,),   3) Check to see if the statement
is longer than one line, If it is find the lastname before the
end of the line and insert a literal carriage return after the
comma, This way of noting each line with a CR is necessary
when a string of names is more than one line long,   4) Update
the file and then position the pointer so it is at the
beginning of statement 1,   5) With your marker at the
beginning of the statement and statement numbers turned off
(with viewspecs), do an Output Sequential (no forced upper) to
Filename,sav CR,   6) To use the distribution list file, merely
type a control B in sndmsg when is asks you for USERS: and
enter the filename,sav <esc> CR, This may take more than one
try, but should work in a way similar to using control b to
submit a TXT file as the Message,

5dx1

MIKE 26-MAR-74 14:38   30300
Information on 'Files Not On-line'
Message: I'm having a lot of trouble with files not on-line, that
were formerly available at arc-sri, I'm thinking to the journal
indexes,the output processor directives, etc, The links I set up

for arc-sri don't work anymore. Have the addresses been changed,
or are the files truly not available ?
I know this sounds like a dumb question.

5dy

DLS 25-MAR-74 12:34   30284
Problems sorting plex
Location: (JJOURNAL, 30284, 1;w)

5dz

  8-APR-74 1723-PDT FEEDBACK: Append prob
    Distribution: FEEDBACK, bedford, mattiuz
    Received at: 8-APR-74 17:23:38   5e0

    Mike, "fst nonexistant" usually means the system cant locate a
    valid address on disc because of technical failure. If you are
    specifying a correct address which must include a statement
    reference in it, then try it again. A repeat means you should
    do a Execute File verify to see if the file is in fact screwed
    up on disc. Please let me know what happens.   5e01

  8-APR-74 1716-PDT FEEDBACK: System down on fri nite
(5apr1917edt)
    Distribution: FEEDBACK, kennedy, stone, norton
    Received at: 8-APR-74 17:16:14   5ea

    Ed, If the time is correct, I don't know why it goes down at
    7pm your time. At about 3PM our time every Fri we bring a new
    Exec with all the improvements, etc,, that have been tested
    during the week at ARC. If the time is correct (I'll wait for
    conformation from you) does it come back up? Is there any
    announcement that it's going down?   Jim Bair   5ea1

  6-APR-74 1126-PDT BEDFORD: difficulty in using the Append
command between files
    Distribution: FEEDBACK, bedford
    Received at: 6-APR-74 11:26:00   5eb

    I tried appending from my (usequse,) to my (round2,), and I got
    a message to the effect that <BEDFORD>ROUND2,NLS;2 - fst entry
    nonexistant. Is this just an isolated incident, or is the
    system trying to tell me something ?   5eb1

  5-APR-74 1917-EDT kennedy at RADC-TIP: Office-1
    Distribution: FEEDBACK, stone at OFFICE-1
    Received at: 5-APR-74 16:46:58   5ec

    Why does the host go dead every Friday night at about this
    time???

It is somewhat disconcerting to be in the middle of something
and suddenly have the whole thing go dead. It is crushing to
have it happen every Friday night. Do we get a refund????
Comment please!!!   5ec1

5-APR-74 1138-PDT FEEDBACK: Xseted File (5apr0858)
   Distribution: FEEDBACK, mattiuz
   Received at: 5-APR-74 11:38:52   5ed

Inez, there's no way to restore the file using the Xset command
in reverse. If it's tto late to do an Execute Unlock, then use
the xset command in xset mode lower which can make your whole
file lower case. You'll still have to capitalize each
sentence, etc, It's easy if you can do an Unlock,
otherwise....   Jim   5ed1

5-APR-74 0858-PDT MATTIUZ: xset feature
   Distribution: FEEDBACK, mattiuz
   Received at: 5-APR-74 08:58:42   5ee

jim, in error, i accidently did that to one of my files...the
complete thing...how can i fix it that only my top level
statements and the first letter of each statemnt will be in
caps?   5ee1

4-APR-74 1113-PDT KENNEDY: arch reqs
   Distribution: FEEDBACK, oper
   Received at: 4-APR-74 11:13:46   5ef

Thank you for the files and the notification. Don't mean to be
picky just get frustrated, Ed K   5ef1

3-APR-74 1412-PDT BAIR at SRI-ARC: Archived Journal Indexes
   Distribution: FEEDBACK, HARDEMAN, norton, FERGUSON, oper at
OFFICE-1
   Received at: 3-APR-74 14:12:43   5eg

Beau, I'm not sure, but rumor has it that you are responsible
or at least know something about the Journal catalogs at
Office-1. Well, most of them are archive, but I dont know
which ones to have restored. Could you send a note to the
operator of Tymshare telling him which files to restore?
Ferg, There must be some way to keep these catalogs,
userguides, etc, from being Archived...can you do ?   Jim   5eg1

3-APR-74 1407-PDT BEDFORD: no available 110 baud ports - no
sweat,
   Distribution: FEEDBACK
   Received at: 3-APR-74 14:07:49   5eh

Feedback to 23 Aug 74

The idea came to me when I realized that on an upcoming trip, I wouldn't
be near anything but the 110 baud machines, It won't continue
to be a problem, if in fact it ever really was that serious,
My question was more in the nature of curiousity and
looking-ahead, rather than a request, Thanks   5eh1

3-APR-74 1401-PDT BEDFORD: your "waiting for the *"
    Distribution: FEEDBACK, mattiuz
    Received at: 3-APR-74 14:01:45   5ei

For a long time I thought that the *C was such a beast that it took two
carriage returns after using it to get back to NLS, (Ha Ha on me !)
The 72 seconds I referred to was on first logging in; it
hasn't been THAT bad for a while, now, I'll be sure and let
you know if it gets really bad again,   5eii

3-APR-74 1141-PDT FEEDBACK: Waiting for the *
    Distribution: FEEDBACK, bedford, mattiuz
    Received at: 3-APR-74 11:41:49   5ej

Mike, A couple of weeks ago, you mentioned something about
waiting 72 secs for the TNLS herald, *, It occurs to me that
if you do a continue from the Tenex level, you will NOT get one
until some noise or a CR causes it, This is because a *c
interupts NLS and returns you to the exact spot you were in
before, AFTER the herald waiting for a command, Does this
help?   Jim   5ej1

3-APR-74 1137-PDT FEEDBACK: Mess command
    Distribution: FEEDBACK, mattiuz
    Received at: 3-APR-74 11:37:46   5ek

Inez, Must have been one of those glitches that occur randomly
and are impossible to trace after the fact through the millions
of circuits that are used, I can only offer an alternative to
"MESS", READMAIL,
Readmail<esc> CR gives you a subsystem designed to let you deal
with messages at the Tenex level, Follow the instructions
given when you ask for help, and you can read your msgs from
any day to the present, Let me know if you have any trouble
with it, Jim   5ek1

3-APR-74 1005-PDT MATTIUZ: sndmsg
    Distribution: FEEDBACK, mattiuz, bedford
    Received at: 3-APR-74 10:05:03   5el

Feedback to 23 Aug 74

As i logged in this morning, i was told i had a new message
however when i tried to read it, computer told me i had no new
messages
            Inez   5e11

3-APR-74 0929-PDT KENNEDY: reply on yourmsgs in response to my
'deleted files' msg
      Distribution: FEEDBACK, oper, bair
      Received at: 3-APR-74 09:29:23   5em

There is no way I can reproduce the entire session, Earlier in
the day I looked at my dsk and expunged, Later after working
entering a file on the TI and editing it on the IMLAC and
journaling it, I was ready to log off, Ichecked dsk and found
I had about 35 pages expunged I then checked a printout of my
directory from that morning, I found that the one file was
gone, so I undeleted it,
Ref the trim on extra file versions bi-weekly retaining only
two, I had only one in my directory, it was the second
version, Had it been expunged also would it have been
recoverable - easily? I admit that the file was on a topic
that has been hanging fire for a while and has probably onot
been looked at for a month, Does this mean it gets trimmed out
of my directory?
By the way why is it tking so long to getjournaled material
online? We asked for one of Engelbart's reports about three
time a week or more ago and I don't think it made it yet,
Ialso asked for two last nite and have heard nothing, They may
or may not be back right now,
In the first para, read 35 pages deleted, sorry about that,   5em1

3-APR-74 0709-PDT OPER: DELETED FILES
      Distribution: FEEDBACK, KENNEDY
      Received at: 3-APR-74 07:09:42   5en

TO REITTERATE THE MESSAGE FROM JIM BAIR, I CAN ADD THAT ON
BI-WEEKLY
INTERVALS WE PERFORM A TRIM ON EXTRA FILE VERSIONS KEEPING ONLY
TWO
VERSIONS, ALL FILES INVOLVED ARE KEPT ON TAPE STORAGE AND WE'D
BE
HAPPY TO RECOVER ANY AND ALL DESIRED FILES ON A PER REQUEST
BASIS,
THANX
BOBM   5en1

2-APR-74 2058-PDT IRBY at SRI-ARC: lack of file name feedback
      Distribution: FEEDBACK, bedford at OFFICE-1, mattiuz at

Feedback to 23 Aug 74

OFFICE-1, hopper, wallace, white
    Received at: 2-APR-74 20:58:54   5eo

    My humblest appologies but there in fact is no good reason for
    the lack of a file name feedback when the move command is used
    to move something into another file. The CM is move to the new
    file, but the user is not told of the change in file. This is
    a bug and should be fixed by Dave Hopper. It has been fixed in
    the new NLS. -- Charles.   5eo1

  2-APR-74 1838-PDT FEEDBACK: Prompt when new file location
exists after move
    Distribution: FEEDBACK, bedford, mattiuz, irby at SRI-ARC,
hopper at SRI-ARC,   wallace at SRI-ARC, white at SRI-ARC
    Received at: 2-APR-74 18:38:07   5ep

    Mike, I agree with you, but I have been wrong before. There's
    probably some excellent logic behind why there is no filename
    echo after a move command from the file you're currently in to
    a new one. So, I'm sending this feedback msg to some of our
    system programmers fro their consideration. Thanks muchly for
    the good feedback, Jim   5ep1

  2-APR-74 1831-PDT FEEDBACK: Link from half to ful duplex
    Distribution: FEEDBACK, stone
    Received at: 2-APR-74 18:31:17   5eq

    Stoney, We have tried to duplicate your thing but have not be
    able to. Further, noone here can believe your description.
    Any more data??   Try it again? Jim   5eq1

  2-APR-74 1807-PDT FEEDBACK: Inaccessible file
    Distribution: FEEDBACK, mattiuz
    Received at: 2-APR-74 18:07:31   5er

    Inez, I cannot finf "LEGAL2" in your directory. Was that the
    correct file name? Jim   (re: 2apr1341)   5er1

  2-APR-74 1805-PDT FEEDBACK: Unvoluntary delete (bair2apr1524)
    Distribution: FEEDBACK, kennedy, oper
    Received at: 2-APR-74 18:05:46   5es

    Ed, We have no way of finding out what happened unless you send
    us (feedback) a copy of the entire activity at the terminal
    that logon session. We have never had that problem before, and
    although that may sound like a cop out, its more relevant here
    because we must see the problem happen to understand wha it
    is...be able to duplicate it. We certainly do not want
    anyone's files deleted against their will. My only guess is

that you accidentally hit the del, or the file was not read for 21 day
and was archived. If any files DO disappear, let us know and
we can restore it from tape dump. Ciao, Jim   5es1

2-APR-74 1756-PDT FEEDBACK: Error msg on EL (30mar1614)
    Distribution: FEEDBACK, stone
    Received at: 2-APR-74 17:56:44   5et

    Stoney, Thanks very much for the laboriously copied error msg.
    Our programmers know what happened from reading that (nothing
    that would ill affect you) but there's nothing they can do
    about it. It is a randow error, pdobably hardware, that is
    very infreqüent, so much so that they cant duplicate it,
    Incidentally, they said all they needed were the first 2 lines
    of the error msg, above the "unassigned JFN". Thanks agin,
    keep that feedback coming. Regards, Jim   5et1

30-MAR-74 1614-PDT STONE(DLS) at OFFICE-1: Got the following
mess when using Execute Logout
    Distribution: FEED(FEEDBACK)
    Received at: 30-MAR-74 16:14:14   5eu

    ILLEGAL INSTRUCTION JSYS 56=   104000,,56   5eu1

        AT LOGOUT+33= 262426   5eu1a

    Unassigned JFN   5eu2

        R1/ R6,,R0=   6,,0   5eu2a

        R2/ SETZ GSTACK+63= 400000,,553   5eu2b

        R3/ FAD R0= 140000,,0   5eu2c

        S/ 772217,,GSTACK+217= 772217,,707   5eu2d

        M/ 772204,,GSTACK+204= 772204,,674   5eu2e

30-MAR-74 1456-PDT FEEDBACK: Clayton Greer's request to run
executables
    Distribution: FEEDBACK
    Received at: 30-MAR-74 14:56:10   5ev

    I just set <USING> to a netwheel to enable him to run his
    automatic netnews distribution program. Seems it will save
    resources by doing automatically what must be done manua;lly,
    Bair   5ev1

2-APR-74 1731-PDT FEEDBACK: garbage in file
Distribution: FEEDBACK, illinois
Received at: 2-APR-74 17:31:19   5ew

Steve Bunch, Do you still have the larger than life file? If
so, the best thing is to delete it and use null file to create
a new one, Or it will automatically when you login the next
time, Hope this works,   5ew1

2-APR-74 1722-PDT FEEDBACK: sys msg
Distribution: FEEDBACK, ucla-nmc, jimb
Received at: 2-APR-74 17:22:26   5ex

Dave, I dont follow your comment about the 15 min warning, Is
it stuck or something? Jim Bair   5ex1

2-APR-74 1545-PDT FEEDBACK: "CASSETT" on private
line(21mar1554)
Distribution: FEEDBACK, bedford, mattiuz
Received at: 2-APR-74 15:45:03   5ey

Mike, This is one of those problems its very difficult to find
an answer to, It appears to our people to be the MUX, as you
concluded, The program Cassett is particularly sensitive
because of what these characters mean, and becuase there is
less I/O wait during that run (characters are more closely
packed,
you can look at one thing: the cable configuration on the plug
might be in error such that the line discipline does not map
through the signals correctly, Discipline should be EIA I
believe,
secondly: Its most likely the MUX and can probably be pointed
to as an error for the appropriate hardware people, OK? Jim   5ey1

2-APR-74 1533-PDT FEEDBACK: 110 Buad Port (re 26mar1543)
Distribution: FEEDBACK, bedford, mattiuz
Received at: 2-APR-74 15:33:13   5ez

Mike, Currently there are no 110 baud ports at Office-1, they
are all 300 as per Bells request, I'm not sure how a 110 would
fit in with the multiplexer, but I'll look into if you are
serious about that rate, i,e, can forsee a continueing need
that warrents dedicating one line to that, Jim   5ez1

2-APR-74 1341-PDT MATTIUZ: locked file
Distribution: FEEDBACK, bair
Received at: 2-APR-74 13:41:11   5f0

Feedback to 23 Aug 74

Jim, why does the system not allow me to write on my own file?
"Legal2" is the name,,,,Inez   5f@1

2-APR-74 0916-PDT FERGUSON: Russell's Probs
Distribution: FEEDBACK, norton, norton at ARC, feedback at ARC
Received at: 2-APR-74 09:16:39   5fa

   I logged in today, and russel can get into NLS fine, I
assume
the problem is fixed, Also, he is not in the special group
that
can always login, Is this crrect?? He is in SEISMIC,
If this is all OK, i will assume he is now happy,
me   5fa1

2-APR-74 0830-PDT STONE: TENEX LINKS from Half to Full Duplex
devices
Distribution: FEEDBACK
Received at: 2-APR-74 08:30:53   5fb

When the TENEX link command is used from a full duplex device
to a half duplex device, the link is made, but no data is
transmitted to the half duplex device, If the link is made in
the other direction (from the half to the full duplex device)
everything procedes as usual,,,Any explaination for this? The
TIP command echo none is in force when the half duplex device
is being used, as is the TENEX command half, Is there any
simple way to get around this,,,at least to let the half duplex
devi
 know a link has been made to it?   5fb1

1-APR-74 1803-PDT BAIR at SRI-ARC: Dir "Carolstrom"
Distribution: FEEDBACK, bair, mclinden at OFFICE-1
Received at: 1-APR-74 18:03:56   5fc

Hi, Jim said something about this being misspelled, or perhaps
it was that another dir for a similar name was needed?? Can
you help? Hope things are fine back there in Sunny DC,,,I
really enjoyed my visit, Regards, Jim   5fc1

29-MAR-74 0823-PDT BAIR at SRI-ARC: sndmsg fail
Distribution: FEEDBACK, bair, FERGUSON, HOPPER
Received at: 29-MAR-74 08:23:38   5fd

When sending a msg a couple of mins ago, it said "can't -- mail
system failure," Not too nice,,can we fix? Jim   5fd1

28-MAR-74 2051-PDT BAIR at SRI-ARC: Rothenberg msg approx 2 Mar
to Bair(ARC)

Feedback to 23 Aug 74

        Distribution: FEEDBACK
        Received at: 28-MAR-74 20:51:58   5fe

        Jeff, Good grief, just realized that in all the hustle here
        with a trip back East fro 2 weeks, etc,, thrown in for good
        measure forgot to answer your msg, At least itsnow happening,
        Journal Browse: In TNLS (TTY) you must jump on the link:
        (userguides,arclocator,1:xw) which will , when printed as a
        plex, list a "menu", Use the statement number to select the
        item you are interested in and jump on the link contained in
        that statement, The jump to link command may be included in
        any address field(logical) and would look like this :   A: ,6 "
        CR   or the " may be used alone,
        On your second question, if you're still interested, we can
        back up to versions in most cases if we know th date you
        want,...   Let me know if this info is what you wanted,
        Hope to talk with you again in the not too distant future, Jim
        PS: When you jump on the Journal index link, keep jumping
        until you have what you want,...   5fe1

    28-MAR-74 1025-PDT FEEDBACK: Reverse DEX (27MAR1201)
        Distribution: FEEDBACK, mattiuz
        Received at: 28-MAR-74 10:26:10   5ff

        Inez, There are a lot of variables, but you should be able to
        do th following way:
        Tenex command: COPY FILENAME(sequential file) to TTY: CR CR,
        Note the :, it is necessary, Set the Termiset to record before
        doing this and it should record everything as it is being
        typed out be the Exec, Note tht it should be a sequential
        file, Try it a couple of time to see if it works, Jim   5ff1

    27-MAR-74 1621-PDT FERGUSON at SRI-ARC: Bell dir group
        Distribution: FEEDBACK, bair, feedback, wallace
        Received at: 27-MAR-74 16:23:03   5fg

        Jim,
        I set up all the Bell users that way because that is what
        we had agreed upon, (see <jjournal>22348) If you (or they)
        want it
        changed, we can do so, But that was my understanding of what
        they
        wanted, But as with everything in computers -
        of course we can change it!!
        Ferg   5fg1

    27-MAR-74 1249-PDT FEEDBACK at OFFICE-1: URGENT security prob,
        Distribution: FEEDBACK, wallace at SRI-ARC, ferguson at

Feedback to 23 Aug 74

SRI-ARC, norton at SRI-ARC   5fh
     Received at: 27-MAR-74 12:49:17

     Got a somewhat urgent pron at Office-1 Tenex level, Copy to
     Wallace in hopes that he can act today without having to wait
     for Ferg who is out until tomorrow: Bell Canada has no
     prtection on their files or directories at all from each other,
     They can connect to anyone without the password and can simply
     load anyones file and write on it, Dont know how far the
     problem goes beyond that (its not true for me) but its kinda
     dangerous the way Bell operates, I tryed it as one of them
     (Bedford) an
     found it to be true, Please let me know as soon as you come
     with anything, or if you dont have time Smokes, Thanks, Jim   5fh1

27-MAR-74 1247-PDT OPER: MORE DISK
     Distribution: FEEDBACK, NORTON, MARTINEZ
     Received at: 27-MAR-74 12:47:16   5fi

     AS PER YOUR REQUESTS USER DAY NOW HAS 500 PAGES ALLOCATED;
     USER LIUZZI NOW HAS 400 PAGES ALLOCATED,
     THANX
     BOBM
     TYM-OFFICE-1   5fi1

27-MAR-74 1243-PDT FEEDBACK: Secuirty breach, your msg
(26MAR1547&26MAR1600)
     Distribution: FEEDBACK, bedford
     Received at: 27-MAR-74 12:43:06   5fj

     Mike, Problem is real,..working on it with utmost urgency,
     Thanks for telling us before it became a problem, JHB   5fj1

27-MAR-74 1224-PDT FEEDBACK: 400pp of disc
     Distribution: FEEDBACK, stone, liuzzi
     Received at: 27-MAR-74 12:24:21   5fk

     Done   5fk1

27-MAR-74 1222-PDT FEEDBACK: Stone request to increase Disc pp
     Distribution: FEEDBACK, oper, norton
     Received at: 27-MAR-74 12:22:43   5fl

     BOBM: If you did not get go ahead frrom Jim, then go ahead and
     increase Liuzzi to 400 and let feedback know when done so I can
     notify them, Thanks for offering to do it, saves me the
     trouble, Jim Bair,   5fl1

27-MAR-74 1205-PDT FEEDBACK: Slow system -- Bedford Bitch

Distribution: FEEDBACK, bedford, mattiuz, day, norton
Received at: 27-MAR-74 12:05:48   5fm

Mike: We realize that the system is somewhat slow. I don't
think we were aware of the impact on users and thus really
appreciate your msg (21MAR 0636). We are in the process of
getting more memory, although we can not be absolutely sure
that will solve the problem. The lead time on drum is
incredible (6mos or more) so that is why we are trying the
memory route. A rough guess would be within a month or two...
Tymshare has to acquire the hardware and we have to acquire the
money. In the m
ntime, please be patient, it was extremely difficult to
anticipate the responsiveness of the new hardware configuration,
and we are now working on rectifying the situation. (Jim Bair)   5fm1

27-MAR-74 1201-PDT MATTIUZ: dex
    Distribution: FEEDBACK, bair, mattiuz
    Received at: 27-MAR-74 12:01:16   5fn

    Jim, is there a way to get something out of the system onto a
    tape? the reverse to the dex process?,....,Inez   5fn1

27-MAR-74 1138-PDT ILLINOIS: 12 PAGE INITIAL FILE
    Distribution: FEEDBACK
    Received at: 27-MAR-74 11:38:59   5fo

    JIM,   5fo1

    JUST DID THE D P 1 AND UPDATE. HAD HELD OFF FOR FEAR OF
    DESTROYING USEFUL EVIDENCE. NEEDN'T HAVE WORRIED - THE
    INITIAL FILE IS STILL 12 PAGES LONG. I'M NOT REALLY
    CONCERNED ABOUT THIS PROBLEM, I JUST FOUND IT INTERESTING.
    IF THIS IS AN OLD PROBLEM THAT YOU'RE AWARE OF, I'LL
    JUST LET IT DROP. CHEERS,
    STEVE BUNCH   5fo2

27-MAR-74 1138-PDT FEEDBACK: Arcive solution (19MAR2010)
    Distribution: FEEDBACK, martinez, FERGUSON, jimb
    Received at: 27-MAR-74 11:38:52   5fp

    Bob: Thanks for checking into that, arciving becomes real
    important to clients when they are approaching the upper limit
    on disc space. Let know of any further feedback. Jim Bair   5fp1

27-MAR-74 1114-PDT FEEDBACK: Line noise
    Distribution: FEEDBACK, mattiuz, day, bedford
    Received at: 27-MAR-74 11:14:36   5fq

Feedback to 23 Aug 74

    Is line noise still a problem, particularly since you have some
    sort of dedicated line? We have been working on some software
    solution to the problem, but have not found anything
    satisfactory yet,   5fq1

27-MAR-74 1111-PDT FEEDBACK: Line noise
    Distribution: FEEDBACK, wallace at SRI-ARC, irby at SRI-ARC,
ferguson
    Received at: 27-MAR-74 11:11:43   5fr

    Line noise is a continuing problem particularly for the Bell
    Canada people, It is most frequently is interpreted as a CD,
    killing text insertion and other processes where one must start
    over, Question: what can be done here? Could the system be
    changed to have a different bit configuration for CD or could
    we at least require 2 for execution? Thanks, Jim   5fr1

27-MAR-74 1105-PDT FEEDBACK: Follow-up
    Distribution: FEEDBACK, mattiuz
    Received at: 27-MAR-74 11:05:37   5fs

    Hi, Been away for awhile so this will be the first of a bunch
    of msgs that will hopefully answer the tons of feedback coming
    in from you all, 2 questions: Does Penny still get asked for
    her ident?
    Hane you gotten DEX under control and did you get the manuals?
    The DEX stuff is pretty straightforward, so I don't imagine you
    are having much trouble, Penny should also be getting Journal
    mail now,
       Online linked training is still of questionable value, but if
    you want to do it I will be glad to, The problem here is that
    we do not have TNLS terminals in a room that has a
    headset,,,the Bell conference mode was not too good for
    dialogue,   Be talking to you, Jim
    (re: 1MAR0835)   5fs1

26-MAR-74 1600-PDT BEDFORD: HELP HELP HELP ! Everything in our
directories is wideopen to the group !
    Distribution: FEEDBACK, mattiuz
    Received at: 26-MAR-74 16:00:57   5ft

    Since the last message, I've discovered that I can go into
    anyone's files in this group and insert or delete statements at
    will,
    This is further than we're willing to go toward the idea of a
    community of knowledge workers, although the idea is
    intriguing, What was the problem ? When can you close us back
    up,   5ft1

Feedback to 23 Aug 74

26-MAR-74 1547-PDT BEDFORD: CONNECT command at the Exec level
;   Security ?
     Distribution: FEEDBACK, mattiuz
     Received at: 26-MAR-74 15:47:21   5fu

     It seems that at one time it was necessary to give the user's
     password in order to CONNECT to his directory. This appears to
     no longer be necessary. Does this open the door to any
     security problems that you are aware of ?   5fu1

26-MAR-74 1543-PDT BEDFORD: possiblity of running TNLS from a 10
c,p,s, machine ?
     Distribution: FEEDBACK
     Received at: 26-MAR-74 15:43:18   5fv

     If the only thing we can get close to at times is a TWX machine
     operating at 110 baud, or whatever the speed is,   Is there
     anyway we can get into the system with it, ie, another port
     with a low-speed capability ?   5fv1

25-MAR-74 1016-PDT ILLINOIS: LARGER THAN LIFE NLS FILE
     Distribution: FEEDBACK
     Received at: 25-MAR-74 10:16:12   5fw

     TRIED THE EXECUTE UNLOCK [GOT "THIS FILE IS NOT LOCKED"],
     THEN DID A COPY, THE RESULTING FILE IS THE SAME LENGTH,
     I.E., IT DIDN'T CHANGE ANYTHING, THE NEW COPY IS SRB,NLS;7,
     THE ORIGINAL TRESPASSER IS ;6,
     STEVE BUNCH   5fw1

21-MAR-74 1554-PDT BEDFORD: running the program CASSETT
throughthe multiplexor
     Distribution: FEEDBACK
     Received at: 21-MAR-74 15:54:47   5fx

     Can anyone there figure out why we find it impossible to run
     CASSETT through on the private line, but not when we go over
     the DDD network ?
     The problem is in the system at that end finding too many
     extraneous control characters, It looks as if every 20-30
     characters turns out to be a CNTRL Z or CNTRL C,
     we're not sure it's the MUX yet, but everything points to it,
     Switching from the private line to DDD in the middle of a job
     solves the problem,   5fx1

27-MAR-74 0806-PDT BAIR at SRI-ARC: Message roll by
     Distribution: FEEDBACK, ferguson
     Received at: 27-MAR-74 08:07:55   5fy

Feedback to 23 Aug 74

    One of the problems that came to my attention while back East
    was that login msgs for people user Imlacs at RADC roll by too
    fast,,,dont stop and wait for a CR, They want to kno3w how to
    see them again or have a fix,,, Can yoou fix this? Jim   5fy1

25-MAR-74 0914-PDT BAIR at SRI-ARC: Phone hangup re-send
    Distribution: FEEDBACK, mattiuz at OFFICE-1
    Received at: 25-MAR-74 09:14:36   5fz

    Re-send of message for the record (feedback) and just to make
    sure IMM
    got it,
    18-MAR-74 1343-PDT NORTON: re not hanging up the Phone
    Distribution: BAIR, matiuz at OFFICE-1, norton   Received
    at:
    18-MAR-74 13:43:18
        As I understand it, those incoming lines you have wired to
    the
        multiplexer are your dedicated lines, I don't think it will
    matter
        if you don't hang up,,,,try it and we'll se, Jim Norton   5fz1

    Jim Bair   5fz2

25-MAR-74 0900-PDT BAIR at SRI-ARC: Partial Copy Prob
    Distribution: FEEDBACK, illinois at OFFICE-1, jimb at OFFICE-1
    Received at: 25-MAR-74 08:59:58   5g0

    To SRB: You can (should) do an Execute Unlock to eliminate PC
    flags, etc,, then try , at Exec, COPy (file) to SAMENAME
    [newversion] CR [confirm] CR, If this doesnt give you a clean
    file, try delting plex 1 and Updating, Please let me know if
    this does or doesnt work, (feedback@office-1),   5g01

22-MAR-74 1125-PDT OPER: DSK ALLOCATION
    Distribution: FEEDBACK, NORTON
    Received at: 22-MAR-74 11:25:55   5ga

    WHEN USERS REQUEST THAT THEIR DISK ALLOCATION BE ALTERED I WILL
    WAIT ON YOUR AUTHORIZATION BEFORE HONORING THE REQUEST, THIS
    IN PARTICULAR REFERENCES A REQ, FROM STON TO INCREASE ALLOC,
    FOR
    LIUZZI,
    THANX
    BOBM   5ga1

22-MAR-74 1045-PDT STONE: Pages for Directory <LIUZZI>
    Distribution: FEEDBACK, oper
    Received at: 22-MAR-74 10:45:28   5gb

would you please increse the directory <LIUZZI> to 400 pages,
Ray is working on a project (WWMCCS) that requires him to keep
a number of large files resident in his working directory,
Thanks, Stoney   5gb1

21-MAR-74 0636-PDT BEDFORD: bitch bitch bitch bitch | Load
average too high and response time too slow
        Distribution: FEEDBACK, mattiuz
        Received at: 21-MAR-74 06:36:45   5gc

        I just waited over a minute (72 seconds) for the NLS herald,
        How is your progress going with respect to getting more disc or
        drum memory ?
        Load Avg, is now8,57, down from over 12, a few minutes ago,
        This is hard to take,   5gc1

20-MAR-74 1317-PDT MATTIUZ: new nls
        Distribution: FEEDBACK, bair, mattiuz
        Received at: 20-MAR-74 13:17:05   5gd

        Jim, any idea when the new version of nls will be avaible to
        us?,,Inez   5gd1

20-MAR-74 0650-PDT BEDFORD: Bell Canada now into TNLS at 1200
baud,
        Distribution: FEEDBACK, pollack, norton
        Received at: 20-MAR-74 06:50:21   5ge

        Everything appears to be working normally, Despite the fact
        that the load average is a little high right now (slowing
        response time), the improvement over 300 baud is staggering, (i
        realize that for you folks used to 9600 we are still trudging
        along slowly, but we're quite content, nevertheless),   5ge1

19-MAR-74 2010-PDT MARTINEZ: ARCHIVE SOLUTION
        Distribution: FEEDBACK, BAIR, HOPPER, FERGUSON, JIMB
        Received at: 19-MAR-74 20:10:05   5gf

        IT IS CORRECT THAT ARCHIVING PROBLEMS IN THE PAST HAVE OCCURRED
        AS A RESULT OF IMPROPER ROTATION ON ARCHIVE TAPES; THE CODE
        WILL NOT ARCHIVE THE SAME FILE ON A SINGLE TAPE TWICE; OPERS
        WHO HAVE BEEN FILLING IN FOR ME WHILE I ATTEND CLASS WERE NOT
        AWARE
        OF THE PROPER ROTATIONAL ALGORITHM,,,,,THEY ARE NOW AND THE
        PROBLEM
        IF IT IS TYMSHARE'S SHOULD BE CORRECTED NOW,
        BOBM
        TYM/O-1   5gf1

30-JAN-74 1203-PST BAIR: Feedback on Userguides and user-progs
     cc: cavano, stone, bair
     Received 30-JAN-74 12:03:44   5gg

     you should now be able to use all the user programs and the
     journal indexes under Userguides (the userguides as well)
     Thanks for your request,con   5gg1

30-JAN-74 0701-PST STONE: Links to Journal catalogues
     cc: bair, bair at SRI-ARC
     Received 30-JAN-74 07:01:32   5gh

     I need updated links to author and titleword indicies, It is
     also possible that these indicies are archived, If so, I think
     they should be put in a do not archive status, If you can get
     them to me, I will see that they are entered in everyones
     initials files here at RADC,....Indicies for ARC and RADC are
     both needed,   5gh1

29-JAN-74 0934-PST BAIR: Journal achives
     cc: cavano, bair, stone
     Received 29-JAN-74 09:34:51   5gi

     Joe: The Journal archives are now online at Office-1 so that
     you may interrrogate them, (They were not as of your msg
     25Jan), JHB   5gi1

29-JAN-74 0608-PST CAVANO: userguides,user-progs
     Received 29-JAN-74 06:08:05   5gj

     These directories are set up in Office-1 but with the exception
     of inmes both are empty, Are they going to be loaded so that
     they will be parallel with the ARC?   5gj1

29-JAN-74 0536-PST STONE: Sendprint Error Message
     Received 29-JAN-74 05:36:58   5gk

     In trying to do a Sendprint to TIP 146 port 4 this morning, I
     received a new error message   LOGIN: NO ROOM in System   Can
     you interpret? The Sendprint subsystem then goes into its try
     again? and try another? routines, with no luck,   5gk1

28-JAN-74 1728-PST FERGUSON: msg file
     Received 28-JAN-74 17:28:01   5gl

     got your mesage on missing msgs, but dont gite undersand, was
     this file on-line are ARC or OFFICE-1? Or even better, you can
     link to me, thanks,,, will dea with it when i understand more
     fully, ferg   5gl1

Feedback to 23 Aug 74

28-FEB-74 0946-PDT BAIR: DEX problems
   cc: norton, mattiuz
   Received 28-FEB-74 09:46:14   5gm

   I note that you have a Primer, but still do not know if you
   have a manual,   In order to deal with the backspaceing
   problem, we need to look at a file that has been loaded
   intoTenex from a DEX tape, ie, a sequential file, Please let
   me know where one is, Jim   5gm1

22-FEB-74 1156-PST BAIR: Getting reports again that the Journal
is funny: No delivery within 4 days, reported on 21 Feb, We've
got to make the thing more dependable,,,DAVE, would you please
shake it up? Thanks,
   cc: hopper, hopper at SRI-ARC
   Received 22-FEB-74 11:56:39   5gn

22-FEB-74 1145-PST BAIR: RADC Idents and Mouse
   cc: stone
   Received 22-FEB-74 11:45:11   5go

   1 Yes, we got the mouse and diagram, thanks, Hardware guys are
   now
   working on it -- making mods as per diagram and our new specs,
   If the
   one you have now continues to work, it will all have been worth
   it!
   2 I didnt have any problem using identtsystem to print out
   RADC-TIP
   membership, but could be something funny about user
   definitions, Were
   you spelling out -TIP as well as RADC? At any rate, here is
   the
   currenttcontents of the master ident file for RADC-TIP:
   3 (RADC-TIP) ExpandOrganization
   ACD ARB LML AAC RJC DRR2 DLD2 RHT2 FJT MAW EJK RAL JWJ DVA DFB
   WPB FSL
   WER RFI FPS TJB2 RED2 DAL RBP JLM JPC DLS MDP JRS RKW TFL ;
   Rome Air Development Center (IS)
   DLS
   Griffiss Air Force Base
   New York, 13441   5go1

   Delivery: Online;
   Sub-Collection: RADC;
   Type: Tip;
   MembershipPrevious: ARB LML AAC RJC DRR2 DLD2 RHT2 FJT MAW EJK
   RAL JWJ
   DVA DFB WPB FSL WER RFI FPS TJB2 RED2 DAL RBP JLM JPC DLS MDP

Feedback to 23 Aug 74

        JRS RKW
        TFL ;
        Groups: TIPG RADC NICLR;   5go2

    21-FEB-74 1220-PST NSRDC: ARCHIVING FILES: BUG?
        Received 21-FEB-74 12:20:04   5gp

        OVER A WEEK AGO I PUT A FILE ON THE ARCHIVE LIST VIA THE
        ARCHIVE COMMAND, IT STILL HAS NOT BEEN ARCHIVED ALTHOUGH A
        CHECK THROUGH THE STATUS SUBCOMMAND INDICATES IT IS STILL ON
        THE ARCHIVE PENDING LIST AND THE OPERATOR TELLS ME THAT
        ARCHIVAL HAS OCCURED SEVERAL TIMES AND THAT HE CHECKED THE
        PENDING FILES TO BE ARCHIVED AND THAT MY FILE WAS NOT LISTED ON
        HIS LIST, THE OPERATOR SAID TO TELL ALL TO FEEDBACK (IS THAT
        YOU BAIR?) ROBERT LIEBERMAN (NSRDC)   5gp1

    21-FEB-74 1004-PST STONE: Journal delivery
        cc: bair
        Received 21-FEB-74 10:04:07   5gq

        The Journal hasn't delivered anything for the past 4 days,
        this causes a lot of confusion, double sending etc, can you
        jog it loose?   5gq1

    20-FEB-74 1846-PST FERGUSON: <hoyle>
        cc: bair at NIC
        Received 20-FEB-74 18:46:17   5gr

        Have created the directory, Password is KSH,   5gr1

    16-FEB-74 1455-PDT BAIR at SRI-ARC: Idents
        cc: mattiuz at OFFICE-1, bair
        Received 16-FEB-74 14:56:51   5gs

        The idents are KSH and DDAY respectively, De nada, Jim   5gs1

    15-FEB-74 1549-PST FEEDBACK: Link stacks
        cc: Bedford
        Received 15-FEB-74 15:49:10   5gt

        Link stacks are funny and will be changed in the new system,
        But see if this helps: The file in the top of the link stack
        is the one you're in, A Return (&) takes you to the one on the
        bottom of teh stack, The stack is built as you load files (or
        link to them) in one NLS session, not necessarily as move into
        them once they have been loaded, Use Execute Status Link
        stack, Comprende?   5gt1

    15-FEB-74 1515-PST BAIR: Sub

        cc: kennedy
        Received 15-FEB-74 15:15:56   5gu

        Sorry about that,,it certainly wasnt a unnilateral decision and
        I agree with you about the new on ebeing better, Many people
        on the Network complained however, Too bad we cant offer
        both,,,   5gu1

    15-FEB-74 1513-PST BAIR: Idents
        cc: mattiuz, bair at SRI-ARC
        Received 15-FEB-74 15:13:41   5gv

        Will do the Idents, but are you sure that's all you want? You
        dont't mean directories do you? Ciao, Jim   5gv1

    15-FEB-74 1118-PST FERGUSON: acct, no,
        cc: beck
        Received 15-FEB-74 11:18:55   5gw

          jeanne,
        the EXEC gives you your acct, no, automatically, for programs
        that
        require it, it (as is all of ARC is 30), If you ever forget,
        simply
        read the line that is printed when you log out, it contains
        your
        acct, no,
          P,S, You should actually send all your questions to
        <feedback>,
        we are trying to handle alll problems thru that,
          Take care,,,
        ferg   5gw1

    14-FEB-74 1031-PDT BAIR: Mice
        cc: hardy at OFFICE-1
        Received 14-FEB-74 10:31:23   5gx

        The following msg was received from Stone:
        14-FEB-74 05:36:00,745

        Date: 14-FEB-74 0535-PDT
        From: STONE
        Re: mouse
        - - - -
        I am using the mouse you sent,,,have ben for about 3 days now,
        It seems to be holding up, John Hayden had to make quite a few
        mods to the one you sent us, to make it compatable with the
        IMLAC's we have, The plug you sent was a male,,,o is the one
        on the IMLAC, Also made some internal changes and ran two

extra wires from mouse to plug, I have sent one of ours back,
along with circuit diagrams that John drew up, If there any
questions, it would probably be best if Martin and John talked
di
ctly, I can't give you his phone number, so it would probably
be best if you called me, or we called you on the Enterprise
line, Thanks again for your help
Stony   5gx1

It seems self explanatory, Please keep me posted, Jim   5gx2

14-FEB-74 0934-PDT   BAIR at SRI-ARC: Index program
   cc: stone at OFFICE-1
   Received 14-FEB-74 11:09:48   5gy

It should be fixed now, Thanks for your msg,   5gy1

13-FEB-74 1324-PST   MATTIUZ: noise on the line
   Received 13-FEB-74 13:24:58   5gz

Three times while working one day, there was noise on the line
and the system program hit the control x command and everything
I was doing was lost, Is it possible for the program to read
2control x's instead of one, It isn't likely to hit twice,   5gz1

12-FEB-74 1654-PST   FERGUSON: misc,
   cc: MEYER, WALTERS
   Received 12-FEB-74 16:54:17   5he

   Dean,
   The ident for <WALTERS> is set-up, It's grunt!! is that
really
true? If not really grunt, please sndmsg,
   Also, you have been moved to the ENERGY group for login group
allocation stuff,
   Hope you're enjoyinv Wasington,
   Ferg   5he1

12-FEB-74 1624-PDT   FERGUSON at SRI-ARC: Trouble Logging Out
   cc: norsar-tip at OFFICE-1
   Received 12-FEB-74 16:26:34   5ha

   This is to DAG (Rieber-Mohn):
   When you get the message "NOT LEGAL IN INFERIOR EXEC" after
trying
to logout, this means that you are really in an inferior exec,
you
probably logged in (at the superior exec),ran NLS, and then
said

Feedback to 23 Aug 74

"Goto Exec". This new exec you see (called an inferior) has a subset
of the superior exec commands available. Specifically, you cannot
logout from this place, as there is still an NLS and EXEC above you.
You simply QUIT your way back up to the SUPERIOR exec, and then logout.
   If this message does not really answer your questions, either sndmsg
again or link to me.
Ferg   5ha1

12-FEB-74 1619-PDT FERGUSON at SRI-ARC; <rel-nls>xnls
   cc: nsa at OFFICE-1
   Received 12-FEB-74 16:21;22   5hb

   To Jess Hill,
   We have not yet finished our work on XNLS. At the moment we are only
   having ARC programmers and users working with that program, as there
   are many known bugs and problems. We have avoided releasing it to all
   users, as they may inadvertently do bad things to their files in the
   course of finding a bug. So until we successfully finish and release
   XNLS, we would like you to continue using standard NLS,
   Ferg   5hb1

12-FEB-74 1616-PDT FERGUSON at SRI-ARC; <jernigan>liz2.sav
   cc: JERNIGAN, nsa at OFFICE-1, norsar-tip at OFFICE-1
   Received 12-FEB-74 16:18:03   5hc

   This message is to:
   1) Mil Jernigan
   2) Jess Hill of NSA
   3) Yngvar Lundh of NORSAR-TIP   5hc1

   As you have found, no NETUSER can access a program by typing
   @<DIR-NAME>FILE-NAME<CR>
   You only have access to programs in dir <NETSYS>. We have done
   this in an attempt to keep the Office-1 machine dedicated to NLS,
   and provide the best possible system load for good NLS response. So
   we have made an effort to prevent other programs from being

Feedback to 23 Aug 74

run,
However, there are some other programs which are very useful to
the
average user. We have therefore included <jernigan>liz2 in the
<netsys> repetoire. You can now use it, If there are any
other
programs you are accustomed to, and wish to have included in
<netsys>
please sndmsg to <feedback> or <bair>.
   Ferg   5hc2

12-FEB-74 1543-PST FERGUSON: c.c. of sndmsg to usc
    Received 12-FEB-74 15:43:53   5hd

     This is directed to Jim Pepin: 5hd1

     Jim - I have no explanation for why you can't get to Office-1
     from the USC-TIP, but you can from others. Once a TiP is
     running,
     the NETWRK should automatically know of its existence, I
     suggest you
     speak to the Netowrk Control Center at BBN (phone
     (617)661-0100).
     They should be able to handle your problem.
        If you need any more help, don't hesitate to SNDMSG,
     Ferg   5hd2

11-FEB-74 1339-PST STONE: User Program "INDEX"
    cc: bair, ferguson
    Received 11-FEB-74 13:39:41   5he

     The user program, INDEX, loads OK, but when trying to execute,
     it gives the message,,File not on line,,,If Archived, use
     EXEC's INTERROGATE,,,,Whats up? It generates the heading at
     the taile of Plex 1
     Index for Plex at 1,,,,but doesn't seem to be able to actually
     generate the index,   5he1

1-MAR-74 0835-PDT MATTIUZ: dex
    cc: MATTIUZ
    Received 1-MAR-74 08:35:44   5hf

     Jim, I do not have a manual on Dex,,,,the file where you can
     see my problemis TEST1,NLS;1,   When Penny logs in the system,
     it still askes for her ident, should It? It did say however
     that she had no journal mail and Is it fixed? I can't tell, I
     won't be able to setup anything for the online training till
     late next week as I'm working onanother project and should be

finished by then, O.K,? Till then,,,,Inez
z   5hf1

  1-FEB-74 0950-PDT BAIR at SRI-ARC; ESCAPE CHARACTER FOR TELNET
  cc: STONE at OFFICE-1
  Received 1-FEB-74 09:48:37   5hg

  YES, IT HAS TO BE A CONTROL CHARACTER, (WOULD YOU PLEASE SEND
  THESE AND ALL OTHER REQUESTS TO FEEDBACK SO THAT WE CAN NOT
  DUPLICATE EFFORT HERE AND HAVE A RECORD OF THE KIND OF
  PROBLEMS/QUESTIONS YOU ARE HAVING,,,IT WOULD HELP, THANKS),   5hg1

19-MAR-74 1947-PDT FEEDBACK: Sendprint
  cc: mattiuz
  Received at 19-MAR-74 19:47:41   5hh

  Inez, Not sure what you're trying to do but I assume that its
  see the product before actually doing a whole file, ie, one or
  twopp up to the halt you mentioned, In orde to see parts of a
  document more easily use Output Device Teletype, and watch it
  scrol by on yourr screen,   Othewise, do you have anymore
  specific questions? its a bearr to use but will become easie
  someday with a new system, See the Tenex userguide for details
  if you aren't sure how to use it (I figured that you already ar
  or you wouldn't have asked about the halt,)   Jim   5hh1

19-MAR-74 1940-PDT FEEDBACK: Arcive problem
  cc: oper, FERGUSON, HOPPER, jimb, MARTINEZ
  Received at 19-MAR-74 19:40:33   5hi

  Not sure who should lookinto this but getting reports that
  files are not being archive within days of the command usage,
  Guess this should be handled by Tymshare? Jim Bair   5hi1

19-MAR-74 1938-PDT FEEDBACK: Archive
  cc: cavano
  Received at 19-MAR-74 19:38:17   5hj

  Joe, it was nice to see you although so briefly,,,good to see
  that youre almost well again, Thanks for your note on archive
  problems, will look into it with programming staff, Jim   5hj1

19-MAR-74 1936-PDT FEEDBACK: Dex tape
  cc: mattiuz
  Received at 19-MAR-74 19:36:02   5hk

  Inez, hi again, The only thing I can suggest is that you try
  it again, maybe evem twice,,,computer things have a way of
  ironning out that way, If it still doesn't work, send us the

        tape so that we can try to figure out what's wrong, Good luck
        on this one, Jim   5hk1

    19-MAR-74 1931-PDT FEEDBACK: Superwatch
    cc: norton, mattiuz
    Received at 19-MAR-74 19:31:37   5h1

        Inez, Hi frrom Wash,DC, Neat that the system enables me to
        keep up with the communications from afar,,,, Anyway, your
        name has to be entered into a file that permits the software to
        run for you, Jim is working on it with Ferg (our Tenex
        programmer) and they'll let you know when it's OK to use,
        Jim B   5h11

    19-MAR-74 1415-PDT MATTIUZ: dex
    cc: bair, mattiuz
    Received at 19-MAR-74 14:15:33   5hm

        HELP! I am having problems today, after giving all the
        necessary commands to convert the tape to an nls file, the tape
        start to read the data and then it is as if the system is
        reading all kinds of Ctrl z's because only junk starts
        appearing on the screen,,I have looked at the tapes locally and
        there are no terminators on at the beginning og the tape,   Do
        you have any suggestions as to what he problem might be, This
        is happening on more than one tape,, the other tpes i have been
        converting
        ve all been alright,,,,Thanks Inez   5hm1

    19-MAR-74 0853-PDT MATTIUZ: superwatch
    cc: bair
    Received at 19-MAR-74 08:53:09   5hn

        Jim, Norton mentioned when he was visiting us the other day,
        that it would be ok for me to usee the superwatch program to
        get some info on ourselves,however,I still cannot access it as
        it is still defined for ARPA users only,,,Could you check this
        out for me? ,,,,Thanks Inez   5hn1

    19-MAR-74 0852-PDT CAVANO: archive
    cc: bair
    Received at 19-MAR-74 08:52:03   5ho

        I archived some file yesterday that weren't archived, This
        problem has occurred before as well, Just thought you would
        like to know,,Joe   5ho1

    19-MAR-74 0851-PDT VU: Stupid Question,,,,Stupid Mistake

        cc: bair
        Received at 19-MAR-74 08:51:25   5hp

        JIM,
        Sorry my first question had to be such a dumb one, You were
        right
        about that minus sign, It should have been = instead, I just
        didn't
        see it when I was checking my directives,
        Thanks again,,,,,,, mary vu   5hp1

    19-MAR-74 0744-PDT FEEDBACK: Copy of "Postel's Jourrnal Problem"
        cc: mitre-tip, bair at SRI-ARC
        Received at 19-MAR-74 07:44:30   5hq

        Jo, The problem you had was notwith teh Journal per se but with
        Tenex's handling of the partial copy you had to create
        (automatically) to send a Journal item, If you note your dir
        you will see a JWORKYOURIDENT file that is set up temporarily
        to hold the Journal submission for future processing, This is
        the file that most likely was in trouble, Delete it and its
        partial copy if it is still there, and retry the Journal,
        Retry even if it is not there, This is one of those randon
        erorr things
        hope you have had your quota,,,,good luck, Jim Bair   5hq1

        (second ty9   5hq2

    18-MAR-74 1456-PDT BAIR: Output processor page problem
        cc: vu, mattiuz, hoyle
        Received at 18-MAR-74 14:56:22   5hr

        Mary: There apppears to be a directive :"RM-69; which will try
        to set the margin to a - minus) 65, Let me know if that solves
        the problem, ,,,,yer welcome, Jim   5hr1

    18-MAR-74 1320-PDT HOYLE: Output Processor Problems
        cc: bair, mattiuz, vu
        Received at 18-MAR-74 13:20:30   5hs

        Jim,
        weird things are happening when I use the output processor to
        print out one particular item, The whole thing is printed
        vertically on the page! None of us here can figure it out,
        Inez referred me to you, I was hoping you could take a look at
        it when you have a minute, USER IDENT: Hoyle FILE NAME:
        Notes
        ADDRESS: ,2a   5hs1

The output processor works great with the rest of the file,
Is there anything wrong with the directives I used? Can't see
anything
else wrong with the file, Would appreciate your help,   5hs2

Thanks Jim,,,,,,,,,, Mary Vu   5hs3

15-MAR-74 1351-PDT BAIR: sequence generator
    cc: bedford
Received at 15-MAR-74 13:51:48   5ht

Mike: See the 1 -10 Programming User Guide branches 4a2 and
4a5 for starters (online jump on link to --
userguides,l10-guide,4a2:m),
Also, would you please use FEEDBACK for questions? I'm trying
to not have to log in too many places to receive msgs, Jim   5ht1

15-MAR-74 1154-PDT OPER: NEW MONITOR VERSION AT O-1
        marrah, martinez, jimb
Received at 15-MAR-74 11:54:01   5hu

15-MAR-74 1145-PDT BAIR: ident problem
    cc: laforge, stone, kennedy, keeney at SRI-ARC
Received at 15-MAR-74 11:45:27   5hv

zd Laforge at RADC is not receiving journal mail addressed to
his group, A check of RADC-TIP shows he's not there,,,this is
probably the problem; don't have any idea have his ident(ELF)
got dropped,
Question: what is the difference between RADC and RADC-TIP?
Thanks for your help, Jim   5hv1

14-MAR-74 1521-PDT OPER: NEW MONITOR VERSION
        marrah, martinez, jimb
Received at 14-MAR-74 15:21:42   5hw

13-MAR-74 1118-PDT BEDFORD: problems wth ports at that end ?
Received at 13-MAR-74 11:18:43   5hx

what does it mean if we don't get an answer from the ports at
your end, even when we come in over the DDD network, I think
that a bsy signal means that there are no ports avaailable, but
what about no answer at all (current load avg, is abt 5,6,,,,19
users)   5hx1

11-MAR-74 1109-PDT LAFORGE: radc list of users
Received at 11-MAR-74 11:09:29   5hy

i sent a message to oper a couple of weeks ago that iseemed to

have dropped out of the radc directory as iwasn't getting the
general type messages, i got no feedback from oper, feedback,
maybe ican get some operation from you!,   5hy1

11-MAR-74 0657-PDT BEDFORD: resend of HELP cry; how can I unlock
my initial file ?
      cc: mattiuz
      Received at 11-MAR-74 06:57:10   5hz

I cant make any changes in my initial file (bedford,mike,)
because it says the file is locked by MIKE, Execute Unlock and
Update don't work; messages indicate it isnt locked ad that no
chages have been made, respectvely,
The dir dshows a partial copy,   5hz1

9-MAR-74 1059-PDT BEDFORD: Cannot get into PC of my initial
file
      Received at 9-MAR-74 11:00:00   510

I'm unable to make any changes to the file <bedford>mike,nls;8
There appears to be a partial copy, but I can't work in it,
When I try to make changes in (bedford,mike,), I get a mesage
that the file is locked by (MIKE), If I try to update it,
it says there have been no changes; If I try Execute Unlock, it
says that the file isn't locked,
Help,
I've tried logging ot and logging back in wth no better luck,   5101

7-MAR-74 1632-PDT UCLA-NMC: running executables
      cc: bair
      Received at 7-MAR-74 16:32:25   51a

I mean regular ol' executable files (,SAV), We have some that
we need
to process and transmit files to CCN's document printer, The
programs are in our directory (currently only CCNJOB,SAV),
Dave,   51a1

7-MAR-74 1552-PDT FEEDBACK: Additional Disc PP,
      cc: stone, carrier, ferguson, oper
      Received at 7-MAR-74 15:52:36   51b

<stone> and <carrier> now have 500pp each,
Please address all requests for additional resources to
<feedback> or Journal FEED,   51b1

7-MAR-74 1548-PDT FEEDBACK: New Dir and group protect
      cc: mattiuz
      Received at 7-MAR-74 15:48:43   51c

New dir, established for <vu> password MHV, ident pending
(probably will be able to log on by Mon,) 250pp,
We are still working on file protection by group,,,system
programmers have been very busy, so hope it will happen this
week, Sorry for the delay,,   Journal protection is a separate
thing and we currently dont know when that will be done,
Instructions will be sent out when it is,   5ic1

7-MAR-74 0955-PDT MATTIUZ: group ident
cc: bair, mattiuz
Received at 7-MAR-74 09:55:10   5id

Could you let me know when are files will be recognized, or I
should say , when will we be recognized as a group in order for
us to access certain certain files?   5id1

7-MAR-74 0953-PDT MATTIUZ: new directory
cc: bair, mattiuz
Received at 7-MAR-74 09:53:03   5ie

Jim, we need a new directory for Mr, Hoylw's\\\e's
secretary,Info required is as follows:
Mrs, Mary H,Vu
Bell Canada
620 Belmont, Room 1105
Montreal, Quebec
H3C 3G4
Tel, 514-870-3540   5ie1

6-MAR-74 1033-PDT BAIR at SRI-ARC: Control o in Telnet
cc: JERNIGAN, bair, using at OFFICE-1
Received at 6-MAR-74 10:32:53   5if

Response to "o not working: Telnet intercepts "o as a special
command character, To "O you have to set to "clear, output
,character" to something else, like "y, Telnet command is:
c[lear,output,character="y CR, OK?   5if1

6-MAR-74 1013-PDT BAIR: readmail
cc: mattiuz
Received at 6-MAR-74 10:13:00   5ig

Inez, Readmail works fine here, maybe it was in a bad mood,
Are you hitting two CRs after th date? eg,: #d[ate] 6-mar-74
cr cr, You have to type out th complete date exactly as I
did,,,belongs to the Network (not really part of NLS) Jim   5ig1

6-MAR-74 0741-PDT MATTIUZ: readmail

Feedback to 23 Aug 74

        cc: bair
        Received at 6-MAR-74 07:41:11   5ih

        readmail feature does not seem to be working, It seems to read
        all messages rather than only the specified date given,   5ih1

    4-MAR-74 1616-PDT HOPPER: Regarding your question of 2-MAR-74
    1644-PDT
        cc: FERGUSON, norton, bair at SRI-ARC
        Received at 4-MAR-74 16:16:18   5ii

        You left off the question mark, The answer is "no",   5ii1

    2-MAR-74 1700-PDT BAIR: File BOOK
        cc: day, mattiuz
        Received at 2-MAR-74 17:00:17   5ij

        BOOK1 is presumed to be the same as BOOK referred to in problem
        msg, Seems you fixed it yourself,,great, (This is in response
        to msg from Inez on 1 MAR,   5ij1

    2-MAR-74 1644-PDT FEEDBACK: Printer Probs at Office-1
        cc: norton, hopper, FERGUSON, bair at SRI-ARC
        Received at 2-MAR-74 16:44:31   5ik

    Dave Hopper: Would you please fix this problem and let me know
    when its solved, Thanks,,,problem:
        1A REG, PRINTER , ON ALL OUTPUTS THAT ARE NOT TXT FILES AND
        IN PARTICULAR ON ALL OUTPUT QUICKPRINT LISTINGS A FILE THAT
        WOULD NORMALLY BE 20 PAGES IS STRETCHED OUT TO 160 PAGES
    WITH
        ONE LINE OF OUTPUT ON MOST PAGES, I HAVE HAD SUCESS WITH
        LOADING THE FILE IN NLS AND DOING AN OUTPUT SEQUENTIAL, BUT
        THE GENERAL EXPERIENCE WE'VE HAD IS THAT NO OTHER OUTPUT
    COMMAND
        WILL PRODUCE SATISFACTORY LISTINGS,
        BOBM
        TYM/OFFICE-1
        P.S, I'D LIKE TO AVOID SHIFTING OUR LISTING LOAD ON TO
    JEFF'S
        SHOULDERS IF POSSIBLE, I'D RATHER FIND OUT HOW WE CAN FIX
        THE PROBLEM HERE,
        BOBM   5ik1

    NOTE! We should all think/meet some policy for the use of the
    printer at Tymshare, I cant see how they can provide this kind
    of service to subscribers? Jim Bair   5ik2

1-MAR-74 0657-PDT OPER: PRINTER OUTPUT
Received 1-MAR-74 06:57:11   511

REG, PRINTER , ON ALL OUTPUTS THAT ARE NOT TXT FILES AND
IN PARTICULAR ON ALL OUTPUT QUICKPRINT LISTINGS A FILE THAT
WOULD NORMALLY BE 20 PAGES IS STRETCHED OUT TO 160 PAGES WITH
ONE LINE OF OUTPUT ON MOST PAGES, I HAVE HAD SUCESS WITH
LOADING THE FILE IN NLS AND DOING AN OUTPUT SEQUENTIAL, BUT
THE GENERAL EXPERIENCE WE'VE HAD IS THAT NO OTHER OUTPUT
COMMAND
WILL PRODUCE SATISFACTORY LISTINGS,
BOBM
TYM/OFFICE=1
P.S. I'D LIKE TO AVOID SHIFTING OUR LISTING LOAD ON TO JEFF'S
SHOULDERS IF POSSIBLE, I'D RATHER FIND OUT HOW WE CAN FIX
THE PROBLEM HERE,
BOBM   5111

1-MAR-74 0932-pDT MATTIUZ: bad file
cc: mattiuz
Received 1-MAR-74 09:32:54   51m

We are having another problem with one of larry day's file,
This one is his "book,nls;1" file,,the protection on it is the
normal one,unlocked, yet the status file verify shows it as
being locked, aloaso, he cannot write in this file, why not? it
is his dirctory,,,,Please look into,,,It really is
weird,,,,,Inez   51m1

DLS 28-FEB-74 11:22 30158
Comparison of RADC User Statistics for two 6 monthe periods
Location; (HJOURNAL, 30158, 1;w)
*****Note: if you have any use for this,,,help yourself*****

                                                                 51n

Comments; For those of you interested in how yyyou compare with
others at RADC in use of NLS, % SYS column really has little
meaning, To find out your weekly averages for any number,
divide the number by 25 (or multiply by 4 and shift the decimal
point 2 places to the left),   51n1

DLS 19-FEB-74 14:39 30130
Potential Use of cOM Output by RADC
Location; (HJOURNAL, 30130, 1;w)

                                                                 51o

Comments; Would appreciate any guidance, help etc, that can be
given,,Thanks,   51o1

Feedback to 23 Aug 74

MIKE 22=FEB=74 09:44   30127
problem in addressin a particular statement by its statement name,
Message; There is a statement named "protect" in my initial file,
located in the plex under statement named "links". I cannot
address this first statement ("protect") by its statement name,
only by its statement no, (11a, as i write this)
Any idea what the problem is ?

                                                                      51p

    ANSWER;   51p1

        Mike; The problem you experienced (re -- ,30127,) with a
        statement name not working within one particular statement
        was due to an inadvertant change of the name delimiters to
        NULL from (and), (Command = Execute Name delimiter
        followed by those you want effective in that statement), I
        have reset them so the name address should work now, Thanks
        for your inquiry,   51p1a

MIKE 22=FEB=74 09:37   30126
NAPKE log=in problems
Message; Penny Napke is not getting on=line journal mail; she is
receiving hard copy through the mail,
Also, wenever she signs on as NAPKE, whe is asked for her IDENT,
Can you help ?

                                                                      51q

MIKE 22=FEB=74 09:30   30125
How do we get that IBM file into NLS ?
Message; further to previous journal message, we are still
interested in getting some IBM files into NLS, and we dont know
what you need in the form of machine readable code to do the job,
I understand that you don't have the conversion facilities
available there , but I also understand (through BobM) that a the
arpanet has such conversion capabilities for IBM users on arpa,
would this help us out ,,,,is we ran it through somebody elses
file on arpa before coming to you ? (assuming we could figure ot
some way of doing that, of course)

                                                                      51r

22=FEB=74 1159=PST BAIR; Resend of Journal msg problem
    cc; hopper, hopper at SRI=ARC
    Received 22=FEB=74 11:59:58   51s

    (sndmsg flaky,,4th try;)
    Getting reports again that the Journal is funny; No delivery
    within 4 days, reported on 21 Feb, We've got to make the thing
    more dependable,,,DAVE, would you please shake it up? Thanks,   51s1

Feedback to 23 Aug 74

22-FEB-74 1337-PST OPER: MONITOR POLICY
   cc: bair at SRI-ARC, norton at SRI-ARC, kudlick at SRI-ARC,
ferguson at SRI-ARC, wallace at SRI-ARC, hopper at SRI-ARC,
marrah, martinez, jimb
   Received 22-FEB-74 13:37:45   5it

   ;<MARTINEZ>MONPOLICY,TXT;3   22-FEB-74 12:03:26   EDIT BY
OPER   5it1

                NEW MONITOR VERSIONS AT OFFICE-1
                --------------------------------   5it2

  THE FOLLOWING SCENARIO IS INTENDED TO DESCRIBE THE MECHANISMS
  AND POLICIES INVOLVED IN NEW MONITOR VERSION BRING UP AT
  OFFICE-1:   5it3

  1) WHEN CHANGES ARE DESIRED THE CHANGES SHALL BE QUEUED IN SUCH
  A
     WAY THAT A NEW RELEASE WILL INCORPORATE AS MANY CHANGES AS
     CAN BE MANAGED AND CONTROLED IN A SINGLE VERSION,   5it4

  2) THESE CHANGES WILL BE TESTED AND DEBUGGED AT THE BEGINNING
     OF THE WEEK DURRING OFF HOURS BY THE PROJECT SYSTEM
  PROGRAMMER,   5it5

  3) A TRANSMITTAL FORM SHALL BE ENTERED INTO A FILE IN DIR,
     <DOCUMENTATION> AND SHALL BE NAMED IN THE FORM
  TENEX,CHANGES;VERSION,
     THIS TEXT FILE SHALL DESCRIBE THE CHANGES PENDING AND SHALL
     BE AVAILABLE BY AT LEAST WEDNSDAY OF THE WEEK WHEN
  INSTALLATION
     IS ANTICIPATED, COPIES WILL BE DELIVERED TO BOB MARTINEZ, ED
     POLLACK AND MIKE MARRAH OF TYMSHARE AND BILL FERGUSON OF
  ARC,   5it6

  4) IN NO CASE (EXCEPT WHERE A BUG EXISTS THAT JEOPARDIZES
  SYSTEM
     OPERATION) WILL A NEW MONITOR BE INSTALLED BEFORE A FRIDAY
  AFTERNOON,
     ON THE NIGHT SHIFT FRIDAY MORNING BEFORE A SCHEDULED MONITOR
     INITIATION A PACKCOPY (DSKDUP) WILL BE TAKEN TO BACKUP THE
  FILE
     SYSTEM, ALSO PRIOR TO SYSTEM TAKEDOWN FRIDAY AFTERNOON AN
     INCREMENTAL DUMP WILL BE TAKEN TO BACKUP FILES CHANGED SINCE
  THE
     PACKCOPY,   5it7

  5) ON THE THURSDAY PRECEDING MONITOR INITIATION NOTIFICATION
  WILL

BE SENT (SNDMSG) TO BOB MARTINEZ, JIM BLUM AND MIKE MARRAH OF
TYMSHARE AND BAIR, NORTON, KUDLICK, FERGUSON, WALLACE, HOPPER AND
FEEDBACK OF ARC, THIS WILL ANNOUNCE THE INITIATION AND INVITE
A THOROUGH WORK OUT OF THE NEW MONITOR UNDER A REAL TIME
ENVIRONMENT,   5it8

6) IN GENERAL, THE NEW MONITOR WILL BE BROUGHT UP FRIDAY
AFTERNOON AND RESULTING DOWNTIME ANNOUNCED IN THE SCHEDULED-DOWNTIME
FILE, DURRING THE WORKOUT, SHOULD THE SYSTEM CRASH ONCE (NOT HARDWARE
CAUSED) IT WILL BE THE POLICY TO REVERT BACK TO THE PREVIOUS
MONITOR VERSION, IN SUCH CASES FIELD TEST MAY RESUME THE FOLLOWING
SATURDAY AT THE DISCRESSION OF BOB MARTINEZ, ED POLLACK, JIM
BLUM, AND MIKE MARRAH AS IT IS DECIDED BY THE MAJORITY OF
THEM,   5it9

7) IF AND ONLY IF THE NEW MONITOR VERSION RUNS SATISFACTORILY ON
BOTH FRIDAY AND SATURDAY WILL IT BE PROVISIONALLY ACCEPTED
AND INSTALLED AS THE RUNNING SYSTEM FOR THE FOLLOWING WEEK,
IF NOT THEN DEBUGGING WILL RESUME AND THE SCENARIO DESCRIBED
ABOVE WILL REOCCUR THE FOLLOWING WEEK,   5it10

23-FEB-74 2014-PDT DAY: Continuing Saga of Foul-ups
     cc: mattiuz, norton, bair, day
     Received 23-FEB-74 20:14:10   5iu

My main file (lhd,nls,4) continues to get worse, Execute Status
File tells me that it is a bad file as we knew, However, the
new file that was created for me,,,SAVELHD,,5 has the same
rating! whatever the bugs in the old one were, they have
continued to live on in the new file, One of the verify
messages indicated that there is an illegal user no in my file
header,,,is this a clue? I tried tocreate a new file out of
pieces of the nls;4 one, the system crashed and i ended up with
a 266 page par
al copy which i have since deleted,(Not bad for a partial
version of a 31 page file!!!!), I need some advice that can
clean this up as i keep having to control c to get out of the
file when it goes "dead", Right now i just sign in and go right
through the nls 4 file to other ones to do anything as i don't
trust that file, Would someone at OFFICE-1 please examine that
file and help clean it up, If there are any questions please
call me at 514-870 3223 (office) or 514-648 7207 (home), I

```
                                                                     would li
  this done quickly (not ASAP!!) since i have been having the
  problem for a week, Thanks.....Larry                                  5iu1

23-FEB-74 2023-PDT  DAY:  P,S, on Foul ups
  cc:   norton, bair, day, mattiuz
  Received 23-FEB-74 20:23:05                                           5iv

  Execute status file on some of my other files(
  messages,letters,phlinks) also indicates that there is an
  illegal user no in my header,....,whatever that means, It
  appears that the problem is more widespread inmy directory than
  i suspected, More reason for concern from my viewpoint,              5iv1

25-FEB-74 1025-PDT  FEEDBACK:  Archive
  Received 25-FEB-74 10:25:31                                          5iw

  1Robert Lieberman:  There were some bugs in the archive system
  software that have now been fixed (as far as we know),  A new
  monitor has been brought up and all should be well now,  Thanks
  for your feedback,  (the Bair alias feedback),                      5iw1

  Copy of msg to Lieberman at NSRDC,                                  5iw2

25-FEB-74 1037-PDT  FEEDBACK:  Net command availability
  cc:   ferguson, ferguson at SRI-ARC, norton, bair at SRI-ARC
  Received 25-FEB-74 10:37:51                                         5ix

  Ferg:  Perhaps I've found a glitch in the new monitor or
  perhaps this is a conscious decision:  RUNFile is not available
  to NET users??  Please change this,,,as far as I can remember
  it has been an advertized feature recently and should continue
  to be available,
  The copy command is also not available to the Net by decision,
  And I think it should be reversed,  There must be some way of
  protecting important files such that the Copy won't jeaprodize
  system security or whatever,
  I have advertized the Archive system fix, and am assuming that
  indeed itt is functioning now,
  The Journal is slow at best,,,  I haven't heard from Hops on
  that, is there anything you can do to ensure next day delivery?
  There is a majot file problem at Bell, something about "illegal
  user number in header" causing a bad file, Let's get together
  on this one,                                                        5ix1

25-FEB-74 1057-PDT  FEEDBACK:  IBM Card to NLS transfer
  cc:   mattiuz, bedford
  Received 25-FEB-74 10:57:27                                         5iy
```

Feedback to 23 Aug 74

Inez: Please enter a description of the disposition of MIKE'S
problem In Journal message (,30109,). The problem was dealt
with on Jim's recent visit there.   5iy1

25-FEB-74 1114-PDT FEEDBACK: Link stack question followup
   cc: mattiuz, bedford
   Received 25-FEB-74 11:14:22   5iz

Mike: was the question answered OK? (re -- Journal,30080,)
If so, we would appreciate a short description of your reaction
to this link stack function, Send to FEED as with the IBM card
transfer problem,,,(use your architect),   5iz1

25-FEB-74 1327-PDT NSRDC: message.txt file bad entry message
   Received 25-FEB-74 13:27:17   5j0

We have a bad entry or format message from the readmail
subsystem; also the 'bad' entry apparently is printed, It
looks like the last file we placed into the archive, no sweat
to us, just thought You would like to know, robert Lieberman   5j01

25-FEB-74 1833-PDT BAIR: LHD files
   cc: jimb
   Received 25-FEB-74 18:33:18   5ja

All are bad, Try an earlier date, And del those in my dir
when you put in another try   5ja1

25-FEB-74 1845-PDT FEEDBACK: Bad file
   cc: day, norton, hopper
   Received 25-FEB-74 18:45:01   5jb

Larry: It was good linking to you, The file restore from 18
Feb did't work either, so I have made the reconstructed LHD6
your initials file, and it looks OK (with the content i showed
you), Will still attempt to go back to a version that is good
so that you can check to see what is missing, You may delete
LHD6, it has served its purpose, I'm really sorry for the
delay in this most frustrating problem and hope it doesnt
happen again, I have a feeling that there still may be
problems with
e other files, but that should be solvable by our programmers,
esp, the one in DC,
Let Feedback know about any further problems, Have a good trip
to Rome and environs (bleak now,,,), Jim   5jb1

MIKE 19-FEB-74 13:34 30109
request for advice on how to enter a large text file from an
IBM-based system into an NLS file

Feedback to 23 Aug 74

Message: I have just completed storing 700 - 800 text entries on
an IBM computer running APL for us. The entries are actually
comments of the respondents to a questionnaire we recently sent
out. I would like to transfer the whole lot of comments into an
NLS file, but I expect some difficulty due to incompatibility of
the systems. I'm at a bit of a loss concerning what goes on
behind the scenes here, but the fellow from the APL group
recommended the following:
-dump the entire lot of comments onto 80-column cards;
-ship the cards out to you people on the West Coast;
-let you put the cards into an NLS file for us, taking advantage
of watever conversion routines you have available.

How does that sound ? What could we do at this end to simplify
the conversion into a useful NLS file. I thought that if we did
something like insert an exclamation point after each of the
comments, it would help you fellows out, since it will be easier
to do it before the comments come out on cards. What other
suggestions would you have ?
I expect the punched cards to be available by the beginning of
next week.

5jc

MIKE 13-FEB-74 16:09   30080
Problems working through the link stack.
Message: When working backword in the loop of files that I've
developed (by using the A: g   routine, the first file that
pops up is the file that I start in, rather than the file I was in
just previously. Is this normal ? Have I overlooked something ?
It didn't work like this at ARC, did it ?

5jd

DLS 6-FEB-74 03:54   30052
On-line only Delivery of Journal Documents
Message: Mike and Jim are right in suggesting that the RADC
delivery of Journal items be changed to on-line. The are enough
terminals and experienced users here now, so that most items can
be read at the terminal or printed on the line printer. We do
appreciate your efforts in the past in sending us hardcopy. It
has allowed us to maintain a local hardcopy library, which has
proved to be very valuable on a number of occasions. Dena Meyer
has written a user program, which helps in getting Journal
documents printed for us. I hope to get one of the secretaris to
run this on a regular basis,,daily,,so that we can continue to
maintain the hardcopy library. Your action will force me to get
this procedure going. I needed a little pushing.

5je

MIKE 15-FEB-74 06:59   30092

Feedback to 23 Aug 74

Is BELL-CANADA recognized as a group by OFFICE-1 ?
Message: I wonder if the users at BELL-CANADA are recognized as a
group by the system's protection mechanism. We've defined the
protection codes for several of our files as 777752, ad find that
only the creator of the file can write in it. Have I over looked
something, or is the system overlooking something ?

5jf

11-FEB-74 1339-PST STONE: User Program "INDEX"
    cc: bair, ferguson
    Received 11-FEB-74 13:39:41   5jg

    The user program, INDEX, loads OK, but when trying to execute,
    it gives the message,.File not on line,,,If Archived, use
    EXEC's INTERROGATE,,,,whats up? It generates the heading at
    the taile of Plex 1
    Index for Plex at 1,,,,but doesn't seem to be able to actually
    generate the index,   5jg1

12-FEB-74 1543-PST FERGUSON: c,c, of sndmsg to usc
    Received 12-FEB-74 15:43:53   5jh

    This is directed to Jim Pepin: 5jh1

    Jim - I have no explanation for why you can't get to Office-1
    from the USC-TIP, but you can from others. Once a Tip is
    running,
    the NETWRK should automatically know of its existence, I
    suggest you
    speak to the Netowrk Control Center at BBN (phone
    (617)661-0100),
    They should be able to handle your problem,
      If you need any more help, don't hesitate to SNDMSG,
    Ferg   5jh2

12-FEB-74 1616-PDT FERGUSON at SRI-ARC: <jernigan>liz2,sav
    cc: JERNIGAN, nsa at OFFICE-1, norsar-tip at OFFICE-1
    Received 12-FEB-74 16:18:03   5ji

    This message is to:
    1) Mil Jernigan
    2) Jess Hill of NSA
    3) Yngvar Lundh of NORSAR-TIP   5ji1

    As you have found, no NETUSER can access a program by typing
    @<DIR-NAME>FILE-NAME<CR>
     you only have access to programs in dir <NETSYS>, we have
    done
    this in an attempt to keep the Office-1 machine dedicated to

NLS,
and provide the best possible system load for good NLS
response, So
we have made an effort to prevent other programs from being
run,
However, there are some other programs which are very useful to
the
average user, We have therefore included <jernigan>liz2 in the
<netsys> repetoire, You can now use it, If there are any
other
programs you are accustomed to, and wish to have included in
<netsys>
please sndmsg to <feedback> or <bair>,
    Ferg   5j12

12-FEB-74 1619-PDT FERGUSON at SRI-ARC; <rel-nls>xnls
    cc: nsa at OFFICE-1
    Received 12-FEB-74 16:21:22   5jj

    To Jess Hill,
We have not yet finished our work on XNLS, At the moment we are
only
having ARC programmers and users working with that program, as
there
are many known bugs and problems, We have avoided releasing it
to all
users, as they may inadvertently do bad things to their files
in the
course of finding a bug, So until we successfully finish and
release
XNLS, we would like you to continue using standard NLS,
    Ferg   5jj1

12-FEB-74 1624-PDT FERGUSON at SRI-ARC; Trouble Logging Out
    cc: norsar-tip at OFFICE-1
    Received 12-FEB-74 16:26:34   5jk

    This is to DAG (Rieber-Mohn):
when you get the message "NOT LEGAL IN INFERIOR EXEC" after
trying
to logout, this means that you are really in an inferior exec,
you
probably logged in (at the superior exec),ran NLS, and then
said
"Goto Exec", This new exec you see (called an inferior) has a
subset
of the superior exec commands available, Specifically, you
cannot
logout from this place, as there is still an NLS and EXEC above

        you,
        You simply QUIT your way back up to the SUPERIOR exec, and then
        logout,
          If this message does not really answer your questions, either
        sndmsg
        again or link to me,
        Ferg   5jk1

    12-FEB-74 1654-PST FERGUSON: misc,
        cc: MEYER, WALTERS
        Received 12-FEB-74 16:54:17   5j1

          Dean,
        The ident for <WALTERS> is set-up, It's grunt!! is that
        really
        true? If not really grunt, please sndmsg,
          Also, you have been moved to the ENERGY group for login group
        allocation stuff,
          Hope you're enjoyinv Wasington,
        Ferg   5j11

    13-FEB-74 1324-PST MATTIUZ: noise on the line
        Received 13-FEB-74 13:24:58   5jm

        Three times while working one day, there was noise on the line
        and the system program hit the control x command and everything
        I was doing was lost, Is it possible for the program to read
        2control x's instead of one, It isn't likely to hit twice,   5jm1

    13-FEB-74 1432-PST MARTINEZ: XNLS IS MISSING
        cc: BAIR, BAIR at NIC
        Received 13-FEB-74 14:32:14   5jn

        A USER FROM MIT-MULTICS COMPLAINED TO ME THAT HIS ATTEMPT TO
        USE
        THE XNLS CONVERSION YIELDED THE RETURN "503 SPECIAL PROCESSING
        DISPATCH FAILED; NO SUCH PROCESSOR," THE CONVERSION IN HIS
        WORDS
        WAS "SORELY NEEDED" AND HE REQUESTED IT B E INSTALLED ASAP,
        ALSO JIM, I AM GETTING THE IMPRESSION THAT MANY OF OUR NEWLY
        TRANSFERRED USERS ARE NOT AWARE OF THE FEEDBACK DIR AND THE
        FUNCTION IT IS SUPPOSED TO PERFORM, IF YOU LIKE I CAN SEND
        A SYSTEM MESSAGE CONCERNING THIS DIRECTORY IF YOU LIKE, THIS IS
        NOT SUGGESTED WITH THE IDEA OF MY SHIRKING WHAT I CAN HANDLE
        VIZ USER PROBLEMS BUT RATHER IN THE INTREST OF FACILITATING
        THEIR
        EFFECTIVE COMMUNICATION AND CORRECTION, PLS LET ME KNOW WHAT
        I CAN DO TO HELP,
        THANX

BOBMARTINEZ
TYM/OFFICE-1   5jn1

13-FEB-74 1522-PST FEEDBACK: XNLS
Received 13-FEB-74 15:22:04   5jo

Bob: XNLS or any version of it is not available to Users,
unfortunately it was before we set up the subscription servie
at Office-1, so many people were playing with what is a n
experimental system for in-house testing and shakedown only,
It will be available to subscribers after April 1 sometime
(current prediction), In the meantime people will have to be
hapy with good ol' NLS unless there are exceptional
circumstances,,in which case have them contact me for a sarter,
Thanks for yoyyr offer to send the msg about feedback, I'll
take your clue and work something myself,,,thanks anyway, Jim   5jo1

<BAIR>FEEDBACK,NLS;1, 1-FEB-74 12:06 JHB ;   5jp

    DLS 23-JAN-74 07:28   21572
    Feedback on Feedback,,or Loop-the-Loop
    Location: (GJOURNAL, 21572, 1:w)

                                                                 5jp1

    SRL 23-JAN-74 10:02   21574
    journal problem at RADC
    Message: 21-JAN-74 12:12:14,483

    Date: 21-JAN-74 1212-PpT
    From: STONE
    Re: Journal submission problems
    - - - -
    While using the IMLAC and trying to send a journal message, I
    have problems when I get to the Distribution part, The first
    character of an ident gives me an error message which says
    "UASQD Failed in LITTTY", We recently received a new IMLAC
    program from you guys,,,could this be the problem?? When its
    fixed I have some feedback information for you, Too lazy to
    retype it now, -------
    21-JAN-74
    *****Note: fyi*****

                                                                 5jp2

    SRL 23-JAN-74 10:06   21575
    mouse problem at radc Message: 07:57:50,433Date: 22-JAN-74
    0757-PDT
    From: STONE
    Re: Mouse Button Problems
    cc: hopper when in the insert character/text/etc mode, I get

the message "undefined input" if I hit the left button to
backspace character or the left 2 buttons to backspacce
visible, If I use control H or control W from the keyboard, it
works OK, I have not loaded the most recent release of the
IMLAC program, Would this fix it?22-JAN-74
*****Note: fyi*****

5jp3

6-JUN-74 0741-PDT MATTIUZ: new ident and new directory
    Distribution: FEEDBACK, mattiuz
    Received at: 6-JUN-74 07:41:18   6

    Jim, we require two things here: Only an ident for   6a

    Phil R, Marquette
    Bell Canada
    620 Belmont St,
    Room 1105
    Montreal, Quebec
    H3C 3G4
    TEL: 514-870-5733   6b

    eNew Directory with the 300 page llocation for: 6c

    Mike Katsoulis
    Bell Canada
    620 Belmont St,
    Room 1105
    Montreal, Quebec,
    H3C 3G4
    TEL: 514-870-2713   6d

    (wat initial password will you set up for him?) also what
    directory can Phil work from with only an ident? would it be ny
    one f ours?)   6e

    thanks INEZ   6f

(ANALYSIS) Items for Analysis   7

    (ack)nowledged): Initial acknowledgement done by Utility, further
    action = long term   7a

        10-APR-74 0711-PDT BEDFORD: Slow response times leading to
        disaffection toward the system
            Distribution: FEEDBACK, mattiuz, bedford
            Received at: 10-APR-74 07:11:12   7a1

        Everytime I learn about something new in this system, like a

special user program, or that RUNFILE routine, I get all
excited and enthusiastic. Then I try to use one of them,
and am quickly brought back to earth. Having to wait over a
minute while the RUNFILE routine I built up tries to get
into NLS takes all the fun out it. More importantly, it
wastes a lot of time that I was trying to save with RUNFILE
in the first place. Inserting MESSAGE.TXT files into NLS is
no use at all if it's goin
to take over two minutes to get through the command, Execute
Programs ,,,,INMES,
More experienced users probably don't have to wait around to
see if the command "took", but all of us around here tend to
check things as we go, not out of any sense of insecurity
about the system's ability to perform, but because we make
lots of mistakes as we go. The lack of feedback (actually a
very delayed form of feedback) is really cramping our
learning and developing within the system,
This is not a bitch, by the way. I've bitched before, and
I'm sure that you're more aware of the problem's this lack
of memory is causing than we are, I just wated to point out
that the slow response time may be more acutely felt by
novice users such as ourselves, and may have more impact on
their attitudes torwards this style of working than it would
have on you seasoned professionals,   7a1a

PAN 6-MAR-74 11:24   30183
Sign-on problem
Message: Every time I sign on the system, it asks me for my
ident. Is there anyway that this could be done automatically -
if so, it would be greatly appreciated,

                                                                 7a2

 2-APR-74 2058-PDT   IRBY at SRI-ARC: lack of file name
feedback
   Distribution: FEEDBACK, bedford at OFFICE-1, mattiuz at
OFFICE-1, hopper, wallace, white
   Received at: 2-APR-74 20:58:54   7a3

   My humblest appologies but there in fact is no good reason
   for the lack of a file name feedback when the move command
   is used to move something into another file. The CM is move
   to the new file, but the user is not told of the change in
   file. This is a bug and should be fixed by Dave Hopper. It
   has been fixed in the new NLS, -- Charles,   7a3a

 2-APR-74 1316-PDT   BEDFORD: missing prompt when using the
MOVE command in NLS
   Distribution: FEEDBACK, mattiuz
   Received at: 2-APR-74 13:16:39   7a4

Feedback to 23 Aug 74

In moving a structure from one file to another, I understand
that the address of the bug or whatever you call it is in
the file that you moved TO, not FROM. In this case,
shouldn't the system echo your new location ?   7a4a

21-MAR-74 0636-PDT BEDFORD: bitch bitch bitch bitch : Load
average too high and response time too slow
    Distribution: FEEDBACK, mattiuz
    Received at: 21-MAR-74 06:36:45   7a5

I just waited over a minute (72 seconds) for the NLS herald.
How is your progress going with respect to getting more disc
or drum memory ?
Load Avg. is now8.57, down from over 12, a few minutes ago.
This is hard to take.   7a5a

26-FEB-74 0951-PDT BAIR: Sndmsg to Bair about login
incongruity
    cc: sdac-tip
    Received 26-FEB-74 09:51:26   7a6

Buz Owen: Thanks for your comment althoughit doesn't sound
too serious. It will be added to our Feedback data base.   7a6a

(action): no feedback yet, Analysis responsble for initial
acknowledgement   7b

(done)   7c

(NIC) Items directly concerning the NIC function.   8

ADO 30-APR-74 18:18   30593
missing news
Message: There's no news online.
                                                                 8a

6-MAY-74 2107-EDT Vint Cerf at AMES-TIP: Net mail from site
BBN-TENEX
    Distribution: FEEDBACK
    Received at: 6-MAY-74 19:06:23   8b

Jim:
haven't tried guest because office-1 was not responding on
Monday May 6 at 1800 hours. Will try again later this week and
will gripe if I have trouble. Thanks for checking again.
Vint   8b1

15-MAY-74 1610-PDT FEEDBACK: Library services at the NIC
    Distribution: FEEDBACK, hughes at MIT-MULTICS, norton,

hhughes.mac at MIT-MULTICS
    Received at: 15-MAY-74 16:10:02   8c

    Herb,
    There have been major changes in the NIC recently by ARPA,
    These changes
    will virtually eliminate service as it is now known, This will
    be formally
    announced this week through the System, with copies sent
    through the mail to
    key people at each site,
    Thus, the answers to your questions are very different than
    they would have
    been a few weeks ago, Yes, we would like to have any documents
    for our
    hardcopy collection that you would like to share with us, They
    would of
    course be indexed in our journal indexes, but that will be
    available only to
    people that are on line,
    Since there will be no service via the NIC after 1 July, it
    would not be
    useful to establish any kind of abstract library (there is none
    now),
    However, if you wish to purchase part of the Utility service
    from us, we
    would be glad to discuss any possibiliites, The service
    currently sells for
    a minimum of $10 to 40 thousand per year which includes user
    support as well
    as computer service/time, If you are interested or have any
    further
    questions, please feel free to contact Jim Norton or myself at
    SRI (415)
    326-6200 ext, 3614,   Thanks for your inquiry, Jim Bair (Head,
    User
    Development)   8c1

05/15/74 0949-edt HHughes.MAC at MIT-Multics: Net mail from site
MIT-MULTICS
    Distribution: FEEDBACK
    Received at: 15-MAY-74 06:48:07   8d

    i have several questions,
    we have here at project mac several documents that we think of
    interest, Do you have a hardcopy library and if so could we
    send
    you copies to be numbered and placed in the library, We noticed
    for example that the tenex documentation has nic numbers   8d1

second related question
we have prepared abstracts of MAC technical memos for
journal entry into the NIC
is there already a library of abstracts, If so what kind of
stuff
is in it and would it be appropriate for us to put ours into
it?
or would it be better to simply create a mit-multics file of
documents and abstracts available to everyone   8d2

thanks   Herb Hughes   8d3

(Tym)share: user already acknowledged, but have direct bearing on
Tym Ops,   9

    5-APR-74 1917-EDT Kennedy at RADC-TIP: Office-1
    Distribution: FEEDBACK, stone at OFFICE-1
    Received at: 5-APR-74 16:46:58   9a

    Why does the host go dead every Friday night at about this
    time???
    It is somewhat disconcerting to be in the middle of something
    and suddenly have the whole thing go dead, It is crushing to
    have it happen every Friday night, Do we get a refund????
    Comment please!!!   9a1

    3-APR-74 0929-PDT KENNEDY: reply on yourmsgs in response to my
    'deleted files' msg
    Distribution: FEEDBACK, oper, bair
    Received at: 3-APR-74 09:29:23   9b

    There is no way I can reproduce the entire session, Earlier in
    the day I looked at my dsk and expunged, Later after working
    entering a file on the TI and editing it on the IMLAC and
    journaling it, I was ready to log off, Ichecked dsk and found
    I had about 35 pages expunged I then checked a printout of my
    directory from that morning, I found that the one file was
    gone, so I undeleted it,
    Ref the trim on extra file versions bi-weekly retaining only
    two, I had only one in my directory, it was the second
    version, Had it been expunged also would it have been
    recoverable - easily? I admit that the file was on a topic
    that has been hanging fire for a while and has probably onot
    been looked at for a month, Does this mean it gets trimmed out
    of my directory?
    By the way why is it tking so long to getjournaled material
    online? We asked for one of Engelbart's reports about three
    time a week or more ago and I don't think it made it yet,
    Ialso asked for two last nite and have heard nothing, They may

```
         or may not be back right now.
         In the first para, read 35 pages deleted,  sorry about that,      9b1

(system)  System messages, retained for historica purposes,               10

   28-MAR-74 1125-PDT  OPER:  NEW MONITOR VERSION
       Distribution: FEEDBACK, BAIR at SRI-ARC, NORTON at SRI-ARC,
   KUDLICK at SRI-ARC,        FERGUSON at SRI-ARC, WALLACE at SRI-ARC,
   HOPPER at SRI-ARC,         POLLACK, MARTINEZ, JIMB
       Received at:   28-MAR-74 11:25:18                                   10a

        ON FRIDAY 3/29/74 1500 (3:00 PM) MONITOR VERSION 13139
        WILL BE BROUGHT UP, THIS INSTALLATION WILL INCORPORATE FEATURES
        AND
        MODIFICATIONS WHICH WE ANTICIPATE WILL ENHANCE THE EFFICIENCY
        AND
        FLEXIBILITY OF TENEX AT OFFICE-1 (AND SO ON).
        PARTICULAR DETAILS CAN BE VIEWED IN
        <DOCUMENTATION>TENEX,CHANGES;13139,
        YOU ARE INVITED TO LOG ON AT THAT TIME AND  GIVE 13139 A
        WORKOUT,
        FEEL FREE TO POUND,STRETCH, WIGGLE AND OTHERWIZE SHAKE LOOSE
        ANY WEAKNESSES, BUGS OR GLITCHES THAT MAY POSSIBLY REMAIN IN
        THE
        CODE SO THEY CAN BE CORRECTED,
        BOBM
        TYM/OFFICE-1                                                       10a1

   21-FEB-74 1541-PST  OPER:  MONITOR INITIATION
       cc:   bair at SRI-ARC, norton at SRI-ARC, kudlick at SRI-ARC,
   ferguson at SRI-ARC, wallace at SRI-ARC, hopper at SRI-ARC,
   marrah, martinez, jimb
       Received 21-FEB-74 15:41:21                                         10b

        ON FRIDAY 2/22/74 1500 (3:00 PM) MONITOR VERSION 13136
        WILL BE BROUGHT UP, THIS INSTALLATION WILL INCORPORATE FEATURES
        AND
        MODIFICATIONS WHICH WE ANTICIPATE WILL ENHANCE THE EFFICIENCY
        AND
        FLEXIBILITY OF TENEX AT OFFICE-1 (AND SO ON).
        PARTICULAR DETAILS CAN BE VIEWED IN
        <DOCUMENTATION>TENEX,CHANGES;13136,
        YOU ARE INVITED TO LOG ON AT THAT TIME AND  GIVE 13136 A
        WORKOUT,
        FEEL FREE TO POUND,STRETCH, WIGGLE AND OTHERWIZE SHAKE LOOSE
        ANY WEAKNESSES, BUGS OR GLITCHES THAT MAY POSSIBLY REMAIN IN
        THE
        CODE SO THEY CAN BE CORRECTED,
```

Feedback to 23 Aug 74

    BOBM
    TYM/OFFICE-1   10b1

20-FEB-74 1859-PST FERGUSON: Request for new monitors at
Office-1
    cc: bair at SRI-ARC, norton at SRI-ARC, kudlick at SRI-ARC,
ferguson at SRI-ARC, wallace at SRI-ARC, hopper at SRI-ARC,
marrah, martinez, jimb
    Received 20-FEB-74 18:59:34   10c

    Gentlemen,
    When jimb brings up a new monitor, we would like to do that at
    5:00 pm
    on a Friday. You will all receive a notification of the new
    monitor,
    and we would like you to BEAT upon that monitor as much as
    possible. If their are no bugs, that monitor will stay up.
    Otherwise,
    we will have an opportunity to back up to a more reliable
    monitor.
      If you encounter problems, you should sndmsg to
    feedback@office-1
    AND jimb@office-1,
      This is also a test to make sure the message gets to
    everyone.
    ferg   10c1

28-FEB-74 1110-PDT OPER: MONITOR VERS, 13137
    cc: bair at SRI-ARC, norton at SRI-ARC, kudlick at SRI-ARC,
ferguson at SRI-ARC, wallace at SRI-ARC, hopper at SRI-ARC,
marrah, martinez, jimb
    Received 28-FEB-74 11:10:18   10d

    ON FRIDAY 3/01/74 1500 (3:00 PM) MONITOR VERSION 13137
    WILL BE BROUGHT UP, THIS INSTALLATION WILL INCORPORATE FEATURES
    AND
    MODIFICATIONS WHICH WE ANTICIPATE WILL ENHANCE THE EFFICIENCY
    AND
    FLEXIBILITY OF TENEX AT OFFICE-1 (AND SO ON),
    PARTICULAR DETAILS CAN BE VIEWED IN
    <DOCUMENTATION>TENEX.CHANGES;13137,
    YOU ARE INVITED TO LOG ON AT THAT TIME AND GIVE 13137 A
    WORKOUT,
    FEEL FREE TO POUND,STRETCH, WIGGLE AND OTHERWIZE SHAKE LOOSE
    ANY WEAKNESSES, BUGS OR GLITCHES THAT MAY POSSIBLY REMAIN IN
    THE
    CODE SO THEY CAN BE CORRECTED,
    BOBM
    TYM/OFFICE-1   10d1

TPO 12 - ISC - Good Copy for System Use

TPO 12 - ISC - Good Copy for System Use

This is a good version for system use only - if use this one, must substitute "1" or "1"

TPO 12 - ISC - Good Copy for System Use

<LORETO>TPO74,NLS;1, 20-AUG-74 16:13 DRL2 ;

3.12 TPO No. 12 - COMPUTER SYSTEMS TECHNOLOGY

   3.12.1 GENERAL OBJECTIVES:

      (U) The objective of this TPO is to develop the various
computer related technologies which are required to allow computer
systems to be used for the efficient and economical solution of
numerous Air Force operational problems.

      The efforts directed toward meeting this objective are
in two major areas - Computer Architecture and Interactive
Processing. Computer Architecture deals with the organization of
computer components and sub-systems. Interactive Processing
addresses the problems of automatic signal classification,
man-machine interface, and the automation of operational functions.

      The objectives of the efforts in the Computer
Architecture area are to: (1) demonstrate the application of
Associative Processor (AP) techniques to the solution of Air Force
high data rate real-time data processing problems; (2) develop
technology which will allow sharing of DOD computing resources such
as computers, computer peripherals, data bases and software
facilities; (3) develop technology which will make possible the
orderly design, test and evaluation of special computer architecture
required by the Air Force before the architecture design is given to
a contractor to build.

      Efforts in the Interactive Processing area are directed
toward: (1) developing the facilities and the expertise required to
solve the complex data processing problems of automatic signal
classification technique development, and assisting a wide variety of
users in actually developing automatic classification and
identification equipment for use in various Air Force surveillance
systems; (2) developing cost effective interactive graphics
techniques and systems which will lower Air Force operational costs
and increase effectiveness.

   3.12.2 SPECIFIC GOALS AND TECHNICAL APPROACHES:

      (U) The plan for attaining the TPO objective is shown
in the overview chart (Page 3.12-2). The technical efforts covered

2

by this TPO are oriented toward providing the four major products
shown,

   3,12,2,1 (U) ASSOCIATIVE PROCESSOR COMPUTING SYSTEM - The
goal of this product is to provide techniques capable of meeting the
ever increasing data processing requirements of the Air Force as
typified by the high data rate real-time processing demands imposed
by systems such as the Airborne Warning and Control System (AWACS),

   As indicated by the Milestone Chart (Page 3,12-), this
goal is being achieved by RADC's Associative Processor Testbed
facility, The testbed facility consists of an Associative Processor
tied to RADC's HIS 645 sequential computer, a situation display
capability for purposes of providing operator interaction with the
executing programs, and equipment for monitoring the performance of
the testbed equipment while executing operational type programs,
Completion of the testbed system is planned during FY-76, when a data
manipulation capability for effecting high utilization of processing
elements will be installed to complement the interim capabilities
available at the present time,

   The major on-going effort for assessing the capability
of an associative processor to meet real-time requirements is
directed toward the AWACS requirements, Associative Processor
Application Software, to accomplish the functions required by AWACS,
is being developed for analysis and demonstration on the AP testbed,
This activity, which is being accomplished both in-house and
contractually, will concentrate on the data processing aspects of
active and passive tracking, radar data correlation, display
processing, and signal processing, Completion is expected in mid
FY-76, Major improvements in capability are envisioned for
AWACS-like systems using an AP approach rather than a sequential
computer, AP active tracking tests to date indicate a capability of
handling five times as many radar tracks, Efforts to develop
software for other Air Force system functions requiring real time
processing capability will be started upon completion of the AWACS
work, In addition, Syracuse University is developing software to
perform functions such as matrix manipulations, fast fourier
transforms, partial differential equation solutions, and traffic
control/collision predictions, and MITRE Corporation is developing
software in functional areas directly applicable to ESD project
requirements,

During FY-75, the Associative Processor testbed will
become a remotely accessible Associative Processing Research
Facility, Under this mode of operation, DOD agencies and contractors
will be able to enter batch jobs from remote stations on a twenty
hour per day basis,

Two AP design studies are being conducted in support of
RADC TPO-9 "Telecommunications", This TPO supports improvements to
the Defense Communications System (DCS), The first is the
Communications Processing System study which will examine various
architectures, including the Associative Processor, in the design of
a processor to handle all types of communications traffic both
digital and analog, Completion is planned for mid FY-75, The second
design study is for an associative communications multiplexer which
will compress and multiplex digital signals using an Associative
Processor, Completion is planned for the end of FY-75,

The Prime end goal of the Associative Processor Project
is the development of hardware and software specifications for a
cost-effective, highly reliable Associative Processor Computing
System (APCS) suitable for airborne and tactical environments, These
specifications and the rationale developed by the project during the
1973-1976 time period are expected to lead to a 6,4 program to
actually fabricate the evolved APCS design, This program, estimated
at 14 million dollars, will result in a militarized Associative
Processor and its supporting software directed toward applications
such as AWACS and the Advanced Airborne Command Post, The computer
system will serve as the basis for continued software development and
application programming at RADC and can be used as a prototype design
for operational Air Force systems, Target date for completion is
FY-79,

3,12,2,2 (U) DISTRIBUTED COMPUTATION SYSTEMS - The
objective of this product is to provide the Air Force with mechanisms
for maximizing the utilization of its computing resources,
Distributed Computation Systems are of two types: (1) computer
systems which are physically distributed but tied together by means
of a network such as the ARPANET, and (2) computer systems which
have, on a single mainframe, a variety of functionally distributed
capabilities which can strategically be brought together in an
optimum fashion to provide highly efficient/low cost solutions to the

4

TPO 12 - ISC - Good Copy for System Use

Air Force real time/special requirements. Milestone Chart (Page
3.12-) covers both types of Distributed Computation Systems.

       To achieve the first objective of providing the
capability to efficiently and effectively utilize the dispersed
computational resources inherently present in a distributed
heterogeneous computer network, the Distributed Computation
Techniques and Applications effort will identify problems inherent in
present netted computer systems which deter resource sharing among
computers. It will explore existing software and hardware systems to
determine what fixes can be made to overcome the problem with these
systems. It will then propose possible system architectures which
should lead to a system which allows efficient resource sharing in a
manner which makes the mechanics of network use completely
transparent to the network resource user. It will implement the
software fixes proposed by the study and test them in actual
operational systems. Any additional techniques which appear
promising will also be explored.

       The System Architecture effort will involve simulation
and, if possible, implementation of the architecture proposed by the
Distributed Computation Techniques and Applications study. These
will be thoroughly tested to determine their applicability to actual
operational systems such as the World Wide Military Command and
Control System (WWMCCS).

       The AFSC Network effort will develop the interfaces to
connect 16 AFSC computers to the ARPANET in two phases. In the first
phase, three CDC-6600 machines at ASD, ADTC and AFWL will be
connected to the net. In the second phase, the remaining 13 sites
will be connected.

       The second objective of the Distributed Computation
Systems product area is to develop an effective low cost approach for
producing cost effective computing capability required to solve
special processing functions which are peculiar to the Air Force and
which cannot be satisfied by computers existing in government and
industries inventories. For this purpose, a program called
Configurable Processor has been initiated. A Configurable Processor
is a functionally distributed computation system which can be
structured by means of firmware to assume the optimal, cost effective
architecture form required by the problem and the software which

5

provides solution to the problem. The design which is a by-product
of the configured system will be given to a contractor to build only
after it has been tested and evaluated using significant benchmark
software. After the design has been released to the contractor, the
"configured architecture" will then serve as an interim computer so
that software development can be continued while the special computer
is being built.

The configurable processor concept is an outgrowth of
the associative processor program, the microprocessor technology
developments which now provide complete computer functions on a
single integrated circuit chip, and the advances which have been made
in the microprogramming technology.

The configurable processor program will begin with the
purchase of off-the-shelf Micro Function Components including
microfunction chips, a microprogrammable control unit and a
multi-dimensional access memory. These components will be assembled
into an extremely inexpensive system which through firmware can be
made to act as any architectural form (sequential processor, parallel
processor, multi-processor, etc.) having any desired word/logic
length. The Configurable Processor Design, Test and Evaluation will
be accomplished on these assembled components and as such will
represent a Configurable Processor Testbed Facility.

Configurable Processor Application Software will be
developed to demonstrate the process of structuring the configurable
processor based on: (1) the structure of the problem, and (2) the
structure of the software for implementing the problem solution.

The end product will be: (1) an inexpensive, Air Force
Configurable Processor Testbed Facility, (2) utility software for
facilitating the configuration process, and (3) validation data which
will demonstrate the process and the benefits that a Configurable
Processor Facility brings to the Air Force.

3.12.2.3 (U) SIGNAL CLASSIFICATION - The automatic
classification of signals is required to support many Air Force
objectives including space defense, remote surveillance, base
defense, and tactical interdiction. Devices (signal classifiers)
which analyze the output electronic signals from the transducers of
various sensor systems, including radar, photometric, seismic,

6

acoustic, etc,, and automatically recognize these signals as
occurring in a specific target class, must be developed, These
classifiers will increase the effectiveness of the sensor system
since false alarms will be eliminated/reduced and will allow more
accurate and rapid assessment of the threat by commanders,
Classifiers may be implemented as part of a data processing system,
be part of other ground or airborne installations, or be contained in
sensors impact implanted into enemy territory,

        The technical approach to the design of these
classifiers is to use advanced pattern recognition techniques
(software) residing on a general purpose computer interactively
coupled to a high performance graphics console to provide general
purpose design tools, These tools allow the design engineer to
analyze a data set, extract features characteristic of each target
class, evaluate these features and design the target classifier,
Since several solutions can be developed rapidly, the most cost
effective in terms of accuracy versus complexity (i,e,, the number
and type of features or method of classification required) can be
implemented,

        Up to this point, development work has centered around
the tools and techniques to allow problem solution, With the
validity of our interactive pattern recognition approach having been
verified on specific previous applications, our attention for FY-76
and beyond is on the implementation of a fully operational pattern
Recognition Design Facility, a unique capability within DOD and
industry, This facility is needed in order to support the future
signal classification workload as a production oriented capability,
addressed to specific user requirements, In order to arrive at this
posture in a timely fashion, the Milestone Chart (Page 3,12-) line
items associated with waveform processing and preprocessing and with
the updating of the On-Line Pattern Analysis and Recognition System
(OLPARS) must be completed,

        Waveform Preprocessing Techniques encompass those
ancillary projects necessary for a viable system, In FY-74, such
items as hybrid feature extraction software, hybrid preprocessing
routines, and the configuring of a peripheral image dissector,
permitted the handling of digital, analog, and photographic waveform
data input, In FY-75, the item will be expanded to include a data

7

link from the RADC HIS 6180 to the PDP 11/45 computer, so that each
computer may be used to the greatest advantage.

The Waveform Processing System (WPS) addresses the
problem of quickly and efficiently extracting discriminatory feature
information from the waveform data. When completed in early FY-77,
it will allow the analyst to dynamically interact with the data in
defining and testing candidate feature sets. The result will be a
more effective design in a minimum of time.

Improvements in the prototype version of OLPARS are of
two categories: (1) the implementation of the logic design
capability on the PDP 11/45 computer resident with the WPS, and (2)
the implementation of the logic design under the MULTICS operating
system on the RADC HIS 6180 computer. In the first OLPARS version,
full advantage will be taken of the high performance graphics
terminals associated with the PDP 11/45 system, and of the interplay
between the feature extraction and logic design software. The
MULTICS/OLPARS version will take advantage of the inherent
flexibility of the MULTICS operating system and provide, for the
first time, a multi-user capability for pattern recognition
applications. If RADC becomes a host on the ARPA network, the
multiple users could be from any agency with access to the network.
By this method, we not only produce results in the terms of specific
classifier designs for certain users, we also will be able to export
our software capability to those users who would like to do their own
analysis.

Using the capability of the interim Pattern Recognition
Design Facility which currently exists, RADC is pursuing a vigorous
program in selected applications areas to support user signal
classification requirements. The Aerospace Shape Identification
(Radar) line item includes a study of the feasibility of recognizing
characteristic shapes of aircraft and space objects by analyzing the
narrow pulse radar returns. With sufficiently descriptive features
which are independent of orientation, one would dramatically decrease
the storage and speed requirements for any classification system.

In a related area of Photometric Signature Analysis,
RADC is studying actual space object signatures derived from
telescopically collected reflected sunlight in order to determine
certain characteristic information. In the first part of this

8

effort, in direct support of SAMSO's Satellite Observables Program
(per TN-SAMSO-RADC-1708-73-01), the analysis is performed on selected
satellite signatures as determined by SAMSO. In the second portion,
the photometric data collected on various selected space objects will
be analyzed to determine features and classification logic for
automatic discrimination purposes. This second portion is in support
of the Air Force Avionics Laboratory and is directed initially toward
tumbling rocket bodies. Results of both the photometric and
aerospace shape work are directly applicable to the needs of ADC as
expressed in ADC-ROC 16-71.

Another major applications area, represented by the
Acoustic/Seismic/Magnetic Data Analysis area, includes projects which
deal with the processing of ground based analog sensor data. In each
case, the project involves aspects of signal processing, to determine
sensor and event characteristics, and the application of classical
pattern recognition to design discrimination logic.

The first of these projects involves the processing of
aircraft acoustic signatures for the purposes of remotely monitoring
air base activity. This project, in support of RADC TPO-7 "Tactical
Surveillance and Control", involves the collection and analysis of a
large aircraft signature data base of take-offs, landings, and
fly-overs. Logic will be designed to discriminate between the
aircraft events of interest and thereby monitor the base activity.
The discrimination logic in this application, as in all of the
others, initially is in the form of software programs and equations,
but can be implemented in microcircuits and integrated with the
sensor electronics as required.

Another project, in support of ESD Advanced Development
Program 681E and RADC TPO-7 "Tactical Surveillance and Control",
involves the modernization of line sensors to be used in the Base
Installation Security System. The sensor outputs consist of magnetic
and seismic waveforms which are generated by valid intrusions and by
false alarm events. The modernization task involves the analysis of
the sensor waveforms and the design of discrimination logic to sort
out valid intrusions from the false alarms, such as wind and
lightning. Once a desirably low false alarm rate has been achieved,
these improved sensors based on RADC's new design classification
logic will be acquired by ESD for installation at air bases
throughout the world.

9

The last of the projects being pursued in the ground-based sensor area is the Nuclear Data Analysis project in support of the Arms Control and Disarmament Agency (ACDA), In this project, short period seismograms of teleseismic Eurasian events will be analyzed with the objective of automatically classifying earthquakes from underground nuclear explosions, Using the extensive event data base collected by ACDA, RADC will analyze the signals, extract the discriminatory information and design classification logic for the task,

The last of the applications areas to be discussed is one represented by the Milestone Chart line item entitled Speaker Identification, In support of RADC TPO-2 "Intelligence Analysis and Exploitation", a data set of human speech is being analyzed, The analysis is focused on determining, and if possible, quantifying inter-speaker similarities and intra-speaker differences for application in security related speaker recognition devices,

New pattern recognition techniques for feature extraction and target classification are continually being evaluated and the potentially useful ones added to those tools so that they evolve to solve an ever increasing spectrum of problems, Development in this area is expected to continue through at least FY-77,

3,12,2,4   (U)   COMPUTER GRAPHICS SYSTEMS - The goal of the computer graphics technology area is to provide cost effective solutions to the problems encountered in developing low cost multi-terminal computer graphics systems which will present computer generated data to an operator and allow him to interact with it, The data presented can be in the form of alphanumeric symbology or line drawn graphics, The system must allow the operator to interact with the data base and modify or control the overall processing function by means of his input devices while observing the results with some type of display, This technology and the technology being developed under RADC TPO-4 "Intelligence Data Handling", fully complement each other since TPO-4 efforts are directed toward image analysis which is not a goal of this TPO,

One of the most effective types of display presentation is the interactive graphics display, In this mode, the operator has access to and control over the computing process with the results presented to him in the form of graphical figures, There are

10

numerous levels of performance and cost associated with each system,
as well as a variety of possible implementation schemes. The
selected system must represent a balance between performance, cost
and flexibility,

The RADC computer graphics program is a combination of
both contractual and in=house efforts, All of these efforts depend
heavily on the interactive processing facility recently installed at
RADC, This facility includes a flexible computing system as well as
high performance graphics and allows the operator to both perform
development functions as well as to simulate several applications
functions for specific operational users, The Milestone Chart (Page
3,12=) outlines the computer graphics program,

The Air Force Global Weather Central (GwC) Interactive
Graphics System effort is directed toward providing their analysts
and forecasters with the ability to generate, edit, analyze and
update various weather charts and forecasts in the interactive mode,
This will increase the flexibility as well as decrease the cost of
the various operations involved, The final system configuration will
include numerous terminals and several forecast locations as well as
a direct hook=up to the main GWC computer facility, This is a
multi=phase, multi=year effort which will result in the automation of
a significant portion of the GWC operation, This will be
accomplished through the implementation of several mini=computer
based graphics systems, as well as the development of specialized
software and techniques to handle the particular characteristics of
the environmental data, The effort is being pursued in support of
MAC=DAR=L72=7 with full implementation scheduled for FY=78,

One of the prime considerations in applying computer
graphics is that of economy, The specific approach that will reduce
the per=terminal cost of multiple terminal graphics systems is the
use of raster (or digital TV) techniques, Such a system not only has
the potential for high performance at relatively low cost, but also
offers the unique feature of being able to mix computer generated
graphical data with pictorial information, The Raster Graphic
Techniques effort is aimed at investigating the feasibility of
performing the graphics functions using interactive TV displays, The
goal is to provide performance equivalent to present selective
address systems with a significant reduction in cost, The
culmination of the program in FY=78 will be a Multi=Terminal Raster

Graphics System which demonstrates equivalent performance at much
lower cost than previously available systems,

The Graphics Software Techniques area represents a group
of related and continuing efforts aimed at decreasing the complexity
and increasing the efficiency of graphics software and the means to
generate it, To provide a testbed within which to work, a complete
graphics software system has been configured to operate on our
graphics facility, Among the areas which will be pursued in future
development efforts are the investigation of graphic data base
structures and their effect on processing efficiency, as well as the
practicality and desirability of including a graphic extension within
a higher order language, particularly the block structured
declarative type,

The Graphics Modeling effort is aimed at the development
of a modeling system to investigate the various parameters utilized
in the design of interactive graphic systems, These include the use
of satellite processors, distributed as opposed to concentrated data
bases, the effect of response time on various interactive devices,
and operator performance within such a system, The result will be
more effective and efficient system designs while minimizing the
overall cost,

3,12,3 RELATED EFFORTS:

(U) Numerous efforts which are related to this TPO are being
pursued by other Air Force Laboratories and other agencies, both
within DOD and in industry, Close technical liaison is being
maintained on these efforts and any technical advances made will be
applied to this TPO, Conversely, the results of efforts under this
TPO are made available to other agencies for application to their
programs, Following is a summary of the major efforts related to the
products of this TPO,

3,12,3,1 (U) ASSOCIATIVE PROCESSOR COMPUTING SYSTEM - The
Federal Aviation Agency is studying the use of an associative
processor for air traffic control processing, A prototype STARAN was
used for conflict prediction studies at the Knoxville, Tennessee test
site, Further studies are being conducted with three contractors,
each applying benchmark problems to their machine, The Defense

DRL2 26-AUG-74 05:27 31026

TPO 12 - ISC - Good Copy for System Use

Mapping Agency (DMA) is leasing an associative processor to study its
applicability to the post processing functions of cartography.

3.12.3.2 (U) DISTRIBUTED COMPUTATIONAL SYSTEM - The ARPANET
designed and implemented by the Defense Advanced Research Projects
Agency (ARPA) embodies many of the prerequisite features which will
provide the basis for this advanced study. Specifically, it includes
all the protocols which allow transfer of data and programs between
computers and between peripherals and computers. The National
Software Works program, sponsored by ARPA in conjunction with RADC
TPO-11 "Software Sciences Technology", having the objective of giving
a programmer access to many software development tools, will
coordinate closely with and use many of the results of this program.

3.12.3.3 (U) CONFIGURABLE PROCESSOR FACILITY - Univac has a
program under IR and D which will be used to design their next
generation computer systems. They intend to build a microprogrammed
multi-processor with an extremely flexible internal communications
scheme to support the program. IBM, under internal corporate
research, is designing a direct execution machine (a machine which
directly executes higher order language code).

3.12.3.4 (U) TARGET RECOGNITION - The Army is applying
pattern recognition techniques to speaker identification photograph
analysis, shock trauma analysis and mine fusing applications. The
Navy is using pattern recognition for speech recognition and for
sonar target identification. NASA is doing work in identification of
various earth resources using multi-spectral scanners. The Arms
Control and Disarmament Agency is utilizing pattern recognition
techniques to identify nuclear blast detonations.

It should be noted that the preceding work has been done in
close cooperation with RADC. Some of the work was actually completed
on the RADC system by other services after training and
familiarization by RADC personnel. These agencies have either begun
development or are considering development of a research tool
patterned after the RADC On-Line Pattern Analysis and Recognition
System (OLPARS); or are planning to continue using the RADC system.

3.12.3.5 (U) COMPUTER GRAPHICS SYSTEMS - There are numerous
efforts in computer graphics being pursued both within DOD and in
other government agencies. The Army is developing cartographic

13

analysis techniques using interactive graphics while the Navy is
synthesizing radar backgrounds and clutter to test radar signal
processing systems. NASA has used computer graphics extensively for
both computer aided design and flight simulation. More recently
within the National Oceanographic and Atmospheric Administration
computer graphics has been applied to the analysis of meteorological
data particularly relative to severe weather conditions. ARPA has
been one of the prime movers in the development of graphic techniques
primarily through its university contracts.

   3.12.4 REQUIREMENTS:

        (U) There are numerous Air Force requirements for the
technologies being developed under this TPO. High speed data
processing techniques, software first techniques, automatic target
identification techniques, and interactive graphics systems are being
developed to satisfy the following requirements:

2nd JOVIAL COM Testrun

(J31027) 27-AUG-74 10:17;   Title: Author(s): Duane L. Stone/DLS;
Distribution: /RN2 RJC DVN; Sub-Collections: RADC; Clerk: DLS;
Origin: <STONE>COMTEST,NLS;3, 17-AUG-74 09:49 DLS ;

2nd JOVIAL COM Testrun

Journalling this for backup and historical reference...also need the
file space.

Chapter 2

ELEMENTS

2.1 Introduction

A program:declaration written in JOVIAL consists, basically, of
statements and declarations. The statements specify the
computations to be performed with arbitrarily named data.
Simple:statements can be grouped together into
compound:statements in order to help in specifying the order of
computations. Among the declarations are data:declarations and
processing:declarations. The data:declarations name and
describe the data on which the program is to operate, including
inputs, intermediate results, and final results. The
processing:declarations generally contain statements and other
declarations. They specify computations, but they differ from
statements in that the computations must be performed only when
the particular processing:declaration is specifically invoked by
name. In addition to statements and declarations, there are
directives which serve various purposes. They designate
externally defined names the compiler is expected to recognize,
they control selective compilation of various statements and
declarations, and they provide information the compiler needs in
order to optimize the object code. The statements,
declarations, and directives are composed of symbols, which are
the words of the JOVIAL language. These symbols are, in turn,
composed of the signs that constitute the JOVIAL alphabet.

.1 The general order in which the elements of a
program:declaration are introduced in the preceding paragraph
represents the general order in which one looks up
definitions when trying to clear up a question. The
definitions in this manual are introduced, however, in the
opposite order. Such arrangements lead to complaints that
one must "read the book backwards." This comment arises from
the process of looking up a form in the table of contents,
turning then to the late chapter where it is defined in terms
of earlier defined forms. These, more elementary, forms are
then found, via the table of contents, in an earlier chapter.
And so forth. Nevertheless, the document is arranged for the
use of a reader rather than for reference. Difficult as this
may be for reference use, the opposite arrangement is much
more difficult for a reader.

.2 An index-glossary is included which facilitates
reference. The index-glossary answers many questions
directly. In other cases, it references syntax equations and
sections by number.

2.2 Spaces and Spaces

It is important to distinguish between a space, an element of
JOVIAL, and a space, an element of our descriptive language.
JOVIAL is written using symbols, the words of the language. The
symbols are composed of signs, the elements of the JOVIAL
alphabet. In general, symbols do not contain spaces. The
exceptions are pointed out in Section 2.5.2, with respect to
comment, and in Section 2.8.2, with respect to
character:constants. In general, symbols are separated by
spaces. Again the exceptions are noted in Section 2.10;
however, these exceptions are permissive; i.e., it is always
correct to put spaces between symbols.

.1 The following example is wrong:

PLXMPY (1, 375, =, 75, 5 ,, 7.3 ; REAL, IMAG
) ;

.2 The following examples are right:

a. BEGIN 1, 3, +5, = 7 END

b. SL:PLXMPY(1.375,=,75,5,,7.3:REAL,IMAG);

c. SL : PLXMPY (1,375 , = ,75 , 5, , 7.3 :
REAL , IMAG) ;

.3 In defining and explaining signs and symbols, any spaces
included in the metalanguage formulas are not meant to be
included in the definition. The phrase "string of" implies
that there are to be no spaces between the elements strung
together. Similarly, phrases such as "followed by",
"enclosed in", and "separated by", imply that there are to be
no spaces between the elements concerned. This is the
situation (except where explicitly stated to be different) in
this chapter, Chapter 2. In Chapter 3 and beyond, the
opposite view is maintained with respect to these phrases.

2.3 Signs, Elements of the JOVIAL Alphabet

letter
sign ::=   numeral
mark

```
                A
                B
                C
                D
                E
                F
                G
                H
                I
                J
                K
                L
        letter  ::=     M
                N
                O
                P
                Q
                R
                S
                T
                U
                V
                W
                X
                Y
                Z




                0
                1
                2
                3
        numeral ::=     4
                5
                6
                7
                8
                9
```

JOVIAL J73   27 AUG 74

```
+          plus:sign
-          minus:sign
*          asterisk
/          slash
\          back:slash
&          ampersand
>          greater:than:sign
<          less:than:sign
=          equals:sign
@          at:sign
mark  ::=         ,          decimal:point
:          colon
,          comma
;          semicolon
           space
(          left:parenthesis, parenthesis
)          right:parenthesis, parenthesis
[          left:bracket, bracket
]          right:bracket, bracket
'          prime
"          quotation:mark
$          dollar:sign
!          exclamation:point
```

.1 Sign means a letter, a numeral or a mark. Letter means
one of the 26 letters of the English alphabet, written in the
form of a roman capital. Numeral means one of the ten arabic
numerals: 0,1,2,3,4,5,6,7,8 or 9. (The slash through the
zero is only for the purpose of distinguishing it from the
letter O in definitions and examples of JOVIAL.) Sign,
letter, and numeral are defined more formally by means of the
syntax equations in the boxes at the head of this section.
Mark is most easily defined by the formal means of the syntax
equation in the box above. The box above also contains a
metalinguistic term associated with each mark; this serves to
define these terms.

2.4 Symbols, The Words of JOVIAL

        primitive
        ideogram
        name
        letter:control:variable
        symbol ::=   abbreviation
        number
        constant
        comment
        directive:key
        status

.1 The symbols or words of the JOVIAL language are composed
of strings of signs, in some cases a single sign. Most
symbols do not contain spaces. In fact, spaces serve to
seperate symbols from one another.

2.5 Primitive, Ideogram, Directive:Key, Comment

```
        ABS
        ALL
        ALT     NENT
        AND     NOT
        BEGIN   NULL
        FIT     NWDSEN
        BLOCK   OR
        BY      OVERLAY
        BYTE    PROC
        DEF     PROGRAM
        DEFINE  REF
        DIRECT  REMQUO
        DSIZE   RESERVE
        ELSE    RETURN
        END     SHIFT
primitive  ::=   ENTER   SIG
        EQV     SIGNED
        EXIT    SIGNUM
        FOR     SIZE
        FORM    STATUS
        FORMAT  STOP
        FRAC    SWITCH
        GOTO    TABLE
        IF      TEST
        IN      THEN
        INT     TYPE
        ISIZE   UNTIL
        ITEM    WHILE
        JOVIAL  XOR
        LOC     XRAD
        NAME    ZAP
```

```
+
-
*
/
**
\
&
=
==
<
>
<=
>=
ideogram ::=    <>
'
,
;
:
!!
"
#
(
)
[
]
@
@@
```

```
        !COMPOOL
        !SKIP
        !BEGIN
        !END
        !TRACE
        !COPY
        !ABNORMAL
        !SETS
directive:key  ::=        !USES
        !POINTER
        !ORDER
        !RECURSIVE
        !TIME
        !SPACE
        !LINKAGE
        !INTERFERENCE
        !FREQUENCY
```

```
comment ::=  "  character    "
```

```
sign
character ::=
system:dependent:character
```

.1 Primitives may be considered the key words of the JOVIAL
language. They are generally used to give the primary
meaning of a statement or declaration, although some are used
for secondary purposes. Ideograms are generally used as
arithmetic:operators, as relational:operators, and for
purposes such as grouping, separating, and terminating.
Directive:keys are used to state the primary meanings of
directives. Comments can be used to annotate a
program:declaration--explaining to readers (and often the
original programmer) what is going on.

.2 Notice that a comment is delimited by quotation:marks.
Therefore, spaces are permitted within a comment, but a
quotation:mark is not permitted within a comment. Also, a
semicolon is not permitted within a comment. The reason for
this is to permit some recovery in case a delimiting

quotation;mark is left off a comment, If the comment were
not then terminated by the next semicolon, the entire
remainder of the program;declaration would be turned inside
out--the comments being interchanged with the statements and
declarations, Even with this rule, failure to terminate a
comment can lead to disaster, If an END is swallowed up, the
entire program structure can be disarrayed,

,3 The system;dependent;characters that can be included in
comments (and other structures) are simply those characters,
other than JOVIAL signs, that the particular system and
compiler can read and write,

,4 Notice that primitives, ideograms, and directive;keys do
not contain spaces, Spaces are significant in a
program;declaration; usually in that they separate symbols,
Comments, on the other hand, may contain spaces, This
permits easier reading and writing of the commentary, The
quotation;marks delimiting the comment provide the necessary
grouping so that the spaces do not cause trouble,

JOVIAL J73

2.6 Abbreviation, Letter:Control:Variable, Name

abbreviation := letter

letter:control:variable ::= letter


```
          letter
  letter  numeral
name  ::=
     S        S
              ,
```


.1 Abbreviations are specific letters having specific
meanings in specific contexts, usually data:declarations.
The specific uses are documented later on, usually without
calling the letter an abbreviation.

.2 The letter:control:variable is a special variable having
meaning only within a loop:statement and passing out of
existence when the loop:statement is not being executed. It
is explained more fully in connection with the explanation of
the loop:statement.

.3 Regardless of the syntax in the box above, a name must
not be the same as any primitive. Notice that a name must
include at least two signs. The use of the dollar:sign is
system dependent. That is, it provides a means whereby a
name can be designated to have some special meaning in
relation to the system in which the compiler is embedded.
Such special meanings are outside the scope of this manual,
however, and names containing dollar:signs are considered the
same as other names herein. Names do not contain spaces. An
embedded space would change a name into two names or other
symbols.

2.7 Number, Constant, Status

```
number ::= numeral


             numeric:constant
constant  ::=    pattern:constant
 character:constant


character:constant ::=    count   ' character   '


count ::= number


 integer:constant
 fixed:constant
numeric:constant ::=    floating:constant
 status:constant
 qualified:status:constant


status:constant ::= V( status )


 status:list:name
 item:name
qualified:status:constant ::= V(        table:name    :
status )
 procedure:name
 alternate:entrance:name
```

-30-

JOVIAL J73   27 AUG 74

          primitive
          status ::=   name
           letter

          ,1 The above definitions are obviously not complete, in that
          several kinds of constants mentioned in the box are not yet
          defined, This discussion is mainly concerned with the use of
          spaces together with numbers, constants, and statuses as
          symbols,

          ,2 A number is a string of numerals, without spaces, In
          some places, a number can stand alone as a constant, In
          other places, particularly data:declarations, it stands alone
          as a symbol but is not considered a constant, In other
          places, a number is part of another symbol, A case in point
          is the character:constant, defined above, The optional count
          in a character:constant is a number, (In several places,
          numbers or other constructs are given new names reminiscent
          of their uses in those places,)

          ,3 A character:constant is a symbol, If it begins with a
          count, there must be no spaces between the count and the
          first prime, Between the primes, the string of characters
          may include spaces, but these spaces are significant, They
          represent part of the value represented by the
          character:constant, (There are restrictions on the
          characters permitted in a character:constant, discussed in
          Section 2,8,2), In a status:constant and a
          qualified:status:constant, the left:parenthesis, the name,
          the colon, the status, and the right:parenthesis are all
          symbols, Spaces are permitted between these elements, but
          not within the name or the status, Space is not permitted
          between V and the left:parenthesis, All other constants are
          symbols, not containing spaces,

2.8 Constants and Values

```
     numeric:constant
constant  ::=     pattern:constant
     character:constant
```

```
character:constant  ::=    count    ' character    '
```

```
count  ::=  number
```

.1 Character:constants are the means of representing
character values to be manipulated by a program.
(Character:variables and character:formulas are indirect
means.) The characters acceptable as character values are
whatever the system will accept from among those given in the
body of Figure 2-1. At least the 59 JOVIAL signs must be
accepted. Comparison of Figure 2-1 with Section 2 of USAS
X3.4-1968, "USA Standard Code for Information Interchange",
shows the graphic characters in identical positions in the
two tables. Figure 2-1 includes eight additional columns
presently under consideration by standardization bodies. The
positions of the characters in the table are the only
correspondence. This manual does not require that internal
representation be in accordance with USAS X3.4-1968. If,
however, JOVIAL program:declarations generate messages for
transmission to other systems or process messages received
from other systems, these messages are required by other
directives to conform to USAS X3.4-1968 in their external
representation.

.2 All of the character values indicated in the body of
Figure 2-1 can be represented in character:constants (except
for system-dependent limitations). Artifices are required,
however, to represent some of the values. Any spaces within
the delimiting primes, except within a three-character code,
represent characters of value "space". Primes, semicolons,
and dollar:signs have special meanings. Therefore, in order
to represent a single occurrence of one of these signs, two
of them are used in succession. If a succession of these
signs is desired as part of the value represented by a

-32-

character:constant, the entire string is doubled. In
summary:

    2n primes are used to represent n primes,

    2n semicolons are used to represent n semicolons,

    2n dollar:signs are used to represent n dollar:signs,

        Column   0   1   2   3   4   5
   6   7   8   9   10   11   12   13
  14   15

        Column Code 0   1   2   3   4   5
   6   7   8   9   A   B   C   D
   E   F
  Row

    0   space   0   @   P
  p
    1   !   1   A   Q   a
  q
    2   "   2   B   R   b
  r
    3   #   3   C   S   c
  s
    4                       $ 4   D   T   d
  t
    5   %   5   E   U   e
  u
    6   &   6   F   V   f
  v
    7   '   7   G   W   g
  w
    8   (8   H   X   h
  x
    9   )   9   I   Y   i
  y
   10   *   :   J   Z   j
  z
   11   +   ;   K   [k
   12   ,   <   L   \   1
   13   -   =   M   ]   m
   14   .   >   N   n
   15   /   ?   O   o

Notes: row 0, column 3: zero
   row 1, column 3: one
   row 7, column 2: prime, often rendered as a vertical mark
in JOVIAL

row 12, column 6: a lowercase letter
row 15, column 4: an uppercase letter

Figure 2-1. Characters

.3 The reason for doubling the primes inside a
character:constant is that single prime terminates the
constant. The reason for doubling semicolons inside a
character:constant is the same. Although it is illegal, a
single semicolon terminates a character:constant; and for the
same reason it terminates a comment, to avoid turning the
whole program:declaration inside out if the correct
terminator is omitted. The reason for doubling dollar:signs
is that a single dollar:sign introduces the codes described
in the next two paragraphs.

.4 Any character represented in the body of Figure 2-1, if
it is acceptable at all by the system as a character value,
may be represented by a three character code beginning with a
dollar:sign. The second character is a column code from the
figure; i.e., any numeral or one of the letters from A
through F. The third character is any character from the
body of the figure that can be recognized by the compiler.
The character specified by such a code is the one at the
intersection of the column designated by the column code and
the row in which the third character is found. For example,
the percent mark can be represented by any of several three
character codes, including these two:

    $25

    $2U

.5 Within a character:constant, there is a recognition mode
for letters. Initially, the mode is "general", in which all
characters, including uppercase and lowercase letters, and
the three-character codes are recognized as described above.
The mode can be changed to "lowercase", however, by including
the two-character mode code consisting of dollar:sign
followed by uppercase or lowercase L. All letters following
such a mode code in a character:constant, regardless of the
case used, are considered to be in lowercase. The
two-character mode consisting of dollar:sign followed by
uppercase or lowercase U sets the "uppercase" mode, in which
all letters are considered uppercase. The three-character
codes pevail, without changing the mode, regardless of the
mode. Hence, the appropriate case can be specified for one
letter in a stream of letters. For example, here are four
character:constants with the value "De Gaulle":

'De Gaulle'

'DS6E GS6AS7US6LS6LS6E'

'DSLE S4GAULLE'

'SUDSLESU GSLAULLE' (none of these are ones)

,6 If the count is present in a character:constant, there
must be no spaces between the count and the first prime, and
the count gives the number of concatenated repetitions of the
character values represented within the primes, Examples:

   2'TOM' is equivalent to 'TOMTOM'

   0'*' is equivalent to '**********'

   3' ' is equivalent to '   '

,7 Notice that it is indeed the values that are repeated,
not the characters making up the constant before evaluation,
Thus, 2'TSLOM' is equivalent to 'TomTom'; it is not
equivalent to 'Tomtom',

,8 The system may impose a limit on the number of characters
in strings representable by character:constants,
character:variables, or character:formulas, The size of a
character:constant is the number of characters represented in
the value; not the number of characters between the primes,

,9 Pattern:constants directly represent values consisting of
strings of bits, (Various variables and formulas also
represent bit values,) The numeral to the left of the B in
the pattern:constant is the "order" of the constant and
controls the possible pattern:digits and affects their
meanings, These relationships are displayed in the box above
wherein pattern:digit is defined, The right column contains
the possible orders, The pattern:digits are displayed in the
center in braces, The permissible pattern:digits are only
those on the line with or above the selected order, For
example, if the pattern is of order 4, only F and the 15
pattern:digits above F are permitted as part of this
particular pattern:constant, The meaning of each
pattern:digit is given in the column on the left, but these
are also affected by the order, If the order is n, then the
n rightmost bits of each pattern represent the meanings of
the corresponding pattern:digits, The optional count gives
the number of concatenated repetitions of the pattern:digits
enclosed in primes, No spaces are permitted anywhere within
this structure,

```
                   1
                   2
patterniconstant ::=   3   B   count   *   patternidigit
                   '
                   4
                   5
```

```
    pattern        patternidigit   order

    0 0 0 0 0           0
    0 0 0 0 1           1               1
    0 0 0 1 0           2
    0 0 0 1 1           3               2
    0 0 1 0 0           4
    0 0 1 0 1           5
    0 0 1 1 0           6
    0 0 1 1 1           7               3
    0 1 0 0 0           8
    0 1 0 0 1           9
    0 1 0 1 0           A
    0 1 0 1 1           B
    0 1 1 0 0           C
    0 1 1 0 1           D
    0 1 1 1 0   patternidigit  ::=         E
    0 1 1 1 1           F               4
    1 0 0 0 0           G
    1 0 0 0 1           H
    1 0 0 1 0           I
    1 0 0 1 1           J
    1 0 1 0 0           K
    1 0 1 0 1           L
    1 0 1 1 0           M
    1 0 1 1 1           N
    1 1 0 0 0           O
    1 1 0 0 1           P
    1 1 0 1 0           Q
    1 1 0 1 1           R
    1 1 1 0 0           S
    1 1 1 0 1           T
    1 1 1 1 0           U
    1 1 1 1 1           V               5
```

.10 The meaning of a patterniconstant is the string of bits
resulting from the concatenation of the strings of bits (as

modified by the order) represented by each pattern:digit,
The size of the pattern:constant is the number of bits in the
string and may be obtained by multiplying the order times the
count (assumed to be 1 if not specified) times the number of
characters inside the primes, In the following examples, a
pattern:constant on the left is shown with the bit string it
represents on the right:

    4B'7CF03'   011111100111100000011

    3B'3120'   011001010000

    1B6'10'   101010101010

    5B2'R'   1101111011

    integer:constant
    fixed:constant
numeric:constant   ::=   floating:constant
    status:constant
    qualified:status:constant

integer:constant   ::= number

floating:constant   ::=
                    +
        number   E   scale
                    -
    number   .   M   +
    scale
                         +
            E   scale
                         -
    number   .   number

scale   ::= number

    fixed:constant ::=
       number   .
                                    +   +
                     E   scale   A
       scale
                         -                 -
       number   ,   number

    status:constant ::= V(status)

    primitive
    status ::=   name
    letter

    status:list:name
    item:name
    qualified:status:constant ::= V(table:name   :
    status)
    procedure:name
    alternate:entrance:name

.11 Numeric:constants represent numeric values, (There are
also numeric:variables and numeric:formulas,)
Numeric:constants, as well as numeric:variables and
numeric:formulas, are described in terms of their three
possible modes of representation; as integer values, fixed
values, and floating values, The compiler may represent
constants in modes other than those indicated by the
program:declaration; as long as the overall effect of the
program:declaration is not compromised, (This principle
applies in general; i,e,, the compiler can do things
differently as long as the result is the same,) Suppose, for
example, an integer:constant is used in a context that
requires it to be converted to a floating value, It is far
more efficient for that conversion to be done once, at
compile time, instead of each time the code is executed,

-38-

.12 An integer value is a numeric value represented as a whole number without a fractional part, but treated as if it had a fractional part with value zero to infinite precision. In this manual, precision means the number of bits to the right of the point in binary representations of numeric values. A number used as an integer:constant represents an unsigned integer value. The size of an integer:constant is the number of bits needed to represent the value; from the leading one bit to the units position, inclusive (value zero has size 1). No spaces are permitted in an integer:constant. The system may impose a limit on sizes of integer values.

.13 Floating values (v) are represented within the computer by three parts, the significand (s), the radix (r), and the exrad (e), having the following relationships (with regard to the absolute value):

$v = s \times r$

$s = 0$ or $m < s < m \times r$

.14 The radix (r) and the minimum value (m) are fixed in any system. Therefore, only the significand and the exrad are saved as representations of a floating value. For a negative value (not a constant), a minus sign is also saved with the significand. Regardless of the system values of r and m, we assume that $r = 2$ and m is one-half. The language permits inquiry into the values of significands and exrads based on the radix and minimum of these values. Therefore, with respect to value, internal representation of floating values exhibits (so far as the programmer can see from results) the relationships:

$v = s \times 2$

$s = 0$ or $1/2 < s < 1$

.15 Floating:constants are written with the assumption that, externally, $r = 10$, and there is no m. Thus, the value of a floating:constant is given as:

$v = s \times 10$

.16 A floating:constant must not contain any spaces. In the syntactic equation for a floating:constant, the number (or numbers) and the decimal:point (if present) give the value of the external significand. The scale (with or without its plus:sign or minus:sign) following E gives an exrad (exponent of the radix) to be used as a power of ten multiplier. If the exrad is zero, it and the E can be omitted. To be a floating:constant, the symbol must contain a decimal:point,

or a scale as exrad, or both, It must not contain an A; that
would make it a fixed:constant,

.17 A floating:constant can contain information relating to
the precision of its internal representation, The scale
following M gives the minimum number of magnitude bits in the
significand of the internal representation, In most systems,
there are one or two modes of representation of floating
values, If the scale following M is greater than the maximum
number of magnitude bits in any of the system-dependent modes
of representing floating values, the floating:constant is in
error, Otherwise, the compiler chooses the mode with the
smallest number of magnitude bits in the significand at least
as large as the scale following M, If there is a choice of
exrad size also, the compiler chooses one that can encompass
the value of the floating:constant, These sizes are based on
the numbers of bits in the actual representations, not on
what may be a fictional assumption that the radix is 2, If
the M and its following scale are omitted, the compiler
chooses its normal mode of floating representation or one
that can contain the value,

.18 A fixed value is an approximate numeric value, Within
the computer, it is represented as a string of bits with an
assumed binary point within or to the left or right of the
string, The number of bits in the string, not counting a
sign bit if there is one, is the size of the fixed value,
The number of bits after the point (positive or negative,
larger or smaller than the size) is the precision of the
fixed value,

.19 A fixed:constant is seen, in the syntactic equation
above, to be an integer:constant or a floating:constant
(without an M and its scale) followed by the letter A and a
scale, The A and its scale are essential to make the form a
fixed:constant, Spaces are not allowed anywhere within a
fixed:constant, All that precedes the A determines the value
of the fixed:constant (which may then be truncated on the
right), The scale after the A tells how many bits there are
after the point, (If the scale is negative, the bits don't
even come as far to the right as the point), The size of the
constant is the number of bits from the leftmost one-bit to
the number after the point as specified by the scale after A,
inclusive, Here are some fixed:constants, their values,
their sizes, and their precisions:

-40-

JOVIAL J73   27 AUG 74

fixed:constant		value size		precision
19A0	19	5		0
19A3	19	8		3
19A-2	16	3		-2
2,3A0	2	2		0
2,3A-1	2	1		-1
2,3A2	2,25	4		2
2,3a5	2,28125		7	5
2,3A6	2,96875		8	6

,20 No spaces are permitted within a fixed:constant, The
system may impose a size limitation on fixed values,

,21 Integer:constants, floating:constants, and
fixed:constants cannot have embedded spaces and cannot have
negative values, Both of these characteristics are changed
for status:constants and qualified:status:constants, In
status:constants and qualified:status:constants, there must
be no spaces within the status, within the qualifying name,
or between the V and the left:parenthesis, There may be
spaces elsewhere within such constants,

,22 Status:constants and qualified:status:constants
represent constant integer values, How they become
associated with these values and how they may be used are
explained elsewhere, In distinction to integer:constants,
which can only stand for zero and positive integer values,
status:constants and qualified:status:constants can also
stand for unvarying negative integer values,

2,9 Computer Representation of Constants and Variables

JOVIAL is designed to be compatible with binary computers,
machines in which numeric and other values are represented as
strings of binary digits, ones and zeros, The bits (binary
digits) of a computer are organized in a hierarchical structure,
A compiler may impose a different structure on the computer, but
for reasons of efficiency it usually adopts a structure
identical to or at least compatible with the structure of the
machine, The structure discussed in this section is the system
structure; i,e,, the structure presented to the programmer by
the combination of a particular computer and a particular JOVIAL
compiler that produces object code for that computer,

,1 JoVIAL program:declarations are not completely
independent of the system, The extent of dependence,
however, is related to the use of certain language features,

Dependence is increased by the use of features, such as
pattern:constants and BIT, that relate to bit representation
or those, such as LOC, that relate to system structure. The
value of a pattern:constant is completely independent of the
system, but its use implies knowledge of the representation
of other data. It is that knowledge, built into te
program:declaration, that is system dependent.

.2 Even if such deliberate system dependence is avoided, the
programmer must still have knowledge of structure and
representation in his system so that he may know the
limitations on precision, how his tables must be structured,
and how to avoid gross inefficiencies. For example, in
processing long strings of character data, it is often much
faster to examine and manipulate them in word-size, instead
of byte-size, hunks.

.3 A "byte" is a group of bits often used to represent one
character of data. The number of bits in a byte is system
dependent. Although JOVIAL permits some leeway in
positioning bytes, there are usually preferred positions.
When referring to these preferred positions, we often use the
term "byte boundary".

.4 A "word" is a system-dependent grouping of bits
convenient for describing data allocation. Entries and
tables are allocated in terms of words. Data are overlaid in
terms of words. The maximum sizes of numeric values may, but
need not, be related to words. Word boundaries usually
correspond to some of the byte boundaries.

.5 The "basic addressable unit" is the group of bits
corresponding to each machine location. In many machines,
the basic addressable unit is the word. In others, it is the
byte. If it is the word, each value of the location counter
refers to a unique word. If the basic addressable unit is
the byte, each location value refers to a unique byte. In
these latter circumstances, it often happens that adresses
are somewhat restricted. For instance, it may be permitted
to refer to a string of characters starting in any byte, or
to double-precision floating values starting only in bytes
with locations divisible by 8.

.6 Integer and fixed values are represented in binary as
strings of bits. The number of bits used to represent the
magnitude of a value is known as its size and is (in most
cases) under the control of the programmer. The position of
the binary point is understood and takes up no space. For
signed values, the sign bit is an additional bit not counted
in the size of the value. For purposes of the use of BIT,
the sign bit is considered to lie just to be left of the most
significant bit accounted for by the size of the value. The

maximum permissible size of an integer or fixed value is
system dependent, The maximum size of a signed integer or
fixed value is one less than this system-dependent size and
the places where unsigned values of maximum size may be used
are restricted; i,e,, they must not be used in conjunction
with any arithmetic:operators, nor with the four nonsymmetric
relational:operators <, >, <=, >=, and when used with the
symmetric relational:operators (= and <>) the other operand
must not be signed,

,7 The compiler determines the sizes of constants, The
programmer usually supplies the sizes of variables, The size
does not include the sign bit for signed data, For unpacked
or medium packed data, there may be more bits in the space
allocated for an item than are specified by the programmer,
whether or how these extra bits are used is system dependent,
but in any case they are known as "filler bits", The sign
bit, if there is one, and any filler bits are to the left of
the magnitude bits, It depends on the system whether the
sign bit is to the left or right of the filler bits,

,8 The meanings of bit values 0 and 1 are not stipulated,
but in most implementations 0 stands for 0 and 1 for 1 in
positive values, For negative values, there is considerable
variation, All the following are known and acceptable
representations of -12 in an unpacked, signed, integer item
declared to be four bits long:

                11111111111111111111111111111111111111111110011

                    100000000000000000000000000000001100

                            10100

,9 Floating values are represented by two numbers, both
signed, The significand contains the significant digits of
the value and the exrad is the exponent of the understood
radix, Each system has a standard mode of representing
floating values, known as "single precision", with a
specified number of bits in the significand and a specified
number in the exrad, Many systems have one or a few
additional modes in which there are more bits in the
significand, the exrad, or both, If there is more than one
mode, the programmer can usually choose the mode for each
floating value, In the absence of an indication of such
choice, the compiler will usually choose single precision,
The radix is an implicit constant having a system-dependent
value,

,10 Character values are represented by strings of bytes,
each byte consisting of a string of bits, The number of bits
in a byte is system dependent, The number of bytes used to

represent a character value is under control of the
programmer, but there is a system-dependent maximum,

.11 A character item that fits in one word is always stored
in one word, by the compiler, By use of a
specified:table;declaration, the programmer may override this
rule, If it is not densely packed, a character item always
starts at a byte boundary, If it crosses a word boundary, a
character item always starts at a byte boundary, The
programmer must not attempt to override this rule,

.12 An entry variable whose relevent table;declaration does
not describe it as being of some other type is a bit
variable, It is merely the string of bits, of a size
corresponding to the number of words in an entry,
representing the entry,

2,10 Spaces, Comments

The syntactic structures of all symbols have now been explained,
as well as the places where spaces are permitted or prohibited
within them, All further structures that go to make up a
program;declaration are composed of strings of symbols, It is
always permitted to place one or more spaces between symbols,
It is sometimes required to put at least one space between
symbols, The criterion is to avoid ambiguity, Comments can
often replace required spaces,

.1 Spaces are required in many situations to enable the
compiler to detect the end of one symbol and the beginning of
the next, Generally, at least one space is required between
two symbols of any class except ideograms, but including the
quotation;mark, The rule is exhibited in detail in the
following table, The rows are labelled with the ending signs
of the left symbol of a pair of symbols, The columns are
labelled with the beginning signs of the right symbol of a
pair, "SR" at the intersection of row and column indicates
that at least one space is required between the pair of
symbols;

Left symbol ends in	Right symbol starts with:

Left symbol ends in	numeral	letter	$	'	.	"
numeral		SR		SR	SR	SR
SR						
letter		SR		SR	SR	SR
$	SR		SR	SR	SR	
'	SR		SR	SR	SR	
.	SR		SR			

-44-

JOVIAL J73   27 AUG 74

"
SR

.2 A comment may occur between symbols. However, it must
not occur within a definition nor within any constant, such
as a status:constant or a character:constant. A comment may
be used instead of the required space between symbols unless
use of the comment would cause the occurrence of two
quotation:marks in succession. In fact, only the use of a
comment can bring about the situation indicated by the lower
right corner of the table above. Introduction of a comment
between symbols where a space is permitted but not required
may then require a space to prevent the comment from
interfering with another symbol.

.3 A comment must not be used where the next structure
required or permitted by the syntax is a definition. That
is, a comment must not follow the define:name or a
right:parenthesis in a define:declaration. And a comment
must not follow a left:parenthesis or a comma in a
definition:invocation. A comment, as defined above, must not
occur in a definition delimited by quotation:marks.

*****************EQUATIONS*****************

Appendix A

SYNTAX EQUATIONS

The following pages contain the complete syntactic description
of JOVIAL (J73), The metalinguistic equations are in
alphabetical order of the metalinguistic terms being defined,
In general, each defining equation is individually boxed, The
boxes are nubered sequentially in the upper left hand corner by
a number in italics followed by a colon, Following the colon is
a list of the box numbers in which the current term is used as a
part of the definitions of other terms, The metalinguistic
symbology is explained in section 1,4,

Equations 94 and 95 are in one box, These are both valid and
necessary definitions for format:list, Equation 144 is the
definition for mark, In the same box, opposite each mark is a
metalinguistic term (or two), These marks constitute the
definitions of these terms, Equation 172 defines pattern:digit,
In the same box is information giving the bit patter
corresponding to each pattern:digit, depending on the order of
the pattern:constant, In the box with equation 190, the
definition of relational:operator, is a list of the meanings of
the relational:operators, Box 234 contains a definition for
system:dependent:character, but the definition is a prose
description; a metalinguisitic equation is not feasible,
Equations 247 and 248 are in one box, They are both valid and
necessary definitions for variable,

1:      233

    abbreviation := letter

2:      63

    abnormal:directive ::= |ABNORMAL data:name   ;

3:      130

    absolute:function:call ::= ABS (numeric:formula)

4:   58, 170

        definition
    actual:define:parameter ::=
        " definition "

5:      101, 170, 180, 191

        STOP
                    alternate:entrance:name
        RETURN
                    procedure:name
        TEST   control:variable
        EXIT   statement:name
    actual:input:parameter ::=
        statement:name
        procedure:name
        formula
        table:name
        data:block:name
        variable
        @ pointer:formula

6:      170, 180, 191

    actual:output:parameter ::= variable

7:      166,217

    allocation:increment ::= number

8:      9, 49, 166, 182, 205, 217

    allocation:specifier ::= @ pointer:formula

9:      75, 184

    alternate:entrance:declaration ::=
        ENTER   alternate:entrance:name

                 (formal:input:parameter

                 ; formal:output:parameter   )

                 environmental:specifier
                     item:description
                 allocation:specifier

                 packing:specifier   [bit:number]

                 =   +   constant   ;
                        •

10:     130

    alternate:entrance:function:call ::= ALT (
    procedure:name   )

11:     5, 9, 53, 101, 122, 138, 180, 187, 193

    alternate:entrance:name ::= name

    12:    159

           +
           -
           *
    arithmetic:operator   ::=
           /
           \
           **

    13:

    assignment:operator   ::=   =

    14:    207

    assignment:statement   ::=
                   formula
            variable   indexed:variable:range   ;
            indexed:variable:range =
                   format:function:call

                   formula
      format:variable   =   ;
                   indexed:variable:range

    15:    159

    attribute:association   ::= @@ [description:attibute]

    16:    63

    begin:directive   ::= |BEGIN   reference   ;

17:      18

    bit:form ::=   form

18:     18, 29, 97, 159, 196

            pattern:constant
            entry:variable
            comparison
            chain:comparison
            bit:string:function:call
            shift:function:call
    bit:formula ::=   bit:form
            bit:formula logical:operator bit:formula
            NOT bit:formula
            bit:formula & bit:formula
            (bit:formula)
            numeric:formula
            character:formula

19:     9, 182, 205, 217, 218

    bit:number ::= number

20:     18, 130

    bit:string:function:call ::=
        BIT (formula , numeric:formula ,
        numeric:formula)

21:    247

    bit:variable ::=
        entry:variable
        BIT (named:variable , numeric:formula   ,
        numeric:formula   )

22:    217

    bits:per:entry ::= number

23:    130

    byte:string:function:call ::=
        BYTE (character:formula , numeric:formula   ,
    numeric:formula   )

24:    18

    chain:comparison ::= comparison   relation:operator
    formula

25:    26, 32, 46, 62, 100, 112, 120, 137, 213, 234, 240

        sign
    character ::=
        system:dependent:character

26:    29, 39

    character:constant ::=   count   ' character   '

27:    29

    character:form ::= form

28:    29

    character:format ::=   count   C

29:    18, 23, 93, 94, 97

```
        character:constant
        character:variable
        character:form
character:formula  ::=       character:function:call
        character:formula  &  character:formula
        (  character:formula  )
        bit:formula
```


30:    29

    character:function:call := function:call

31:    29, 96, 247

            named:character:variable
    character:variable ::=   BYTE (
    named:character:variable , numeric:formula

        , numeric:formula   )

32:    233

    comment ::= " character   "

33:    18, 24

    comparison ::= formula relational:operator formula

34:    63

    compool:directive ::=
                    name
        compool:name
        :COMPOOL   (name)   ;

                    (compool:name)

35:    34

    compool:name ::= name

36:     219

            declaration
        compound:statement ::= BEGIN   END   ;
            statement

37:     38, 97, 238, 241

        conditional:formula ::= formula

38:     207

        conditional:statement ::=
            IF conditional:formula ; controlled:statement

                statement:name :   ELSE controlled:statement

39:     9, 42, 182, 205, 233

            numeric:constant
        constant ::= pattern:constant
            character:constant

40:     97

        constant:formula ::= (formula)

    41:    166, 167, 217, 218

        constant:list ::=

            [index]   constant:list:element

                [index]
                  constant:list:element
                        ,

    42:    41, 42

                    +
             ,   =   constant   ,
    constant:list:element ::=
             count (constant:list:element)
             constant:list:element

    43:    136, 148

            increment:phrase   terminator:phrase
            replacement:phrase
    control:clause ::=   initial:phase
                    increment:phrase
            terminator:phrase   replacement:phrase

    44:    5, 239

            named:variable
      control:variable ::=
            letter:control:variable

45:    38, 141

controlled:statement ::= statement

46:    63

copy:directive ::= COPY character   ;

47:    26, 28, 42, 72, 78, 95, 98, 103, 120, 124, 126, 171,
173, 199

count ::= number

48:    182

data:allocator:specifier ::= @

49:    49, 51, 75

data:block:declaration ::=

                environmental:specifier
        BLOCK data:block:name   ;
                allocation:specifier

                simple:item:declaration
                table:declaration
        BEGIN   END   ;
                data:block:declaration
                independent:overlay:declaration

50:     5, 49, 52, 90, 109, 138, 209

    data:block:name ::= name

51:     54

        item:declaration
        table:declaration
    data:declaration ::=
        data:block:declaration
        overlay:declaration

52:     2, 129, 174, 195, 244

        item:name
    data:name ::=   table:name
        data:block:name

53:     130

        procedure:name
    data:size:function:call ::= DSIZE (   )
        alternate:entrance:name

54:     36, 54, 112, 179

```
        status:list:declaration
        form:declaration
        data:declaration
        null:declaration
declaration  ::=        define:declaration
        name declaration
        processing:declaration
        external:declaration
        BEGIN declaration    END ;
```

55:     54

```
define:declaration  ::=
DEFINE define:name    ( formal:define:parameter    )    "
definition ";
```

56:     55, 58

```
define:name  ::=  name
```

57:     4, 55

```
definition  ::=  sign
```

58:

```
definition:invocation  ::=  define:name    (
actual:define:parameter    )
```

59:    185

   dependent:program:declaration ::= procedure:declaration

60:    15, 69

      item:name
   description:attribute ::=
      item:description

(equ61)

   61:    166, 217

   dimension:list ::= [lower:bound :   upper:bound
   ]

   62:    207

   direct:statement ::= DIRECT character   JOVIAL   :

63:

```
         compool:directive
         skip:directive
         begin:directive
         end:directive
         trace:directive
         copy:directive
         abnormal:directive
         sets:directive
directive  ::=        uses:directive
         pointer:directive
         order:directive
         recursive:directive
         time:directive
         space:directive
         linkage:directive
         interference:directive
         frequency:directive
```

64:     233

```
         |COMPOOL
         |SKIP
         |BEGIN
         |END
         |TRACE
         |COPY
         |ABNORMAL
         |SETS
directive:key  ::=     |USES
         |POINTER
         |ORDER
         |RECURSIVE
         |TIME
         |SPACE
         |LINKAGE
         |INTERFERENCE
         |FREQUENCY
```

65:    63

    end:directive ::= |END ;

66:    217

    entries:per:word ::= number

67:    18, 21, 117, 252

    entry:variable ::= table:name [index   ]   @
    pointer:formula

68:    9, 49, 166, 182, 205, 217

                    program:name
            IN   procedure:name
    environmental:specifier ::=   RESERVE

        RESERVE

69:    159

    evaluation:control ::= @ [description:attribute]

70:    207

    exchange:statement ::= variable == variable ;

71:    207

exit:statement ::= EXIT statement:name ;

72:    82

                        count   D   count   Z

              +
exrad ::=   count   Z   count   D
              -

                        count   Z   *

73:    130

exrad:function:call ::= XRAD (numeric:formula)

74:    132

exrad:specifier ::= number

75:    54

```
external:declaration  ::=
                simple:item:declaration
                table:declaration
                data:block:declaration
                name:declaration
       DEF               procedure:declaration
                alternate:entrance:declaration
       REF               simple:item:declaration
                table:declaration
           BEGIN    data:block:declaration  END     ;
                name:declaration
                procedure:declaration
                alternate:entrance:declaration
```

76:    87

```
field:width  ::=  number
```

77:    157

```
fixed:constant  ::=
   number      .
                                +                  +
                E         scale     A
       scale
                            =                  =
   number      .    number
```

78:    158

```
                              *        count    D
                  integer:part
                              ,        fraction:part

            +
   fixed:format   ::=            integer:part
   count    *    R
            -

                  count     *
                                       fraction:part
                       ,
```

79:    160

   fixed:function:call ::= function:call

80:    162

   fixed:variable ::= named:variable

81:    157

```
   floating:constant  ::=
               +
          number    E           scale
               -
          number    ,                           M    +
          scale
                              +
                    E              scale
                              -
          number    ,    number
```

82:    158

   floating:format ::= significand E exrad   R

83:    162

   floating:function:call ::= function:call

84:    162

   floating:variable ::= named:variable

85:    141

   for:clause ::= FOR loop:control   ;

86:    17, 27

   form ::= form:name (formula   )

87:    54

         B
   form:declaration ::= FORM form:name
   field:width   ;
         C

88:    86, 87

    form:name ::= name

89:    55, 170
    formal:define:parameter ::= letter

90:    9, 170, 182

            statement:name
            simple:item:name
    formal:input:parameter ::= procedure:name
            table:name
            data:block:name

91:    9, 170, 182

    formal:output:parameter ::= simple:item:name

92:    95

            null:format
            insert:format
    format ::= skip:format
            character:format
            pattern:format
            numeric:format

        93:     14, 130

            format:function:call ::=

                FORMAT (character:formula   ,   format:list
                , procedure:name   )

        94:     93, 95, 96

            format:list ::= character:formula

        95:     93, 95, 96

                    format
            format:list ::=
                    count (format:list)

        96:     14, 102, 247

            format:variable ::=

                FORMAT (character:variable   ,   format:list
                , procedure:name   )

97:    5, 14, 20, 24, 33, 37, 40, 86, 119, 159, 192, 203,
209, 242, 245

```
          pointer:formula
          numeric:formula
          bit:formula
formula  ::=  conditional:formula
          character:formula
          value:formula
          numeric:formula
          constant:formula
```

98:    78

```
          count    D              count    Z

     fraction:part  ::=

          count    D
```

99:    130

```
     fraction:part:function:call  ::=  FRAC ( numeric:formula
     )
```

,Grab=n;

100:   65

```
     frequency:directive  ::=  !FREQUENCY  character     ;
```

101:    30, 79, 83, 125

        intrinsic:function:call

    procedure:name
    function:call ::=   @ pointer:formula
        alternate:entrance:name

            (actual:input parameter   )

103:    248

        format:variable
        BYTE (named:character:variable ,
    numeric:formula

    functional:variable ::=   , numeric:formula
)
        BIT (named:variable , numeric:formula

            , numeric:formula   )

103:    158

    generalized:numeric:formula ::=   count   N   R

104:    207

    go:to:statement ::=   GOTO   statement:name   [
    index   ]   ;

```
105:   115

high:point  ::=  numeric:formula




106:   233

           +
           -
           *
           /
           **
           \
           &
           =
           ==
           <
           >
           <=
           >=
ideogram  ::=  <>
           .
           '
           ;
           :
           :;
           "
           #
           (
           )
           [
           ]
           @
           @@




107:   43

       numeric:formula
increment:phrase  ::=  BY
       numeric:value:formula
```

108:   49, 168

      independent:overlay:declaration ::=
        [number]
    OVERLAY   independent:overlay:expression ;
        [pattern:constant]

109:   111

      spacer
      simple:item:name
    independent:overlay:element ::=   table:name
      data:block:name
      (independent:overlay:expression)

110:   108, 109

   independent:overlay:expression ::=
     independent:overlay:string   :
     independent:overlay:string

111:   110

   independent:overlay:string ::=
   independent:overlay:element

112:   185

   independent:program:declaration ::=
     statement
     PROGRAM program:name   (character   )   ;
     declaration

113:   41, 67, 104, 237

   index ::= index:component

114:   113, 116

   index:component ::= numeric:formula

115:   116

   index:component:range ::=   low:point   :   high:point

116:   118, 155

         index:component:range
   index:range ::=
         index:component

117:   150

         table:variable
   indexed:variable ::=
         entry:variable

118:   14

    indexed:variable:range   ::=

            item:name
                            [index]   @ pointer:formula
            table:name

                item:name
        ALL (@ pointer:formula   )
                table:name

119:   43

    initial:phrase ::= formula

120:   92

            count   S

                numeral
    insert:format   ::=   count   /
                letter

        count   " character   "

121:   182

    instruction:allocation:specifier ::= pointer:formula

122:    130

         procedure:name
    instruction:size:function:call ::= ISIZE ( )
         alternate:entrance:name

123:    157, 175

    integer:constant ::= number

124:    158

                      count   Z   count   D

               +
    integer:format ::=   R
               -

                      count   D   count   Z

125:    160

    integer:function:call ::= function:call

126:   78

            count   Z   count   D
        integer:part ::=
            count   D

127:   130

        integer:part:function:call ::= INT (numeric:formula)

128:   162

            named:variable
        integer:variable ::=
            letter:control:variable

129:   63

        interference:directive ::= !INTERFERENCE   data:name :
        data:name   :

130:    101

              format:function:call
              byte:string:function:call
              bit:string:function:call
              alternate:entrance:function:call
              number:of:entries:function:call
              location:function:call
              shift:function:call
              absolute:function:call
              words:per:entry:function:call
    intrinsic:function:call ::= exrad:function:call
              significand:function:call
              signed:function:call
              signum:function:call
              size:function:call
              type:function:call
              fraction:part:function:call
              integer:part:function:call
              instruction:size:function:call
              data:size:function:call

131:    51
              simple:item:declaration
    item:declaration ::= ordinary:table:item:declaration
              specified:table:item:declaration

132:    9, 60, 166, 167, 182, 205, 217, 218

    item:description ::=

        C   size:specifier

        F , R   significand:specifier   ,
        exrad:specifier

                     status:list
        S   status:list:name
             , R   size:specifier
                         +
        U   ,   precision:specifier
                            -

133:   52, 60, 118, 167, 187, 205, 218, 229, 237,

item:name ::= name

134:   1, 89, 120, 135, 136, 145, 197, 221

```
                A
                B
                C
                D
                E
                F
                G
                H
                I
                J
                K
                L
letter ::=      M
                N
                O
                P
                Q
                R
                S
                T
                U
                V
                W
                X
                Y
                Z
```


135:   44, 128, 233, 248

letter:control:variable ::= letter

136:   140

   letter:loop:control ::= letter (control:clause   )

137:   63

   linkage:directive ::= !LINKAGE   character   ;

138:   130

        statement:name
        named:variable
   location:function:call ::= LOC (table:name   )
        data:block:name
        procedure:name
        alternate:entrance:name

139:   130

        AND
        OR
   logical:operator ::=
        EQV
        XOR

140:   85

        named:loop:control
   loop:control ::=
        letter:loop:control

141:    207
    loop:statement ::= for:clause contolled:statement

142:    115

    low:point ::= numeric:formula

143:    61

            number
    lower:bound ::=
            simple:item:name

144:    197

            +   plus:sign
            -          minus:sign
            *   asterisk
            /   slash
            \   back:slash
            &   ampersand
            >   greater:than:sign
            <   less:than:sign
            =   equals:sign
            @   at:sign
    mark ::=   .   decimal:point
            :   colon
            ,   comma
            ;   semicolon
                       space
            (left:parenthesis, parenthesis
)   right:parenthesis, parenthesis
            [left:bracket, bracket
            ]   right:bracket, bracket
            '   prime
            "   quotation:mark
            $ dollar:sign
            !   exclamation:point

145: 11, 34, 35, 50, 56, 88, 133, 183, 186, 206, 220, 221,
225, 233, 236, 241

```
                        letter
                letter  numeral
        name  ::=
                   $         $
                             ,
```

146: 54, 75

```
              statement:name
        name:declaration  ::=  NAME              ;
              procedure:name
```

147: 31, 102

```
        named:character:variable  ::=  named:variable
```

148: 140

```
        named:loop:control  ::=  named:variable  (  control:clause
        )
```

149: 219

```
        named:statement  ::=  statement:name  ;  statement
```

150:   21, 44, 80, 84, 102, 128, 138, 147, 148

            simple:variable
     named:variable ::=
            indexed:variable

151:   54, 164, 215

       NULL   ;

   null:declaration ::=

       BEGIN   END   ;

152: 92

   null:format ::=

153: 219

       NULL   ;

   null:declaration ::=

       BEGIN   END   ;

154:   7, 19, 22, 47, 66, 74, 76, 77, 81, 108, 123, 143, 169,
    177, 189, 194, 201, 210, 214, 223, 232, 233, 243, 249, 250

   number ::= numeral

155:    130

    number:of:entries:function:call ::= NENT (table:name
    [index:range]   )

156:    120, 145, 154, 197

                    0
                    1
                    2
                    3
    numeral ::= 4
                    5
                    6
                    7
                    8
                    9

157:    39, 159

            integer:constant
            fixed:constant
    numeric:constant ::= floating:constant
            status:constant
            qualified:status:constant

158:    92

            generalized:numeric:format
            integer:format
    numeric:format ::=
            fixed:format
            floating:format

159:    3, 18, 20, 21, 23, 31, 73, 97, 99, 102, 105, 107, 114,
127, 142, 159, 161, 175, 196, 198, 200, 202, 232

            numeric:constant
            numeric:variable
            numeric:function:call
               +
                    numeric:formula
               =

    numeric:formula ::= numeric:formula arithmetic:operator

            evaluation:control   numeric:formula
                evaluation:control
        formula
                attribute:association
        (numeric:formula)
        bit:formula

    160:    159

            integer:function:call
    numeric:function:call ::=   fixed:function:call
            floating:function:call

    161:    97, 107

    numeric:value:formula ::= [numeric:formula]

    162:    159, 176, 247
            integer:variable
    numeric:variable ::= fixed:variable
            floating:variable

163:    63

    order:directive ::= |ORDER ;

164:    165

        null:declaration
        ordinary:table:item:declaration

    ordinary:table:body ::=
                ordinary:table:item:declaration
        BEGIN   END   ;
                subordinate:overlay:declaration

165:    235

    ordinary:table:declaration ::= ordinary:table:heading
    ordinary:table:body

166:    165

    ordinary:table:heading ::=
         environmental:specifier
        TABLE   table:name
         allocation:specifier

        : allocation:increment   dimension:list

        structure:specifier   packing:specifier

        item:description   = constant:list   ;

167:    131, 164

    ordinary:table:item:declaration ::=

        ITEM item:name   item:description
        packing:specifier

            = constant:list   ;

168:    51

                independent:overlay:declaration
        overlay:declaration ::=
                subordinate:overlay:declaration

169:    9, 166, 167, 182, 205, 217, 218

                        N

    packing:specifier ::=   M   number

                        D

170:

            actual:define:parameter
            formal:define:parameter
    parameter ::=   actual:input:parameter
            formal:input:parameter
            actual:output:parameter
            formal:output:parameter

171:    18, 39, 108

                    1
                    2
        pattern:constant ::= 3   B   count   ʼ   pattern:digit
        ,
                    4
                    5

172:    171

            pattern   pattern:digit   order

        0 0 0 0 0   0
        0 0 0 0 1   1   1
        0 0 0 1 0   2
        0 0 0 1 1   3   2
        0 0 1 0 0   4
        0 0 1 0 1   5
        0 0 1 1 0   6
        0 0 1 1 1   7   3
        0 1 0 0 0   8
        0 1 0 0 1   9
        0 1 0 1 0   A
        0 1 0 1 1   B
        0 1 1 0 0   C
        0 1 1 0 1   D
        0 1 1 1 0   pattern:digit ::=   E
        0 1 1 1 1   F   4
        1 0 0 0 0   G
        1 0 0 0 1   H
        1 0 0 1 0   I
        1 0 0 1 1   J
        1 0 1 0 0   K
        1 0 1 0 1   L
        1 0 1 1 0   M
        1 0 1 1 1   N
        1 1 0 0 0   O
        1 1 0 0 1   P
        1 1 0 1 0   Q
        1 1 0 1 1   R
        1 1 1 0 0   S
        1 1 1 0 1   T
        1 1 1 1 0   U
        1 1 1 1 1   V   5

173:   92

```
               1
               2
pattern:format  ::=  3        B        count     P
               4
               5
```

174:   63

```
pointer:directive  ::=  !POINTER   pointer:formula  :
data:name          ;
```

175:   5, 8, 67, 97, 101, 118, 121, 174, 180, 208, 237

```
        integer:constant
pointer:formula  ::=  simple:integer:variable
        ( numeric:formula )
```

176:   247

```
pointer:variable  ::=  numeric:variable
```

177:   132

```
precision:specifier  ::=  number
```

178:   221, 233

```
        ABS
        ALL
        ALT     NENT
        AND     NOT
        BEGIN   NULL
        FIT     NWDSEN
        BLOCK   OR
        BY      OVERLAY
        BYTE    PROC
        DEF     PROGRAM
        DEFINE  REF
        DIRECT  REMQUO
        DSIZE   RESERVE
        ELSE    RETURN
        END     SHIFT
primitive ::=            ENTER   SIG
        EQV     SIGNED
        EXIT    SIGNUM
        FOR     SIZE
        FORM    STATUS
        FORMAT  STOP
        FRAC    SWITCH
        GOTO    TABLE
        IF      TEST
        IN      THEN
        INT     TYPE
        ISIZE   UNTIL
        ITEM    WHILE
        JOVIAL  XOR
        LOC     XRAD
        NAME    ZAP
```

179:   181

```
        declaration
procedure;body ::=
        statement
```

180:    207

  procedure:call:statement   ::=

    remquo:procedure:call:statement

      procedure:name
              @ pointer:formula
      alternate:entrance:name

        (actual:input:parameter   )

        (actual:input:parameter   :   :

        actual:output:parameter   )

181:    59, 75, 184

  procedure:declaration ::= procedure:heading
  procedure:body

182:    181

  procedure:heading ::=

                      environmental:specifier
  PROC procedure:name
                      data:allocation:specifier

    : instruction:allocation:specifier

    (formal:input:parameter   :
    formal:output:parameter   )

      environmental:specifier
            item:description
      allocation:specifier

    packing:specifier   [bit:number]

      +

```
        =           constant      ;
        =
```

183:   5, 10, 53, 68, 90, 96, 101, 122, 138, 146, 180, 182,
167, 193

```
    procedure:name  ::=  name
```

184:   54

```
        program:declaration
processing:declaration  ::=  procedure:declaration
        alternate:entrance:declaration
```

185:   184

```
        independent:program:declaration
program:declaraton  ::=
        dependent:program:declaration
```

186:   68, 112

```
    program:name  ::=  name
```

187:   157

```
        status:list:name
        item:name
qualified:status:constant  ::=  V(    table:name     :
status )
        procedure:name
        alternate:entrance:name
```

188: 63

    recursive:directive ::= |RECURSIVE |

189: 16, 211

    reference ::= number

190: 24, 33, 246

            <   less than
            =   equal
            >   greater than
    relational:operator ::=
            >=   greater than or equal, not less than
            <>   less than or greater than, not equal
            <=   less than or equal, not greater than

191: 180

    remquo:procedure:call:statement ::=
        REMQUO (actual:input:parameter   ,
        actual:input:parameter
            : actual:output:parameter   ,
            actual:output:parameter) ;

192: 43

            formula
    replacement:phrase ::= THEN
            value:formula

193: 207

```
          procedure:name
  return:statement  ::=  RETURN ;
          alternate:entrance:name
```

194: 77, 81

```
  scale  ::=  number
```

195: 63

```
  sets:directive  ::=  |SETS  data:name    |
```

196: 18, 130

```
  shift:function:call  ::=  SHIFT ( bit:formula  ,
  numeric:formula  )
```

197: 25, 57, 234

```
          letter
  sign  ::=     numeral
          mark
```

198:    18, 130

signed:function:call ::= SIGNED (numeric:formula)

199:    82

```
                        count    D        ,      count    D
        count    Z

                        count    D        ,      count    D

                        count    D        ,

            +
significand ::=
            -

                        count    D        *      count    D

                        count    *      count    D

                        count    D      count    *
```


200:    130

significand:function:call ::= SIG (numeric:formula)

201:    132

significand:specifier ::= number

202:    130

signum:function:call ::= SIGNUM (numeric:formula)

203:    207

simple:assignment:statement ::= variable = formula ;

204:    175

simple:integer:variable ::= simple:variable

205:    49, 75, 131

simple:item:declaration ::=

          environmental:specifier
     ITEM item:name
               allocation:specifier
          item:description packing:specifier

                         +
          [bit:number]   =   +   constant   ;
                         -

206:    90, 91, 109, 143, 208, 243

simple:item:name ::= name

207:    219

```
                simple:assignment:statement
                assignment:statement
                exchange:statement
                go:to:statement
                exit:statement
                test:statement
        simple:statement  ::= return:statement
                zap:statement
                stop:statement
                loop:statement
                conditional:statement
                switch:statement
                procedure:call:statement
                direct:statement
```

208:    150, 204

```
        simple:variable ::= simple:item:name    @
        pointer:formula
```

209:    130

```
                formula
        size:function:call ::= SIZE (                    )
                data:block:name
```

210:    132

```
        size:specifier ::= number
```

211:    63

   skip:directive ::= |SKIP   reference   ;

212:    92

   skip:format ::= X

213:    63

   space:directive ::= |SPACE   character   ;

214:    109

   spacer ::= number

215:    216

        null:declaration
   specified:table:body ::=
   specified:table:item:declaration
        BEGIN specified:table:item:declaration   END   ;

216:    235

   specified:table:declaration ::= specified:table:heading
   specified:table:body

217:    216

specified:table:heading ::=

        environmental:specifier
TABLE table:name
        allocation:specifier

        : allocation:increment   dimension:list

        structure:specifier

        words:per:entry
        bits:per:entry   bit:number   entries:per:word

        packingspecifier   item:description
        packing:specifier

        [bit:number   , word:number   ]   =
        Constant:list   ;

218:    131, 215

sPecified:table:item:declaration ::=

    ITEM item:name   item:description

        packing:specifier   [bit:number

        , word:number   ]   = constant   ;

219:    36, 45, 112, 149, 179, 232

        null:statement
        simple:statement
statement ::=
        compound:statement
        named:statement

220:   5, 38, 71, 90, 104, 138, 146, 149, 232

   statement:name ::= name

221:   187, 222, 233

       primitive
   status ::=   name
       letter

222:   157, 223

   status:constant ::= V(status)

223:   132, 224

   status:list ::=
       +
   [number]   status:constant
       -

                              +
   [number]
   status:constant
                              -

224:   54

   status:list:declaration ::= STATUS status:list:name
   status:list ;

225:   132, 187, 224

    status:list:name ::= name

226:   207

    stop:statement ::= STOP ;

227:   166, 217

        P
    structure:specifier ::=
        T

228:   164, 168

    subordinate:overlay:declaration ::= OVERLAY
    subordinate:overlay:expression ;

229:   231

        item:name
    subordinate:overlay:element ::=
        (subordinate:overlay:expression)

230:   228, 229

   subordinate:overlay:expression ::=

      subordinate:overlay:string   :
      subordinate:overlay:string

231:   230

   subordinate:overlay:string ::=
   subordinate:overlay:element

232:   207

   switch:statement ::=

      SWITCH numeric:formula ;   statement:name :
                +
         BEGIN   [number]   statement   ,
                -

         END   ;

233:

            primitive
            ideogram
            name
            letter:control:variable
      symbol ::=   abbreviation
            number
            constant
            comment
            directive:key
            status

234:    25

    system:dependent:character
        Most computer systems can read and write more
        characters than are encompassed in the set of JOVIAL
        sign. The entire set that can be handled is know as
        the set of characters. The characters that are not
        signs are known as system:dependent:characters,

235:    49, 51, 75

            ordinary:table:declaration
    table:declaration ::=
            specified:table:declaration

236:    5, 52, 67, 90, 109, 118, 138, 155, 166, 187, 217, 251,
252

    table:name ::= name

237:    117
    table:variable ::= item:name   [index   ]   @
    pointer:formula

238:    43

        WHILE
                    conditional:formula
    terminator:phrase ::=   UNTIL

        value:terminator

239:    207

   test:statement ::= TEST   character   ;

240:    63

   time:directive ::= !TIME   character   ;

241:    63

   trace:directive ::= !TRACE   (conditional:formula)
   name   ;

242:    130

   type:function:call ::= TYPE (formula)

243:    61

         number
   upper:bound ::=
         simple:item:name

244:    63

   uses:directive ::= !USES data:name   ;

245:   97, 192, 246

    value:formula ::= [formula]

246:   238
    value:terminator ::=

        WHILE   value:formula relational:operator variable
        UNTIL   variable relational:operator value:formula

247:   5, 6, 14, 70, 203, 246

            pointer:variable
            numeric:variable
    variable ::= bit:variable
            character:variable
            format:variable

248:   5, 6, 14, 70, 203, 246

            named:variable
    variable ::= letter:control:variable
            functional:variable

249:   217, 218

    word:number ::= number

JOVIAL J73

250:    217

    words:per:entry ::= number

251:    130

    words:per:entry:function:call ::= NWDSEN (table:name
)

252:    207

         table:name
    zap:statement ::= ZAP   ;
         entry:variable

*****************************TABLES*****************************

```
          Column     0     1        2      3        4       5
    6        7       8     9       10      11       12      13
   14       15

          Column Code 0    1        2      3        4       5
    6        7       8     9        A      B        C       D
    E        F
Row
```

Row		code 2	code 3	code 4	code 5	code 6	code 7
0		space	0	@	P		p
1		!	1	A	Q	a	q
2		"	2	B	R	b	r
3		#	3	C	S	c	s
4		$	4	D	T	d	t
5		%	5	E	U	e	u
6		&	6	F	V	f	v
7		'	7	G	W	g	w
8		(	8	H	X	h	x
9		)	9	I	Y	i	y
10		*	:	J	Z	j	z
11		+	;	K	[	k	
12		,	<	L	\	l	
13		-	=	M	]	m	
14		.	>	N		n	
15		/	?	O		o	

Notes: row 0, column 3: zero
 row 1, column 3: one
 row 7, column 2: prime, often rendered as a vertical mark
 in JOVIAL
 row 12, column 6: a lowercase letter
 row 15, column 4: an uppercase letter

Figure 2-1. Characters

.2 All of the character values indicated in the body of
Figure 2-1 can be represented in character:constants (except

for system-dependent limitations). Artifices are required,
however, to represent some of the values. Any spaces within
the delimiting primes, except within a three-character code,
represent characters of value "space". Primes, semicolons,
and dollar:signs have special meanings. Therefore, in order
to represent a single occurrence of one of these signs, two
of them are used in succession. If a succession of these
signs is desired as part of the value represented by a
character:constant, the entire string is doubled. In
summary:

   2n primes are used to represent n primes.

   2n semicolons are used to represent n semicolons.

   2n dollar:signs are used to represent n dollar:signs.

.3 The reason for doubling the primes inside a
character:constant is that single prime terminates the
constant. The reason for doubling semicolons inside a
character:constant is the same. Although it is illegal, a
single semicolon terminates a character:constant; and for the
same reason it terminates a comment, to avoid turning the
whole program:declaration inside out if the correct
terminator is omitted. The reason for doubling dollar:signs
is that a single dollar:sign introduces the codes described
in the next two paragraphs.

.4 Any character represented in the body of Figure 2-1, if
it is acceptable at all by the system as a character value,
may be represented by a three character code beginning with a
dollar:sign. The second character is a column code from the
figure; i.e., any numeral or one of the letters from A
through F. The third character is any character from the
body of the figure that can be recognized by the compiler.
The character specified by such a code is the one at the
intersection of the column designated by the column code and
the row in which the third character is found. For example,
the percent mark can be represented by any of several three
character codes, including these two:

   $25

   $2U

.5 Within a character:constant, there is a recognition mode
for letters. Initially, the mode is "general", in which all
characters, including uppercase and lowercase letters, and
the three-character codes are recognized as described above.
The mode can be changed to "lowercase", however, by including
the two-character mode code consisting of dollar:sign
followed by uppercase or lowercase L. All letters following

such a mode code in a character:constant, regardless of the
case used, are considered to be in lowercase. The
two-character mode consisting of dollar:sign followed by
uppercase or lowercase U sets the "uppercase" mode, in which
all letters are considered uppercase. The three-character
codes pevail, without changing the mode, regardless of the
mode. Hence, the appropriate case can be specified for one
letter in a stream of letters. For example, here are four
character:constants with the value "De Gaulle":

  'De Gaulle'

  'D$6E G$6A$7U$6L$6L$6E'

  'D$LE $4GAULLE'

  'Sudleu g$laulle' (none of these are ones)

.6 If the count is present in a character:constant, there
must be no spaces between the count and the first prime, and
the count gives the number of concatenated repetitions of the
character values represented within the primes. Examples:

  2'TOM' is equivalent to 'TOMTOM'

  0'*' is equivalent to '**********'

  3' ' is equivalent to '   '

.7 Notice that it is indeed the values that are repeated,
not the characters making up the constant before evaluation.
Thus, 2'T$LOM' is equivalent to 'TomTom'; it is not
equivalent to 'Tomtom'.

.8 The system may impose a limit on the number of characters
in strings representable by character:constants,
character:variables, or character:formulas. The size of a
character:constant is the number of characters represented in
the value; not the number of characters between the primes.

fixed:constant		value size	precision	
19A0	19	5	0	
19A3	19	8	3	
19A-2	16	3	-2	
2,3A0	2	2	0	
2,3A-1	2	1	-1	
2,3A2	2,25	4	2	
2,3a5	2,28125	7		5
2,3A6	2,296875	8		6

```
         Left                  Right symbol starts with:
         symbol
         ends in      numeral letter  $        '        ,        "

         numeral               SR               SR       SR       SR
    SR
         letter                SR               SR       SR       SR
      $                SR              SR       SR       SR
      '                SR              SR       SR       SR
      "                SR              SR
    SR
```

```
    Input Buffer         Field     5N, 6N, SNSN
    1,2E3-b485bb3b7       1         1,2E3
                          2         -485
                          3         37
    +46b7,00015A1B,       1            illegal field (contains
    blank)
                          2         ,00015
                          3         1,
```

```
    bit:formula       110       01011100         01010111
    10000101     01111100
    padded       00000110       01011100         01010111
    10000101     01111100
    selected               01011100         01010111
    10000101
```

```
        x       y       x\y              x       y       x\y
```

7	0	undefined	-3,7	2	0,3
1	2	1	4,6	1,5	0,1
2	2	0	-0,1	1,5	1,4
3	2	1	1	-2	-1
-3	2	1	3,7	-2	-0,3
3,7	2	1,7	-3,7	-2	-1,7

First or Only Character	Meaning
I	Number of integer bits
A	Number of fraction bits (bits after the point).
Z	Maximum size I+A the system normally allows for fixed and integer arithemetic,
Y	An even larger maximum size I+A allowed under evaluation:control (often about 2*z),
V	Value,

Second Character	Meaning: "Of the..."
1	First operand
2	Second operand
M	Modulus (for x\y),
N	Numerator (for x/y or x\y),
D	Denominator (for x/y),

I	Integer operand (if the other is fixed),
A	Fixed operand (if the other is integer),
R	Result (preliminary result if S exists),
S	Result required by evaluation:control,
B	Base in exponentation,
E	Exponent,

Value of original bit:formula	Value of numeric:formula	Value of bit:formula resulting from SHIFT
11111	3	11000
11111	-1,7	01111
00000100000	5	10000000000
00000100000	-3	00000000100
101	3	000
101	-3	000
101	-2	001

bit:formula	&	bit:formula	result
10	1	101	
111001		00011110101	11100100011110101
00010000		0000010	000100000000010
0	0	00	

p	q	NOT p	p OR q	p EQV q	p AND q	P XOR q
0	0	1	0	1	0	0

```
0       1     1       1         0         0       1
1       0     0       1         0         0       1
1       1     0       1         1         1       0
```

```
0          = (assignment)  == (exchange)
1          EQV    XOR
2          OR
3          AND     (logical)
4          NOT
5          = < > <= >= <>  (relational)
6          &
7          + -
8          * / \   ( with or without evaluation:control )
9          **
10         indexing @      ( pointing, evaluation:control )
 @@        ( attribute:association )
```

In the algorithm it is necessary to consider several
operands and operations simultaneously. The following
diagram shows the relationships. All are pegged in
relation to the present operand. Any operation may
replace #.

               A # B # C # D # E # F # G # H # I # J # K

                                       the next operation

        the prior operand   the next operand

        the prior operation   the current operation

               the present operand

The leftmost operand of the formula is initally the
present operand.

               Start   Evaluate present operand.

The next operand becomes   Evaluate next operand,
yes   Is there a current
the present operand,   operation?

        yes   no

Is there a next operation   The value of the
present
with higher precedence   operand becomes the
value
than the current operation?   of the formula,

        no

Combine the present operand   The prior operand becomes
and the next operand in   the present operand,
accordance with the current
Exit
operation, The result   yes
becomes the present operand
(which has been evaluated),   Is there a prior operation
no

Figure 4-2, Combination Algorithm

ABC Operation Float type		XYZ type Converted to			
		Char	Bit	Int	Fix
ABC assignment XYZ Bit	Char	Char	Bit	Bit	Bit
(also parameter Bit	Bit	Bit	Bit	Bit	Bit
matching and Int	Bit	Bit	Int	Int	Int
exchange, both Fix	Fix	Bit	Bit	Fix	Fix
ways) Float Bit	Bit	Float	Float	Float	
ABC arithmetic XYZ Float Float	Float	Note 1	Note 2	Float	
XYZ arithmetic ABC Scale Float	Other	Note 3	Note 4	Scale	
ABC relational XYZ	Char	Note 5	Int	Note 6	Note

```
6        Note 6
         Bit       Note 6   Int      Note 6   Note 6   Note 6
or       Int       Note 6   Int      Int      Scale    Float
XYZ relational ABC          Float    Note 6   Int      Float
Float Float

ABC & XYZ          Char     Char     Bit      Bit      Bit      Bit
XYZ & ABC          Other    Bit      Bit      Bit      Bit      Bit

ABC logical XYZ             Any      Bit      Bit      Bit      Bit
Bit
XYZ logical ABC

Indexing, pointing                   Note 7   Int      Int      Int
Int
```

Figure 4-3, Type Conversion

```
Entrance used           ALT (   procedure:name    )
       integer          status:constant
normal            0                V ( procedure:name )
first alternate              1               V ( first
alternate:entrance:name )
second alternate             2               V ( second
alternate:entrance:name )
etc,       etc,                          etc,
```

```
   parameter    type:function:call
qualified:status:constant      type            value
status:constant
bit:formula                      0              V(BIT)
V(TYPE:BIT)

integer:formula                              1
V(INT)              V(TYPE:INT)
(signed or unsigned)
fixed:formula                    2             V(FIX)
V(TYPE:FIX)
(signed or unsigned)
floating:formula                             3
V(FLOAT)            V(TYPE:FLOAT)
```

character:formula   4
V(BYTE)   V(TYPE:BYTE)

START

              0-- skip A1, do A2
        A?
      E=3

        1-- do A1

              0-- skip B1   0-- skip D1, do D2
      (NULL
        B?   D?   or none), skip A2
                  do B2

        1-- do B1   1-- do D1
                                    Skip D2 (if any and
      A2
                          E=2
              0-- skip C1, do C2 (NULL or none), skip B2
      and A2
        C?

        1-- do C1
              Skip C2 (if any), B2 and A2
      E=1
      EXIT

                  No terminator:phrase   Terminator:phrase

No initial:phrase,   1A, Leave control:variable   1B,
Same as 1A except
replacement:phrase,   alone, Execute controlled:
execute controlled:
or increment:phrase   :statement just once,   :statement

zero or one
                time depending on
                terminator:phrase,

Initial:phrase   2A, Initialize control: 2B, Same as
2A except
only   :variable, Execute   execute controlled:
controlled:statement :statement zero or one
        just once,   time depending on
                terminator:phrase,

Replacement:phrase   3A, Leave control:variable   3B,
Same as 3A except
only alone for the first   test in accordance
        execution, Before each with terminator:phrase
        subsequent execution of the   before every
execution
        controlled:statement,   of the controlled:
        replace the value of the   :statement --even
the
        control:variable, Repeat   first one,
        executions "forever",

Increment:phrase   4A, Same as 3A except add   4B,
Same as 4A except
only   to value of control:variable   test as in 3B,
        instead of replacing value,

Initial:phrase and   5A, Initialize control: 5B, Same as
5A except
replacement:phrase   :variable, Execute controlled:
check for termination
        :statement once, Replace value before each
execution,
        of control:variable before
        each subsequent execution,
        Repeat executions "forever",

Initial:phrase and   6A, Initialize control: 6B, Same as
6A, except
increment:phrase   :variable, Execute controlled:
check for termination
        :statement once, Add to value before each
execution,
        of control:variable before
        each subsequent execution,
        Repeat executions "forever",

```
        start   ALPHA   1       Set BETA to 3

          =

          ?     2 or 3  Set GAMMA to the
                        value of BETA

                4       If GAMMA equals 2
                        set BETA to 2

                6       Set BETA to the
                        value of GAMMA


                        Set ALPHA to 7   next

          <1, 5 or >6
                              Undefined
```

Format:Lists

```
                                          ,,10C
Input Buffer  Field
10C,,

28,3b'bABCD'bABb            1       '28,3bb'
'28,3bs27bABC'
                2   'bABCDb'            'DS27bbbb'
                3   'ABbbbbbbbb'    'ABbbbb'

ALPHABET'AbTHERMOPILEb         1       'ALPHAb'
'ALPHAbBETs27'
                2   'BETS27Ab'          'Abbbbb'
                3   'THERMOPILE'    'THERMO'
```

```
        4B3PS3PS3PS3P           5B5PS5P
Bah     000 042 616 821
Humbug  487 56D 627 567        28ELM M4TB7
```

```
Input Buffer  Field   5N, 6N, SNSN

1,2E3-b485bb3b7            1        1,2E3
             2      -485
             3      37

+46b7,00015A1B,           1        illegal field
(contains blank)
             2      ,00015
             3      1,
```

```
              +SD4      -3ZDDR    -SDSZSZSZ   +SD","ZZ","DDR
1573,64      +1573      1574      1 5 7 3     +15,74
-27          -0027      -27       -2 7        -27
 0,0          0000       00        0           00
-10740       undefined  -10740    undefined   -1,07,40
```

```
                                  Format;Lists
Input Buffer  Field   "SPEEDb",DDD,"MPH    ,DDDSSSS

SPEEDb100bMPH             1        100
'SPEED'
             2                         100
```

```
         +ZZDD,DZZ        -4Z*3DR -4Z*   -4Z2*R
1573,6405    +1573,64    1573641 1573    157
-27    -27,0 -27000 -27   -3
 0,0   00,0    000
-10740      undefined   undefined  undefined
-1074
```

```
     1573,6400      1573,6410      1573,0000      1570,0000
      =27   =27      =27    =30
       0,0            0,0    0,0    0,0
     undefined      undefined      undefined      =10740
```

```
        +,6DE+3ZR           =SD*6ZSES=3Z*    =S3D,SES=3DR
  +S3*5DSES+S3Z

  +  39,7528      +,397528E+2      397528  E   1    398, E =001
  +  39752 E + 4
  =,008711246     =,871125E=2     = 8711246  E  =3 = 871, E
  =005  = 87112
```

```
PROGRAM AA
    XX (table;name)

         PROC BB
              XX (item;name)

              PROC CC
                  no occurrence of XX

                       PROC DD
                           XX used but not
                           declared




                       PROC EE




    Serial Structure     Parallel Structure
```

```
      1st half AB[0]        1st half AB[0]
      2d half AB[0] 1st half AB[1]
          XY[0]        1st half AB[2]
      1st half AB[1]        1st half AB[3]
      2d half AB[1] 2d half AB[0]
          XY[1]        2d half AB[1]
      1st half AB[2]        2d half AB[2]
      2d half AB[2] 2d half AB[3]
          XY[2]        XY[0]
      1st half AB[3]              XY[1]
      2d half AB[3]  XY[2]
          XY[3]        XY[3]
```

Example: Table MN has 2 items, AB and XY, and 4 entries, 0, 1, 2, and 3.
 Item AB occupies 2 words.
 Item XY occupies 1 word.
Note: 12 consecutive computer words are shown in each illustration above.

Tight Structure

```
      entry [0]        entry [1]        entry [2]

      entry [3]        entry [4]        entry [5]
```

A table of six entries is medium packed, three entries to the word.

OVERLAY AA, AB, AC : BA, (BX : BY, BZ), BC ;

```
      AC              AA              AB

      BA              BX              BC

                 BY     BZ
```

```
      RELATED STRUCTURE          AA,100,(BB : EE)        CC,EE,DD
      200,FF,GG : DD


          CC    AA              AA              CC

                100             100

          EE    BB              BB
                  EE

          DD                    DD

                200                             200

          FF                            FF

          GG                            GG
```

Figure 7-4. Allocation of a Related Structure


```
      entrance        number              status:constant

      normal              0           V( procedure:name )
      first alternate         1           V(
      alternate:entrance:name )
      second alternate        2           V(
      alternate:entrance:name )
```


```
      RELATIVE
        WORD          SERIAL          PARALLEL
        0  1 AB[0,0,0]     1 AB[0,0,0]
```

JOVIAL J73

```
 1   2  AB[0,0,0]      1  AB[0,0,1]
 2      XY[0,0,0]      1  AB[0,1,0]
 3   1  AB[0,0,1]      1  AB[0,1,1]
 4   2  AB[0,0,1]      1  AB[0,2,0]
 5      XY[0,0,1]      1  AB[0,2,1]
 6   1  AB[0,1,0]      1  AB[0,3,0]
 7   2  AB[0,1,0       1  AB[0,3,1]
 8      XY[0,1,0]      1  AB[1,0,0]
 9   1  AB[0,1,1]      1  AB[1,0,1]
10   2  AB[0,1,1]      1  AB[1,1,0]
11      XY[0,1,1]      1  AB[1,1,1]
12   1  AB[0,2,0]      1  AB[1,2,0]
13   2  AB[0,2,0]      1  AB[1,2,1]
14      XY[0,2,0]      1  AB[1,3,0]
15   1  AB[0,2,1]      1  AB[1,3,1]
16   2  AB[0,2,1]      1  AB[2,0,0]
17      XY[0,2,1]      1  AB[2,0,1]
18   1  AB[0,3,0]      1  AB[2,1,0]
19   2  AB[0,3,0]      1  AB[2,1,1]
20            XY[0,3,0]             1  AB[2,2,0]
21         1  AB[0,3,1]             1  AB[2,2,1]
22         2  AB[0,3,1]             1  AB[2,3,0]
23            XY[0,3,1]             1  AB[2,3,1]
24         1  AB[1,0,0]             2  AB[0,0,0]
25         2  AB[1,0,0]             2  AB[0,0,1]
 :          .    .
 .          .    .
 :          .    .
62            XY[2,2,0]                XY[1,3,0]
63         1  AB[2,2,1]                XY[1,3,1]
64         2  AB[2,2,1]                XY[2,0,0]
65            XY[2,2,1]                XY[2,0,1]
66         1  AB[2,3,0]                XY[2,1,0]
67         2  AB[2,3,0]                XY[2,1,1]
68            XY[2,3,0]                XY[2,2,0]
69         1  AB[2,3,1]                XY[2,2,1]
70         2  AB[2,3,1]                XY[2,3,0]
71            XY[2,3,1]                XY[2,3,1]
```

Figure 10-1

Indexing and Storage Allocation

	Bits				Bits
0-1	2-11	12-21	22-31	0-1	2-11
12-21	22-31				

```
0                BB[0,0] BB[0,1] bB[0,2]        BB[0,0]
BB[0,1]          BB[0,2]
1                BB[0,3] BB[0,4] BB[0,5]        BB[0,3]
BB[0,4]          BB[0,5]
2                BB[0,6] BB[0,7]                BB[0,6]
BB[0,7]          BB[1,0]
3                BB[1,0] BB[1,1] BB[1,2]        BB[1,1]
BB[1,2]          BB[1,3]
4                BB[1,3] BB[1,4] BB[1,5]        BB[1,4]
BB[1,5]          BB[1,6]
5                BB[1,6] BB[1,7]                BB[1,7]
BB[2,0]          BB[2,1]
6                BB[2,0] BB[2,1] BB[2,2]        BB[2,2]
BB[2,3]          BB[2,4]
7                BB[2,3] BB[2,4] BB[2,5]        BB[2,5]
BB[2,6]          BB[2,7]
8                BB[2,6] BB[2,7]                BB[3,0]
BB[3,1]          BB[3,2]
9                BB[3,0] BB[3,1] BB[3,2]        BB[3,3]
BB[3,4]          BB[3,5]
10               BB[3,3] BB[3,4] BB[3,5]        BB[3,6]
BB[3,7]          BB[4,0]
11               BB[3,6] BB[3,7]                BB[4,1]
BB[4,2]          BB[4,3]
12               BB[4,0] BB[4,1] BB[4,2]        BB[4,4]
BB[4,5]          BB[4,6]
13               BB[4,3] BB[4,4] BB[4,5]        BB[4,7]
BB[5,0]          BB[5,1]
14               BB[4,6] BB[4,7]                BB[5,2]
BB[5,3]          BB[5,4]
15               BB[5,0] BB[5,1] BB[5,2]        BB[5,5]
BB[5,6]          BB[5,7]
16               BB[5,3] BB[5,4] BB[5,5]
17               BB[5,6] BB[5,7]
```

Figure 10-2

Indexing and Allocating Tight Structure Tables