

SYNTBL

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< NLS, SYNTBL.NLS;2, >, 16-MAR-76 16:05 JDH ;;;;
FILE syntbl % <ARCSUBSYS>TABLE <rel-nls>syntbl %(arcsubsys,table,)
(victor,syntbl.rel,)%
  (noexpand) TABLE
    structure
    textent
    text1
    synsubs
% each line in the following tables has the following syntax:
  id := value
  id := the name of a CML
    rule, parsefunction, or xroutine
  value := str / l10id
  str := A QUOTED STRING
    which will appear when this rule/parsefunction/xroutine is
    encountered in the CML grammar
  l10id := the name of an l10 procedure
    to be called when this rule/parsefunction/xroutine is
    encountered in the CML grammar
the table xoutines if for xoutines
the table prules if for rules
the table prsfunctions if for parsefunctions
%
(xoutines) TABLE
  xcomment = "TYPEIN "
  xjdae = "ADDRESS "
  subldsp = "(STRING) "
(prules) TABLE
  textent = "STRING "
  text1 = "STRING "
  structure = "STRUCTURE "
  cshmode = "CASEMODE "
  nlssubs = "SUBSYSTEM "
  allsubs = "SUBSYSTEM "
  prtgrp = "WHOM "
  prot1 = "DOING "
  devopt = "DEVICES "
  synsubs = "COMMAND "
  jmpcoms = prjmpcmd
  hchk = prhchk
(prsfunctions) TABLE
  answ = "ANSWER "
  answer = "ANSWER "
  sp = "<SPACE> "
  readconfirm = "OK "
  readbug = "BUG "
  readoption = "OPTION "
  readrepeat = "<REPEAT> "
  lookansw = "ANSWER "
  lookconfirm = prconfirmlook
  lookbug = prbuglook
  looknum = prnumlook
FINISH
**

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GAS2, 14-Feb-79 22:48

< NLS, SYNTBL.NLS.2, > 2

TASKS

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< NLS, TASKS.NLS.8294, >, 4-Dec-78 19:24 JCP ;;;
(todo) 02
(NLS-CHANGES) Changes to files in <NLS>. COPY TO NINE; all old changes
already copied (KJM 13-JUL-77). 03
(nls,bconst,rfchost) JCP 4-Dec-78 04
  Changed to reflect move of SRI-KL Journal system to Office-2. 05
(nls,bconst,utilhost) JCP 4-Dec-78 06
  Changed to reflect move of SRI-KL Journal system to Office-2. 07
(nls,bconst,utilstr) JCP 4-Dec-78 08
  Changed to reflect move of SRI-KL Journal system to Office-2. 09
(nls,jnldel,jinsubs) JCP 4-Dec-78 010
  Changed ftprcop call to reflect the fact that utilhost is now a
  TENEX and uses ";" for version delimiter character. Also deleted
  ISIE ftprcop call and made all accounts "0" to reflect the fact
  that accounts are no longer needed for any type of FTP login
  anywhere. 011
(nls,jnldel,pokemailer) JDH 25-Apr-78 012
  changed to use RH of dirno when figuring bit/word/page of
  mailer.flags 013
(nls,adrmnp,lnkusr) JDH 25-Apr-78 014
  changed to allow "." in directory names (may want to use it to
  separate structure name from directory name 015
(nls,execfl,unprseinnt) JDH 25-Apr-78 016
  changed to return <>, etc. in directory name 017
(nls,execfl,gtdesjfn) JDH 25-Apr-78 018
  changed to accept <>, etc. in directory name parameter 019
(nls,fintnls,startup) 020
  Null "locstr" before calling filnam (which appends) for setting up
  initial file return ring 021
(nls,execfl,chkdev) JDH 23-Apr-78 022
  ****changed to allow "PS" as well as "DSK" as legal devices:****
  ought to look for a better way to catch this 023
(nls,fintnls,getuident) JDH 23-Apr-78 024
  modified (temporary) to use right half of user no. on ver. 3 (will
  work for now) 025
(nls,execfl,gtdesjfn) JDH 23-Apr-78 026
  call drcode to get value for lock word 027
(nls,ioexec,unlkfile) (nls,ioexec,setaccess) (nls,filnp,lkun) JDH
22-Apr-78 028
  use drcdecode, logdirno 029
(nls,bintnls,libstr) JDH 22-Apr-78 030
  call stusr call instead of stdir jsys 031
(nls,ioexec,stusr call) JDH 22-Apr-78 032
  new procedure similar to stdircall, except for users instead of
  directories--on ver.3, calls rcusr instead of rcdir 033
(nls,ioexec,rawopen) JDH 22-Apr-78 034
  call drcdecode on dir part of lock word to get directory number
  035
(nls,ioexec,opnctfile) (nls,ioexec,transdir) (nls,inpfbk,rdlit)
(nls,filmp,lkfile) JDH 22-Apr-78 036
  call stdircall instead of jsys 037
(nls,execfl,getpcjfn) JDH 22-Apr-78 038
  use drcdecode to convert locking code to dirno 039
(nls,ioexec,cpcnam) (nls,ioexec,apcfilnam) JDH 22-Apr-78 040
  move "filename" part of cpcnam into new procedure apcfilnam 041
(nls,ioexec,drcdecode) JDH 21-Apr-78 042

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convert directory code to directory number (optionally considering existence of a PC or legality of an ident)	043
(nls,ioexec,drcode) JDH 21-Apr-78	044
convert directory number to directory code	045
**initially, just uses right 10 bits of directory number, will do hashing eventually	046
(nls,cedit2,updtfl) (nls,cedit2,compactfile) (nls,ioexec,coropnfil)	
(nls,execfl,gtdesjfn) JDH 21-Apr-78	047
call cpcnam with logdirno instead of gjinf r1	048
(nls,ioexec,cpcnam) JDH 21-Apr-78	049
changed to allow dirst to return punctuation with dir. name	050
(nls,ioexec,openid) JDH 21-Apr-78	051
changed to expect call to gdirname to return <> around directory name	052
(nls,execfl,parseinput) JDH 21-Apr-78	053
changed to expect call to gdirname to return <> around directory name	054
(nls,ioexec,gdirname) JDH 21-Apr-78	055
changed to return with <> around directory name--expect this only to be called for true directory numbers in version 3	056
(nls,execfl,dlbldi) JDH 21-Apr-78	057
pass file jfn to dlbgw	058
(nls,execfl,dlbgw) JDH 21-Apr-78	059
Added extra calling parameter: file jfn for ver. 3	060
(nls,execfl,mkdirlist) JDH 21-Apr-78	061
put jfn at end of fdb	062
(nls,brecords,xfdbjfn) JDH 21-Apr-78	063
added location for internal block for fdb to contain file jfn	064
(nls,cedit1,cconfildir) JDH 19 APR 78	065
call stdircall and condc instead of calling !stdir and !cndir	066
(nls,ioexec,stdircall) JDH 19 APR 78	067
new proc to do usual call to stdir, or version 3 equivalent	068
(nls,fintnls,startup) JDH 19 APR 78	069
set logdirno, (same as cuno for non-version 3)	070
(nls,fdata,logdirno) JDH 19 APR 78	071
new global, should correspond to cuno, but a directory number whereas cuno is a user number (different in version 3)	072
(nls,ioexec,openlock) (nls,cedit1,cexpcondir) (nls,recfil,nlsutilty) JDH 19 APR 78	073
call deldfcall instead of the jsys	074
(nls,ioexec,deldfcall) JDH 19 APR 78	075
new procedure to call deldf jsys, puts dirno in r2 for version 3, RH of r1 otherwise.	076
(nls,ioexec,condc) JDH 18 APR 78	077
new procedure to do system calls to connect to directory. calls new jsies for tops20 version 3	078
(nls,ioexec,condir) (nls,ioexec,conidir) (nls,ioexec,conjdir) (nls,recfil,nlsutilty) (nls,cedit1,cexpdir) JDH 18 APR 78	079
replace !stdir and !cndir calls with calls on condc	080
(nls,sdata,t2v3flag) JDH 18 APR 78	081
new flag, indicates tops20 version 3	082
(nls,bconst,fust0) (nls,bconst,fust1) JDH 17 APR 78	083
addresses of possible link default directory strings in page 0 and page 1	084
(nls,bdata,filhd1) JDH 17 APR 78	085
layout for page 1 file header (a la filhed)	086

(nls,cedit2,copfil) JDH 17 APR 78	087
use gdfmdir and csetlindef to copy link default directory during update file compact	088
(nls,cedit2,updtfl) JDH 17 APR 78	089
update any added header pages	090
(nls,ioexec,rdhdr) JDH 17 APR 78	091
clear any header pages' rfc core entries (when clearing rngblk and stdblkc pages)	092
(nls,ioexec,gdfmdir) JDH 17 APR 78	093
in the case where the link default directory is stored as a string, lodhdadd is called to get the core address of the string, allowing it to be in the second header page as well as the first (formerly it was allowed only in the first page).	094
(nls,ioexec,setfil) (nls,ioexec,intfil) JDH 17 APR 78	095
during file initialization, link default directory is now done by intfil instead of setfil. csetlindef is called.	096
(nls,cedit2,csetlindef) JDH 17 APR 78	097
changed to store string instead of directory number. depending on the length of the string, it is placed in page 0 or page 1 of the file. calls lodhdadd.	098
(nls,filmnp,lodent) JDH 17 APR 78	099
changed to allow hdtyp pages	0100
(nls,riilmnp,lodhdadd) JDH 17 APR 78	0101
new procedure, gets a header page given a fileaddress. Creates the page if it doesn't exist.	0102
(nls,auxcod,idtimcall) JDH 30 MAR	0103
new procedure to call idtim jsys. always returns TENEX format.	0104
(nls,frontend,auxstartup) (nls,frontend,auxchr)	
(nls,fronend,auxinterminate) JDH 23 FEB 78	0105
changed to freeze and thaw sdb of current process statement	0106
(nls,fintnls,tt) JCP 21 FEB 78	0107
Leave identfile to reside in <IDENTS>, use "\$" in partial copy names, for host SRIKA.	0108
(nls,bconst,idnfname) JCP 19 FEB 78	0109
Changed name of master identfile to <IDENTS>IDENTS.NLS	0110
(nls,bintnls,libstr) JCP 19 FEB 78	0111
Changed acceptable auto-startup directory name from BACKGROUND to JDEMON	0112
(nls,ioexec,conidir) JCP 19 FEB 78	0113
Changed name of identfile directory to IDENTS	0114
(nls,ioexec,jflname) JCP 19 FEB 78	0115
Changed name of experimental identfile to <IDENTS>EXP-IDENTS.NLS	0116
(nls,psedit,xload) JDH 6 FEB 78	0117
don't restrict load remote to particular set of hosts	0118
(nls,jndel,jinsubs) JDH 4 FEB 78	0119
changed ftprcop call for KL (utilhost) to get files from office-1, (actually that was taken care of by change to arcstr) and use ";" instead of "." for remote version number delimiter. added ftprcop call for KL to get files from [isie]<tejournal>.	0120
(nls,bconst,arcstr) JDH 3 FEB 78	0121
changed to "OFFICE-1" so an identfile entry for on-line delivery to sri-arc means to deliver journal mail to office-1	0122
(nls,inpfbk,rdr) JDH 26 JAN 78	0123
changed rtjtd to a local, passed it's address to sprjtd	0124

(nls,inpfbk,sprjtb) JDH 26 JAN 78	0125
make rtjtbd a refd argument instead of a global	0126
(nls,inpfbk,rdlit) JDH 26 JAN 78	0127
for display, after literal escape, if followed by a big char, ignore it if it is null	0128
(nls,inpfbk,dinbc) JDH 1 JAN 78	0129
changed to set coordinates from "41B" and "42B" protocol	0130
(nls,psupport,clist) JDH 21 DEC 77	0131
corrected address used for correspondance list when increasing its size	0132
(nls,fintnls,startup) JDH 21 DEC 77	0133
corrected address used for corr. list (must allow for block header when using getblk)	0134
(nls,dspgen,daupdate) JDH 14 DEC 77	0135
For lp with scroll window capability, don't call dafrmt for split screens--regular daupdate stuff will work	0136
(nls,dspgen,clearda) JDH 14 DEC 77	0137
for lp with scroll window capability, use it for clearing screen	0138
(nls,dspgen,doscroll) JDH 14 DEC 77	0139
new procedure to do scroll window protocol	0140
(nls,dspgen,prcmds) JDH 14 DEC 77	0141
for lp with scroll window capability, combine a series of inserts or deletes to be a single call on doscroll	0142
(nls,bconst,lpscroll) JDH 14 DEC 77	0143
new lp protocol type for scroll window	0144
(nls,psuserop,uoget) JCP 6-Dec-77	0145
take "P707000" out of UD filespec so it will be visible to users - in response to gripe by KLM	0146
(nls,seqfil,inseq1) JCP 6-Dec-77	0147
tix so that copy sequential with two cr works on TENEX - check for EOL as well as CR to end line	0148
(nls,fintnls,newintdspda) JDH 12-Nov-77	0149
position viewspec and literal collection according to physxmax	0150
(nls,fintnls,getdev) JDH 12-Nov-77	0151
set physxmax according to lptype	0152
(nls,fdata,physxmax) JDH 12-Nov-77	0153
new global for sliding window displays, is physical right margin for placement of viewspec and literal collection display	0154
(nls,fintnls,getdev) JDH 8 NOV 77	0155
changed to accept big coordinates when interrogating LP	0156
(nls,fintnls,bincoord) JDH 8 NOV 77	0157
new proc. does bin's to get single character or big coordinate	0158
(nls,inpfbk,dinbc) JDH 8 NOV 77	0159
changed to accep big coordinates	0160
(nls,inpfbk,getcoord) JDH 8 NOV 77	0161
new procedure, reads a single character or big coordinate	0162
(nls,bconst,cooresc) JDH 7 NOV 77	0163
new value of escape char for big coordinate to or from LP. Anyplace where a coordinate is allowed in the protocol, this escape followed by two characters of coordinate value gives up to 12 bits.	0164
(nls,dspgen,cline) (nls,dspgen,position) (nls,dspgen,lpmarkit) JDH 7 NOV 77	0165

changed to send big coordinates if necessary	0166
(nls,dspgen,apcoord) JDH 7 NOV 77	0167
new procedure, appends a coordinate to a string, big if necessary	0168
(nls,auxcod,dismes) JDH 6 NOV 77	0169
clear "timrset" flag on "dismes(0,str)" so there won't be another	
wait on the next call to dismes after a timed dismes.	0170
(nls,bconst,officelhost) JCP 6 NOV 77	0171
added "officelhost" to possible host numbers	0172
(nls,fintnls,tt) JCP 6 NOV 77	0173
check for "officelhost" and set partial copy delim chars to "\$"	0174
(nls,dspgen,lptnopen) JDH 4 NOV 77	0175
changed to use newcp flag instead of dm4000 type code	0176
(nls,fintnls,getdev) JDH 4-NOV-77	0177
rework LP device capability coding	0178
(nls,fdata,newcp) (nls,fdata,scwindow) JDH 4 NOV 77	0179
new flags for LP capabilities	0180
(nls,cedit1,ccrefil) JCP 2 NOV 77	0181
add "no such filename" to list of expected returns from gtjfn in	
call to sgtjfn at start of ccrefil	0182
(nls,cprograms,gpget) JDH 26 OCT 77	0183
record loading of 8.5 user programs on the lp err file	0184
(nls,fdata,bugmarks) (nls,fdata,bmauxstk) DSM 24-Oct-77	0185
Changed the size of these two stacks from 20 to 40 words each, to	
allow up to 13 bugs/command instead of six. (three words per	
entry)	0186
(nls,bconst,isichost) (nls,bconst,isiehost) JCP 22 OCT 77	0187
express isichost in octal for consistency, delete duplicate	
isiehost entry	0188
(nls,brecords,ctfile) JCP 22 OCT 77	0189
expand field from 4 bits to 5 fixing long-standing bug where	
file-numbers larger than 15 will cause blow-up	0190
(nls,bconst,lptnptr) (nls,bconst,lptnopr) JDH 20 OCT 77	0191
new constants for new LP terminal copy printer protocol	0192
(nls,fdata,lppldev) JDH 20 OCT 77	0193
new LP terminal copy printer device number	0194
(nls,dspgen,lppnopen) JDH 20 OCT 77	0195
new proc, like lppopen, but also handles new LP DM4000 copy	
printer protocol	0196
(nls,inpfbk,dinbc) JDH 20 OCT 77	0197
added two new protocols for new LP copy printer	0198
(nls,inpfbk,lpsysreset) JDH 20 OCT 77	0199
new procedure called for the new system reset protocol in dinbc	0200
(nls,auxcod,datfrmt) JCP 15 OCT 77	0201
delete "wrong time-zone" kludge since no way to check	0202
(nls,bconst,ttycoc) JCP 15 OCT 77	0203
allow direct ^L output if terminal has mechanical formfeed	0204
(nls,cedit1,coutproc) JCP 15 OCT 77	0205
fix to not do GTFDB if output file is LPT:	0206
(nls,fintnls,getdev) JDH 28 SEP 77	0207
for LP type dm4000, set putbackchar_TRUE;	0208
(nls,dspgen,011) JDH 28 SEP 77	0209
added LP type dm4000 (data media 4000 with 8080 lineprocessor)	0210

(nls,inpfbk,delbm) (nls,inpfbk,bmoff) JDH 27 SEP 77 0211
 changed to also putback SP when deleting bugmarks. 0212

<xporgen, pstprc,> KIRK 16 SEPT 77 0213
 modified postpr procedure and added outsgmt, justify, and tjustify
 procedures for use in justification in output processor 0214

<xporgen, opdata,> KIRK 16 SEPT 77 0215
 added the global "bigword" for use in justification in output
 processor 0216

(nls,execfl,dlbgt) JDH 31 AUG 77 0217
 convert internal times from file FDB's to TENEX format before
 calling datfrmt. used by show and copy directory. 0218

(nls,tsprt,newpag) JDH 12-aug-77 0219
 changed EOL to CRLF after TNLS print pagenumbr 0220

(nls,bconst,arcstr) (nls,bconst,archost) JDH 9-AUG-77 15:26 0221
 changed to be ISIE instead of ISIC 0222

(nls,bconst,rfchost) JDH 9-AUG-77 15:26 0223
 changed from OFFICE-1 to SRI-KL 0224

****[isic]<netsys>nls.sav;47 from gnls.sav;187 2-AUG-77 18:03 0225

(nls,csendmail,gtcatent) JCP 1-AUG-77 0226
 Fixed journal catalog CASE table to include Jcat8 for numbers from
 40000 to 43999. 0227

****[sri-ka]<netsys>nls.sav;3 from gnls.sav;187 27-JUL-77 19:50 0228

****[isie]<netsys>nls.exe.31 from gnls.sav;187 27-JUL-77 19:13 0229

****[sri-kl]<netsys>nls.exe.22 from gnls.sav;187 27-JUL-77 19:02 0230

(nls,filmp,makepc) JDH 27-JUL-77 0231
 changed "undelete modifications" section to call lkfile instead of
 setting the lockword itself--it was using the wrong directory
 number 0232

(nls,execfl,movflandpc) JCP 27-JUL-77 0233
 Changed order of rename and protection propagation since RNAMEF
 expunges the "from" file under TOPS20. Was causing illegal
 instruction for undefined JFN. 0234

(nls,dspgen,cline) KJM 27-JUL-77 0235
 Added an extra (sloppy) check to cline to get around case where
 it's called with number of positions to clear too large. Was
 causing error and non-refresh when deleting last stmt on screen
 with viewspec y. Weyerhauser was running into it. 0236

****[isic]<netsys>nls.sav;46 from gnls.sav;183 19-JUL-77 1945 0237

****[isie]<netsys>nls.exe.30 from gnls.sav;183 19-JUL-77 1945 0238

****[sri-kl]<netsys>nls.exe.20 from gnls.sav;183 19-JUL-77 1945 0239

(nls,syntax,zjstatus) KJM 13-JUL-77 0240
 Took out the ability to look at deleted idents, since they've been
 moved out of the ident file and aren't immediately available. 0241

(nls,psedit,xload) JDH 6-JUL-77 0242
 allow "EXLB" in fewer cases 0243

(nls,auxcod,fstatus) JDH 5-JUL-77 0244
 removed "Creation date of version 1" section, TOPS20 doesn't
 maintain this. Changed "Creation date of this version" to handle
 TOPS20 date format correctly. 0245

(nls,filmp,getstsize and fchtxt) KJM 29-JUN-77 0246
 Add "file probably bad" to two "No text block associated ..."
 error messages. 0247

(nls,auxcod,datfrmt) HGL 29-JUN-77 0248
 Saved register 5 around ODCNV jsys call so it will not be smashed
 in meta based processors. 0249

(nls,cedit1,coutproc) KJM 19-JUN-77 0250

Added to NOV fix to wait at end of output terminal when waiting at page breaks. On TOPS20, leftover LF was letting it go ahead. 0251

(nls,psedit,xout1) JDH 16-JUN-77 0252
on output commands, look for "lpt:" as output file name and pass it without calling lnbfls 0253

(nls,seqfil,opseqf) JDH 16-JUN-77 0254
if output file is LPT:, make sure ogapfg FALSE and don't do !gtfdb to see if the file exists already. 0255

(nls,jnlidel,) JDH 15-JUN-77 0256
at all calls to "discfull", increased the number of pages used for cutoff threshold by 1000. (this is an attempt to stay above ISIC's cutoff for opening files) 0257

(nls,jnlidel,jinsubs) JDH 15-JUN-77 0258
increase size of local string "tempstr", new error message "No files match.." on gtjfn was too big for it. 0259

(nls,identsupport, namesearch & idpind & idpgrporg & idflsearch) KJM 13-JUN-77 0260
Changed CR and EOL to CR, LF for output strings. 0261

(nls,ioexec,gtjerr) JDH 10-JUN-77 0262
added error message "No files match this specification" to list. 0263

(nls,bdata,docwfn) and (nls,bdata,hdrwfn) JDH 9-JUN-77 0264
changed version number delimiter to "." (these are journal hardcopy printing work files) 0265

(nls,jnlidel,inithcd) JDH 9-JUN-77 0266
changed hardcopy output directory from <DOCUMENTATION> to <ARCDOCUMENTATION> 0267

(nls,psendmail,jidstatus) JDH 7-JUN-77 0268
convert hardcopy address EOL's (using cetcapp) 0269

(nls,auxcod,cnveoltcrLf) JDH 7-JUN-77 0270
call cetcapp instead of doing the work 0271

(nls,auxcod,cetcapp) JDH 7-JUN-77 0272
guts of cnveoltcrLf, broken out to be more primitive (input is between two text pointers, output is appended to destination string) 0273

(nls,fintnls,saveit) JDH 6-JUN-77 0274
restored idents.master directory to "identfile" 0275

(nls,adrmnp,lnkfil) KJM 6-JUN-77 0276
Changed CASE statement so ^V is a legal character in a file name. 0277

(nls,cedit1,ccopdir) KJM 6-JUN-77 0278
Changed FIND statement to allow semicolon or period before version number in file name -- for TOPS20. 0279

(nls,fintnls,saveit) JDH 4-JUN-77 0280
moved utilhost branch after sriai20host, (really could be deleted now) 0281

(nls,fintnls,saveit) JDH 4-JUN-77 0282
for sri-kl, imlac0_20B; imlac1_21B; 0283

(nls,bconst,utilstr) JDH 4-JUN-77 0284
changed to SRI-KL 0285

(nls,bconst,utilistr) JDH 4-JUN-77 0286
new string, "OFFICE-1", for identfile online delivery string. 0287

(nls,identsupport,ldelivery) JDH 4-JUN-77 0288
changed "utilstr" to "utilistr", so "OFFICE-1" will do the right thing under online deliv. in the identfile. 0289

(nls,cedit2,ctridir) KJM 3-JUN-77 0290

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Set jfn flags so gnjfn JSYS will get the highest version of each
file. 0291
(nls,execfl,triflandpc) KJM 3-JUN-77 0292
  Changed to not actual number trimmed (not negative) in R2. 0293
(nls,execfl,getpcjfn) KJM 3-JUN-77 0294
  Checks for MAIL.TXT on TOPS20 0295
(nls,loexec,ftpcf) JDH 3-JUN-77 0296
  changed to allow for tops20 timing glitch in the !wfork-!rfsts
  sequence. 0297
(nls,cprograms,upgjfn) KJM 1-JUN-77 0298
  Changed to look for files with extension EXE to take care of
  TOPS20 file name problems. 0299
(nls,fconst,exeext) KJM 1-JUN-77 0300
  Added this string for TOPS20 extension problems. 0301
(nls,bconst,subdr2) KJM 1-JUN-77 0302
  Added this string to have the value "SUBSYS". 0303
(nls,jnidel,slinker) JDH 2-JUN-77 0304
  changed EOL to CRLF 0305
(nls,jnidel,nwkdatehcd) JDH 2-JUN-77 0306
  after !idcnv call, if tops20, convert to tenex format 0307
(nls,jnidel,nwkclerk) JDH 2-JUN-77 0308
  changed error message to refer to "JDEMCN" instead of
  "BACKGROUND". 0309
(nls,jnidel,openmail) JDH 2-JUN-77 0310
  added ^V's before "[" and "]" in unsent mail file name 0311
(nls,jnidel,ftprcop) JDH 2-JUN-77 0312
  added new argument for remote version number delimiter, changed to
  put out CRLF instead of EOL in error message, 0313
(nls,jnidel,jinsubs) JDH 2-JUN-77 0314
  changed calls to ftprcop, version delimiter for files gotten from
  <tejournal> 0315
(nls,jnidel,pokemailer) JDH 31-MAY-77 0316
  don't give version number on mailer flags file--avoids the TOPS20
  version number delimiter hassle 0317
(nls,jnidel,lavchk) JDH 31-MAY-77 0318
  changed !gtad() to gtadcall(), and when checking system down
  schedule, do the right thing for tops20 0319
(nls,auxcod,totentad) JDH 31 MAY 77 0320
  new procedure to convert tops20 internal time to tenex internal
  time 0321
(nls,psupport,clist) KJM 27-APR-77 0322
  Fixed bug in allocating new clist block when current one too
  small. Found the bug in NLS9, then corrected in 8.5. 0323
****[isie]<netsys>nls.exe.26 from gnls.sav;172 2-MAY-77 1822 0324
****[sri-kl]<netsys>nls.exe.8 from gnls.sav;172 2-MAY-77 1752 0325
****[isic]<netsys>nls.sav;43 from gnls.sav;172 29-APR-77 1635 0326
****[sri-ka]<netsys>nls.sav;2 from gnls.sav;170 26-APR-77 1350 JDH
  0327
****[sri-kl]<netsys>nls.exe.7 from gnls.sav;170 25-APR-77 1825 JDH
  0328
****[isie]<netsys>nls.exe.25 from gnls.sav;170 25-APR-77 1800 JDH
  0329
****[islc]<netsys>nls.sav;42 from gnls.sav;170 24-APR-77 1236 JDH
  0330
(nls,finthls,saveit) JDH 13-APR-77 0331
  set subdir to "SUBSYS" for office-1 and "non-standard" host 0332

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(nls,bconst,subdir) JDH 13-APR-77 0333
 changed "subdir" (name of directory for compilers, MSGNLS) to
 NETSVS. 0334

(nls,seqfil,hmapout) JDH 13-APR-77 0335
 save contents of r2 in r3 for the !rmap() call, then restore.
 TOPS20 RMAP not reliable for access bits. 0336

(nls,fintnls,saveit) JDH 11-APR-77 0337
 do same pre-save stuff on isie as on isid 0338

(nls,bconst,isiehost) JDH 11-APR-77 0339
 new host number 0340

(nls,jnlldel,jinsubs) JDH 11-APR-77 0341
 changed "ISID" to "ISIE" for place from which ISIC gets remote
 submissions 0342

(nls,psedit,xmerge) KJM 31-MAR-77 0343
 Commented out procedure to save system space. 0344

(nls,cedit1,cmerge and cmergro and cupdate) KJM 31-MAR-77 0345
 Commented out procedures to save system space. 0346

(nls,colprt,) KJM 31-MAR-77 0347
 Moved all the merge and update code after the FINISH. 0348

(nls,fintnls,saveit) JDH 29-MAR-77 0349
 added branch for sriaikahost for system save. 0350

(nls,syntax,zpreplace and zpreset) KJM 24-MAR-77 0351
 Commented out CML code for Replace and Reset Parserule commands
 (which never worked anyway). 0352

(nls,psprogs,xpreplace and xpreset) KJM 24-MAR-77 0353
 Commented out L10 code for Replace and Reset Parserule commands
 (which never worked anyway). 0354

(nls,loexec,gtjerr) JDH 23-MAR-77 0355
 changed to put out error strings with CRLF's instead of EOL's
 (only message affected is the "File not found" message). 0356

(nls,psuserop,uoshow) and all the other procedures in that plex: JDH
 22-MAR-77 0357
 changed all the string construction statements of the form *lit* -
 lit, "blah blah"; to call new routines uolitap, uolcrap,
 uolstrap, uolchap. These are all single argument routines, so the
 resulting code is considerably shorter than the equivalent in-line
 code. Also, former EOL's now come out as CRLF's. 0358

(nls,psedit,xset and xreset) KJM 21-MAR-77 0359
 Commented out code for Set and Reset Character Size. 0360

(nls,psedit,setcharsize) KJM 21-MAR-77 0361
 Commented out this procedure to save space. 0362

(nls,jnlldel,jinsubs) JDH 21-MAR-77 0363
 added transfer of submissions from the [sri-kl]<tejournal> to
 Office-1 0364

***JDH 17-MAR-77 2130 [sri-kl]<netsys>nls.exe.5 from gnls.sav;166
 loaded 17-MAR-77 1303 0365

***JDH 17-mar-77 2115 [isid]<netsys>nls.exe.23 from gnls.sav;166
 loaded 17-mar-77 1303 0366

***JDH 17-mar-77 2035 [isic]<netsys>nls.sav;41 from gnls.sav;166
 loaded 17-MAR-77 1303 0367

***JDH 17-MAR-77 2030 [office-1]<netsys>nls.sav;214 from gnls.sav;166
 loaded 17-MAR-77 1303 0368

(nls,psedit,xtab) KJM 17-MAR-77 0369
 Fixed tab command to find the next occurrence from the top of the
 screen in DNLS, not from the last edit. TNL5 unchanged. 0370

***JDH 16-MAR-77 2305 [ISID]<NETSYS>NLS.EXE.22 from GNLS.SAV;165

loaded 14-MAR 2000. 0371
 ***JDH 16-MAR-77 2300 [OFFICE-1]<NETSYS>NLS.SAV;213 from GNLS.SAV;165
 loaded 14-MAR 2000. 0372
 (nls,inpfbk,ctrlgetchar) KJM 16-MAR-77 0373
 Added a check to the record and playback getchar routine to see if
 a ctrl-D occurred since the last call, and if so, terminate (for
 playback only). 0374
 ***JDH 15-MAR-77 1805 [SRI-KL]<NETSYS>NLS.EXE.4 from GNLS.SAV;165
 loaded 14-MAR 2000. 0375
 ***JDH 15-MAR-77 1755 [ISIC]<NETSYS>NLS.SAV;40 from GNLS.SAV;165
 loaded 14-MAR 2000. 0376
 (nls,fintnls,saveit) JDH 14-MAR-77 0377
 change imlac device numbers on KL to funny number so won't get it
 by mistake. What these should be will be decided before we get
 Rome on the KL. 0378
 (nls,ioexec,jfname) JDH 14-MAR-77 0379
 use idnfname for identfile name 0380
 (nls,bconst,idnfname) JDH 14-MAR-77 0381
 new string for identfile name 0382
 (nls,fintnls,saveit) JDH 14-MAR-77 0383
 change identfile directory in *idnfname* to NETSYS for
 sriai20host 0384
 (nls,parser,fbctl) KJM 14-MAR-77 0385
 Added a check for at left margin to clearcfl type for TNLS before
 calling crlf. 0386
 (nls,syntax,zdjump) KJM 10-MAR-77 0387
 Moved the call to updcsp so repeats will work (no x-routine calls
 allowed in the middle of command word sequences). 0388
 (nls,bconst,grpfname) JDH 9-MAR-77 0389
 change directory for group.index from identfile to netsys 0390
 (nls,ioexec,ftpert) JDH 9-MAR-77 0391
 change directory for ftpfrk.sav from net to netsys 0392
 (nls,nddt2,nddtarm) JDH 9-MAR-77 0393
 change directory for nddt.rel from rel-nls to netsys 0394
 (nls,bintnls,jnlin) JDH 9-MAR-77 0395
 change directory for jndel.rel from nic-nls to netsys 0396
 (nls,fintnls,saveit) JDH 9-MAR-77 0397
 for sriai20host, devlproc_13; removed setting of nojournal flag;
 noutprc OK from <netsys>. 0398
 (nls,bconst,sriai20host) JDH 9-MAR-77 0399
 changed to 63B (this will be changed to 102B soon) 0400
 (nls,pssystem,xgoexec) JDH 9-MAR-77 0401
 use "<SYSTEM>EXEC.EXE" on tops20 (instead of ".SAV") 0402
 (nls,syntax,zjcopycontent) KJM 9-MAR-77 0403
 Fixed a bug that had the Sendmail Copy command as a first level
 command, excluding the Comment command. Copy should be second
 level. 0404
 (nls,sintnls,) JDH 9-MAR-77 0405
 Added a REF for rawchr so the procedure IDFRMUSER recently moved
 from fintnls will work. 0406
 (nls,adrmnp,setlt) JDH 7-MAR-77 0407
 Changed so "q" viewspec can't run line truncation to zero lines.
 if anyone thinks up a a good reason to allow zero lines, dafmrt
 can be fixed so it doesn't try to freeze every page in the file
 while it decides the display is empty. 0408
 (nls,seggen,send) DSM 7-MAR-77 0409

Changed the case where an empty string is passed to actually change the string address to that of "\$ ", rather than editing the passed string to contain a space. 0410

(nls,psprogs,xpcompile) JDH 3-MAR-77 0411

Rearranged so Compile File, L10, and Procedure in DNLS go out of display mode while compiling. Goes back to display mode when done if no errors, or if errors, goes back after the CA. No change to Compile Content analyzer. 0412

(nls,cedit2,cshodir) JDH 2-MAR-77 0413

Allow period (for tops20) as well as semicolon for version number delimiter. Was causing "illegal string designation" with "No Version numbers" or "No Extension" options. 0414

(nls,select,getwindow) KJM 19-FEB-77 0415

Added code to find out what character an edge bugmark was on. 0416

***** fixes below here reported to JHB and JMB ***** 0417

(nls,sintnls,gtintmsg) (nls,sintnls,setabs) JDH 15-FEB-77 0418

moved out of fintnls because hi seg full 0419

(nls,cedit1,cinstex and nls,cedit2,creptex) KJM 10-FEB-77 0420

Added a dollar sign to the string construction statements to indicate that any markers in the source text should not go with that text. 0421

(nls,select,xselect) KJM 8-FEB-77 0422

Changed the starting text pointer for address selections to always be curmkr when in Process commands (force TNLS-type addressing). 0423

(nls,frontend,auxstartup and auxinterminate) KJM 8-FEB-77 0424

Set (at startup) and reset (at termination) terminal type to be NVT during Process commands if real terminal type is 33, 35, or offline. 0425

(nls,cedit2,cshowdskspa) (nls,fonly,xconnect) JDH 8-FEB-76 0426

change parameter passed to !gtdal to -1 for tops20 0427

(nls,fintnls,saveit) (nls,fintnls,startup) JDH 7-FEB-77 0428

moved code to set oprtty from startup to saveit 0429

(nls,fconst,oprty) JDH 7-FEB-77 0430

moved from bdata to fconst: it doesn't get changed at startup any more 0431

(nls,fconst,arcoprty) JDH 7-FEB-77 0432

changed arcoprty to -1, prevents ISIC journal delivery from hanging when trying to report bad network foulup. 0433

(nls,inpfbk,specttyout) JDH 7-FEB-77 0434

changed to do nothing if ttyno is neg. 0435

(nls,parser,evaler) KJM 7-FEB-77 0436

Added check for both "OK" and "B" in a prompt. If found, take out the "B" since a bug or OK will both be taken as a CONFIRM. 0437

(programs,format,dispforms) KJM 3-FEB-77 0438

Pulled asking question about displaying forms and put it in CML. Will display forms only if yes, now both in TNLS and DNLS. 0439

(programs,format,fdelims) KJM 3-FEB-77 0440

Rearranged CML so OK prompt will appear. 0441

(programs,publish,zcount) KJM 3-FEB-77 0442

Made the filtered part optionsl as in the rest of NLS. 0443

(nls,syntax,zjinterrogate) KJM 2-FEB-77 0444

Changed the structure of the message source alternatives so backing up from one message source to choose another will work. 0445

(nls,syntax,zdjump) KJM 31-JAN-77 0446

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Added a call to a new x-routine to set the global cspupdate _
ida() to allow non-link jumps to locations specified in links use
the viewspecs in the link in DNLS.                                0447
(nls,pssystem,updcsp) KJM 31-JAN-77                                0448
Added the new procedure; as described in previous change.        0449
(nls,sintnls,idfruser) JDH 31-JAN-77                              0450
moved procedure from FINTNLS because hi seg was full             0451
(nls,auxcod,timerpause) JDH 31-JAN-77                             0452
clear "timrset" after timeout. (in case timer fork fails, don't
want all succeeding "cscreen"s to hang 6 seconds)                 0453
(nls,parser,bugtrap) KJM 28-JAN-77                                 0454
New name for ckrings. Commented out current code to make the
procedure a general place to put in traps.                         0455
(nls,parser,cmdfinish) KJM 28-JAN-77                              0456
Changed call from ckrings to bugtrap.                             0457
(nls,syntax,) JDH 27-JAN-77                                       0458
change protl and prtgrp (rules for SET TENEX file protection
perform loop) to use different parameters. This makes many
flavors of the command work (they apparently never worked).     0459
(nls,cedit1,clogout) KJM 26-JAN-77                                 0460
Added check for processing commands; if so, reset command
recognition mode to the user's normal.                            0461
*****brought up [office-1]<netsys>nls.sav;210 from
<rel-nls>gnls.sav;153 (loaded 19-JAN-77 10:22) JDH 25-JAN-77 18:35 0462
*****brought up [isid]<netsys>nls.exe.16 from <rel-nls>gnls.sav;153
(loaded 19-JAN-77 10:22) JDH 25-JAN-77 16:20                      0463
(nls,cedit2,cundmodfil) KJM 25-JAN-77                             0464
Replaced the dummy procedure with the real thing.                 0465
(nls,filmnp,makepc) KJM 25-JAN-77                                  0466
Added an extra arg so it can be used to undelete mods: checks
that arg and if undeleting just hooks partial copy to NLS file. 0467
(nls,filmnp,wrpi and crepc) KJM 25-JAN-77                         0468
Changed calls to makepc to include extra arg.                     0469
(nls,ioexec,openlock and opnctfile) KJM 25-JAN-77                0470
Changed calls to makepc to include extra arg.                     0471
(nls,select,getaddr) KJM 25-JAN-77                                 0472
Added check for empty window and an address not specifying a
different file (to be loaded in that window).                     0473
(nls,syntax,zjinterrogate and zjsend) KJM 25-JAN-77              0474
Changed "Send the mail?" query to require an extra "really?"
confirm.                                                            0475
(nls,syntax,zjcopycontent) KJM 25-JAN-77                          0476
Added a new command to copy the content of the current sendmail
message after a specified statement.                                0477
(nls,pssendmail,xjcopycontent) KJM 25-JAN-77                      0478
Added the Copy Content command; see above.                         0479
(nls,sdata,nonetworkflag) JDH 24-JAN-77                           0480
new flag for non network system. if non-zero, is the "host"
number returned from "hostnumber".                                 0481
(nls,sintnls,hostnumber) JDH 24-JAN-77                            0482
return value of nonetworkflag if it is nan-zero                   0483
(nls,fintnls,saveit) JDH 24-JAN-77                                0484
set up flags for sriai20host                                       0485
(nls,bconst,sriai20host) JDH 24-JAN-77                            0486

```


SRI AI 20-50 host number, temporarily set to 1 for use with
nonetworkflag until it is on the net. 0487

*****brought up [isic]<netsys>nls.sav;37 from <rel-nls>gnls.sav;153
(loaded 19-JAN-77 10:22) JDH 23-JAN 23:35 0488

(nls,inpfbk,rdlit) KJM 19-JAN-77 0489

Fixed bug in literal escape code (rdlle) where control was falling
through to the spaces for tabs code. 0490

(nls,syntax,zjexpedite and zjunrecorded) KJM 17-JAN-77 0491

Added a CONFIRM so they won't just go off and do their thing
without a go-ahead. 0492

(nls,syntax,zcopy) KJM 17-JAN-77 0493

Pulled the seqtype part of Copy Sequential out as a separate rule
so <^Q> will give you the right info; coordinated with a change in
the Help files. 0494

(nls,finfnls,saveit) JDH 13-JAN-77 0495

set old (pre NOV 76) ISID branch to be called for isir1host (NELC
machine) 0496

(nls,bconst,isir1host) JDH 13-JAN-77 0497

first NELC machine host number 0498

(nls,filmnp,getptab) JDH 13-JAN-77 0499

changed to allow property types IN [40000B, 77777B] definable by
users. property sequence numbers returned for these types by
getptab are the types themselves. 0500

(nls,verify,ckstrc) JDH 13-JAN-77 0501

1. check for a text block in the highest level structure 0502

2. check for order and no duplications in sdb's at a node 0503

3. allow property types IN [40000B, 77777B] (for users). 0504

(nls,psedit,xlinefeed & xuparrow & xperiod & xslash & xbslash) KJM
13-JAN-77 0505

Added code to check da.daempty before going ahead; if TRUE, call
err to say no file loaded. 0506

*****Brought up [OFFICE-13]<NETSYS>NLS.SAV from <rel-nls>gnls.sav;150
(loaded 9-JAN-77) JDH 12-JAN-77 0507

(nls,psupport,seqbinit and seqbadd) KJM 11-JAN-77 0508

Fixed the recent fixes to really work. 0509

(nls,psedit,xdiropt) KJM 11-JAN-77 0510

Fixed the call to lnbfls for the For File diropt; with above fixes
to seqbinit and seqbadd will allow Copy Directory and Show
Directory to work when For File option is given before other
options. 0511

*****Brought up [ISIC]<NETSYS>NLS.SAV;36 and [ISID]<NETSYS>NLS.EXE
from <rel-nls>gnls.sav;150 (loaded 9-JAN-77) JDH 10-JAN-77 0512

(nls,catnum,movecnum) (nls,csendmail,jlog) (nls,csendmail,jsubmit)
JDH 7-JAN-77 0513

changed call to dtfrmt to pass -1 instead of results of !gtad.
0514

(nls,parser,supervisor) (nls,inpfbk,errfill) (nls,filmnp,reprop)
(nls,filmnp,initdb) (nls,ioexec,setfil) (nls,auxcod,lockpage)
(nls,auxcod,mscrfile) (nls,credit2,updtfl) (nls,credit2,copfil) JDH
7-DEC-77 0515

changed !JSYS gtad calls to "gtadcall()". 0516

(nls,sdata,lcltimzon) JDH 7-JAN-77 0517

new, local time zone for displaying statement signatures,etc.
could be user option 0518

(nls,sdata,gmtflag) JDH 7-DEC-77 0519

temporary kludge flag since ISID is running Pacific time but

saying GMT is the local time zone. gtdacall (which always returns TENEX internal format) uses this flag to decide if it should add 8 hours to !gtad time. 0520

(nls,auxcod,gtdacall) JDH 7-JAN-77 0521
new proc., get time in TENEX internal format, particularly for statement signatures. 0522

(nls,auxcod,gmtfset) JDH 7-JAN-77 0523
temporary procedure to set gmtflag on tops20 if it hasn't been set. checks local time zone for Greenwich. 0524

(nls,auxcod,datfrmt) JDH 7-JAN-77 0525
re-written to expect TENEX format regardless of machine. uses "icitimzon" for local time zone instead of monitor's local time zone. 0526

(nls,psedit,xdelete) KJM 7-JAN-77 0527
Added code to set cspupdate FALSE to keep da.daempty from getting set FALSE; deleting loaded file in TMLS should keep daempty TRUE until another file loaded. 0528

(nls,cedit1,ccopdir) KJM 7-JAN-77 0529
Added calls to cnvcrlfteol before inserting copied directory strings into a file; get rid of CR LF's. 0530

(nls,psupport,seqbadd) KJM 6-JAN-77 0531
Added code to allocate string space for a-strings so they won't get lost if more dir options or whatever follow. 0532

(nls,psupport,seqbinit) KJM 6-JAN-77 0533
Added code to deallocate strings allocated by above (added in the cleanup branch). 0534

(programs,message,mllimmediate) KJM 6-JAN-77 0535
If message can't be delivered immediately, trys to do deferred delivery. 0536

(nls,frontend,uplsfnm) KJM 5-JAN-77 0537
Fixed bug when renaming a file to a longer name; now points srr to the newly allocated (longer) file name. 0538

(nls,psedit,xreplace) KJM 4-JAN-77 0539
Changed Replace Text-type entities call to clist to include only markers (not csp's, too) because displays were getting moved to replaced text if first char on screen was among the replacements. 0540

(nls,cedit1,ccrefil) KJM 23-DEC-76 0541
Changed to allow creation of gtjfn error "no such version". If all versions of the file to be created are deleted, the creation will go ahead (with the next higher version). 0542

(nls,l10runtime,fechcl) JDH 23-DEC-76 0543
removed KLH fix. need to clarify documentation for "BETWEEN" construct: textpointers have to be in normal order regardless of intended scan direction. 0544

(nls,syntax,zjnumber) KJM 22-DEC-76 0545
Added CONFIRM after Sendmail's Number Previously reserved command to make it consistent with the rest. 0546

(nls,psedit,subststatus) KJM 21-DEC-76 0547
Changed to make status for Substitute Text have a different format to include up to 120 (not 20) characters of the text, with new above old (not columns). 0548

(nls,seqfil,hmapin) JDH 21-DEC-76 0549
set first cell of freemap zero as flag that high seg not mapped out. 0550

(nls,utility,doctrlc) JDH 21-DEC-76 0551

check freemap before trying to call condevline (in high seg.).
 call to condevline is in case user has changed (lost) his network
 connection, if this happens while compiler or processor is in,
 user will have to hit "system reset" to get his screen back. 0552

(nls,dspgen,cscreen) KJM 21-DEC-76 0553
 Added call to timerpause before clearing the screen; if previous
 timed dismes is still within its time, the screen won't clear
 immediately. 0554

(nls,auxcod,dismes) KJM 21-DEC-76 0555
 Added call to timerpause before putting up any dismes on a
 display; if previous timed dismes is still within its time, the
 current one will wait. 0556

(nls,auxcod,settimer) KJM 21-DEC-76 0557
 Took the code to wait on the timing fork out of this procedure and
 moved it to timerpause (so dismes can call it separately). 0558

(nls,auxcod,timerpause) KJM 21-DEC-76 0559
 Added this procedure to wait up to 6 seconds if the timer fork is
 still timing. Called by dismes and cscreen to keep from wiping
 out a timed dismes. 0560

(nls,pssendmail,xjprocess) JDH 18 DEC 76 0561
 change parameter in setjsource call from stmtv to textv (because
 of change to setjsource) 0562

(nls,syntax,zjinterrogate) JDH 18-DEC-76 0563
 in "INTERROGATE" change parameter to setjfield call from
 #"STATEMENT" to #"TEXT" for a message. 0564

(nls,frontend,pushfrring) KJM 17-DEC-76 0565
 Fixed bug in zeroing out file number in file/statement return ring
 for "unloaded" file. Was using local frr instead of fre. 0566

***** fixes below here reported to JHB and JMB ***** 0567

(nls,pssendmail,xjprocess) KJM 14-DEC-76 0568
 Fixed call to grptst in group processing; return args were being
 lost or misstored. 0569

*****Brought up [ISIC]<netsys>nls.sav;33 and [ISID]<netsys>nls.exe.12
 from [ISIC]<rel-nls>gnls.sav;146 loaded 14-DEC-76 16:26 (JDH
 14-DEC-76 21:45) 0570

(nls,auxcod,cnvcrlfiteol) KJM and JDH 14-DEC-76 0571
 Fixed a bug that caused second and later CRLF's to get converted
 to CR, not EOL. 0572

(nls,csendmail,jstatus) KJM 13-DEC-76 0573
 Changed the BRANCH BEGINNING and GROUP BEGINNING string to be
 BRANCH AT and GROUP AT, so process sendmail form will work with
 the status format. 0574

(nls,pssendmail,xjinsstatus) KJM 13-DEC-76 0575
 Change status string for a group source to delete "[THROUGH]"
 before inserting it. To let process sendmail form work. 0576

(nls,pssendmail,xjprocess) KJM 13-DEC-76 0577
 Fixed two bugs that kept it from finding the second address
 expression of a group. 0578

(nls,dspgen,stfrmt) KJM 11-DEC-76 0579
 Changed a comparison at the very end of lsgfrmt from "<=" to "<".
 Bug was that last (partial) stmt on the screen was getting marked
 as a complete statement if line clipping was on and only one line
 was left off. 0580

(nls,inpfbk,litbc) KJM 11-DEC-76 0581
 Commented out special code for backspacing over a LF or EOL when
 previous character was a printing char. 0582

(nls,syntax,) JDH 8-DEC-76 0583
 changed "MESSAGE" submission to call jsetfield with "#TEXT"
 instead of "#STATEMENT" . 0584

(nls,pssendmail,jsetfield) JDH 8-DEC-76 0585
 added "text" case to differentiate between "message" and
 "statement" source 0586

(nls,csendmail,setjsource) JDH 8-DEC-76 0587
 Added "textv" case to differentiate between "message" and
 "statement" source. For "statement" source, do ccopsta instead of
 cinssta, should get graphics hanging from statement. 0588

(nls,jnldel,jinsubs) JDH 8-DEC-76 0589
 changed "isie" to "isid" for picking up journal submissions 0590

(nls,dspgen,wrtstr) KJM 7-DEC-76 0591
 Fixed the bug that caused line processors to go crazy when the
 first character of a line was a special character like <ESC>.
 Check for rtx2 = 777777 (logical -1, but doesn't get added in that
 way) and set a local to rtx2 or -1, then use it instead of rtx2. 0592

(nls,psedit,xforce) KJM 7-DEC-76 0593
 Changed value curchr[1] set to for Force case Character. Was set
 to dest[1]-1, which set to 0 for forcing first char of stmt, now
 set to dest[d2sel+1]-1. 0594

(nls,dspgen,stfrmt) KJM 7-DEC-76 0595
 Fixed a case where last char of last line on screen was <CA>, and
 was trying to display it on next line. Now notices that there are
 no more lines on screen. 0596

(nls,dspgen,prcmds) KJM 7-DEC-76 0597
 Code that linked together line segments on the same line changed
 to do so only if the first one is to the left of the second. Was
 assuming line segs always put out left to right; not true for some
 cases of stmt nos. and signatures on. 0598

(nls,pssendmail,xjforward) KJM 6-DEC-76 0599
 Changed the id list local string to 1000 chars to be like the
 original action/info string limits. 0600

(nls,cedit2,cshofrring) KJM 6-DEC-76 0601
 Added a signal handler around the call to readfrring to handle the
 case where the current frr entry does not exist (because the file
 was deleted). 0602

(nls,psupport,clist and clupdt) KJM 6-DEC-76 0603
 Added a signal handler around the calls to readfrring to handle
 the case where the current frr entry does not exist (because the
 file was deleted). 0604

(nls,frontend,mkdelfrr) KJM 6-DEC-76 0605
 Added this procedure to mark frr entries as non-existing for
 deleted files. 0606

(nls,psedit,xdelete) KJM 6-DEC-76 0607
 Added code to close deleted files and take them out of the file
 return ring. 0608

(nls,pssendmail,xjzapworfil) (nls,pssendmail,xjloaworfil) JDH
 1-DEC-76 0609
 changed square brackets to "\$"s in journal work file names 0610

(nls,psuserop,uoget) JDH 1-DEC-76 0611
 changed square brackets to "\$"s in userprofile file name 0612

(nls,finfnls,saveit) JDH 1-DEC-76 0613
 branch for isiehost changed to happen for isidhost. old isidhost
 branch made inoperative 0614

(nls,utilty,filesc) KJM 30-NOV-76 0615
 Added code to update correspondence list for cases when the text
 manipulated was in the correspondence list (to keep markers
 up-to-date). 0616

(nls,cedit1,coutproc) KJM 30-NOV-76 0617
 Added a call to input at the end (if waiting for page breaks) to
 wait before typing BASE C: (so NSA won't have to type on their
 plattens). 0618

(programs,format,idconvert) KJM 24-NOV-76 0619
 Changed to use the author's address instead of the address of
 his/her organization. 0620

(nls,il0runtime,fechcl) JDH 23-NOV-76 0621
 change endpointer for backwards "BETWEEN" scans from "ps" to "pe".
 0622

(nls,execfl,gtdesjfn) KJM 23-NOV-76 0623
 Corrected goof from previous fixes. 0624

(nls,dspgen,cline) KJM 23-NOV-76 0625
 Added check to return on request to clear 0 positions, rather than
 call err. 0626

(nls,ioexec,coropnfil) JDH 22-NOV-76 0627
 changed to accept old type directory field in lock word at
 Office-1 0628

(nls,psedit,dfltname) JDH 19-NOV-76 0629
 change parens to \$'s in default output file name 0630

(nls,jnlidel,ftprcop) JDH 18-NOV-76 0631
 on the error condition "account not valid", assume that ftplog has
 been properly completed and resume execution after that procedure
 call 0632

***Changes below here sent to NSA 0633

(nls,jnlidel,jrnamf) JDH 17-NOV-76 0634
 changed to not be sensitive to the terminator on the new extension
 0635

(nls,jnlidel,jinsubs) JDH 17-NOV-76 0636
 Replaced call for FTP xfer of journal submission files at BBNB to
 one getting files from ISIE 0637

(nls,jnlidel,ftprcop) JDH 17-NOV-76 0638
 changed to do the right thing if the remote host is TOPS20 (the
 remote extension argument terminates with a priod instead of a
 semicolon) 0639

(nls,help,freemenu) DSM 16-NOV-76 0640
 Fixed bug which neglected to set totcnt field of a context pointer
 to 0 when it freed a menu context block. This is the culprit that
 was causing "Data Base Portrayal error for long HELP or Query
 sessions. 0641

(nls,fintnls,saveit) JDH 15-NOV-76 0642
 change cpcldelim and cpcrdelim to "\$" for TOPS20 and ISID 0643

(nls,ioexec,cpcnam) JDH 15-NOV-76 0644
 use "cpcldelim" and "cpcrdelim" in making up partial copy name.
 0645

(nls,bconst,cpcldelim) (nls,bconst,cpcrdelim) JDH 15-NOV-76 0646
 new constants, delimiters in partial copy name for directory of
 original file. are generally parens on TENEX and "\$" on TOPS20.
 0647

(nls,utilty,doctrlc) JDH 15-NOV-76 0648
 changed IIC to HALTF in control-C-handling routine 0649

(nls,sintnls,inittimer) JDH 11-NOV-76 0650

enable timer fork "can map superior" bit. Allows IIC to work on superior 0651

(nls, fintnls, setinterrupts) JDH 11-NOV-76 0652
 changed back to use channel 4 interrupt since we found out how to make IIC work on a superior 0653

(nls, cedit1, ccrefil) JDH 11-NOV-76 0654
 in checking if the file exists, allow the error "NO SUCH EXTENSION" (given by TOPS20) as well as "OLD FILE REQUIRED" 0655

(nls, parser, fbhelp) JDH 10-NOV-76 0656
 change EOL's to CRLF's in help message. involves calling ap2clstr in making up the HELP help string 0657

(nls, parser, ap2clstr) JDH 10-NOV-76 0658
 new procedure, appends a string to another, separated by 2 CRLF's 0659

(nls, csyngen, onode) JDH 9-NOV-76 0660
 change EOL's to CRLF's in output directed to terminal 0661

(nls, auxcod, cnveoltcrlf) JDH 9-NOV-76 0662
 new procedure. convert eol's in string to crlf's. 0663

(nls, parser, cshelp) JDH 9-NOV-76 0664
 convert any EOLS in help message from file to CRLF's 0665

(nls, parser, fbldhlp) (nls, parser, cshelp) JDH 9-NOV-76 0666
 changed EOL's to CRLF's in status messages 0667

(nls, fonly, xconterm) KJM 9-NOV-76 0668
 Added setting linkcns1 global so Disconnect Terminal will work. 0669

(nls, pssendmail, jidstatus) JDH 8-NOV-76 0670
 changed EOL's to CRLF's in status message 0671

(nls, pssendmail, xjinsstatus) (nls, pssendmail, xjinsrecord) JDH 8-NOV-76 0672
 call cnvcrlfteol before inserting status strings into file 0673

(nls, auxcod, cnvcrlfteol) JDH 4-NOV-76 0674
 new procedure to convert a string (usually a status message) with CRLF's to one with EOL's. used primarily to prepare string for insertion in an NLS file 0675

EOFFICE-11<NETSYS>NLS.SAV backed up 4-NOV AM. 0676
 <NETSYS>NLS.SAV brought up at ISIC and OFFICE-1 from
 <rel-nls>gnls.sav;138 loaded 3-NOV-76 11:32 0677

(nls, psedit, xshow) JDH 2-NOV-76 0678
 use dirsfname instead of fvrldchar construct 0679

(nls, cedit2,) cprofil, cshodir, cshodskspa, cshofrring, cshosrring, ctridir, cundfil JDH 2-NOV-76 0680
 changed EOL's to CRLF's in status messages 0681

(nls, bconst, dirsfname) JDH 2-NOV-76 0682
 new string, "*.*;*" gets semicolon changed during tops20 saveit 0683

(nls, cedit2, cshodskspa) (nls, cedit2, ctridir) JDH 2-NOV-76 0684
 use dirsfname instead of "*.*;*" 0685

(nls, fintnls, setinterrupts) JDH 2-NOV-76 0686
 changed msgpsi to channel 19 (inferior fork halt) since IIC can't cause interrupt in superior fork on tops20 0687

(nls, auxcod, stoptimer) (nls, auxcod, settimer) JDH 2-NOV-76 0688
 moved !rfork() (thaw fork) from stoptimer to settimer after fork has been started because of apparent tops20 glitch. 0689

(nls, auxcod, stoptimer) JDH 2-NOV-76 0690
 changed fork status check from 14B10 to 2B6. don't know where 14B10 came from. 0691

(nls,psupport,clist) KJM 29-OCT-76 0735
 Added mechanism to catch a signal that the correspondence list block is too small. Allocates a new larger one and frees the current one. Calls upclptr to increment to the next clist element and check for running out of space. 0736

(nls,psupport,upclptr) KJM 29-OCT-76 0737
 New procedure called by clist. Signals the error clisterr if the next correspondence list element would run past the end of the current block. 0738

(nls,execfl,gtdesjfn) (nls,execfl,parseinput) (nls,execfl,triflandpc) (nls,execfl,unprseinput) JDH 28-OCT-76 0739
 filename version number delimiter: use fvrldchar in string statements, allow "." in find statements. 0740

(nls,utility,flagut) (nls,cedit2,updtfl) (nls,cedit2,compactfile) (nls,ioexec,clrcor) (nls,auxcod,meastart) (nls,psuerop,uoclos) JDH 27-OCT-76 0741
 make sure r3 set OK on pmap, even when releasing a page. tops20 pays attention. 0742

(nls,ioexec,setfil) (nls,ioexec,rhdhr) JDH 26-OCT-76 0743
 Don't pmap in a non-existent page unless it's for write. 0744

(nls,ioexec,writeout) JDH 26-OCT-76 0745
 set r3_0 before the pmap. tops20 pays attention. (in a possibly embarrassing manner) 0746

(nls,utility,psi) JDH 26-OCT-76 0747
 change EDL's to CRLF's in illegal instruction message 0748

(nls,grunldr,) JDH 26-OCT-76 0749
 moved ndtddata back to low seg, at least temporarily. (needed the space) 0750

(nls,identsupport,ckilmem) JDH 26-OCT-76 0751
 added ">"s to FIND statements causing loop when "lgngrps" is not empty 0752

(nls,fintnls,saveit) JDH 26-OCT-76 0753
 call t2fnsupdate for isie (maybe should change to call on tops20flag) 0754

(nls,fintnls,t2fnsupdate) JDH 26-OCT-76 0755
 new procedure, processes block of strings, changing the first semicolon in each string to a period 0756

(nls,bconst,t2fsbegin) JDH 26-OCT-76 0757
 block of strings containing file names with version numbers, grouped together so they can be found for tops20 to change the semicolons to periods. 0758

(nls,fintnls,getuident) JDH 26-OCT-76 0759
 used file name string "grpfname" so fintnls can change the ";" to "." for tops20 0760

(nls,utility,flgpage) JDH 26-OCT-76 0761
 used file name string "flgfname" so fintnls can change the ";" to "." for tops20 0762

(nls,psendmail,xjloaworfil) JDH 26-OCT-76 0763
 use fvrldchar instead of ";" in file name of sendmail work file 0764

(nls,fintnls,loderrm) JDH 25-OCT 76 0765
 new proc. for calling typeas to put out loading error messages to the load map. Done to save space and put out CR LF's instead of EDL's 0766

(nls,fintnls,) JDH 25-OCT-76 0767
 fixes to always put out CRLF's, handle CRLF's on input. (Call

rawchr instead of doing !pbin's) 0768
 (nls,bintnls,) JDH 25-OCT-76 0769
 fixes to always put out CRLF's, handle CRLF's on input. (Call
 rawchr instead of doing !pbin's) 0770
 (nls,inpfbk,getchar) JDH 25-OCT-76 0771
 for TOPS20, convert CR LF to EOL (which is what TENEX would give).
 0772
 TOPS20 always sends the two chars CR LF when the "return" key is
 hit. 0773
 (nls,colsrt,chkprm) thru (nls,colsrt,siftup) JDH 25-OCT-76 0774
 moved collector-sorter support routines past "FINISH" 0775
 (rel-nls,grunldr.txt;8) DSM 25-OCT-76 0776
 Moved NDDTDATA from low seg to high seg to make room for
 additional code in seggen. 0777
 (nls,brecords,segr) DSM 25-OCT-76 0778
 Added several fields (one more word) to this record. For complete
 details see (28771,). 0779
 (nls,seggen,) DSM 25-OCT-76 0780
 Changed the procedures seqinit, getsgw, and relsgw to allocate
 stack area and statement vector work areas for all but the first
 two sequences opened. The storage allocated is freed at close
 sequence time. See (28771,) for complete details. 0781
 (nls,bconst,) DSM 25-OCT-76 0782
 Changes to number of sequence work stacks declared. Changed from 4
 to 2. Added the 4 extra pages gained to dspblk. See (28771,) for
 complete details. 0783
 (nls,bdata,) DSM 25-OCT-76 0784
 Changes to number of sequence work stacks declared. Changed from 4
 to 2. Added the 4 extra pages gained to dspblk. See (28771,) for
 complete details. 0785
 (nls,parser,getuprog) moved to (nls,cprograms,getuprog) DSM 22-OCT-76
 0786
 This is where it should have been. I believe I put it in parser
 when I wrote it long ago. 0787
 (nls,bconst,pmfjfn) JDH 20-OCT-76 0788
 jfn for "PMF" file 0789
 (nls,findnls,startup) JDH 20-OCT-76 0790
 dummy successful FIND statement (get around apparent runtime bug)
 0791
 (nls,sintnls,tenexverno) JDH 20-OCT-76 0792
 changed to always return 13301 (decimal). all dependencies on
 "tenex" are being removed. 13100 ARC system non-existent. 0793
 (nls,bconst,isihost) JDH 20-OCT-76 0794
 changed from 64B to 164B 0795
 (nls,seqfil,hmapout) JDH 20-OCT-76 0796
 if !rmap returns fork page handle, call pmfmap to map it to "pmf"
 file (tops20 doesn't take care of the jobpmf file like tenex) 0797
 (nls,seqfil,pmfmap) JDH 20-OCT-76 0798
 new procedure, maps fork page to a free page in "\$UPMF\$.PGS;T" so
 it can be removed from map and be gotten back later. 0799
 (nls,psedit,xreset) KJM 20-OCT-76 0800
 Changed call in Reset Name delimiters in Statement to cresnsta to
 omit the last deleted argument (see second note below this). 0801
 (nls,auxcod,nmdlset and nmdlpsset and nmdlgsset) KJM 19-OCT-76 0802
 Deleted these procedures. Not being used. 0803
 (nls,cedit2,cresnsta) KJM 19-OCT-76 0804

Deleted last argument to this procedure; changed to call csetnsta
and not csetngro. 0805

(nls,cedit2,csetngro) KJM 19-OCT-76 0806

Deleted call to nmdlgset and added code formerly in nmdlgset. 0807

(nls,ioexec,gtjerr) KJM 19-OCT-76 0808

Changed error message for file not found. 0809

(nls,syntax,zcopy) KJM 19-OCT-76 0810

Changed the noiseword for Copy File to "to a new file to be named"
for clarity (that the "to" file doesn't already exist). 0811

(nls,execfl,gtdesjfn) KJM 19-OCT-76 0812

Changed to distinguish between cases where it couldn't get the JFN
and where it got the JFN of an existant file. 0813

(nls,jnldel,nwkdatehcd) JDH 19-OCT-76 0814

put " At" in between date and time 0815

(nls,psuserop,uoget) JDH 19-OCT-76 0816

use fvrldchar as version number delimiter for user-profile file
name 0817

(nls,filmp,reprop) JDH 19-OCT-76 0818

JEW's fix to end of procedure so insitree won't get called with
first arg zero. 0819

(nls,fconst,ctld) DSM 19-OCT-76 0820

Added the constant SET EXTERNAL ctld=4 to fconst. It was
referenced from (nls,auxcod,mscrfile). 0821

(nls,adrmnp,feedlt) and (nls,adrmnp,setlt) DSM 15-OCT-76 0822

Moved these two procedures from (nls,prmspc,) to (nls,adrmnp).
These procedures are called when evaluating viewspecs in a link,
and are therefore needed by the INCLUDE sequence Generator, when
the procesors are mapped in. Together they total 654 (octal)
words. 0823

*** [OFFICE-1]NLS.SAV;202 and [ISIC]NLS.SAV;27 brought up from
gnls.sav;120 loaded 8-OCT-76 18:38, brought up 13-OCT 21:30 . 0824

(nls,cedit2,updtfl) JDH 13-OCT-76 0825

use fvrldchar as version numver delimiter. 0826

(nls,bconst,fvrldchar) JDH 13-OCT-76 0827

simple variable with version number delimiter. ";" for tenex, "."
for tops20. 0828

(nls,fintnls,saveit) JDH 13-OCT-76 0829

for isie, change fvrldchar to "." 0830

(nls,ioexec,getversn) (nls,ioexec,incrvrsn) (nls,ioexec,cpcnam) JDH
13-OCT-76 0831

allow "." as well as ";" for version number delimiter 0832

(nls,bconst,isiehost) JDH 13-OCT-76 0833

isie host number 0834

(nls,fintnls,startup) (nls,fintnls,saveit) JDH 13-OCT-76 0835

cleanup obsolete code: set nlsnam to "NLS" regardless of line
no., nlstyp to nttyp for tnls (can find no use for nlstyp). took
out "setpriority" call in saveit. 0836

(nls,cedit2,updtfl) JDH 13-OCT-76 0837

removed "jokludgeupdtfl" test. (used by journal to change a ; to
a : in th origin of journal items being sent to NLS7 system) 0838

(nls,jnldel,jinsubs) JDH 13-OCT-76 0839

removed "jokludgeupdtfl" setting on update to <OUTJOURNAL> 0840

(nls,filmp,wrpi) (nls,filmp,makepc) JDH 13-OCT-76 0841

pmap file page back to memory after mapping memory to file. 0842

tops20 pmap fork to file releases page from fork 0843

(nls,sdata,tops20flag) JDH 13-OCT-76 0844

new flag	0845
(nls, fintnls, getuident) JDH 13-OCT-76	0846
changed to ask user for ident if "<IDENTFILE>group.index" does not exist--formerly asked user if "nojournalfalg" set	0847
(nls, frontend, frlength) KJM 12-OCT-76	0848
Fixed to return -1 when there are no valid entries in the file return ring. Formerly returned 0 for 0 or 1 valid entry.	0849
(nls, cedit1, cappsta) KJM 12-OCT-76	0850
Fixed so appending statements with substructure will leave the substructure in the same relative order as the two parts of the appended statement; was reversed.	0851
(programs, modify, appgro) KJM 12-OCT-76	0852
Changed to append only top-level (relative to the plex or group) statements, leaving substructure unappended and in its original order.	0853
(nls, parser, cmdfinish) KJM 12-OCT-76	0854
Set rubnocob flag FALSE so ^O will clear output buffer.	0855
(nls, psedit, xout1) KJM 12-OCT-76	0856
Set rubnocob flag TRUE so ^O won't clear output buffer.	0857
(nls, psprogs, xpcompile) KJM 12-OCT-76	0858
Set rubnocob flag TRUE so ^O won't clear output buffer.	0859
(nls, pssystem, xjump) KJM 12-OCT-76	0860
Set rubnocob flag TRUE so ^O won't clear output buffer.	0861
(nls, frontend, storesrring) KJM 11-OCT-76	0862
Changed bad file numbers error message, now returns after that message; and fixed to use the index argument (not just always store into the top srr entry).	0863
(nls, auxcod, mscrfile) KJM 11-OCT-76	0864
Added header character D for DNLS or T for TNLS to measurement file.	0865
(nls, fintnls, initdis and setinterrupts) KJM 8-OCT-76	0866
Took out some tenex < 132000 code to get space.	0867
(nls, inpfbk, dinbc) KJM 8-OCT-76	0868
Put the code for (IMLAC) control chars back in; taking it out loused up RADC.	0869
(nls, syntax, zexpunge) KJM 8-OCT-76	0870
Added noisewords to Expunge Directory.	0871
(nls, execfl, dlbgad) KJM 6-OCT-76	0872
Deleted "-1" in setting max length of an allocated string; was causing "string too long" error.	0873
(nls, colprt, sort) KJM 5-OCT-76	0874
Changed use of ccopgro to take advantage of new return arguments.	0875
(nls, syntax,) DSM 4-OCT-76	0876
The Institute Program as Sequence generator command was not working because the command word was spelled differently in the command and the DECLARE COMMAND WORD branch. I changed the entry in the DECLARE COMMAND WORD branch from SEQGENERATOR to SEQGEN.	0877
(nls, cedit1, ccopgro and cmovgro) KJM 30-SEP-76	0878
Changed to return both first and last stids of the group manipulated.	0879
(nls, cedit2, crepgro and ctragro) KJM 30-SEP-76	0880
Changed to return both first and last stids of the groups manipulated.	0881
(nls, cedit2, ctrasta) KJM 30-SEP-76	0882

Changed to return stids of both statements. 0883
 (nls,filmgp,copgrp and copfgrp) KJM 30-SEP-76 0884
 Changed to return both first and last stids of the group
 manipulated. 0885
 (nls,csendmail,getcacc) JDH 29-SEP-76 0886
 Removed 15-SEP change: routine is called for other statements
 besides catalog entries 0887
 (nls,psendmail,xjinsstatus) KJM 28-SEP-76 0888
 Put < and > around file name in Insert Status form command. 0889
 (nls,ioexec,getenf) KJM 28-SEP-76 0890
 added arg. which if true, means to check the external link file in
 the origin statement of the specified file; if false, go directly
 to user profile. 0891
 (nls,adrmnp,caddexp) KJM 28-SEP-76 0892
 Calls getenf with extra type argument, intercepts signal and
 repeats call to getenf to check the useroption external link file
 if the specified external link file failed. 0893
 (nls,fdata,noclrall) KJM 28-SEP-76 0894
 Added this global to be used by substitute command (and others?)
 to keep the display stuff from calling cscreen and losing the tty
 window. 0895
 (nls,psedit,xsubstitute) KJM 28-SEP-76 0896
 Added code to set noclrall TRUE (preserve the tty window with its
 "substitutions made: N" message). 0897
 (nls,dspgen,clearda) KJM 28-SEP-76 0898
 Added code to check noclrall and clear each window separately if
 TRUE, even if all windows are to be cleared. 0899
 (nls,parser,cmdfinish) KJM 28-SEP-76 0900
 Added code to set noclrall FALSE after each command. 0901
 (programs,modify,ekmadr) KJM 27-SEP-76 0902
 Fixed bug that inserted all addresses after the first to follow
 the destination at the same level, regardless of specified level. 0903
 (nls,psedit,subldsp) KJM 22-SEP-76 0904
 Changed the message displayed for the old entity in a
 substitution. 0905
 (nls,psupport,clist and clupdt) KJM 22-SEP-76 0906
 In the file return code, changed the boundary conditions from <=0
 to <0 to get all files in each frr and all statements in each srr.
 In the CSP code, added a check (in clist) for curmkr = da.dacsp
 and set a flag accordingly; and added code (in clupdt) to reset
 curmkr if the flag is TRUE. 0907
 (nls,l10runtime,clhdr and clistr) KJM 21-SEP-76 0908
 Fixed some nonsense comments for clfnol and clfno2 in clhdr; added
 a new field (clcurmkr) in clistr. 0909
 (nls,srecords,frrheader) KJM 21-SEP-76 0910
 Moved a field to follow the rest to simplify debugging (to make
 6-bit fields coincide with octal number boundaries). 0911
 (nls,ioexec,coropnfil) KJM 21-SEP-76 0912
 Changed to use a local string for the file name instead of the
 global string from undata (which file should go away some day). 0913
 (nls,psuserop,uotabs) KJM 19-SEP-76 0914
 Added capability of setting only one tab stop in useroptions; also
 cleaned up some FIND statements. 0915
 (nls,identsupport,ckilmem) JDH 15-SEP-76 0916

rewritten to be iterative instead of recursive (was blowing stack). allows lowercase in AccessList. does not search user's groups if AccessList consists only of individuals. 0917

(nls,csendmail,getcacc) JDH 15-SEP-76 0918
only find AccessList in journal header part of catalogue entry (i.e., must come immediately before "Clerk:" field) 0919

(nls,syntax,zcopy) KJM 14-SEP-76 0920
Changed a null noiseword in Copy Directory to "directory options". 0921

(nls,credit2,iupper) KJM 14-SEP-76 0922
Added check for apostrophe so first letter caps won't capitalize after apostrophe inside a word. 0923

(nls,adrmnp,caddexp) KJM 14-SEP-76 0924
Changed ".e" address expression (as in Jump to End) to ignore current level clipping; calling getvnd with level clipping = 1000. 0925

(nls,identsupport,orgrptst) JDH 14-SEP-76 0926
made so can take a-string or stid in place of string address. cleaned up code. 0927

(nls,identsupport,getigrps) JDH 14-SEP-76 0928
made so can take a-string or stid in place of string address. 0929

(nls,identsupport,getiend) JDH 14-SEP-76 0930
made so can take a-string or stid in place of string address. 0931

(nls,identsupport,getpointer) JDH 14-SEP-76 0932
new routine, takes either string address, a-string, or stid. returns a-string or stid unchanged. returns a-string if given string address. expect this to be used to modify several "geti" routines so they may be called with stids 0933

(nls,auxcod,rubout) JDH 12-SEP-76 0934
inhibit "clear output buffer" during ^O if "rubnocob" flag set. 0935

(nls,bdata,rubnocob) JDH 12-SEP-76 0936
new flag to be set by GRAPHICS, etc. to inhibit "clear output buffer" during ^O 0937

(nls,fintnls,saveit) JDH 7-SEP-76 0938
set *opname* to <SUBSYS> instead of <NETSYS> for hosts other than BBNB, ISIC, OFFICE-1, NSA (e.i. ISIB, SRI-AI). 0939

(nls,identsupport,search) KJM 7-SEP-76 0940
Fixed a misspelling. 0941

(nls,grunldr,) JDH 7-SEP-76 0942
moved TSPRT to high seg, STGMGT and SINTNLS to low seg. done so storage allocation stuff can be called while output processor in. 0943

(nls,credit2,updtfl) (nls,credit2,compactfile) JDH 31-AUG-76 0944
propagate archive "don't archive" And "don't delete" bits for "UPDATE FILE" and "UPDATE FILE COMPACT" (but not for "UPDATE FILE RENAME") 0945

(nls,adrmnp,lnbfls) JDH 31-AUG-76 0946
for an in-file link without a directory field, if the default directory is illegal and the file is a journal item, pass a null directory instead of calling err. 0947

(nls,execfl,arcflandpc) KJM 30-AUG-76 0948
Changed to tell when a file and/or partial copy is already archived. 0949

(nls,ioexec,lgetjfn) KJM 30-AUG-76 0950
Fixed to make the directory string into an ASCIZ string before

calling gtjfn JSYS. 0951
 (nls,jnidel,nwkdatehcd) JDH 24-AUG-76 0952
 change date format in header for network delivery to conform to
 RFC 680--AGAIN!! make it 24 AUG 1976 instead of 24 AUG 76. 0953
 (nls,cedit2,cprijou) JDH 24-AUG-76 0954
 dont't print "ACTION" and "INFO" branches in initial file during
 print journal (ancient experiment in journal delivery) 0955
 (nls,auxcod,rubout) KJM 23-AUG-76 0956
 Moved measurement check to follow saving the registers; with check
 before, registers were getting smashed. 0957
 (nls,identsupport,ckillem) KJM 23-AUG-76 0958
 Increased the size of a string variable to prevent "String too
 long" when trying to load a file you're not on the accesslist for.
 0959
 -----changes below this reported to Jim Bair (18-AUG-76)-----
 0960
 (nls,syntax,zjstatus) KJM 18-AUG-76 0961
 Changed the syntax of the SENDMAIL Show Record command to have an
 optional facility that allows deleted idents to be shown.
 Otherwise, only undeleted idents are shown. 0962
 ----changes below this sent to NSA 23-AUG-76----- 0963
 (nls,jnidel,nwkdatehcd) JDH 18-AUG-76 0964
 change date format in header for network delivery to conform to
 RFC 680--dont use dashes, use spaces instead. (as in 18 AUG 76)
 0965
 (nls,csendmail,gtcatent) JDH 18-AUG-76 0966
 added "JCAT7" for numbers 36000 to 39999. 0967
 (nls,pssendmail,xjstatus) KJM 18-AUG-76 0968
 Added check for showing undeleted idents only. If ident has been
 deleted, gives error message to that effect. 0969
 (nls,bconst,opname) (nls,bconst,xopname) JDH 18-AUG-76 0970
 changed strings with output processor locations from <SUBSYS> to
 <NETSYS> 0971
 (nls,psupport,clupdt) KJM 17-AUG-76 0972
 Fixed a bug that caused frozen statements to be thawed if you
 deleted, or moved to another file, a frozen statement that had
 been frozen before the others. 0973
 (nls,execfl,proflandpc) KJM 16-AUG-76 0974
 Fixed logic bug in setting protection for files with fancy
 protection. 0975
 (nls,inpfbk,dinptc) KJM 16-AUG-76 0976
 Added checks to catch a lost 3rd char of a big char sequence;
 probably the bug that caused a char > 177B. 0977
 (nls,seqfil,processor) KJM 12-AUG-76 0978
 Added code to get the TENEX name of the running subsystem, and
 restore that one rather than automatically restoring TMLS or DNLS.
 0979
 (nls,ioexec,fetchfile) KJM 11-AUG-76 0980
 Enlarged a short string in the load remote file code. 0981
 (nls,syntax,zshow) KJM 11-AUG-76 0982
 Fixed so the extra OK: prompt doesn't happen. 0983
 (nls,syntax,zforce) KJM 11-AUG-76 0984
 Fixed so prompts for optional command words show. 0985
 (nls,cedit1,cexpdir) KJM 10-AUG-76 0986
 Simplified the code and changed to call cexpcondir to do the
 expunging. 0987

(nls,cedit1,cexpcondir) KJM 10-AUG-76	0988
Added new procedure to expunge the connected directory only.	0989
(nls,auxcod,mscrfile) JDH 9-AUG-76	0990
change to call !openf jsys instead of sysopen so we can open it for append only. take out call to chnfdb to change protection since most users can't do that. They'll get the default file protection set in TENEX.	0991
(nls,fintnls,intdaf1) KJM 9-AUG-76	0992
Commented out a line of code that decreases the screen length by one line. Should be 18 lines in display area windows.	0993
(nls,auxcod,meastart) JDH 9-AUG-76	0994
for %cpu available, use "NJBGRP" (getab) at o-1 instead of "NAPROC"	0995
(nls,auxcod,mstypcheck) JDH 5-AUG-76	0996
change to allow 3 periodic sample types	0997
(nls,tconst,mstg21) JDH 4-AUG-76	0998
changed mstg21 from 4 to 5, allows 3 periodic sample types: 3,4,and 5	0999
(nls,calsupport,fone) JDH 3-AUG-76	01000
make fone EXTERNAL, use it in measurement stuff	01001
(nls,bdata) KJM 2-AUG-76	01002
Moved some DECLARE's from bconst	01003
(nls,jnldel,stpchk) JDH 2-AUG-76	01004
took out user interaction on ^P, call ddt() instead	01005
(nls,jnldel,joutil) JDH 2-AUG-76	01006
added timecheck (see if TENEX has time set) before call to xrecovf (it often does file update which requires time for origin statement)	01007
(nls,bintnls,jnlrun) JDH 2-AUG-76	01008
took out call to nddtarm--it is essentially useless and causes trouble with multiple calls to jnlin	01009
(nls,fconst,nsaoprty) JDH 2-AUG-76	01010
changed to tty 0	01011
(nls,bintnls,startback) JDH 2-AUG-76	01012
include nsahost choice when setting oprtty	01013
(nls,ioexec) KJM 1-AUG-76	01014
Moved DECLARE's to bconst, brecords, and fconst.	01015
(nls,brecords,lock) KJM 1-AUG-76	01016
Added the record def'n for lock word from ioexec%	01017
(nls,bconst) KJM 1-AUG-76	01018
Added many comments and some globals from ioexec.	01019
(nls,fconst) KJM 1-AUG-76	01020
Added many comments and some globals from ioexec.	01021
(nls,select,getid) KJM 31-JUL-76	01022
Added a call to echoff to keep some chars from getting repeated such as in typing a second ident last name (after the first failed).	01023
(nls,fintnls,getuident) JDH 28-JUL-76	01024
at all sites, get GROUP.INDEX from <IDENTFILE> instead of <SYSTEM> (used to get it from SYSTEM at ISIC and OFFICE-1)	01025
(nls,recfil,outptr) JDH 28-JUL-76	01026
changed printer directory from literal to *prtmdir*, global string used by quickprint and output printer	01027
(nls,bconst,nsastr) JDH 28-JUL-76	01028
changed nsa host to "NSF"	01029
(nls,identsupport,ldelivery) JDH 28-JUL-76	01030

added nsa check for on-line delivery	01031
(nls,identsupport,lgetsubcoll) JDH 28-JUL-76	01032
at nsa host, don't use "NIC" as the default subcollection for non-SRI-ARC author	01033
(nls,identsupport,namesearch) DSM 27-JUL-76	01034
Added code to insure that partial last name searches are case independent. If previously .MAY... failed and .May... succeeded. Now both work.	01035
(nls,parser,supervisor) KJM 26-JUL-76	01036
Added code to record command completed and load average measurements.	01037
(nls,parser,cmdinterp) KJM 26-JUL-76	01038
Added code to record popstate, keyword popstate, command deletions, errors signalled, insert statement mode, and repeat command mode measurements.	01039
(nls,parser,evaler) KJM 26-JUL-76	01040
Added code to record repeat command mode and insert statement mode measurements.	01041
(nls,parser,keywrec) KJM 26-JUL-76	01042
Added code to record command word recognized, input error, and command called in backup mode measurements.	01043
(nls,parser,fbhelp) KJM 26-JUL-76	01044
Added code to record measurements for user typed question mark.	01045
(nls,parser,cshelp) KJM 26-JUL-76	01046
Added code to record measurements for user typed control-S.	01047
(nls,select,xselect) KJM 26-JUL-76	01048
Added code to record question mark typed, bugmark, and literal input measurements.	01049
(nls,select,xlevadj) KJM 26-JUL-76	01050
Added code to record question mark typed and level adjust input measurements.	01051
(nls,select,xviewspecs) KJM 26-JUL-76	01052
Added code to record question mark typed and viewspec input measurements.	01053
(nls,select,xconfirm) KJM 26-JUL-76	01054
Added code to record measurements for user typed question mark.	01055
(nls,select,getaddr) KJM 26-JUL-76	01056
Added code to record address expression input measurements.	01057
(nls,auxcod,rubout) KJM 26-JUL-76	01058
Added code to record measurements for user typed Control-O.	01059
(nls,auxcod,msrecord) KJM 26-JUL-76	01060
Added procedure to record measurement information.	01061
(nls,inpfbk,invvsp) KJM 26-JUL-76	01062
Added code to record measurements for user entered viewspecs via mouse buttons.	01063
(nls,fdata,) KJM 26-JUL-76	01064
Added the following globals for measurement: mlastcpu, clasttraps, mlastfault, ldavgttime, ldavgsec.	01065
(nls,fconst,) KJM 26-JUL-76	01066
Added the following globals for measurement: msstrlng, mtruncerr, mcomword, mcombackup, mdone, mliteral, maddrexp, mbugmark, mquestion, minsert, mrepeat, mstop, mbell, msyntax, mmousespecs, mviewspecs, mlevadj, loadavg, mcomdel, merrsig, mpopstate, mcompopstate.	01067

(nls, parser, getsdptr) DSM 23-JUL-76 18:45	01068
Fixed bug which was causing attempts to have a subsystem other than SUPERVISOR as one's universal subsystem to fail.	01069
(nls, pshelp, hlpinit) KIRK 21-JUL-76 17:18	01070
Changed search setup for no user input to not make duplicate search.	01071
(nls, filmnp, coppop) HGL 20-JUL-76	01072
Changed SIGNAL traps to display error string if errsig type of signal in addition to the general string printed out at a higher level.	01073
(nls,ioexec,ckdiracc) (nls,inpfbk,nlcrms) JDH 15-JUL-76	01074
moved opsolete procedures to end of files after FINISH	01075
(nls,ioexec,unlkfile) (nls,credit2,updtfl) (nls,credit2,compactfile) JDH 15-JUL-76	01076
removed calls to ckdiracc	01077
(nls,inpfbk,getchar) (nls,inpbfb,cntrlgetchar) JDH 15-JUL-76	01078
removed calls to nlcrms	01079
(nls,ioexec,maywrt) (nls,ioexec,conjdir) (nls,ioexec,conidir) (nls,ioexec,conidir) JDH 15-JUL-76	01080
removed pre-TENEX-132 stuff	01081
(nls,inpfbk,cntrlgetchar) JDH 15-JUL-76	01082
removed pre-TENEX-132 stuff	01083
(nls,fintnls,startup) JDH 14-JUL-76	01084
on entry to NLS, call meastart to start measurement if appropriate conditions are satisfied	01085
(nls,auxcod,meastart) JDH 14-JUL-76	01086
whole bunch of new procedures for measurement	01087
(nls,fdata,msrtab) (nls,fconst,mstul) (nls,frecords,msfltime) JDH 14-JUL-76	01088
new globals, constants and records for measurement	01089
(nls,auxcod,quit) (nls,auxcod,gofork) JDH 14-JUL-76	01090
added measurement closing and opening for quit and goto tenex	01091
(nls,auxcod,rubout) JDH 14-JUL-76	01092
clear output buffer on ^D as well as input buffer	01093
(nls,seqfil,inseq1) DSM 13-JUL-76	01094
Copy Sequential: fixed bug which allowed CR to sneak into NLS files without being translated to EOL. Also changed decision column for CR's from 63 to 50. If a carriage return is found to the left of the decision column it is assumed the user wants it left there for formatting puposes. If found to the right of the decision column it is assumed that it merely served to end a line and is replaced by a space. This is all for the TWO (CR's to end statement) option of the copy sequential command.	01095
(nls,utilty,flagut) (nls,utilty,flgpage) JDH 12-JUL-76	01096
broke out the flagfile opening and mapping part of flagut into new procedure flgpage	01097
(nls,bconst,nsahost) (nls,bconst,nsastr) JDH 6-JUL-76	01098
host number and string for nsa	01099
(nls,fconst,nsaoprty) JDH 6-JUL-76	01100
oprty for nsa	01101
(nls,fintnls,saveit) JDH 6-JUL-76	01102
set inremsiteflag, outremsiteflag FALSE for nsahost	01103
set prtdir to "PRINTER" for nsahost	01104
(nls,fintnls,startup) JDH 6-JUL-76	01105
set oprty properly for nsahost	01106

(nls,jnidel,jinsubs) JDH 29-JUN-76 01107
 changed journal ftp for bbnb-isisic move 01108

(nls,bconst,arcstr) JDH 29-JUN-76 01109
 changed arcstr to ISIC, archost to 150, added bbnbhost=61B, added
 bbnbacc="100842" 01110

(nls,psedit,xload) JDH 29-JUN-76 01111
 in list of legal NLS hosts for load remote file, changed archost
 to bbnbhost 01112

(nls,fintnls,getuident) JDH 29-JUN-76 01113
 for location of group.index, test bbnbhost instead of archost
 01114

(nls, seqfil, oprinit) (nls, seqfil, oprdtc) (nls, seqfil, oprdc)
 (nls, seqfil, oprcid) (nls, seqfil, oprint) (nls, seqfil, oprdt)
 (nls, bdata, "oprwrk") (nls, auxcod, daofrmt) (nls, auxcod, idfrmt)
 HGL 25-JUN-76 01115
 Additions for the Output Processor new directives. Added new
 procedures and increased size of the dispatch table. 01116

(nls,psedit,xupdate) KJM 16-JUN-76 01117
 Fixed call to dpset in update compact to cause the whole window of
 the updated file to be refreshed. 01118

(nls,adrmnp,nmdr) JDH 15-JUN-76 01119
 moved nmdr from select to adrmnp so it could be called when DP or
 compiler is in 01120

(nls,tsprt,printg) KJM 15-JUN-76 01121
 Changed call to fndtab to look from current column (not col+1)
 because a tab set in col+2 would be missed and line computation
 got all messed up. 01122

(nls,ioexec,fetchfile) KJM 15-JUN-76 01123
 Added code to signal handling to ignore invalid account -- now
 allows loading remote files! 01124

<nls, fintnls, startup> DSM 11-JUN-76 01125
 Change to not try to load user profile if in query mode, uses
 system defaults without looking for user profile. Done to
 eliminate message "cannot load user profile - using system
 defaults " which was confusing NIC query users. 01126

<nls, chelp, wgetfile> KIRK 9-JUN-76 01127
 fixed bug when trying to look at journal messages with help
 command 01128

(nls,frecords,fmoderec) JDH 9-JUN-76 01129
 new record for file mode word (rfmod,etc.) 01130

(nls,fintnls,setdev) JDH 9-JUN-76 01131
 in TNLS, if tenex columns setting (!rfmod) is smaller than
 useroptions colmax, increase the tenex setting (with !stpar) 01132

(nls,select,getid and getidlist) KJM 9-JUN-76 01133
 Added code to load and later close (but only if the procedure had
 opened) the identfile before checking idents. Did it right this
 time, I hope. 01134

(nls,bdata,setidfno) KJM 9-JUN-76 01135
 Added a global to be set by select to note that it did the open of
 the identfile. 01136

(nls,auxcod,crlf) KJM 9-JUN-76 01137
 Changed to pabout CR and LF instead of EOL. 01138

(nls,csendmail,secdist) KJM 9-JUN-76 01139
 Deleted code to open identfile; done by identsupport routines.
 01140

(nls,csyngen,nprint) KJM 9-JUN-76 01141

Added code to allocate a string if the local string is not long enough.	01142
(nls,csyngen,pnode) KJM 9-JUN-76	01143
Added code to allocate a string if the local string is not long enough.	01144
(nls,csyngen,prbuglook) KJM 9-JUN-76	01145
Added code to allocate a string if the local string is not long enough.	01146
(nls,csyngen,prconfirmlook) KJM 9-JUN-76	01147
Added code to allocate a string if the local string is not long enough.	01148
(nls,csyngen,prhchk) KJM 9-JUN-76	01149
Added code to allocate a string if the local string is not long enough.	01150
(nls,csyngen,prjmpcmd) KJM 9-JUN-76	01151
Added code to allocate a string if the local string is not long enough.	01152
(nls,csyngen,prnumlook) KJM 9-JUN-76	01153
Added code to allocate a string if the local string is not long enough.	01154
(nls,colstrt,defkey) JDH 8-JUN-76	01155
changed default sortkey to "sortnocase"	01156
(nls,fintnls,setvec), (nls,bintnls,setbvec) JDH 8-JUN-76	01157
restored DNLS to the entry vector	01158
(nls,sdata,entvec) JDH 8-JUN-76	01159
increaded size one cell for "DNLS"	01160
(nls,fintnls,initdis) JDH 8-JUN-76	01161
corrected the "set lowercase" part to issue !stpar jsys, added deviproc to list of devices	01162
(nls,fintnls,getdev) JDH 8-JUN-76	01163
call sttyp jsys (lineprocessor) if nldevice indicates DNLS (unless terminal type is imlac)	01164
(nls,syntax,) JDH 8-JUN-76	01165
commented out "MERGE"	01166
(nls,chelp,qdisp) DAV 4-JUN-76	01167
added check that "menusw" is non-zero before calling getftl; fixed bug causing an error if the menu had not been started before the end of the screen was reached	01168
(nls,utility,doctrlc) JDH 4-JUN-76	01169
if the line number changed in the ^C interrupt and the ^C happened at the "PBIN" in getchar, decrement the interrupt return location so the "PBIN" gets executed again	01170
(nls,inpfbk,getchar) JDH 4-JUN-76	01171
added external label "gtchwait" after the PBIN so doctrlc (see above) can test if ^C interrupt happened there	01172
(nls,fintnls,ckdvlm), (nls,fintnls,checkdevline), (nls,fintnls,condevline) JDH 3-JUN-76	01173
new procedures to check if the lp line number has changed and if so, close and open the proper binary terminal file (dspjfn)	01174
(nls,fintnls,startup) JDH 3-JUN-76	01175
added call to condevline on a "continue"	01176
(nls,inpfbk,lpaltgetchar), (nls,inpfbk,lpgetchar) JDH 3-JUN-76	01177
added calls to checkdevline on "system reset"	01178
(nls,auxcod,gofork) JDH 3-JUN-76	01179
added call to ckdvlm after subfork terminates	01180
(nls,select,getid and getidlist) KJM 26-MAY-76	01181

Removed changes from 18-MAY-76	01182
(nls,chelp,pushent) DSM 24-MAY-76	01183
added code to recover from running out of free storage space in the qstorblk zone	01184
(nls,cedit2,rensorg) JDH 24-MAY-76	01185
new procedure to renumber sid's in a branch aat an origin statement. calls itself recursively to handle graphs, etc.	01186
(nls,cedit2,crensidfil) JDH 24-MAY-76	01187
changed to call "rensorg" to renumber branch 0	01188
(nls,chelp,freemenu) DSM 21-MAY-76	01189
Fixed bug in previous fix	01190
(nls,chelp,conint) and added (nls,chelp,freemenu) DSM 21-MAY-76	01191
Fixed help code to release allocated storage when reusing a context stack entry.	01192
(nls,chelp,numfst) KJM and DSM 20-MAY-76	01193
Changed < to <= to fix funnies in menu items 26, 52, 78, etc.	01194
(nls,select,getId and getIdlist) KJM 18-MAY-76	01195
Added code in cleanup branches to close the identfile (in case of a command delete right after an ident selection).	01196
(nls,fintnls,getdev) KEV and KJM 18-MAY-76	01197
Changed to set rawchr to lpgetchar only if not already set to auxchr. Fixes bug that lost Process Commands if one of the commands was simulating a LP.	01198
(nls,pssendmail,xjloaworfil) KJM 18-MAY-76	01199
changed name of sendmail file to have user's initial string in the first name, not the extension (to allow for several users in a dir)	01200
(nls,syntax,zjinsert) KJM 17-MAY-76	01201
added Insert Record to Insert command in SENDMAIL subsystem	01202
(nls,pssendmail,xjinsrecord) KJM 17-MAY-76	01203
added the x-routine to do the new Insert Record command	01204
(nls,jnidel,jinsubs) JDH 14-MAY-76	01205
add privacy test to "message/file" decision	01206
(nls,chelp,wbranm) and (nls,chelp,qappender) DSM 13-MAY-76	01207
Fixed a bug in the fix (see .ss)	01208
(nls,bintnls,quin) DSM 13-MAY-76	01209
Changed entry and exit messages for query entry point	01210
(nls,chelp,wbranm) and (nls,chelp,qappender) DSM 13-MAY-76	01211
Fixed two bugs in help, now allows both EOL or CR to mark the beginning of a "hidden help link". Also allows spaces in link format.	01212
(nls,ioexec,opnctfile) JDH 10-MAY-76	01213
check fl.flexis after makepc fails in case it hit a "file locking conflict" and closed the file	01214
(nls,jnidel,jinsubs) JDH 3-MAY-76	01215
changed BBNB <outjournal> account from 10002 to 100842.	01216
(nls,fintnls,startup) DSM APRIL 28, 1976	01217
Change to force terminal type to NVT if NLS was entered in Query mode.	01218
(nls,fintnls,quin) DSM APRIL 28, 1976	01219
Changes to load <programs,query.subsys,> and use procedure "qsuper" instead of the NLS supervisor if NLS was entered in Query mode.	01220
(nls,pdata,promptstr) DSM APRIL 20, 1976	01221

changed length from 25 to 72 for NIC-QUERY 01222
 (nls,filmp,copprop) JDH 15-APR-76 01223
 keep "nwblk" frozen through call on "trecop" so garbage collection
 can't hurt us 01224
 (nls,verify,ckstrc) JDH 14-APR-76 01225
 moved update to "curpty.stpsdb" before possible call to "ckdgm".
 (this call could invalidate "sdb" pointer) 01226
 (nls,parser,supervisor) DSM 9-APR-76 01227
 Fixed a bug (which I caused approx 18 months ago) which would not
 allow a user subsystem to become the "UNIVERSAL" subsystem, by
 moving the location of the main SIGNAL trap in this routine. This
 now works properly, however there is no grammar in USEROPTIONS for
 setting this field. 01228
 (nls,parser,addhelp) JDH 6-APR-76 01229
 changed "<INSERT>" to "<ENTER>" 01230
 (nls,parser,cmdinterp) DSM 6-APR-76 01231
 Commented out the statement at 06301, which was a call to fbctl(
 fbpop) which occurred when a signal of type cutpathstack was
 generated. This was causing an extraneous "_" to be echoed to the
 HELP user after each menu display. 01232
 (nls,bconst,maxbsize) JDH 5-APR-76 01233
 corrected declaration to be "DECLARE" instead of "SET" 01234
 (nls,psprogs,xpreset) JDH 5-APR-76 01235
 corrected use of "upgbdf" by putting "\$" in front of it 01236
 (nls,jnlidel,oldist) JDH 5-APR-76 01237
 changed call to CHFDB so R3 doesn't have any extra bits on. 01238
 (nls,jnlidel,openmail) JDH 28-MAR-76 01239
 changed "DN SIGNAL" section to release the sequence work area
 01240
 (nls,bconst,dsys6) JDH 30-MAR-76 01241
 removed CALCULATOR from default subsystems 01242
 also decreased size of some always empty strings. 01243
 (nls,prmspc,invspc) KJM 30-MAR-76 01244
 added call to flagut to see if it's being used 01245
 (nls,select,xviewspecs) KJM 30-MAR-76 01246
 added call to dspvsp when viewspec v set to get vs window right
 01247
 (nls,inpfbk,invvsp) KJM 30-MAR-76 01248
 added call to dspvsp when viewspec v set to get vs window right
 01249
 (nls,seqfil,opseqf) JDH 30-MAR-76 01250
 trap signals in order to close the output file and release the
 sequence generator. 01251
 (nls,seqfil,opssig) JDH 30-MAR-76 01252
 New procedure called by opseqf on a signal 01253
 (nls,parser,cmdfin) KJM 30-MAR-76 01254
 set previous viewspecs only in TNLS to they will be available to
 be checked by recrd (so whole screen will get recreated when
 needed) 01255
 (nls,cprograms,gpbsz and gpadjbsz) KJM 30-MAR-76 01256
 change constants to globals (maxbsize = 44 and minfpages = 20)
 01257
 (nls,bconst, maxbsize and minfpages) KJM 30-MAR-76 01258
 added for cprograms (see above) 01259
 (nls,psuserop,uoget) JDH 30-MAR-76 01260
 turn on archive "don't delete" bit in fdb of uo file 01261

(nis,csendmail,jstatus) JDH 29-MAR-76 01262
corrected spelling of "BEGINNING" in two places 01263

(nis,psedit,xlogout) JDH 23-MAR-76 01264
call clogout after (possible) shutdis so clogout is the last thing
before calling the logout jsys 01265

(nis,jnidel,jinsubs) JDH 22-MAR-76 01266
changed account number for bbnb outjournal from 100021 to 10002
01267

(nis,jnidel,getdauth) JDH 22-MAR-76 01268
increased local string "tempadsr" to 250 chars 01269

(nis,tsprt,printg) JDH 17-MAR-76 01270
changed call to fchtxt to match 8.5 (stid instead of sdb) 01271

(nis,pshelp,hlpinit helpshow) DAV 1-MAR-76 01272

(nis,help,qdisp conint wgetadr srchfndx qmenu mencont) DAV 1-MAR-76
01273

About a half-dozen bugs fixed in these two files. All recent
changes are marked with ten asterisks (*****). About a dozen
significant changes. 01274

(nis,jnidel,slinker) JDH 16-MAR-76 01275
on call to ckstrc, pass stid of origin statement instead of fileno
01276

(nis,cedit1,coutproc) JDH 16 MAR-76 01277
For output com, changed graphics directory to "programs" 01278

(nis,parser,addhelp) (nis,psupport,readrepeat)
(nls,syntbl,prsfuctions) JDH 15-MAR-76 01279
changed "OKREPEAT" and "OKINSERT" to "<REPEAT>" and "<INSERT>" as
put out during "?" and "<^S>" commands. 01280

(nis,psuserop,xuoterm) JDH 10-MAR-76 01281
When setting useroptions from with Process Commands, write out the
user profile page with the user's recognition mode instead of
demand mode. 01282

(nis,ioexec,unlkfile) KJM 10-MAR-76 01283
Added an extra argument to check locks or not -- TRUE for Delete
Modifications, FALSE for Reset Temporary Modifications. Also made
the lock checking code optional depending on that arg. 01284

(nis,cedit1,cdelmodfil) KJM 10-MAR-76 01285
Added an extra arg (TRUE) to call to unlkfile. See above. 01286

(nis,cedit2,crestemmod) KJM 10-MAR-76 01287
Added an extra arg (FALSE) to call to unlkfile. See above. 01288

<nls,pshelp,hlpinit> KIRK 11-JAN-76 19:53 01289
Changed statement 02708 from IF i=1 to IF hlpcmdstk=1. This fixes
a bug where CTRL-Q took the user to the origin of the file instead
of to the description for the tool. 01290

(nis,syntax,) EKM 8-JAN-76 01291
Removed grammar for Calculator (put below Readmail grammar) 01292

(nis,parser) EKM 8-JAN-76 01293
Commented out initialization of Calculator which now runs as a
user subsystem 01294

(nis,grunldr,) HGL 8-JAN-76 01295
Changed <nls>grunldr.nls; to load CALCSUPPORT in low segment.
Created <rel-nls>grunldr.txt;. 01296

(nis,syntax) EKM 5-JAN-76 01297
Changed rule zoutput to allow user to ask for Singer 600 for COM -
also changed in NIC-NLS 01298

(nis,psedit) EKM 5-JAN-76 01299
Changed xout1 for Singer - Also done in nic-nls 01300

(nls, chelp, samevw) KIRK 2-JAN-76 01301
 fixed reversed return value assignments. 01302

(nls, filmnp, freplist) (nls, filmnp, delprop) (nls, filmnp, reprop) (nls, filmnp, freprop) (nls, utility, filescl) HGL 30-DEC-75 01303
 Changed statement 01304
 Changed code so replacing a property block does not delete the associated inferior tree. FREPROP no longer frees the inferior tree of the property: it returns the stid of the inferior tree to the calling procedure which must do this by calling FREINTREE, as is done by DELPROP and FREPLIST, or relink it to a new property by calling INSITREE if desired as is done in REPROP and FILESC. 01305

(nls, chelp, wgetadr) DAV 2-DEC-75 01306
 With KIRK, fixed bug preventing searching of lower index files. 01307

(nic-nls, dxctl, exdel) HGL 4-NOV-75 01308
 Changed DEX deletion algorithms as per Doug's memo (33785,). (Only line deletion required modification; delete character and visible were as previously modified. 01309

(nls, chelp, qmenu) (nls, pshelp, xhlpring) DAV 8-OCT-75 01310
 Fixed bug causing ragged left margin of help menus. With KIRK in Sept., fixed bug causing "fst entry non existent" when backing up too far. 01311

(nls, nddt2, typval) HGL 2 OCT. db REF'd. Necessary because this procedure was moved from nddt where it was REF'd globally. (The macro definition lv uses it!) Cannot REF db globally in nddt2 because other DEFINES make use of it and assume it has not been ref'd. Put this change in (nic-nls) when the file has been retrieved from archive. ALSO RECOMPILE NDDT, NDDT2, NDDTDATA IN NIC-NLS BECAUSE OF THE ARCHIVAL! 01312
 Fixed call on lodsdbs in (nls, dspgen, stfamt) to call on lodprop. HGL 26-AUG-75. (nls has had the new file system since January!) 01313

(nls, cedit1, coutproc) (nls, seqfil, opinit) (nls, bdata, "oprwrk") (nls, bdata, "comexflag") HGL 26 AUG. If comexflag is 0, use comp80 charspace tables; if it is 1 use singer tables and procedures. For use with the new Output processor. IMPORTANT NOTE: SYNTAX and XROUTINE MUST BE FIXED so you needn't go through DDT to set the flag! 01314

(nls, cedit1, coutprc) HGL 20 AUG fixed procedure to call graphics termination rule if in COM mode. 01315

<nls, psuserop, xuoexclude> KIRK 12-AUG-75 14:07 01316
 err message bug fixed 01317

<nls, tsprt, printg> KIRK 12-AUG-75 14:07 01318
 changed to take account of viewspec Q 01319

<nls, bdata,> <nls, seqfil, opinit> <nls, seqfil, oprsid>, HGL 8 August 1975-- Changes for new OP directives. 01320

<nls, nddt2,> <nls, nddt,> <nls, nddtdata,> <nls, cprograms, gpgmrst> HGL 6-AUG-75 01321
 Changed load map to do without NDDT. Required changes in NDDT2. NDDT now loaded as a user program when control-H is armed. A number of procedures moved from NDDT to NDDT2. GPGMRST changed to disarm control-H when buffers reset. Load map changed accordingly. Also, moved BINTNLS from high to low segment due to lack of space! These changes do NOT go into nic-nls or NSW! 01322

<nls, adrmnp, lnkvws> KIRK 23-JUL-75 00:41 01323

changed to take account of viewspec Q and other potential capital
 letter viewspecs 01324
 <nls,frontend,howformat> KIRK 23-JUL-75 00:41 01325
 changed to take account of viewspec Q 01326
 (nls, adrmnp, lookup) (nls, adrmnp, namingrp) (nls, chelp, namfst)
 (nls, levnam) HGL 21-JUL-75 01327
 Changed calls on xtrnam to take right number of parameters.
 (XTRNAM change in new file system.) 01328
 <nls,chelp,> KIRK 14-JUL-75 00:23 01329
 changed qsearch; deleted namfst, qnum, seqsrch, topsch, neughb,
 levnam; and added wfndit et al for multi-file help system 01330
 <nls,pshelp,> KIRK 14-JUL-75 00:23 01331
 changed helpshow and hlpinit for multi-file help system 01332
 <nls,fdata,> KIRK 14-JUL-75 00:23 01333
 added multi-file help globals 01334
 <nls,syntax,> KIRK 14-JUL-75 00:23 01335
 changed help to ask for <CTRL-B> instead of ANSWER for rest of
 menu. 01336
 <nls,parser,enthelp> KIRK 14-JUL-75 00:23 01337
 changed to send path stack without special case for parse
 functions. 01338
 <nls,adrmnp, caddexp> KIRK 10-JUN-75 03:46 01339
 changed to look for \$ instead of & for jump to name external. 01340
 <nls,pssystem, xjump> KIRK 10-JUN-75 03:46 01341
 jump name external changed to \$ instead of & 01342
 <nls, select,nmdr> KIRK 10-JUN-75 03:17 01343
 name delimiting routine changed to exclude & and curly brackets. 01344
 <nls,inpfbk, typectl> KIRK 10-JUN-75 03:46 01345
 added EOL as a regular character, not special. 01346
 <nls, psuserop,uotabs> KIRK 10-JUN-75 03:17 01347
 changed to allow CR 01348
 <nls,credit, setrot> KIRK 10-JUN-75 02:25 01349
 Modifying origin in update file changed to not destroy text placed
 by the user. It checks to see if ">>> " exists before ";;;" and
 only writes between them or else checks if the statement is named
 and if so, does not update at all or else does things just like it
 did before (looks for ";;;" and writes over whatever's in front
 of it). 01350
 <nls,inpfbk, rdltit> KIRK 6-JUN-75 03:46 01351
 modified and augmented by sprjtb, and formln to do space for tabs. 01352
 <nls, psuserop,> KIRK 6-JUN-75 03:46 01353
 xuospftab, uoshspftb, getpstring added and xuoreset, uoreset,
 xuoshow, uoshow modified for space for tabs. 01354
 modified and augmented by sprjtb, and formln to do space for tabs. 01355
 <nls,update,> KIRK 6-JUN-75 03:46 01356
 rtjtab, spftab, rjtchr[5] added to useroptions page. 01357
 <nls,bconst,> KIRK 6-JUN-75 03:46 01358
 changed dpycoc to allow a bell to be sent, defspftab, defrjtab,
 defrjtchr added for "Space (for tab)" command. 01359
 <nls,syntax,> KIRK 6-JUN-75 03:46 01360
 added Space (for tabs?), Show Space, Reset Space commands in
 useroptions. 01361

DOCUMENTED: everything below this has been copied to
 <arcdocumentation, manual, do> to be documented. Add new things
 above this statement and notify HELP of any changes made below this
 statement. 01362

<nic, seqfile,> KIRK 16-APR-75 23:02 01363

changed outseq, outqp, opsegf, and sfputst to output control
 characters unless output quickprint where special things are
 already being done. 01364

also changed sfputst to do relative indenting 01365

(NIC-NLS-CHANGES) Record here changes to NIC-NLS source files.

> Note: changes not duplicated in <NLS> and <NINE> will disappear and
 have to be re-done at a later time. Be sure rel file name points to
 NIC-NLS.

FILENAME WHO WHEN DESCRIPTION 01366

JDH and KJM changes below this have been done in <NLS> sources also.

(changes by others may not have been done) 01367

(nic-nls,nddtdata,ddmrk and ddmrkm) KJM 13-FEB-76 01368

Changed to allow up to 20 user programs to be loaded. 01369

(nic-nls,brecords,command) KJM 10-FEB-76 01370

Re-ordered the fields for easier debugging. 01371

(nic-nls,dspgen,prcmds) KJM 10-FEB-76 01372

At prcm21, commented out code that updates byte pointers in moved
 line segments, including statements numbers (which it messes up).

No clear need for the updating. 01373

(nic-nls,filmnp,mvdlfgrp) KJM 5-FEB-76 01374

Fixed ON SIGNAL to close the sequence generator that was open.

01375

(nic-nls,dspgen,prcmds) KJM 5-FEB-76 01376

At prcm13, one more attempt to clear the right number of positions
 in a line. Now calling cline with the MIN of the computed number
 of chars and the width of the window. 01377

(nic-nls,fconst,ascbst) KJM 5-FEB-76 01378

Set its address to 13, for ctrl-K. 01379

(nic-nls,fintnls,initch) KJM 5-FEB-76 01380

Set the location trnsli[13] (not trnsli[21]) to the value for the
 BS character (ascbst, see fconst above). 01381

(nic-nls,psuserop,uoshsc) KJM 5-FEB-76 01382

Changed string to show ^K as the backspace statement character.

01383

(nic-nls,inpfbk,initbtbl) KJM 2-FEB-76 01384

Fixed to set up sysbreaktbl correctly for backspace statement
 character by adding a "\$". Note: still has ctrl-Q as the BS
 char. 01385

(nic-nls,jnldel,jinsubs) JDH 3-FEB-76 01386

format network delivery citation separate from on-line(NLS)
 delivery (use RFC680 format) 01387

(nic-nls,jnldel,nwkhd) (nic-nls,jnldel,nwkdatehd)

(nic-nls,jnldel,nwkclerk) (nic-nls,jnldel,nwkjrnlc) JDH 3-FEB-75

01388

new procedures for network delivery 01389

(nic-nls,jnldel,jnote) JDH 3-FEB-76 01390

added calling parameter: address of string (optional) to put
 "ACTION", "INFO-ONLY", or "Author-Copy" note in (used for network
 deliv)<^^> 01391

(nic-nls,jnldel,printdoc) (nic-nls,jnldel,collcopy)

(nic-nls,jnldel,hcstatus) (nic-nls,jnldel,gdistf) JDH 29-JAN-76 01392

don't print "ACCESS" copies of journal items. (only one collection copy, the "MASTER" copy will be printed) 01393

(nic-nls,jnlldel,jinsubs) JDH 29-JAN-76 01394
 changed BBNB <outjournal> account number from 113851 to 100711. 01395

(nic-nls,bdata,sfhead) JDH 29-JAN-76 01396
 increased size if sfhead from 80 to 100 chars. 01397

(nic-nls,credit,cmovgro) KJM 29-JAN-76 01398
 Changed to accept a return arg from mvdlfgrp (see below). 01399

(nic-nls,filmnp,mvdlfgrp) KJM 29-JAN-76 01400
 Changed to return the stid of the first statement moved or whatever; or if none processed, to return the stid of the first one checked (against the filter) for processing. 01401

(nic-nls,fonly,xcomment) KJM 29-JAN-76 01402
 Goes out of big char mode when in the comment command -- no more garbage in the tty window with a <CD> or <CA>. 01403

(nic-nls,psedit,xsubstitute) KJM 29-JAN-76 01404
 Changed to call dpset with dspyes (not dspallf) when substituting in a group. 01405

(nic-nls,psedit,subsinit) KJM 29-JAN-75 01406
 Call to dismes now with type = 1 for longer display. 01407

(nic-nls,psuserop,xuoprint) KJM 20-JAN-76 01408
 Added code to make tab setting changes take effect immediately on TNLS (already in immediate effect on DNLS). 01409

(nic-nls,inpfbk,litsup) KJM 19-JAN-76 01410
 Changed to do call to cline for only the width of the window, not lpxmax, to fix a literal suppression bug when there are two windows at the top of the screen. 01411

(nic-nls,inpfbk,rstlit) KJM 14-JAN-76 01412
 Restructured code for line processor to restore a suppressed screen that currently has only one line of literal text. See aplit fix below. 01413

(nic-nls,inpfbk,aplit) KJM 14-JAN-76 01414
 Took out change from 12-OCT-75. Now taken care of in rstlit, see above. 01415

(nic-nls,frontend,seldsp) KJM 14-JAN-76 01416
 Added calls to daupdate for windows that have suppressed lines, but are not being edited. 01417

(nic-nls,dspgen,daupdate) KJM 14-JAN-76 01418
 Took out special code for viewspec V that caused an infinite loop between rstlit and daupdate when inserting long text. 01419

(nic-nls,inpfbk,prcmds) KJM 14-JAN-76 01420
 Reinstated commented out code at prcm13 (a label) to increase the 3rd arg to cline. 01421

(nic-nls,syntax,) EKM 5-JAN-76 01422
 Rule zoutput changed to allow user to specify Singer 6000 for output to COM - also made in NLS 01423

(nic-nls,psedit,) EKM 6-JAN-76 01424
 xout1 changed to accommodate the Singer 6000 for COM - NLS changed too 01425

(nic-nls,psendmail,xjreserve) JDH 23-DEC-75 01426
 only call dpset if there is an "insertloc" 01427

(nic-nls,loexec,gdftdir) JDH 5-NOV-75 01428
 changed gdftdir to return FALSE instead of calling err 01429

(nic-nls,adrmnp,lnbfls) JDH 5-NOV-75 01430
 changed call to gdftdir to expect "TRUE/FALSE" return 01431

(nic-nls,auxcod,fstatus) JDH 5-NOV-75	01432
changed call to gdftdir to expect "TRUE/FALSE" return	01433
(nic-nls,chelp,qlnkspec) JDH 5-NOV-75	01434
changed call to gdftdir to expect "TRUE/FALSE" return	01435
(nic-nls,cprograms,upgjf) JDH 5-NOV-75	01436
changed call to gdftdir to expect "TRUE/FALSE" return	01437
(nic-nls,seqfil,inseq) KJM 22-DEC-75	01438
Fixed to ignore NULL characters when a file is brought into NLS by a Copy Sequential	01439
(nic-nls,frontend,howformat) KJM 22-DEC-75	01440
Fixed so a call on recrd with cdtype = dspyes will work as advertised.	01441
(nic-nls,cprograms,gpadjbsz) KJM 22-DEC-75	01442
adjusts buffer size by 25 percent more than currently needed.	01443
(nic-nls,dspgen,daupdate) KJM 22-DEC-75	01444
Fixed to properly clear the blank line when adding text to a statement and viewspec y on.	01445
(nic-nls,dspgen-,lsgfrmt) KJM 22-DEC-75	01446
Take away the buggable nonexistent character at the end of every statement (may un-fix 4-NOV-75 fix to lsgfrmt).	01447
(nic-nls,cprograms,gtctrlbits) JDH 13-NOV-75	01448
takes a "rule" parameter instead of always using "nlssubs"	01449
(nic-nls,psprogs,xpattach) JDH 13-NOV-75	01450
added parameter to gtctrlbits call	01451
(nic-nls,catnum,ckcnum) JDH 17-DEC-75	01452
changed so won't stop on "&" or "^" in ident list	01453
(nic-nls,parser,initsubsystems) JDH 13-NOV-75	01454
added parameter to gtctrlbits call	01455
(nic-nls,cprograms,gpget) JDH 13-NOV-75	01456
added parameter to gtctrlbits calls	01457
(nic-nls,psedit,xdelete)	
(nic-nls,psedit,xinsert)	
(nic-nls,psedit,xmove) KJM 13-NOV-75	01458
Changed calls to boundry to have extra (T or F) argument. See below.	01459
(nic-nls,frontend,boundry) KJM 13-NOV-75	01460
Changed to take an extra Boolean arg of whether or not to accept margins of the screen as acceptable boundaries. If not, looks for the nearest non-margin boundary; calls err if none found.	01461
(nic-nls,dspgen,clearda) KJM 13-NOV-75	01462
Added check for only one display area in existence when deciding to just return because it's empty.	01463
(nic-nls,dspgen,stfrmt) KJM 12-NOV-75	01464
Changed to use correct viewspec word on indentation checks; doesn't set flag for last line seg of line if it was a CR or TAB only and stmt nos. are on right.	01465
(nic-nls,psuserop,strchr) KJM 12-NOV-75	01466
For type = ignore, set cchar to the address of the global ascbst (prev. set to zero).	01467
(nic-nls,psuserop,chrstr) KJM 12-NOV-75	01468
Compared type against address of ascbst; see strchr above.	01469
(nic-nls,dxctl,exdel) HGL 4-NOV-75	01470
Changed DEX deletion algorithms as per Doug's memo (33785,). (Only line deletion required modification; delete character and visible were as previously modified.	01471

(nic-nls,jndel,oldist) JDH 9-OCT-75	01472
update hcdistfile separately for network and online delivery	01473
(nic-nls,cprograms,gtctrlbits) JDH 28-OCT-75	01474
Cause any subsystem starting with "T" to be second level	01475
(nic-nls,dspgen,daupdate) KJM 4-NOV-75	01476
Fixed bugs 1) not clearing blank lines when text deleted and viewspec y on; and 2) not restoring suppressed statements after long insert text.	01477
(nic-nls,dspgen,lsgfrmt) KJM 4-NOV-75	01478
Fixed bug which caused last char of a stmt to sometimes not be deleted (gapcol _ col %-hinc%;).	01479
(nic-nls,dspgen,prcmds) KJM 4-NOV-75	01480
Fixed to clear the right number of chars; fixed move bug that sometimes added garbage.	01481
(nic-nls,dspgen,wrtstr) KJM 4-NOV-75	01482
Fixed bug that sometimes cleared one too many characters from a line. Added code required to clear all of CFL line (new bug created by other fix).	01483
(nic-nls,dspgen,clearda) KJM 4-NOV-75	01484
Fixed bug that sometimes cleared one too many characters from a line.	01485
(nic-nls,identsupport,idflsearch) KJM 4-NOV-75	01486
added code to change the JFN mode for a !pbin in the case where there is only one ident matching a last name	01487
(nic-nls,syntax,"zjinterrogate") KJM 21-OCT-75	01488
Added a call to a dummy x-routine to get around a CLI bug.	01489
(nic-nls,psystem,xdummy) KJM 21-OCT-75	01490
Added this do-nothing x-routine to get around a CLI bug.	01491
(nic-nls,fdata,"auxinput") KJM 21-OCT-75	01492
Added this global to indicate when in auxiliary input (process commands) mode so the user's recognition mode won't change in the middle.	01493
(nic-nls,frontend,auxstartup and auxinterminate) KJM 21-OCT-75	01494
Added statements to set and reset the global "auxinput" when entering and leaving auxiliary input mode.	01495
(nic-nls,psuserop,xucinit) KJM 21-OCT-75	01496
Added code to check "auxinput" and if on to set the recognition mode to demand.	01497
(nic-nls,inpfbk,rdlit) KJM 15-OCT-75	01498
Changed to decode character following a <^V> to handle "escorted" characters.	01499
(nic-nls,inpfbk,dinptc) KJM 15-OCT-75	01500
Deleted 2 pages of code for tenex < 13200.	01501
(nic-nls,syntax,"zset" and "zreset") KJM 13-OCT-75	01502
Commented out CML for Set/Reset Character size commands.	01503
(nic-nls,inpfbk,aplit) KJM 12-OCT-75	01504
Set global litline to 1 if zero to allow display to refresh after printing a single line in the literal display area.	01505
(nic-nls,psendmail,xjreserve) KJM 10-OCT-75	01506
Changed to insert reserved number AFTER visible selected, and added call to dpset to cause display update.	01507
(nic-nls,catnum,gcatnums) KJM 10-OCT-75	01508
Changed to return SP's (not EOL's) after each number.	01509
(nic-nls,csendmail,jstatus) KJM 10-OCT-75	01510
Changed to return only file link string (not origin statement string) for FILE item in a sendmail status.	01511

(nic-nls,bconst,) JDH 8-OCT-75 01512
 changed isichost from 244 to 150 (decimal). 01513
 (nic-nls, chelp, qmenu) (nic-nls, pshelp, xhlpring) DAV 8-OCT-75 01514
 Fixed bug causing ragged left margin of help menus. With KIRK in
 Sept., fixed bug causing "fst entry non existent" when backing up
 too far. (Changes copied from (nls, ...) files.) 01515
 (nls, nddt2, typval) HGL 6 OCT. 01516
 db REF'd. Necessary because this procedure was moved from nddt
 where it was REF'd globally. (The macro definition lv uses it!)
 Cannot REF db globally in nddt2 because other DEFINES make use of
 it and assume it has not been ref'd. Put this change in (nic-nls)
 when the file has been retrieved from archive. ALSO RECOMPILE
 NDDT, NDDT2, NDDTDATA IN NIC-NLS BECAUSE OF THE ARCHIVAL! 01517
 (nic-nls,psedit,xupdate) KJM 1-OCT-75 01518
 Removed call to clupdt from update compact part; now being done
 in compactfile 01519
 (nic-nls,credit,compactfile) KJM 1-OCT-75 01520
 Added call to clupdt and PMAP-ping of pages to make markers update
 correctly. (<nls>credit2) 01521
 (nic-nls,ioexec,lgetjfn) JDH 30-SEP-75 01522
 when gtjfn fails on a journal item, add the name of the file to
 the error message. 01523
 (nic-nls,filmnp,wrpi) JDH 26-SEP-75 01524
 get interrupt priority from chntab[17] instead of assuming it is
 1. (used only in case of error) 01525
 (nic-nls,filmnp,) all calls to "lkun"
 (iresdb,newsdb,newrng,wrpi,etc.) JDH 23-SEP-75 01526
 use "drastic" flag from makepc to prevent call to lkun when file
 has already been "delfil"ed. 01527
 (nic-nls,psuserop,uoshow) KJM 17-SEP-75 01528
 Changed to call fbctl with type norstcalit to prevent screen
 refresh between pages of Useroptions Show All command. 01529
 (nic-nls,parser,fbctl) KJM 17-SEP-75 01530
 Added a CASE branch for the type norstcalit. See psuserop note
 above. 01531
 (nic-nls,fconst,"norstcalit") KJM 17-SEP-75 01532
 Added this global. See psuserop and parser notes above. 01533
 (nic-nls,psedit,xset) KJM 16-SEP-75 01534
 Changed set viewspecs to check for an empty window and do the
 setting right away, rather than leave it to be done in cmdfinish.
 Bypass cmdfinish (to avoid loading a file in the window, etc).
 01535
 (nic-nls,fonly,xclear) KJM 16-SEP-75 01536
 Changed to clear out only the window pointed to by the global,
 ttyda. 01537
 (nic-nls,frontend, vsplit and fixbuf) and (nic-nls,fintnls,intdaf1)
 KJM 12-SEP-75 01538
 Maximum column for a window is allowed to be wider than the
 display width if wrapping is occurring before the display width
 01539
 (nic-nls,fonly,xconterm) JDH 9-SEP-75 01540
 When trying to connect to display, try every second for 20 secs.
 01541
 (nic-nls,fonly,xaccept) JDH 9-SEP-75 01542
 When accepting a connection, dismiss for 5 secs after the accept

advise jsys before trying to open terminal in binary mode 01543
 (nic-nls,csendmail,gtcatent) JDH 8-SEP-75 01544
 added JRNL4 and JRNL5 to catalog search list 01545
 (nic-nls,psedit,subpsave) KJM 8-SEP-75 (also NLS dir) 01546
 Added code to parse pairs of link selections before entering them
 in the pairs list for substitute. New arg (entity type) required. 01547
 (nic-nls,syntax,"zsubstitute") KJM 8-SEP-75 (also NLS dir) 01548
 Added an arg (entity type) to the call to subpsave 01549
 (nic-nls,inpfbk,errfill) KJM 4-SEP-75 (also NLS dir) 01550
 changed LP error detection to tell user only if 10 errors occurred
 in 5 minutes or less; also to allow 10 more before telling him
 again 01551
 (nic-nls,syntax,) JDH 3-SEP-75 01552
 In the "ACCEPT" and "CONNECT display and tty commands, passed 1 as
 the "input and output" flag 01553
 (nic-nls,fonly,xconnect) (nic-nls,fonly,xaccept) JDH 3-SEP-75 01554
 changed to expect 1 as "input and output" flag 01555
 [BBNBJ<NETSYS>nls.sav;173 brought up from [ISIC]<NIC-NLS>RNLS.SAV;35
 (loaded 2-SEP-75 12:30) JDH 2-SEP-75 17:03 EDT 01556
 (nic-nls,parser,cmdfinish) JDH 29 AUG 75 01557
 added parens to "usesrr" test before call to "pushsrring".
 compiler was doing strange thing. 01558
 (nic-nls,seqgen,fechux) and (nls,seqgen,fechux) KJM 27-AUG-75 01559
 Added a check for an illegal file number arg. To fix illegal
 instr that sometimes occurred on jump into empty window. 01560
 (nic-nls,cedit,coutproc) (nic-nls,seqfil,opinit) (nic-nls,bdata,
 "oprwrk") (nic-nls,bdata,"comexflag") HGL 27 AUG. 01561
 If comexflag is 0, use comp80 charspace tables; if it is 1 use
 singer tables and procedures. For use with the new Output
 processor. IMPORTANT NOTE: SYNTAX and XROUTINE MUST BE FIXED so
 you needn't go through DDT to set the flag! 01562
 (nic-nls,bdata,"udpnwrap") (nic-nls,updata,"udpwrapcol")
 (nic-nls,bconst,"defdwrapcol") KJM 26-AUG-75 01563
 Added globals to make wraparound work 01564
 (nic-nls,psuserop,xuodisplay) (nic-nls,psuserop,xuoreset)
 (nic-nls,psuserop,uoreset) (nic-nls,psuserop,uoshdisplay) KJM
 26-AUG-75 01565
 Added code to set, reset and show display wraparound option 01566
 (nic-nls,syntax,) KJM 26-AUG-75 01567
 Added CML for USEROPTIONS commands to set, reset, and show display
 wraparound option 01568
 (nic-nls,psendmail,xjprocess) JDH 26-AUG-75 01569
 increased local string so command form comments can be 1500 chars
 01570
 (nic-nls,psedit,xload) (nic-nls,bconst,) JDH 26-AUG-75 01571
 added isichost as valid host number for load remote file 01572
 (nic-nls,select,xviewspecs) KJM 26-AUG-75 01573
 fixed to make viewspec window display viewspecs actually in
 effect; e.g., "v" wasn't replacing "u" in the window when it
 should 01574
 (nic-nls,dspgen,lsgfrmt) and (nic-nls,dspgen,stfrmt) KJM 26-AUG-75
 01575
 added capability to wraparound output at a user-settable point
 01576
 (nic-nls,tsprt,printg) KJM 26-AUG-75 01577

fix tests of indenting and relative indenting flags to work right.
 was doing relative indenting whenever l or g vs. and was doing no
 indenting only with both h and Q vs. 01611

(nic-nls,jndel,jinsubs) JDH 3-AUG-75 01612
 if running at BBNB, (archost) do ftp copy of <tejournal>*.nlp;*
 from ISIC to BBNB. 01613

(nic-nls,jndel,ftprcop) JDH 3-AUG-75 01614
 fixed up signal handling to handle err from ftpcls or ftpend 01615

(nic-nls,jndel,checkfile) JDH 3-AUG-75 01616
 don't try to unlock file on "Bad file" nor backup versions on "i/o
 data error" nor nuttin like that! 01617

(nic-nls,jndel,slinker) JDH 3-AUG-75 01618
 call rawopen instead of openlock--don't create partial copy if it
 isn't there already. 01619

(nic-nls,psupport,clist) KJM 2-AUG-75 01620
 initialize cl.clfixed for each type 01621

(nic-nls,frontend,editx) KJM 2-AUG-75 01622
 deactivated ^P and ^Q interrupts during edit statement 01623

(nic-nls,frontend,edixqt) KJM 2-AUG-75 01624
 reactivated ^p and ^Q at end of edit statement 01625

(nic-nls,frontend,search) KJM 2-AUG-75 01626
 restore old statement for reading when search fails (part of edit
 statement) 01627

(nic-nls,dspgen,lsgfrmt) KJM 2-AUG-75 01628
 fixed to allow one or two extra SP characters beyond display line
 length (to match output quickprint), and make right margins match
 01629

(nic-nls,tsprt,printg) KJM 2-AUG-75 01630
 same as for lsgfrmt above, with right margin at the max rather
 than 2 less 01631

(nic-nls,seqfil,sfputst) KJM 2-AUG-75 01632
 same as for lsgfrm above: allow 1 or 2 extra SPs at the end of a
 line 01633

(nic-nls,bintnls,jnlin) JDH 30-JUL-75 01634
 call setinterrupts if autostrt 01635

(nic-nls,psystem,xjnload) JDH 30-JUL-75 01636
 new "X" routine to load JNLDEL 01637

(nic-nls,psystem,xjnldel) JDH 30-JUL-75 01638
 new "X" routine to delete JNLDEL 01639

(nic-nls,syntax,zxdelete) JDH 30-JUL-75 01640
 new XXX command to "DELETE JNLDEL" 01641

(nic-nls,syntax,zxload) JDH 30-JUL-75 01642
 added XXX command to "LOAD JNLDEL" 01643

(nic-nls,psystem,jnlout) JDH 30-JUL-75 01644
 set jnlprog FALSE 01645

(nic-nls,psystem,xjoutil) JDH 30-JUL-75 01646
 changed to call jnlrun insted of jnlin, clear libflg on cleanup,
 dont call jnlout on cleanup. 01647

(nic-nls,bintnls,jbackground) JDH 30-JUL-75 01648
 call jnlrun instead of jnlin 01649

(nic-nls,bintnls,jnlin) (nic-nls,bintnls,jnlrun) JDH 30-JUL-75 01650
 broke out "jnlin" stuff, put remainder in
 (nic-nls,bintnls,jnlrun). 01651

(nic-nls,jndel,joutil) JDH 28-JUL-75 01652
 have background set all its names when it first comes up so it
 won't show up as ".OTHER" 01653

OFFICE-13<NETSYS>NLS.SAV;170 brought up from <NIC-NLS>RNLS.SAV;16.
 JDH 22-JUL-75 1800PDT 01654
 (nic-nls,psendmail,xjreserve) JDH 14-JUL-75 01655
 detect reconnect error from gcatnums and dismes it as a warning 01656
 (nic-nls,catnum,gcatnums) JDH 14-JUL-75 01657
 handle conjdir reconnect errors 01658
 (nic-nls,inpfbk,specttyout) JDH 14-JUL-75 01659
 increased size of error string 01660
 (nic-nls,bconst,) JDH 4-MAR-75 01661
 changed "prtmdir" from "PRINTER" to "ARCPRINTER". done in <NLS>
 sources on 2-JUL-75 01662
 EBBNBJ<NETSYS>NLS.SAV;170 brought up from <NIC-NLS>RNLS.SAV;16. JDH
 1-JUL-75 2355PDT 01663
 (nic-nls,jndel,oldist) 27-JUN 01664
 changed delivery loop to collect delivery items for individual
 only for on-line delivery, not for network deliivery. separate
 text files for each network delivery item. fixed bug allowing
 duplicate network delivery in certain cases. 01665
 (nic-nls,jndel,jinsubs) JDH 27-JUN 01666
 call ftprcop passing xfer extension parameter 01667
 (nic-nls,jndel,ftprcop) JDH 27-JUN 01668
 added calling parameter for xfer extension instead of always
 getting ".NLR" files. 01669
 (nic-nls,jndel,oldist) JDH 23-JUN-75 01670
 call mailgroup, etc. to do network delivery for new message
 content 01671
 (nic-nls,jndel,mailgroup), (nic-nls,jndel,mailbranch) JDH 23-JUN-75
 01672
 new procedures 01673
 (nic-nls,psystem,xjump) JDH 20-JUN-75 01674
 changed so "itemnovs" uses cspvs which may have been set by
 viewspecs in the given address. 01675
 (nic-nls,recfil,outptr) EKM 17-JUN-75
 (nis,recfil,outptr) EKM 17-JUN-75
 (nine,recfil,outptr) EKM 17-JUN-75 01676
 Changed outptr so tasks will send print files to directory
 ARCPRINTER 01677
 (nic-nls,inpfbk,litbc) JDH 16-JUN-75 01678
 handle "savecol" so backspacing over a line break during literal
 input doesn't screw up the next line break. 01679
 EBBNBJ<NETSYS>NLS.SAV;169 brought up from <NIC-NLS>RNLS.sSAV;15. JDH
 6-JUN-75 0110PDT 01680
 (nic-nls,dspgen,stfrmt) JDH 4-JUN-75 01681
 fix character count for first line of statement with st. numbers
 on and names off. 01682
 (nic-nls,frontend,vsplit), (nic-nls,frontend,fixbuf), and
 (nic-nls,fintnls,intdaf1) JDH 4-JUN-75 01683
 use display right margin max useroption "udpcolmax" when seting
 da.damcol 01684
 (nic-nls,seqfil,opseqf) JDH 4-JUN-75 01685
 use quickprint right margin useroption "ugpcolmax" to set "sfinel"
 if doing quickprint 01686
 (nic-nls,syntax,) JDH 3-JUN-75 01687
 for new Useroptions "Display Right margin max" and "Output
 Quickprint Right margin" 01688

corresponding changes to Useroptions Reset and Show commands 01689
 keyword "OUTPUT" 01690
 (nic-nls,psuserop,) JDH 3-JUN-75 01691
 new procedures: xuoutput, xuodisplay, uoshoutput, uoshdisplay 01692
 changed procedures: xuoshow, xuoreset, ucshow, uoreset 01693
 for new useroptions "Display Right margin max" and "Output
 Quickprint Right margin" 01694
 (nic-nls,bconst,) JDH 30-MAY-75 2300 01695
 defqcolmax and defdcolmax default values for useroptions qpcolmax
 and dpcolmax. 01696
 (nic-nls,update,) JDH 30-MAY-75 01697
 user option storage for quickprint and display options 01698
 (nic-nls,syntax,devopt) JDH 20-MAY-75 1230 01699
 made 35-TTY and 37-TTY second level (33-TTY is first level) 01700
 KEV 15-MAY-75 20:58 changed the following procedures to make output
 quickprint listen to user-profile number of columns and hopefully to
 fix output quickprint tab problems 01701
 <nic-nls, seqfil, opseqf> & <nls, seqfil, opseqf> & <nsw-sources,
 seqfil, opseqf> 01702
 <nic-nls, seqfil, sfputst> & <nls, seqfil, sfputst> &
 <nsw-sources, seqfil, sfputst> 01703
 (nic-nls, credit, copfil) JDH 14-MAY-75 1300 01704
 copy origin statement name delimiters to new file on update
 compact 01705
 JDH 13-MAY-75 2200 brought up <NETSYS>NLS.SAV;168 from
 <nic-nls>rnl.sav;12 loaded 13-MAY-75 14:45 01706
 KEV 2-MAY-75 17:25 changed the following procedures to make calls on
 the measurement package subsystem:
 < nic-nls, parser, supervisor > & <nls, parser, supervisor >
 < nic-nls, parser, evaler > & < nls, parser, evaler >
 < nic-nls, inpfbk, lookc > & < nls, inpfbk, lookc >
 and added the following declares to <nic-nls, fdata, > & < nls,
 fdata, >:
 analyzing, analtime, & notetime 01707
 JDH 1-MAY-75 1:07 RNLs load of 29-apr-75 21:15 made running system at
 BBNB, <NETSYS>NLS.SAV;167 01708
 (nic-nls,jndel,ftprcop) JDH 29-APR-75 01709
 added account number to formal parameters 01710
 (nic-nls,jndel,jinsubs) JDH 29-APR-75 01711
 call ftprcop with proper account number 01712
 (nic-nls,binlns,jnlin) JDH 29-APR-75 01713
 don't send atljb jsys for 132 and higher 01714
 (nic-nls, jndel, oldist) JDH 24-APR-75 01715
 author and journal branches (put in by system when one doesn't
 exist in initial file) changed to have NULL NULL name delimiters
 01716
 <nic-nls, seqfil,> KIRK 16-APR-75 23:02 01717
 changed outseq, outqp, opseqf, and sfputst to output control
 characters unless output quickprint where special things are
 already being done. 01718
 also changed sfputst to do relative indenting 01719
 <programs, modify, addtext> KIRK FEB-75 01720
 fixed insert back to do back instead of front 01721
 <programs, publish, couvis> KIRK 15-APR-75 00:21 01722
 fixed filter bug 01723

<nic-nls, frontend, curvsp> KIRK 15-APR-75 00:21 01724
 fixed to show viewspec capital Q 01725
 <nic-nls, seqfil, inseqn> and inseq1 DSM KIRK 9-APR-75 21:50 01726
 fixed inseq1 to return the stid which its caller is expecting and
 inseqn to determine relative level adjustment by always using the
 indentation of the second line except in the case where the second
 line is not indented. 01727
 <nic-nls, pshelp,> KIRK 8-APR-75 22:29 01728
 changed to go to userguides dir for database 01729
 <nic-nls, execfl, gtdesjfn> KIRK 8-APR-75 22:29 01730
 fixed copy/move file multiple version switching bug. No longer
 automatically copies to higher version if destination file with
 same name already exists, unfortunately. 01731
 CHI updated dismes and dismsg to remove call on track and to fix find
 statement looking for [EOL/CR LF] to ([EOL]/[CR LF]). 01732
 (nic-nls, fintnls, initdis) (nic-nls, fintnls, ttywindow) JDH 2-APR
 removed tasker code 01733
 removed tasker code 01734
 (nic-nls, auxcod, shutdis) JDH 2-APR 01735
 removed tasker code 01736
 (nic-nls, auxcod, rstconnection) JDH 2-APR 01737
 removed atljb jsys call 01738
 (nic-nls, cedit, cexpdir) JDH 31-MAR 01739
 use jpasswd instead of calling gtpsw jsys for tenex > 13100 01740
 (nic-nls, fonly, xaccept) JDH 2-APR 01741
 removed atljb jsys call, added imlac code to turn tty simulation
 off, removed tasker code 01742
 (nic-nls, fonly, xaccept) JDH 2-APR 01743
 removed atljb jsys call, added imlac code to turn tty simulation
 off, removed tasker code 01744
 2-APR KEV 01745
 i changed the following files and procedures to add the ability
 when doing record session to generate a runfile formatted file as
 opposed to a playback formatted file: 01746
 (nic-nls, inpfbk, cntrlgetchar) 01747
 (nic-nls, frontend, lccords) 01748
 (nic-nls, psedit, xstart) 01749
 (nic-nls, psedit, xstop) 01750
 (nic-nls, syntax,) 01751
 (nic-nls, fdata,) 01752
 recrundef added 01753
 (nic-nls, cedit, cexpdir) JDH 31-MAR 01754
 use "jpasswd" instead of calling gtpsw jsys for 132 and higher 01755
 (nic-nls, inpfbk,) JDH 31-MAR 01756
 litpbout, bmooff, delbm, csrstr, rstlit, clrseqda, litsup, littty:
 removed tasker code 01757
 (nic-nls, bintnls, libstrt) JDH 31-MAR 01758
 handle autostrt already logged in 01759
 (nic-nls, csendmail, jolock) JDH 28-MAR 01760
 changed "journal system file error" message to not refer to NIC
 center. 01761
 (programs, message,) KIRK 25-MAR-75 23:21 01762
 added an exta confirm after bugging the source for sending a
 message. 01763
 (programs, message, mldeliver) KIRK 25-MAR-75 23:21 01764

increased string size to fix Send Message command bug. 01765
 (nic-nls, bdata,) JDH 20-MAR 01766
 removed runlib, libmax 01767
 (nic-nls, bintnls, jnlin) JDH 20-MAR 01768
 resotred "no autologout" for office-1 01769
 (nic-nls, bintnls, checklib) JDH 20-MAR 01770
 changed so it logs in as background if it isn't already logged in
 instead of checking runlib[] and flags 01771
 (NIC-NLS, utility, flagut) JDH 20 MAR 01772
 RETURN if can't get flagfile open: TRUE for JLOCK, FALSE for
 others 01773
 DOCUMENTED: everything below this has been copied to <documentation,
 manual, do> to be documented. Add new things above this statement
 and notify KIRK of any changes made below this statement. 01774
 (nic-nls, execfl, gtdesjfn) KIRK 19-MAR-75 22:33 01775
 Changed to increment version number if file already exists. (To
 fix Move Message Bug). 01776
 (nic-nls, srecords, viewspecs) KIRK 19-MAR-75 16:38 01777
 Added vsrind accidentally omitted from viewspec record. 01778
 (nic-nls, seqfil, opseqf) DSM 18 MAR 01779
 Substituted "CR, LF, LF" for "22b" (control R) to fix problem with
 ELF printer 01780
 (nic-nls, seqfil, sfttrl) DSM 18 MAR 01781
 Substituted "CR, LF, LF" for "22b" (control R) to fix problem with
 ELF printer 01782
 (nic-nls, pshelp, hlpinit) HGL 18 MAR 01783
 Moved call on clearada at cleanup so it's called only if in display
 mode. 01784
 (nic-nls, seqfil, opseqf) DSM 18 MAR 01785
 Substituted "CR, LF, LF, LF" for "22b" (control R) to fix problem
 with ELF printer 01786
 (nic-nls, seqfil, sfttrl) DSM 18 MAR 01787
 Substituted "CR, LF, LF, LF" for "22b" (control R) to fix problem
 with ELF printer 01788
 (nic-nls, fconst,) JDH 18-MAR 01789
 rwsetflag to use the "release working set" jsys in parser 01790
 (nic-nls, parser, cmdfinish) JDH 17 MAR 01791
 calls to rwset jsys at beginning and end of proc for 133 01792
 (nic-nls, parser, evaler) JDH 17 MAR 01793
 call rwset jsys before call to execute function for 133 01794
 <nic-nls, srecords, viewspecs > 12-MAR-75 04:38 KIRK 01795
 relative indenting flag added (vsrind) for viewspec Q. 01796
 <nic-nls, prmssc, settl > 12-MAR-75 04:38 KIRK 01797
 Viewspect Q added to turn vsrind TRUE. Capital A and B changed to
 turn vsrind FALSE. 01798
 <nic-nls, dspgen, stfrmt > 12-MAR-75 04:38 KIRK 01799
 Changed to do relative indenting only if vsrind and (vsbrof or
 vsplx). 01800
 <nic-nls, pshelp, "vsindf".p > 12-MAR-75 04:38 KIRK 01801
 qda.davspec.vsrind _ TRUE; 01802
 <nic-nls, frontend, howformat > 12-MAR-75 04:38 KIRK 01803
 Changed to look for vsrind rather than NOT vsindf. (copied to
 nsw-sources) 01804
 (nic-nls, fintnls, setdev) (nic-nls, fintnls, getdev) JDH 10 MAR
 01805
 removed tasker code 01806

(nic-nls, dspgen,) JDH 10-MAR 01807
 alocca, dealocda, resda, supda, clearda, wrtstr: removed tasker
 code 01808

(nic-nls, syntax,) JDH 10-MAR 01809
 changed "INSERT DATE" to level 1 command 01810

<nic-nls, pshelp, hlpinit > 10-MAR-75 15:15 HGL 01811
 Loads file out of ARCDOCUMENTATION rather than DOCUMENTATION. 01812

<nic-nls, ioexec, fetchfile > 9-MAR-75 15:56 KIRK 01813
 message changed slightly. 01814

<nic-nls, psuserop, xuoexclude > 8-MAR-75 05:32 KIRK 01815
 xuoexclude and xuoinclude changed to allow directories in included
 program filenames. 01816

<nic-nls, execfl, movflandpc > 8-MAR-75 01:16 KIRK 01817
 movilandpc changed so move file works if no partial copy. 01818

(nic-nls, frontend, auxchr) 7-MAR KEV 01819
 fixed process commands to work with 133 standard tenex for
 lineprocessors 01820

(nic-nls, pssystem, ddt) 7-MAR KEV 01821
 ddt fixed to work with 133 standard tenex for lineprocessors 01822

(nic-nls, inpfbk, dinbc) 7-MAR KEV 01823
 dinbc fixed to assist in dropped character problem 01824

(nic-nls, bdata,) 5-MAR JDH 01825
 jokludgeupdtfl added 01826

(nic-nls, jnldel, jinsubs) 5-MAR JDH 01827
 set jokludgeupdtfl when callinn updtfl to <outjournal> 01828

(nic-nls, cedit, updtfl) 5-MAR JDH 01829
 if jkludgeupdtfl set, change ";" in link in origin to ":" for
 oldnls journal delivery running at office-1 01830

(nic-nls, jnldel, joutil) and (nic-nls, jnldel, xrecovf) 4-MAR jdh 01831
 moved the "connect to journal directory" from xrecovf to joutil so
 it always happens 01832

(nic-nls, jnldel, openmail) JDH 2-MAR 01833
 if hoststr is "SRI-ARC" change it to *arcstr* 01834

(nic-nls, ioexec, opnctfile) 4 MAR JDH 01835
 send ctrl file open fail message to file instead of operator 01836

(nic-nls, inpfbk, outerrec) KJM 4-MAR 01837
 fixes to put line processor errors in netsys directory 01838

(nic-nls, jnldel, xrecovf) JDH 2-MAR 01839
 set primary jfn to jlog file instead of tty0 on autostart 01840

(nic-nls, jnldel, joutil) JDH 2-MAR 01841
 close jlog file when resetting primary JFN 01842

(nic-nls, bdata,) JDH 2-MAR 01843
 jlogjfn, jfn of jlog file while primary output is going there 01844

(nic-nls, inpfbk, specttyout) JDH 2-MAR 01845
 put output on file <journal>jlog.txt instead of tty0 01846

(nic-nls, jnldel, ftprcop) JDH 2-MAR 01847
 send messages-to-operator to file also 01848

(nic-nls, bconst,) JDH 2-MAR 01849
 changed arcstr to "BBNB", added arcistr = "SRI-ARC" for ident
 purposes 01850

(nic-nls, identsupport, ldelivery) JDH 2-MAR 01851
 use arcistr ("SRI-ARC") instead of arcstr (which is changed to

"BENB" now)	01852
(nic-nls, jnldel, snkerr) JDH 2-MAR	01853
use oprtty instead of tty 30B	01854
(nic-nls, bintnls, libstrt) JDH 2-MAR	01855
use oprtty instead of tty 30B	01856
(nic-nls, csendmail, jlog) JDH 2-MAR	01857
send jlog messages to logging file	01858
(nic-nls, csendmail, lockjo) JDH 2-MAR	01859
send "Jornal Locked" message to oprtty only if it's because of bad file.	01860
(nic-nls, fintnls, getuident) JDH 2-MAR	01861
get "GROUP.INDEX" from <identfile> for archost machine.	01862
(nic-nls, jnldel, jnote) JDH 2-MAR	01863
remove "INFO-ONLY" note, leave "ACTION" note	01864
(nic-nls, jnldel, oldist) JDH 2-MAR	01865
put outgoing network delivery in <outjournal> instead of <documentation>	01866
(nic-nls, jnldel, jinsubs) JDH 2-MAR	01867
message vs. file cutoff 1000 instead of 2000 chars.	01868
(nic-nls, jnldel, entrjdoc) JDH 1-MAR	01869
lock for nls-8 type origin statement file name	01870
(nic-nls, jnldel, jcatentry) JDH 1-MAR	01871
lock for nls-8 type origin statement file name	01872
(nic-nls, pssendmail, xjreserve) JDH 1-MAR	01873
correct "type" parameter being passed to gcatnums: "JOURNAL" is a command word in syntax, so it was getting a number when it expected a string.	01874
(nic-nls, bconst,) JDH 1-MAR	01875
change archost from 2 to 61B	01876
(nic-nls, fintnls, setinterrupts) JDH 1-MAR	01877
change interrupt level for wrtpsi from 1 to 2	01878
(nic-nls, bintnls, jnlin) JDH 1-MAR	01879
delete atljb jsys call, get <nic-nls>jnldel.rel instead of <rel-nls>, RETURN instead of !HALTF at end.	01880
(nic-nls, ioexec, lock) JDH 1-MAR	01881
reduced lkinit field from 21 to 20, increased lkdirn from 9 to 10	01882
(nic-nls, jnldel, oldist) JDH 27-FEB	01883
put delivery in journal branch instead of action and info, no notify of delivery.	01884
(nic-nls, recfil,) JDH 27-FEB	01885
changed all .rh and .lh to .RH and .LH	01886
(nic-nls, jnldel, xrecovf) JDH 27-FEB	01887
allow psuedo wheel to do recoverfiles	01888
(nic-nls, bdata,) JDH 27-FEB	01889
flagjfn, for flag file replacing flag jsys"	01890
(nic-nls, utility, flagut) JDH 27-FEB	01891
changed to use flag file instead of flag fsys"	01892
(nic-nls, fdata,) JDH 26-FEB	01893
nwheelif psuedo-wheel flag	01894
(nic-nls, fconst,) JDH 26-FEB	01895
nwheelcinit table of psuedo-wheel cinit	01896
(nic-nls, fintnls, getuident) JDH 26-FEB	01897
set nwheelif (psuedo wheel) if cinit in nwheelcinit. do idfrmuser if nwheelif flag already set on entry	01898
(nic-nls, psedit, xload) JDH 26-FEB	01899

```

allow non-wheel with nwheelf set to do load busy file 01900
(nic-nls, recfil, nlsutilty) JDH 26-FEB 01901
don't put out "not wheel" message on tenex>= 13200 01902
(nic-nls, recfil, setpriority) JDH 26-FEB 01903
don't issue priority jsys if not a wheel 01904
(nic-nls, cedit, cconfildir) JDH 26-FEB 01905
on successful connect to dir, save password in jpasswd and ipassw
in case conjdir or conidir are called 01906
(nic-nls, ioexec, conidir) JDH 26-FEB 01907
only call !gttppsw for tenex<13200 01908
(nic-nls, ioexec, vrprvacc) JDH 26-FEB 01909
check nwheelf for private file access 01910
(nic-nls, ioexec, conjdir) JDH 26-FEB 01911
only call !gttppsw for tenex<13200 01912
CHI: changed (nic-nls, dspgen, inline) to pad according to lpilpad.
(fintnls, getdev) to set lpdldpad and lpilpad correctly for data media.
added lpilpad to fdata. 01913
changed the following files to make dnls run on standard tenex: 01914
auxcod 01915
(nic-nls, auxcod, dismsg) 01916
(nic-nls, auxcod, shutdis) 01917
bconst 01918
fcor2 fcor4 cnch2 acor2 acor4 irep lpesc lpresc lpnocoor 01919
dspgen 01920
DECLARE EXTERNAL deltadata = 1, hazeltine = 2, datamedia = 3; 01921
fintnls 01922
(nic-nls, fintnls, startup) 01923
(nic-nls, fintnls, getdev) 01924
(nic-nls, fintnls, initdis) 01925
(nic-nls, fintnls, setinterrupts) 01926
inpfbk 01927
(nic-nls, inpfbk, lpaltgetchar) 01928
(nic-nls, inpfbk, lpgetchar) 01929
(nic-nls, inpfbk, dinptc) 01930
(nic-nls, inpfbk, dinbc) 01931
nddt 01932
(nic-nls, nddt, runddt) 01933
psedit 01934
(nic-nls, psedit, xlogout) 01935
utilty 01936
(nic-nls, utilty, doctrlc) 01937
<nic-nls, fintnls, getuident> JDH 5-FEB-75 01938
If "nojournalfalg" then ask user for ident without checking
<system>group.index. 01939
<nic-nls, bintnls, cheklibe> JDH 5-FEB-75 01940
return 0 if nojournalfalg 01941
<nic-nls, ioexec, maywrt> JDH 5-FEB-75 01942
don't issue chkac jsys for 132 or higher 01943
<nic-nls, ioexec, ckdiracc> JDH 5-FEB-75 01944
RETURN immediately if 132 or higher 01945
<nic-nls, inpfbk, nlcrrms> JDH 5-FEB-75 01946
Return immediately for 132 or higher 01947
<nic-nls, csendmail, jsubmit> JDH 5-FEB-75 01948
If nojournalfalg then call err with msg saying journal not enabled
on this system. 01949

```

```

<nic-nls, sdata> JDH 5-FEB-75                                01950
  added nojournalflag                                        01951
<nic-nls, psedit, substatus> DSM 5-FEB-75                  01952
  Fixed bug in status portion of substitute command        01953
<nic-nls, cedit, crepsta> HGL 3-FEB-75                     01954
  Fixed typo in this procedure which appears to be called nowhere!
  ST atbug _ bybug1 bybug2; rather than ST atbug _ bybug1, ... 01955
<nic-nls>syntax KJM 24-JAN-75                                01956
  Commented out CML for Compile Assembler because it's not
  implemented.                                             01957
<nic-nls, fintnls, initdis> HGL 23-JAN-75                  01958
  Transposed groups to get proper order in code for IMLAC
  initialization (AGAIN!!!) Also did it in <NLS>. This was
  originally done on 21-NOV!                               01959
<nic-nls, psedit, xappend> JDH 20-JAN-75                   01960
  commented out section for append link: not called        01961
<nic-nls, psedit, xdelete> JDH 20-JAN-75                   01962
  commented out section for delete archive file: not called 01963
<nic-nls, cedit, cdelarcfil> JDH 20-JAN-75                 01964
  commented out procedure: not called since psedit, xdelete section
  commented out.                                          01965
<nic-nls, psedit, xset> JDH 20-JAN-75                       01966
  deleted section for set case: no longer called, same code now in
  FORCE CASE                                              01967
<nic-nls, pssendmail, xjcloworfil> JDH 20-JAN-75           01968
  Procedure commented out: call not implemented            01969
<nic-nls, pssendmail, xjpriharcop> JDH 20-JAN-75           01970
  Procedure commented out: call not implemented            01971
<nic-nls, psuserop, xuolevel> JDH 20-JAN-75                 01972
  Procedure commented out: call not implemented            01973
<nic-nls, pssystem, xutilinit> JDH 20-JAN-75                 01974
  Procedure commented out: not called                       01975
<nic-nls, pssystem, xsubnotimp> JDH 20-JAN-75                 01976
  Procedure commented out: not called                       01977
<nic-nls, inpfbk, outerrec> KJM 9-jan-75                    01978
  Fixed bug in Line Porcessor error recording; error data file MUST
  already exist (user can't create it).                    01979
<nic-nls, cprograms, gpget> dsm 8-JAN-75                    01980
  Fixed bug which would not let one load a subsystem which had a
  command word which was the same as the subsystem name.  01981
<nic-nls, nddt2, mrkglookup> dsm 8-JAN-75                    01982
  This new procedure was added to nddt2 to support gpget (see change
  above)                                                    01983
<nic-nls, syntax> jdh 7-JAN-75                               01984
  Changed user-options reset recognition mode to level 2 command
  uf                                                        01985
  uf                                                        01986
<nic-nls, cprograms, upgcnv> dsm 6 JAN 75                    01987
  Fixed bug in the run program command with user subsystems loaded
  01988
<nic-nls, bdata, filescc> kirk 3 JAN                          01989
  Increased local string escname for statementnames to 100
  characters instead of 40 to fix "string to long" bug with a line
  of dashes.                                               01990
<nic-nls, bdata, "lkupreg"=w> kirk 3 JAN                     01991
  Increased this globla string for statementnames to 100 characters

```


instead of 40. 01992

<nic-nls, psedit, xload> kirk 2 JAN 01993

Fixed so that loading a file from another site puts the file in your connected directory. Also -rem changed (again) to appear at the end of the local filename instead of the beginning. 01994

<nic-nls, seqfil, processor> <nic-nls, seqfil, oprnst> hgl 26 DEC 01995

Fixed so Output processor may work with "sent" strings as well as NLS statements. 01996

<nic-nls, psedit, xshow> , <nic-nls, psedit, xdiropt> , nic-nls

<nls, syntax,> show and diropt jdh 19-DEC 01997

"For file" filename string address passed in table addressed by dent instead of in filtre 01998

<nic-nls, seqfil,> kirk 19 DEC 01999

sfputst, opseqf: added parameter "savctl" TRUE if imbedded CTRL characters are not to be deleted. 02000

outseq: changed to call new opseqf 02001

outqp: changed to call new opseqf 02002

DSM 12/19/74 Summary of NLS changes to pass keywords as integer. For a more complete description of the changes see (GJOURNAL, 24614, 1:w) . 02003

This plex summarizes the modifications which have been made to NLS to take advantage of the new XCMC Compiler . See CHI's (MJOURNAL, 24323, 1:w) for a complete description of the new CML and CML Compiler. The two main changes are: 02004

1) LEVEL ONE !L1! is now default for all COMMAND WORDS. You may specify LEVEL TWO !L2! for a command, but this is not necessary, as the compiler assigns !L1! to the first command work encountered in case of conflicts. 02005

2) A new declaration DECLARE COMMAND WORD which associates an integer with a command word and passes the address of this integer whenever the command word is passed as an argument to an xroutine. 02006

The following files were changed . The major changes were to the xroutines to correctly handle the keywords which are now passed as two word records (the first word contains an integer and the second word points to a string containing the keyword. 02007

(nls, select,) 02008

(nls, psedit,) 02009

(nls, pscalc,) 02010

(nls, pssendmail,) 02011

(nls, psprogs,) 02012

(nls, pssystem,) 02013

(nls, psuserop,) 02014

(nls, pshelp,) 02015

(nls, fonly,) 02016

This represents the first stage in splitting NLS to eventually run on two different machines. Our plan is to finish this stage of the split and bring this version of NLS up as the running system both at ARC and at OFFICE-1 before starting more extensive modifications to NLS for NSW. This approach has the advantage of getting rid of the resolver problem for the running system at OFFICE-1. 02017

NOTE*****!!!! NLS sources moved to NIC-NLS 19-DEC-74 16:23 (jdh) 02018

*** <netsys>nls.sav;152 brought up from <nic-nls>rnls.sav. 13 DEC

```

JDH 02019
<nic-nls, tsprt, printg> jdh 13 DEC 02020
  don't put page break before first line of print (E vspc) 02021
<nic-nls, pshelp, hlpinit> hgl 13 DEC 02022
  Made sure qda.davspec.vspagf set FALSE! (Default changed and
  pagination put into printg. We don't want that to happen in
  help.) 02023
<nic-nls, tsprt, printg> hgl 13 DEC 02024
  Fixed typo: da.dacrow _ 0 rather than _ s. 02025
<nls>catnum ad <nic-nls>catnum ekm I increased tempstr stringlength in
proc rfcex to 250 and put in tasks for compile. 02026
*** <netsys>nls.sav;151 brought up from <nic-nls>rnl.sav. 12 DEC.
HGL 02027
<nic-nls, pshelp, hlpinit> hgl 12 DEC 02028
  This one is for NIC, not REL as before!!! 02029
*** <netsys>nls.sav;150 brought up from <nic-nls>rnl.sav. 12 DEC.
HGL 02030
<nic-nls, chelp, hlpstrt> hgl 12 DEC 02031
  Changed calling sequence to take three parameters so we can check
  if we are being called recursively. On recursive calls check
  under universal for second level command word, then upon return,
  if not found put the user at the description of the subsystem he
  is in. If command found under universal, put her at that command
  description. Fixes loop bug discovered when DB didn't have
  description of command under subsystem. 02032
<nic-nls, pshelp, hlpinit> hgl 12 DEC 02033
  Changed call on hlpstrt to correspond to new calling sequence;
  third parameter is TRUE since this is a first level call on it.
  02034
<nic-nls, pscalc,> and <nls, pscalc,> ekm fixed bug in calc to allow
user to specify an accumulator as input to an arithmetic operation.
02035
<nic-nls, parser,> dsm dec 9 correct misspelled "keywordstr" to
"keywordstr" 02036
*** Put my <nic-nls> changes made since 5 DEC into <nls>parser,
<nls>select, <nls>syntax, and <nls>pshelp. HGL 9 DEC 02037
<nic-nls, select, xselect> hgl 9 DEC 02038
  Truncate promptstr if too long (>= 20 characters.) 02039
<nic-nls, parser, xfeedback> hgl 9 DEC 02040
  Now resets cueflg in all cases. 02041
<nic-nls, pshelp, helpshow> hgl 9 DEC 02042
  Moved calls on dismes(0) to before calls on qdisp to remove
  messages remaining on screen before display creation. 02043
<nic-nls, pshelp,> hgl 6 DEC 02044
  Modified help parsefunctions to prompt correctly with fixed
  interpreter. Added "dumpprompt" for the same reason. 02045
<nic-nls, syntax,> hgl 6 DEC 02046
  Modified help command to prompt correctly with fixed interpreter.
  Added "dumpprompt" for the same reason. 02047
<nic-nls, select, xselect> hgl 6 DEC 02048
  Changed max prompt string length. (Currently uses stack space.
  Should also truncate if too long!) 02049
<nic-nls, parser, xfeedback> hgl 6 DEC 02050
  Now resets cueflg if called in nechotr mode. (Should it reset it
  in any case?) 02051
<nic-nls, tsprt, newpag> <nic-nls, tsprt, printg> jdh 6 DEC 02052

```

TNLS print pagination (E vwspc) 11 inches instead of 11 1/2. 02053
 <nic-nls, bconst> jdjh 6-DEC 02054
 deflinmax to 60 (sets linmax in userop page) instead of 63.
 currently used only by tnls print, could also be used by
 quickprint. 02055
 ***** <netsys>nls.sav;149 brought up 5 DECEMBER by HGL. 02056
 <nic-nls, parser, add2help> hgl 5 DEC 02057
 Truncate string if too long to fit in column. 02058
 <nic-nls, parser, addhelp> hgl 5 DEC 02059
 Changed messages put out at ?-time to avoid overflowing strings on
 IMLACs with long vectors. Messages changed are "<CTRL-Q> for
 HELP" and "<CTRL-S> for SYNTAX" to "<CTRL-Q>: HELP" and
 "<CTRL-S>: SYNTAX". 02060
 <nic-nls>credit dsm 5-dec-74 Fixes force case branch bug 02061
 dsm 4-dec The following Four files were changed to fix bugs in the
 print command 02062
 <nic-nls,select,xviewspecs> and <nic-nls,select,getaddr> 02063
 <nic-nls,adrmnp,nfstid> 02064
 <nic-nls,credit,cprigro> 02065
 <nic-nls,psedit,xprint> 02066
 <nic-nls, syntax, > jdjh 3-DEC 02067
 Changed "HEARALD" in User-Options to a second level command. 02068
 <nic-nls, pshelp, helpshow> hgl 2 DEC 02069
 Changed error message form "Item not found" to "[item]? Try a
 synonym" which stays on the screen 02070
 <nic-nls, chelp, qsearch> hgl 2 DEC 02071
 Removed unnecessary code which used to handle "back" function.
 02072
 <nic-nls, chelp, topsch> hgl 2 DEC 02073
 Does lookup with type nrxname rather than call on segsch which
 does namingrp. 02074
 <nic-nls>jnidel JDH 27 NOV 02075
 set name delims to () when delivery inserts "action", "info", and
 "author" branches. Correction so they are set only when the new
 statment is inserted. 02076
 <nic-nls, fintnls, initdis> rlb2 21 NOV 02077
 Transposed two groups of statements in this procedure in order to
 make the IMLAC version of NLS work. Thoroughly pragmatic solution
 inasmuch as we don't know why it works other than realizing that
 there is some order dependency in the sout of the 13B and the call
 on dismes. NOTE: Does this transposition affect anything else???
 E.g., what about when 132 comes up? 02078
 <nic-nls>psedit DSM 21 NOV 02079
 changed setcharsize to test nldevice NOT= devlproc instead of
 nldevice NOT= lineprocessor (lineprocessor is a command word)
 02080
 <nic-nls>pscalc DSM 21 NOV 02081
 fixed bug turned up by command word changes. 02082
 <nic-nls>jnidel JDH 21 NOV 02083
 set name delims to () when delivery inserts "action" or "info"
 branch. Also for "Active" branch in tjcat. Should also be done
 for "author" branch. 02084
 <nic-nls>seqfil,sfputst KJM 20 Nov. 02085
 -- when blank lines and stmt numbers on the right are both on, and
 the statement number requires a separate line, no extra blank line
 should be printed on an output quickprint. It does now, but won't

```

with this fix.                                02086
<nic-nls>psedit KIRK 18 NOV                    02087
  -- changed xload procedure to add the characters "-rem" to the end
  of the local remote file name instead of to the beginning. 02088
(NINE-CHANGES) Record at <nine, nls, changes> changes to NINE source
files.                                          02089
(DONE) Tasks Which Are Done (CLEAN THIS OUT ONCE IN A WHILE) 02090
  Compile jnlidel                              02091
    Completed at 25-Apr-78 22:26                02092
  Compile adrmnp                               02093
    Completed at 25-Apr-78 13:27                02094
  Compile execfl                               02095
    Completed at 25-Apr-78 13:22                02096
  Compile fintnls                              02097
    Completed at 23-Apr-78 23:02                02098
  Compile execfl                               02099
    Completed at 23-Apr-78 22:25                02100
  Compile execfl                               02101
    Completed at 23-Apr-78 22:07                02102
  Compile ioexec                               02103
    Completed at 23-Apr-78 21:37                02104
  Compile ioexec                               02105
    Completed at 23-Apr-78 21:05                02106
  Compile ceditl                               02107
    Completed at 23-Apr-78 19:54                02108
  Compile fintnls                              02109
    Completed at 23-Apr-78 19:54                02110
  Compile filmnp                               02111
    Completed at 23-Apr-78 13:23                02112
  Compile ioexec                               02113
    Completed at 23-Apr-78 12:27                02114
  Compile filmnp                               02115
    Completed at 23-Apr-78 12:27                02116
  Compile bintnls                              02117
    Completed at 23-Apr-78 10:48                02118
  Compile execfl                               02119
    Completed at 23-Apr-78 10:41                02120
  Compile fintnls                              02121
    Completed at 23-Apr-78 10:41                02122
  Compile ioexec                               02123
    Completed at 23-Apr-78 10:41                02124
  Compile ioexec                               02125
    Completed at 23-Apr-78 10:15                02126
  Compile bintnls                              02127
    Completed at 23-Apr-78 10:07                02128
  Compile execfl                               02129
    Completed at 23-Apr-78 10:07                02130
  Compile filmnp                               02131
    Completed at 23-Apr-78 10:06                02132
  Compile ioexec                               02133
    23-Apr-78 10:06    1 Errors                 02134
  Compile inpfbk                               02135
    Completed at 22-Apr-78 18:14                02136
  Compile filmnp                               02137
    Completed at 22-Apr-78 18:10                02138
  Compile ioexec                               02139

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Completed at 22-Apr-78 18:03	02140
Compile ioexec	02141
Completed at 22-Apr-78 13:11	02142
Compile execfl	02143
Completed at 22-Apr-78 13:10	02144
Compile brecords	02145
Completed at 22-Apr-78 13:10	02146
Compile credit2	02147
Completed at 22-Apr-78 13:10	02148
Compile ioexec	02149
Completed at 20-Apr-78 12:37	02150
Compile ioexec	02151
Completed at 19-Apr-78 22:33	02152
Compile fintnls	02153
Completed at 19-Apr-78 21:43	02154
Compile fdata	02155
Completed at 19-Apr-78 21:43	02156
Compile recfil	02157
Completed at 19-Apr-78 21:43	02158
Compile credit1	02159
Completed at 19-Apr-78 21:43	02160
Compile ioexec	02161
Completed at 18-Apr-78 17:47	02162
Compile sdata	02163
Completed at 18-Apr-78 17:46	02164
Compile credit2	02165
Completed at 17-Apr-78 18:55	02166
Compile ioexec	02167
Completed at 17-Apr-78 18:54	02168
Compile bdata	02169
Completed at 17-Apr-78 18:41	02170
Compile bconst	02171
Completed at 17-Apr-78 18:41	02172
Compile filmnp	02173
Completed at 17-Apr-78 18:41	02174
Compile ioexec	02175
17-Apr-78 18:40 1 Errors	02176
Compile credit2	02177
17-Apr-78 18:40 1 Errors	02178
Compile auxcod	02179
Completed at 17-Apr-78 18:39	02180
Compile FRONTEND	02181
Completed at 29-Mar-78 18:14	02182
Compile fintnls	02183
Completed at 21-Feb-78 15:49	02184
Compile ioexec	02185
Completed at 19-Feb-78 17:04	02186
Compile bintnls	02187
Completed at 19-Feb-78 17:03	02188
Compile bconst	02189
Completed at 19-Feb-78 17:03	02190
Compile psedit	02191
Completed at 6-Feb-78 12:07	02192
Compile jndel	02193
Completed at 3-Feb-78 19:13	02194
Compile bconst	02195

Completed at 3-Feb-78 19:12	02196
Compile inpfbk	02197
Completed at 27-Jan-78 12:46	02198
Compile inpfbk	02199
Completed at 1-Jan-78 12:39	02200
Compile psupport	02201
Completed at 21-Dec-77 19:51	02202
Compile fintnls	02203
Completed at 21-Dec-77 19:51	02204
Compile dspgen	02205
Completed at 14-Dec-77 15:55	02206
Compile dspgen	02207
14-Dec-77 15:44 1 Errors	02208
Compile bconst	02209
Completed at 14-Dec-77 14:40	02210
Compile dspgen	02211
14-Dec-77 14:40 1 Errors	02212
Compile psuserop	02213
Completed at 6-Dec-77 13:23	02214
Compile seqfil	02215
Completed at 6-Dec-77 13:21	02216
Compile fintnls	02217
Completed at 12-Nov-77 12:07	02218
Compile fdata	02219
Completed at 12-Nov-77 12:06	02220
Compile inpfbk	02221
Completed at 8-Nov-77 15:05	02222
Compile fintnls	02223
Completed at 8-Nov-77 15:04	02224
Compile dspgen	02225
Completed at 8-Nov-77 15:04	02226
Compile creditl	02227
Completed at 8-Nov-77 15:03	02228
Compile bconst	02229
Completed at 8-Nov-77 15:03	02230
Compile auxcod	02231
Completed at 6-Nov-77 23:14	02232
Compile bconst	02233
Completed at 6-Nov-77 17:51	02234
Compile fintnls	02235
Completed at 6-Nov-77 17:03	02236
Compile fintnls	02237
Completed at 6-Nov-77 16:41	02238
Compile bconst	02239
Completed at 6-Nov-77 16:41	02240
Compile fdata	02241
Completed at 5-Nov-77 02:17	02242
Compile fintnls	02243
Completed at 5-Nov-77 02:17	02244
Compile dspgen	02245
Completed at 5-Nov-77 02:16	02246
Compile creditl	02247
Completed at 2-Nov-77 22:20	02248
Compile cprograms	02249
Completed at 26-Oct-77 19:37	02250
Compile auxcod	02251

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Completed at 26-Oct-77 19:36                                02252
Compile Fdata                                              02253
  Completed at 24-Oct-77 17:37                             02254
Compile brecords                                          02255
  Completed at 22-Oct-77 15:01                             02256
Compile bdata                                             02257
  Completed at 22-Oct-77 15:01                             02258
(LOAD) Process commands branches for loading new systems. 02259
  (make-gnls)                                             02260
    execute programs attach subsystem xxx <CA>            02261
    execute xxx run tasks <CA>                            02262
    execute xxx check <CA>                                02263
    ;; ** DO NOT type ANYTHING while load in progress **<CD> 02264
    execute programs run tenex (system,exec,)<CA>file
    (rel-nls,load-map-gnls.;,)<CA>from (rel-nls,grunldr.txt,)<CA>yes
    <CA><CA>                                                02265
    load file (nls,tasks,)<CA>                             02266
    insert statement (nls,tasks,done)<CA>d<CA>(LastLoad) Last GNLS
    Load: <CA>                                             02267
    insert time (nls,tasks,done.d+e)<CA>                  02268
    update file <CA>                                       02269
    copy file
    (rel-nls,load-map-gnls.;0,)<CA>(arcprinter,load-map-gnls.*;*,)<CA>
    <CA>                                                    02270
    ; *** LOAD COMPLETED ***<CA>                          02271
  (make-rnls)                                             02272
    execute programs attach subsystem xxx <CA>            02273
    execute xxx run tasks <CA>                            02274
    execute xxx check <CA>                                02275
    ;; ** DO NOT type ANYTHING while load in progress **<CD> 02276
    execute programs run tenex (system,exec,)<CA>file
    (nic-nls,load-map-rnls.;,)<CA>from (nic-nls,runldr.txt,)<CA>yes
    <CA><CA>                                                02277
    load file (nls,tasks,)<CA>                             02278
    insert statement (nls,tasks,done)<CA>d<CA>(LastLoad) Last RNLS
    Load: <CA>                                             02279
    insert time (nls,tasks,done.d+e)<CA>                  02280
    update file <CA>                                       02281
    ; *** LOAD COMPLETED ***<CA>                          02282
  (make-xporgen)                                         02283
    ;; ** DO NOT type ANYTHING while load in progress **<CD> 02284
    execute programs run tenex (system,exec,)<CA>file
    (xporgen,load-map-xporgen.;,)<CA>from (xporgen,opload.txt,)<CA>yes
    <CA><CA>                                                02285
    load file (nls,tasks,)<CA>                             02286
    insert statement (nls,tasks,done)<CA>d<CA>(LastLoad) Last XPORGEN
    Load: <CA>                                             02287
    insert time (nls,tasks,done.d+e)<CA>                  02288
    update file <CA>                                       02289
    ; *** LOAD COMPLETED ***<CA>                          02290
  (make-porgen)                                           02291
    ;; ** DO NOT type ANYTHING while load in progress **<CD> 02292
    execute programs run tenex (system,exec,)<CA>file
    (porgen,load-map-porgen.;,)<CA>from (porgen,opload.txt,)<CA>yes
    <CA><CA>                                                02293
    load file (nls,tasks,)<CA>                             02294

```

```

insert statement (nls,tasks,done)<CA>d<CA>(LastLoad) Last PORGEN
Load: <CA> 02295
insert time (nls,tasks,done.d+e)<CA> 02296
update file <CA> 02297
; *** LOAD COMPLETED ***<CA> 02298
(make-nls9-messg) 02299
execute programs attach subsystem xxx <CA> 02300
execute xxx run tasks <CA> 02301
execute xxx check <CA> 02302
;; ** DO NOT type ANYTHING while load in progress **<CD> 02303
execute programs run tenex (system,exec,<CA>file
(relnine,9messg.load-map;,<CA>from
(relnine,loadnls-messg.txt,<CA>yes <CA><CA> 02304
load file (nls,tasks,<CA> 02305
insert statement (nls,tasks,done)<CA>d<CA>(LastLoad) Last NLS9
Messg Load: <CA> 02306
insert time (nls,tasks,done.d+e)<CA> 02307
update file <CA> 02308
copy file
(relnine,9messg.load-map;0,<CA>(arcprinter,9messg.1;*,<CA><CA> 02309
; *** LOAD COMPLETED ***<CA> 02310
(make-nls9) 02311
execute programs attach subsystem xxx <CA> 02312
execute xxx run tasks <CA> 02313
execute xxx check <CA> 02314
;; ** DO NOT type ANYTHING while load in progress **<CD> 02315
execute programs run tenex (system,exec,<CA>file
(relnine,9magic.load-map;,<CA>from (relnine,loadnls.txt,<CA>yes
<CA><CA> 02316
load file (nls,tasks,<CA> 02317
insert statement (nls,tasks,done)<CA>d<CA>(LastLoad) Last NLS9
Magic Load: <CA> 02318
insert time (nls,tasks,done.d+e)<CA> 02319
update file <CA> 02320
copy file
(relnine,9magic.load-map;0,<CA>(arcprinter,9magic.1;*,<CA><CA> 02321
; *** LOAD COMPLETED ***<CA> 02322
(printlist) 02323
Print <nls>ADRMNP 02324
Print <nls>AUXCOD 02325
Print <nls>BCGNST 02326
Print <nls>BDATA 02327
Print <nls>BINTNLS 02328
Print <nls>BRECORDS 02329
Print <nls>CALCSUPPORT 02330
Print <nls>CATNUM 02331
Print <nls>CEDIT1 02332
Print <nls>CEDIT2 02333
Print <nls>CHELP 02334
Print <nls>CMLCOMP 02335
Print <nls>COLSRT 02336
Print <nls>CORESUPPORT 02337
Print <nls>CPROGRAMS 02338
Print <nls>CSENDMAIL 02339

```


Print <nls>CSYNGEN	02340
Print <nls>CSVNTAX	02341
Print <nls>DSPGEN	02342
Print <nls>EXECFL	02343
Print <nls>FCONST	02344
Print <nls>FDATA	02345
Print <nls>FILMNP	02346
Print <nls>FINTNLS	02347
Print <nls>FONLY	02348
Print <nls>FRECORDS	02349
Print <nls>FRONTEND	02350
Print <nls>IDENTSUPPORT	02351
Print <nls>INPFBK	02352
Print <nls>IOEXEC	02353
Print <nls>JNLDEL	02354
Print <nls>L10DATA	02355
Print <nls>L10RUNTIME	02356
Print <nls>NDDT	02357
Print <nls>NDDT2	02358
Print <nls>NDDTDATA	02359
Print <nls>NLSSRT	02360
Print <nls>PARSER	02361
Print <nls>PDATA	02362
Print <nls>PRMSPC	02363
Print <nls>PSEEDIT	02364
Print <nls>PSHELP	02365
Print <nls>PSPROGS	02366
Print <nls>PSENDMAIL	02367
Print <nls>PSSYNGEN	02368
Print <nls>PSSYSTEM	02369
Print <nls>PSUPPORT	02370
Print <nls>PSUSEROP	02371
Print <nls>RECFIL	02372
Print <nls>GRUNLDR	02373
Print <nls>SDATA	02374
Print <nls>SELECT	02375
Print <nls>SEQFIL	02376
Print <nls>SEQGEN	02377
Print <nls>SINTNLS	02378
Print <nls>SRECORDS	02379
Print <nls>STGMGT	02380
Print <nls>SYNTAX	02381
Print <nls>SYNTBL	02382
Print <nls>TSPRT	02383
Print <nls>UNDATA	02384
Print <nls>UPDATA	02385
Print <nls>UPOVER	02386
Print <nls>UPOUPDATE	02387
Print <nls>UTILITY	02388
Print <nls>VERIFY	02389
(nic-nls-printlist)	02390
Print <nic-nls>ADRMNP	02391
Print <nic-nls>AUXCOD	02392
Print <nic-nls>BCONST	02393
Print <nic-nls>BDATA	02394
Print <nic-nls>BINTNLS	02395

Print <nic-nls>BRECORDS	02396
Print <nic-nls>CALCSUPPORT	02397
Print <nic-nls>CALCULATOR	02398
Print <nic-nls>CATNUM	02399
Print <nic-nls>CEDIT	02400
Print <nic-nls>CHELP	02401
Print <nic-nls>CIDENT	02402
Print <nic-nls>CMLCOMP	02403
Print <nic-nls>COLSRT	02404
Print <nic-nls>CORESUPPORT	02405
Print <nic-nls>CPROGRAMS	02406
Print <nic-nls>CSENDMAIL	02407
Print <nic-nls>CSYNGEN	02408
Print <nic-nls>CSVNTAX	02409
Print <nic-nls>DSPGEN	02410
Print <nic-nls>DXCTL	02411
Print <nic-nls>EXECFL	02412
Print <nic-nls>FCONST	02413
Print <nic-nls>FDATA	02414
Print <nic-nls>FILMNP	02415
Print <nic-nls>FINTNLS	02416
Print <nic-nls>FONLY	02417
Print <nic-nls>FRECORDS	02418
Print <nic-nls>FRONTEND	02419
Print <nic-nls>IDENTSUPPORT	02420
Print <nic-nls>INPFBK	02421
Print <nic-nls>IOEXEC	02422
Print <nic-nls>JNLDEL	02423
Print <nic-nls>L10DATA	02424
Print <nic-nls>L10RUNTIME	02425
Print <nic-nls>NDDT	02426
Print <nic-nls>NDDT2	02427
Print <nic-nls>NDDTDATA	02428
Print <nic-nls>NLSSRT	02429
Print <nic-nls>PARSER	02430
Print <nic-nls>PDATA	02431
Print <nic-nls>PRMSPC	02432
Print <nic-nls>PSCALC	02433
Print <nic-nls>PSEDIT	02434
Print <nic-nls>PSHELP	02435
Print <nic-nls>PSIDENT	02436
Print <nic-nls>PSPROGS	02437
Print <nic-nls>PSREADMAIL	02438
Print <nic-nls>PSENDMAIL	02439
Print <nic-nls>PSSYNGEN	02440
Print <nic-nls>PSSYSTEM	02441
Print <nic-nls>PSUPPORT	02442
Print <nic-nls>PSUSEROP	02443
Print <nic-nls>RECFIL	02444
Print <nic-nls>RUNLDR	02445
Print <nic-nls>SDATA	02446
Print <nic-nls>SELECT	02447
Print <nic-nls>SEQFIL	02448
Print <nic-nls>SEQGEN	02449
Print <nic-nls>SINTNLS	02450
Print <nic-nls>SRECORDS	02451

Print <nic-nls>STGMGT	02452
Print <nic-nls>SYNTAX	02453
Print <nic-nls>SYNTBL	02454
Print <nic-nls>TSPRT	02455
Print <nic-nls>UNDATA	02456
Print <nic-nls>UPDATA	02457
Print <nic-nls>UPOVER	02458
Print <nic-nls>UPUPDATE	02459
Print <nic-nls>UTILTY	02460
Print <nic-nls>VERIFY	02461
(hopper-todo)	02462
FINISHED <nls>FONLY	02463
FINISHED <nls>FRECORDS	02464
FINISHED <nls>NDDTDATA	02465
FINISHED <nls>NLSSRT	02466
FINISHED <nls>PARSER	02467
FINISHED <nls>PDATA	02468
FINISHED <nls>PRMSPC	02469
FINISHED <nls>PSEDIT	02470
FINISHED <nls>PSHELP	02471
FINISHED <nls>PSPROGS	02472
FINISHED <nls>PSENDMAIL	02473
FINISHED <nls>PSSYNGEN	02474
FINISHED <nls>PSSYSTEM	02475
FINISHED <nls>PSUPPORT	02476
FINISHED <nls>PSUSEROP	02477
FINISHED <nls>RECFIL	02478
FINISHED <nls>GRUNLDR	02479
FINISHED <nls>SDATA	02480
FINISHED <nls>SELECT	02481
FINISHED <nls>SEQFIL	02482
FINISHED <nls>SEQGEN	02483
FINISHED <nls>SINTNLS	02484
FINISHED <nls>SRECORDS	02485
FINISHED <nls>STGMGT	02486
FINISHED <nls>SYNTAX	02487
FINISHED <nls>SYNTBL	02488
FINISHED <nls>TSPRT	02489
FINISHED <nls>UNDATA	02490
FINISHED <nls>UPDATA	02491
FINISHED <nls>UPOVER	02492
FINISHED <nls>UPUPDATE	02493
FINISHED <nls>UTILTY	02494
FINISHED <nls>VERIFY	02495

TSPRT


```

UNTIL (top := top - da.davinc) <= 0 DO da.dacrow _ da.dacrow +
da.davinc;                                01446
END;                                        01447
pageno _ 0;                                01448
&sw _ IF &oldsw THEN &oldsw                01449
ELSE <SEQGEN, openseq> (stid1, IF da.davspec.vsbrof THEN stid1
ELSE stid2 % plex only should be handled by the calling routine
since stid1 and stid2 supposedly form a legitimate group! %,
da.davspec, da.davspc2, da.dausqcod, da.dacacode); 01450
UN SIGNAL ELSE                              01451
IF NOT &oldsw THEN <SEQGEN, closeseq>(&sw); 01452
z1[0] _ IF stid1.stastr THEN da.dacsp ELSE stid1; 01453
UNTIL ((stid _ seggen (&sw)) = endfil) OR
(type = stmtv AND sw.swcstid # stid1) DO    01454
BEGIN                                        01455
% get viewspecs from sequence work area. % 01456
vspc1 _ da.davspec _ sw.swvspec;           01457
vspc2 _ da.davspc2 _ sw.swvsp2;           01458
%set up work area s2work for READC%        01459
s2work _ stid;                             01460
s2work[1] _                                01461
IF vspc1.vsnamf OR stid.stastr THEN 1 %print name% 01462
ELSE fchtxt (stid); %skip past name%      01463
fechc1 (forward, $s2work);                 01464
%markers (not allowed for now)%           01465
prmkrf _ 0;                                01466
IF FALSE AND vspc1.vsmkrf AND NOT stid.stastr THEN 01467
BEGIN %see if marker in statemnt%         01468
&mkpctr _ &mkrtb - $filhed +              01469
(head _ <FILMNP, filhdr>(stid.stfile)); 01470
mkrend _ &mkpctr +                         01471
[&mkrtbl - $filhed + head] * mkrl;        01472
mkrlflg _ FALSE;                          01473
FOR mkpctr UP mkrl UNTIL = mkrend DO      01474
IF mkpctr.mkpsid = stid.stpsid THEN      01475
BEGIN                                      01476
mkrlflg _ TRUE;                          01477
mkrcnt _ mkpctr.mkccnt + 1;              01478
EXIT;                                     01479
END;                                       01480
END;                                       01481
prindt _ %indentation%                     01482
CASE TRUE OF                               01483
= vspc1.vsindf, =vspc1.vsrind:            01484
MAX (tpoffset, MIN (da.daind * (sw.swclvl- 01485
(IF vspc1.vsrind AND (vspc1.vsbrof OR vspc1.vsplxf)
THEN sw.swslvl ELSE 1) %this has value=1 except
when relative indenting actually takes effect%
)+ tpoffset, da.damind, spacestr.M));    01486
ENDCASE tpoffset;                          01488
% TPOFFSET is a global which the user can set via Execute
Viewchange. This allows the user to control the left margin
of his print out. %                       01489
*prbuf* _ *spacestr* [empty + 1 TO prindt]; 01490
maxcol _ da.damcol; %max no. cols%       01491

```

```

stnrt _ FALSE;                                01492
IF vspcl.vsstnf AND stid.stpsid # origin AND
NOT stid.stastr THEN                          01493
  IF NOT vspcl.vsstnr THEN                    01494
    BEGIN %print statement number%          01495
    IF vspcl.vssidf                          01496
      THEN % display sid's %                01497
        *prbuf* _ *prbuf*, '0, STRING( getsid(stid) ) 01498
      ELSE % display line numbers %         01499
        fechnm (sw.swsvw, $prbuf);         01500
    *prbuf* _ *prbuf*, SP;                  01501
    END                                       01502
  ELSE % statement numbers go on the right % 01503
    BEGIN                                     01504
    *stnsig* _ NULL;                          01505
    IF vspcl.vssidf                          01506
      THEN % display sid's %                01507
        *stnsig* _ '0, STRING( getsid(stid) ) 01508
      ELSE % display line numbers %         01509
        fechnm (sw.swsvw, $stnsig);       01510
    stnlength _ stnsig.L;                   01511
    stnrt _ TRUE;                            01512
    END;                                       01513
    gapcol _ da.daccol _ prbuf.L * da.dahinc; 01514
%line printing loop%                          01515
FOR lincnt _ 0 UP UNTIL = vspcl.vstrnc DO     01516
  BEGIN                                       01517
  exitloop _ 0;                              01518
  gaplength _ 2;                             01519
  wrapptr _ 0;                               01520
  udpnwrap _ 1;                              01521
  IF inptrf THEN EXIT 2;                    01522
  gapptr _ startp _ prbuf.L;                01523
  UNTIL (da.daccol >= maxcol + 1 OR exitloop) DO 01524
    BEGIN                                     01525
    IF da.daccol = udpwrapcol*udpnwrap THEN 01526
      wrapptr _ prbuf.L;                    01527
    CASE char _ READC ($s2work) OF          01528
      =SP:                                    01529
        BEGIN                                  01530
          gapptr _ prbuf.L;                  01531
          gapcol _ da.daccol;               01532
          da.daccol _
          da.daccol+putchr(&da,char,da.daccol,$prbuf); 01533
        END;                                  01534
      =ENDCHR, =EOL, =CR:                   01535
        BEGIN                                  01536
          gapptr _ prbuf.L;                  01537
          gapcol _ da.daccol;               01538
          exitloop _ 1; %to force out of loop on next round% 01539
        END;                                  01540
      =TAB:                                   01541
        BEGIN                                  01542
          gapptr _ prbuf.L;                  01543
          gapcol _ da.daccol;               01544

```

```

da.daccol _
da.daccol+putchr(&da,char,da.daccol,$prbuf); 01545
IF (NOT wrapptr AND udpwrapcol AND da.daccol >
udpwrapcol*udpnwrap) THEN 01546
  BEGIN 01547
    *prbuf* _ *prbuf*[1 TO prbuf.L-1], *spacestr*[1
    TO da.daccol - udpwrapcol*udpnwrap]; 01548
    wrapptr _ gapptr; 01549
  END; 01550
END; 01551
=CA, =C., =LF, =CD, =BC, =BW, =$ascalt, IN [1B,32B],
IN [34B,36B]: %an acceptable non-printing character% 01552
BEGIN 01553
cntrlstr _ <DSPGEN, npstrad>(char);%get np
representation (address)% 01554
%see if non-printing character string will exceed
current line% 01555
IF [cntrlstr].L + da.daccol >= maxcol THEN 01556
  BEGIN 01557
    s2work[1] _ s2work[1] - 1; 01558
    fechc1 (forward, $s2work); %repeat last char
    next time through% 01559
    REPEAT CASE (char _ EOL); 01560
  END 01561
ELSE %fits on current line% 01562
  FOR i _ 1 UP UNTIL > [cntrlstr].L DO 01563
    BEGIN 01564
      char _ *[cntrlstr]*[i]; 01565
      da.daccol _
      da.daccol+putchr(&da,char,da.daccol,$prbuf); 01566
      IF da.daccol >= udpwrapcol*udpnwrap THEN 01567
        wrapptr _ prbuf.L -
        (da.daccol-udpwrapcol*udpnwrap); 01568
      END; 01569
    END; 01570
  ENDCASE 01571
  BEGIN 01572
    da.daccol _
    da.daccol+putchr(&da,char,da.daccol,$prbuf); 01573
  END; 01574
IF wrapptr AND gapptr > wrapptr THEN 01575
  BEGIN %write out wrapped subline% 01576
    IF NOT prtype(&da, wrapptr) THEN EXIT 3; 01577
    *prbuf*[prindt+1 TO prbuf.L] _ *prbuf*[wrapptr+1 TO
    prbuf.L]; 01578
    gapptr _ gapptr - wrapptr; 01579
    wrapptr _ 0; 01580
    udpnwrap _ udpnwrap + 1; 01581
  END; 01582
END; 01583
%by here, a line has been constructed. fix gapptr and gapcol
if there were no invisibles or if the last invisible was the
last character% 01584

```



```

IF startp = gapptr AND NOT exitloop THEN %no invisibles
in line% 01585
BEGIN 01586
%an extra character was collected in case it was a
gap; it wasn't, so don't print it on this line% 01587
gapcol _ da.daccol - 1; 01588
IF wrapptr THEN 01589
DO %write out wrapped subline(s)% 01590
BEGIN 01591
IF NOT prtype(&da, udpwrapcol) THEN EXIT 3; 01592
*prbuf*[prindt TO prbuf.L] _ *prbuf*[udpwrapcol
+ 1 TO prbuf.L]; 01593
END 01594
UNTIL prbuf.L - 1 < udpwrapcol; 01595
wrapptr _ 0; 01596
gapptr _ prbuf.L - 1; 01597
gaplength _ 1; %for skipping no gap chars% 01598
END; 01599
IF gapptr = prbuf.L - 1 THEN %last char a gap (SP or
TAB)% 01600
LOOP %extra spaces or tabs at end of line placed on
this line% 01601
CASE char _ READC($s2work) OF 01602
=SP, =TAB: NULL; %throw them away% 01603
=ENDCHR, =EOL, =CR: EXIT LOOP; 01604
ENDCASE 01605
BEGIN 01606
%just store it for the next line of this
statement% 01607
da.daccol _ da.daccol +
putchr(&da, char, da.daccol, $prbuf); 01608
EXIT LOOP; 01609
END; 01610
IF (char = ENDCHR OR lincnt = vspl.vstrnc) AND start AND
da.daccol + stnsig.L + 2 <= maxcol THEN extraline _ FALSE 01611
% can cram statement number on right of this line (which
is the last line of the statement), so don't print it out
yet% 01612
ELSE 01613
BEGIN 01614
extraline _ TRUE; 01615
IF NOT prtype (&da, gapptr) THEN EXIT 2; %type the line% 01616
IF NOT (char = ENDCHR OR lincnt +1 = vspl.vstrnc) THEN 01617
*prbuf* [prindt + 1 TO prbuf.L] _ *prbuf* [gapptr +
gaplength TO prbuf.L] 01618
ELSE 01619
*prbuf* _ *spacestr*[empty + 1 TO prindt]; 01620
gapcol _ da.daccol _ prbuf.L*da.dahinc; 01621
END; 01622
z1[0] _ stid; 01623
IF char = ENDCHR THEN EXIT; 01624
END; 01625

```

```

% The statement is completed.%                                01626
%statement numbers on right%                                  01627
  IF stnrt THEN                                              01628
    BEGIN                                                    01629
      (stnort):                                             01630
      IF extraline THEN                                      01631
        BEGIN                                                01632
          %putting number on separate line%                 01632
          *prbuf* _ *spacestr*[1 TO maxcol - stnsig.L-2];  01633
        END                                                  01634
      ELSE                                                    01635
        BEGIN                                                01636
          *prbuf* _ *prbuf*, *spacestr*[1 TO maxcol - da.daccol
          - stnsig.L -2];                                    01637
        END;                                                 01638
        *prbuf* _ *prbuf*, SP,SP, *stnsig*;                 01639
        IF NOT (extraline AND vspcl.vsidtf AND NOT stid.stastr)
        THEN prtype(&da, prbuf.L);                          01640
        END                                                  01641
      ELSE extraline _ FALSE;                                01642
%blank line and signature%                                  01643
  IF vspcl.vsidtf AND NOT stid.stastr THEN                  01644
    BEGIN                                                    01645
      *stnsig* _ NULL;                                       01646
      fechsig (stid, $stnsig);                               01647
      IF extraline AND stnlength + stnsig.L +3 > maxcol -
      prindt THEN                                           01648
        BEGIN                                                01649
          prtype(&da, prbuf.L);                               01650
          extraline _ FALSE;                                  01651
        END;                                                 01652
        IF extraline THEN *prbuf*[maxcol - stnlength - stnsig.L
        -2 TO maxcol - stnlength -3] _ *stnsig*             01653
      ELSE *prbuf* _                                         01654
        *spacestr*[1 TO maxcol - stnsig.L], *stnsig*;       01655
        prtype (&da, prbuf.L);                              01656
        END                                                  01657
      ELSE IF vspcl.vsblkf AND NOT extraline THEN prtype(&da, 0);
                                                              01658
    END;                                                      01659
  IF NOT &oldsw THEN <SEQGEN, closeseq> (&sw);             01660
%wait for output buffer empty%                              01661
  !dobe(777777B);                                           01662
RETURN(z1, 1);                                             01663
END.                                                         01664

(prtype) PROCEDURE (da, number);                             0174
%type "number" characters from prbuf%                       0175
%-----%                                                  0176
LOCAL length; %length of astring in prbuff%                0177
REF da;                                                      0178
IF inptrf %^O% THEN RETURN (FALSE);                         0179
IF da.davspec.vspagf AND da.dacrow >= da.damrow THEN newpag(&da)
                                                              0180
ELSE crlf();                                                0181

```


GAS2, 14-Feb-79 22:51

< NLS, TSPRT.NLS.12, > 9

FINISH

0281

UN DATA

```

< NLS, UNDATA.NLS;2, >, 22-JAN-76 19:04 JDH ;;;;
FILE undata % L10 <REL-NLS>UNDATA %% (L10,) (rel-nls,UNDATA.rel,)
%
REGISTER %here so DDT will use these on printout%
    r1=1, r2=2, r3=3, r4=4, r5=5, p=7, wa=8, s=9, m=10, rp=11,
    a1=12, a2=13, a3=14, a4=15;
%stack sizes%
SET EXTERNAL
    %for size of frame save areas for <inpfbk@ dfs>, etc.%
    sysfs= 20;
% DECLARE 's %
DECLARE EXTERNAL
    ec, %character portion of entity register%
    state[4], %previous state%
    stateframe[sysfs], %save area for frame of routine which set
    STATE%
    comrot[3], %command root%
    rootframe[sysfs], %save area for frame of routine which set ROOT%
    abtgt[4], %target for aborts (usually previous state)%
    abtframe[sysfs]; %save area for frame of routine which set ABORT
    target%
DECLARE EXTERNAL STRING
    es[40], %string portion of entity register%
    num[40],
    stn[40],
    stn2[40],
    stno[40],
    lit[2000],
    errwrk[100], % work string for errors. %
    cfnst1[40], %compfn work string%
    cfnst2[40], %compfn work string%
    cfnst3[40], %compfn work string%
    cfnst4[40]; %compfn work string%
DECLARE EXTERNAL
%...measurement variables...%
    nlcrnt=0, %realtime at beginning of last command%
    nlcret=0, %cpu time at beginning of last command%
    nlcrst=0, %time (real) last NLSCR JSYS issued%
    nlstyp=-1, %type of NLS system being run%
%...current group number...%
    curgrp= -1,
%...other work areas...%
    typnwa[20], %for typeno routine%
%...global display/print parameters...%
%...display global support...%
    %rename these%
    cdfill,
    curnch, %old cdfil9%
    cred6,
    cred7,
%...general global variables...%
    %stadlfg=1,% %if TRUE, save link information in LINKFG%
    rplb, %replace by bugged entity flag%
    crdlay= (1, 1, 0, 2, 3, 6, 0),

```

%delay times (# of chars) CR/LF%	056
ifdelay= (0, 0, 0, 0, 0, 6, 0), %delay times (# of chars) LF%	057
srchnstid; %stid to begin search%	058
FINISH of undata	059

VP DATA

```

< NLS, UPDATA.NLS;3, >, 22-JAN-76 19:16 JDH ;;;;< NLS, UPDATA.NLS;2, >,
25-JUN-74 12:27 KEV ;
FILE updata % 110 <rel-nls>updata.rel %% (L10,) (rel-nls,updata.rel,) %
                                                                 02
                                                                 056
% this file contains the declarations for the user-profile page. 03
  default values for these declarations are contained in CONST. 057
  this file should be loaded at 552000                          058
  add new declarations in front of last branch only             071
  current NLS implementation does not allow for this to be more than
  one page long %                                              059
                                                                 047
% variables describing state of this page %                      060
  DECLARE EXTERNAL                                             05
    userdata=0, % TRUE if data page initialized %              06
    uoversion; % version# for possible format changes %        07
% CONTROL CHARACTERS (non-standard ctrlchar definitions) %     08
  DECLARE EXTERNAL                                             061
    cctbl[200B]; % for format see (nls,records,ccdefine) %     09
% CURRENT CONTEXT %                                           010
  DECLARE EXTERNAL                                             062
    tsishchars; % no. of characters to either side of CM for /% 011
% COMMAND FEEDBACK %                                           012
  DECLARE EXTERNAL                                             063
    fbackmode, % feedback mode %                               013
    fback2mode, % null %                                       014
    fedind, % typewriter feedback indentation%                 015
    feedbk; % number of character of feedback to echo%         016
% COMMAND HEARALD %                                           017
  DECLARE EXTERNAL                                             064
    hrlmode, % command hearalading mode %                       018
    hrlsize; % # chars in multchar hearald %                   019
% JUMP RING %                                                 020
  DECLARE EXTERNAL                                             065
    frrsize, %no. entries in file return ring%                 021
    srrsize; %no. entries in statement return ring%            022
% PRINT OPTIONS DATA %                                       023
  DECLARE EXTERNAL                                             066
    pgsz, % number of lines per page%                           024
    linmax, % max no. of lines to print per page%              025
    colmax, % max no. of columns to print%                      026
    indcnt, % indenting per level%                               027
    tpooffset, % left margin adjustment for printg, number of
    columns to offset left margin%                               028
    stdtab[4]; % standard tab settings %                         029
% PROMPT %                                                    030
  DECLARE EXTERNAL                                             067
    indprompt; % prompt mode: OFF,FULL or PARTIAL %            031
% VIEWSPECS %                                                032
  DECLARE EXTERNAL                                             068
    stdvsp[2]; % standard viewspecs %                           033
% COMMAND RECOGNITION %                                       035
  DECLARE EXTERNAL                                             069
    recogmode, % recognition mode %                             036
    recog2mode; % secondary recognition mode %                  037

```

```

% LEVEL ADJUST AND VIEWSPEC FLAGS %                                038
  DECLARE EXTERNAL                                                048
    nolevadj, % if TRUE don't ask for level adjust%              039
    novspec; %if TRUE don't ask for viewspecs %                  040
% address of branch for initial process commands %                041
  DECLARE EXTERNAL STRING                                         049
    stupstr[200]; % allow 41 (decimal) words for string %       042
% external names link file string %                                044
  DECLARE EXTERNAL STRING                                         050
    enifstr[200]; % allow 41 (decimal) words for string %       045
% automatically loaded subsystems and user programs%             072
  DECLARE EXTERNAL STRING                                         073
    usys1[30],                                                    074
    usys2[30],                                                    075
    usys3[30],                                                    076
    usys4[30],                                                    077
    usys5[30],                                                    078
    usys6[30],                                                    079
    usys7[30],                                                    080
    usys8[30],                                                    081
    usys9[30],                                                    082
    usys10[30],                                                   083
    usys11[30],                                                   084
    usys12[30],                                                  085
    usys13[30],                                                  086
    usys14[30],                                                  087
    usys15[30];                                                  088
% default name delimiters%                                        0104
  DECLARE EXTERNAL                                                0105
    dfnmdl, %default left name delimiter%                         0106
    dfnmdr; %default right name delimiter%                        0107
% quickprint %                                                  0108
  DECLARE EXTERNAL                                                0109
    uqppgsize, % number of lines per page %                       0110
    uqplinmax, % max no. of lines to print per page %           0111
    uqpcolmax, % max no. of columns to print%                    0112
    uqpindcnt, % indenting per level%                             0113
    uqptpoffset, % left margin adjustment--probably will never be
    used, but put it in to match printoptions%                  0114
    uqpstdtab[4]; % standard tab settings%                        0115
% display%                                                       0116
  DECLARE EXTERNAL                                                0117
    udpSPACE[2], %save some space for more display parameters%  0118
    udpcolmax, %max no. of print columns for any display area %  0119
    udpwrapcol, %column no. for display or print wraparound%    0129
    udpSPl[5]; %save space%                                       0120
% tab spacing. See printoptions for tab stops%                   0121
  DECLARE EXTERNAL                                                0122
    spitab, % if true, input spaces instead of tab chr %       0126
    rtjtab; % if true, right justify tabbed material %          0127
  DECLARE EXTERNAL STRING rjtchr[5]; % characters to terminate right
  justification mode %                                           0128
                                                                    070
% ADD NEW DECLARATIONS IN FRONT OF THIS %                         051
  DECLARE EXTERNAL                                                052
    enduop; % for determining page overflow condition %          053

```

GAS2, 14-Feb-79 22:52

< NLS, UPDATA.NLS.3, > 3

FINISH

04

UP UPDATE

```

< NLS, UUPDATE.NLS;1, >, 4-SEP-74 10:57 KEV ;;;
FILE upupdate % (L10,) (rel-nls,upupdate.rel,) %
% DECLARATIONS %
REGISTER r1 = 1, r2 = 2, r3 = 3;
DECLARE wheel = 4B5;
(masprofile) PROCEDURE( astr ); RETURN( FALSE ); END.
(upupdate) PROCEDURE; %update the world's user-profiles %
LOCAL ujfn, status;
LOCAL STRING locstr[200], filename[200];
% check for enabled wheel status %
!rpcap( 400000B );
IF r2 .A wheel THEN
    IF r3 .A wheel THEN NULL
    ELSE !epcap( 400000B, r2, -1)
ELSE err( $"YOU MUST BE A WHEEL TO RUN THIS PROGRAM");
% get a jfn for user profiles %
r1 _ 1B11 + 1B8 + 1B6;
r2 _ $"<*>[USER-PROFILE].*;1" + 1;
r2.LH _ -1;
IF NOT SKIP !gtjfn( r1, r2) THEN
    err( $"CAN'T GTJFN FOR USER PROFILES")
ELSE ujfn _ r1;
% take care of errors from here on out %
ON SIGNAL ELSE
BEGIN
ON SIGNAL ELSE;
% get rid of the page currently mapped in %
uoclose();
% get rid of the jfn %
IF ujfn THEN
BEGIN
IF NOT SKIP !closf( ujfn.RH ) THEN NULL;
IF NOT SKIP !rljfn( ujfn.RH ) THEN NULL;
ujfn _ 0;
END;
% now get back our own user-profile %
uoget();
END;
% get rid of the page currently mapped in for our own user-profile %
uoclose();
% loop to get all users %
WHILE ujfn DO
BEGIN
status _ 0;
% open this user-profile: 36-bits, read, write, thawed %
IF SKIP !openf( ujfn.RH, 44B10 + 3B5 + 2B3) THEN
BEGIN
% map in this user profile %
r1.LH _ ujfn.RH; r1.RH _ 0;
r2.LH _ 400000B; r2.RH _ $userdata/1000B;
r3 _ 3B11;
!pmap();
% massage this user profile %
*locstr* _ NULL;
IF NOT masprofile( $locstr ) THEN status _ 2;

```

```

% unmap in this user profile %                                067
  r1 _ -1;                                                    068
  r2.LH _ 400000B; r2.RH _ $userdata/1000B;                 069
  !pmap();                                                    070
% close this user profile %                                    071
  IF NOT SKIP !closf( ujfn.RH + 4B11 ) THEN NULL;           072
END                                                            059
ELSE status _ 1;                                             061
% go on to next user-profile, give any appropriate messages % 062
CASE status OF                                              063
= 0: % no problems, go on to next one %                      064
  IF NOT SKIP !gnjfn( ujfn ) THEN ujfn _ 0;                 073
= 1: % couldn't open %                                       074
  BEGIN                                                       075
  jfntostr( ujfn.RH, $filename, 011111B6+1);                076
  *locstr* _ EOL, *filename*, " CAN'T BE OPENED*****";    078
  typeas( $locstr );                                         079
  REPEAT CASE( 0 );                                         080
  END;                                                        081
= 2: % message failed %                                       082
  BEGIN                                                       083
  jfntostr( ujfn.RH, $filename, 011111B6+1);                084
  *locstr* _ EOL, *filename*, " -- ", *locstr*;             085
  typeas( $locstr );                                         086
  REPEAT CASE( 0 );                                         087
  END;                                                        088
  ENDCASE;                                                  089
END;                                                         066
% we are done so cleanup and return %                          091
% get rid of the page currently mapped in %                   092
  uoclose();                                                 093
% get rid of the jfn %                                        094
  IF ujfn THEN                                              0100
  BEGIN                                                     0101
  IF NOT SKIP !closf( ujfn.RH ) THEN NULL;                  095
  IF NOT SKIP !rljfn( ujfn.RH ) THEN NULL;                  096
  ujfn _ 0;                                                 097
  END;                                                       0102
% now get back our own user-profile %                          098
  uoget();                                                  099
RETURN;                                                     0103
END.
FINISH

```

0104
03

UPOWER

GAS2, 14-Feb-79 22:52

< NLS, UPOVER.NLS.1, > 1

< NLS, UPOVER.NLS;2, >, 25-JUN-74 12:28 KEV ;

FILE upover % 110 <rel-nls>upover.rel %% (110,) (rel-nls,upover.rel,) %

02

08

% this file is used to make sure we dont overflow in loading inot the
user-profile page %

03

04

DECLARE EXTERNAL uopstart;

05

06

FINISH

07

UTILITY

```

< NLS, UTILITY.NLS;12, >, 21-DEC-76 11:32 JDH ;;;( NLS, UTILITY.NLS;21,
), 23-MAY-74 12:51 HGL ;
FILE utility % L10 <rel-NLS>utility %% (L10,) (rel-nls,utility.rel,) %
02
% *** RECORD DEFINITIONS MOVED TO (CONST,) *** % 02638
% Declarations% 0346
REGISTER 0347
    r1=1, r2=2, r3=3, r4=4, r5=5, p=7, wa=8, s=9, m=10, rp=11, 0348
    a1=12, a2=13, a3=14, a4=15; 0349
DECLARE EXTERNAL FIELD %fields used to save sdb initials% 0360
    cint4 =[(rp), 5:0], 0361
    cint3 =[(rp), 5:5], 0362
    cint2 =[(rp), 5:10], 0363
    cint1 =[(rp), 5:15], 0364
    oldint = [(rp), 21:15]; 0365
EXTERNAL 03039
    ilspsi, %entry to illegal instruction trap routine% 03040
    ilsdefault; %default routine to handle illegal instructions%
03041
% sdb destruction% 02384
% handle control-c properly for remote displays% 02799
    (ctrlic) PROCEDURE; 02800
        % save the accumulators % 02801
        svac1 _ r1; r1 _ $svacs; !BLT r1, svacse; 02802
        s _ s + 40000040B; 02803
        doctrlic(); 02804
        !HRLZI r1, svacs; 02805
        !BLT r1, 17B; 02806
        r1 _ svac1; 02807
        !JSYS debrk; 02808
        END. 02809
    (doctrlic) PROCEDURE; 03364
        LOCAL STRING send [5]; 03365
        IF nldevice = imlac0 OR nldevice = imlac1 THEN 03366
            BEGIN 03367
                %do "tsndn" jsys - turn on tty simulation% 03368
                *send* _ begmsg, 1+remfudge, remtsn; 03369
                !sout(dspjfn, chbmtty+$send, -send.L); 03370
                END; 03371
            IF (tenex >= 13200) AND (nldevice = devlproc) THEN 03372
                BEGIN 03373
                    *send* _ lpesc, lpnocoor; 03374
                    !sout(dspjfn, chbmtty+$send, -send.L); 03375
                    END; 03376
                !haltf(); %stop, can continue from here% 03377
                % if it gets back here then he typed continue
                turn off tty simulation and continue like nothing happened% 03379
            IF nldevice = imlac0 OR nldevice = imlac1 THEN 03380
                BEGIN 03381
                    %do "tsndf" jsys - turn off tty simulation% 03382
                    *send* _ begmsg, 1+remfudge, remtsf; 03383
                    !sout(dspjfn, chbmtty+$send, -send.L); 03384
                    END; 03385
                IF (tenex >= 13200) AND (nldevice = devlproc) THEN 03386
                    BEGIN 03656
                        IF NOT freemap AND condevline(TRUE) AND [levtab].RH = $gtchwait

```



```

        !JSYS dic;                                01660
        r1 _ 3;                                    01661
        !JSYS dti;                                01662
        END;                                       01663
% Disable ^C intercept capability by enabling capabilities
previously in effect. %                          02866
        !epcap(4B5, r2, capsav);                  02867
        END;                                       01628
        RETURN;                                    01610
        END.                                       01611
% trap illegal instructions %                     01612
        (psi) PROCEDURE; % deal with illegal instruction pseudo-interrupt % 02193
% use alternate routine if dispatch address modified % 02194
        (ilspsi):                                  02253
        !SKIPE ilsdsp;                              02252
        !JRST @ilsdsp;                              02196
% default routine to print out appropriate information % 02197
        (ilsdefault):                              02254
        % save all 16 registers %                   02259
        !MOVEM 0,psireg;                            02258
        !HRRI 0,psireg;                             02198
        !AOS 0;                                     02199
        !HRLI 0,1;                                  02200
        !BLT 0,psirglast;                           02201
        % set up call stack registers for private stack % 02202
        s.LH _ -$psisksz; s.RH _ $psistk;           02260
        m _ s;                                       02203
% clear screen if devie is a line-processor display% 02204
        IF nldevice = devlproc THEN lprset();      02861
        % type bad instruction, first symbolically, then in octal % 02862
        crlf();                                     02261
        typeas ( $"ILLEGAL INSTRUCTION");          03666
        BUMP DOWN [levtab]; % get the right instruction % 02205
        typval( [[levtab]], 0 ); % symbolically % 02206
        typeas( $" = " );                          02207
        typval( [[levtab]], 1 ); % in octal %      02208
% type address, first symbolically, then in octal % 02209
        crlf();                                     02195
        typeas( $" at" );                          03665
        typval( [levtab] .A 18M, 0 );              02210
        typeas( $" = " );                          02211
        typval( [levtab] .A 18M, 1 );              02212
        crlf();                                     02213
% type TENEX error message %                       02214
        !erstr( 101B, 400000777777B, 0 );         02262
        !JFCL;                                      02215
        !JFCL;                                      02216
% type some important registers %                  02217
        r1 _ psireg[$r1];                          02263
        pr( $" R1/", r1 );                          02218
        r1 _ psireg[$r2];                          02219
        pr( $" R2/", r1 );                          02220
        r1 _ psireg[$r3];                          02221
        r1 _ psireg[$r3];                          02222

```

```

    pr( $" R3/", r1 );                                02223
    r1 _ psireg[$s];                                  02224
    pr( $" S/", r1 );                                  02225
    r1 _ psireg[$m];                                  02226
    pr( $" M/", r1 );                                  02227
    % change debrk address to restore registers and halt % 02264
    [levtab] _ $psitrm;                                02228
    !debrk();                                          02229
    (psitrm): % restore registers %                    02230
    !HRLZI 15,psireg;                                  02231
    !BLT 15,15;                                        02232
    % now halt and loop in case of continue %         02266
    !haltf();                                          02233
    GOTO psitrm;                                       02234
    END.                                               02235
(pr) PROCEDURE % print register values for illegal instruction trap
pseudo-interrupts %                                  02236
    (astr, % address of leading string to print %     02237
    val % value associated with the string %          02238
    );                                                02239
    REF astr;                                          02240
    % type leading string %                            02241
    crlf();                                           02242
    typeas( &astr);                                    02243
    % type value symbolically %                        02244
    typval( val, 0);                                  02245
    % now type it in octal %                           02246
    typeas( $" =");                                   02247
    typval( val, 1);                                  02248
    % now return %                                     02249
    RETURN;                                           02250
    END.                                               02251
% bit table routines%                                02639
%assign a bit from specified table%                  02640
(assignbit) PROCEDURE (table,length);                02641
    LOCAL end,count;                                  02642
    end _ table + length;                              02643
    count _ 0;                                        02644
    UNTIL table >= end DO BEGIN                       02645
        r1 _ [table];                                  02646
        !JFFD 1,assignb0; %find a free bit%          02647
        BUMP table;                                    02648
        count _ count + 36                             02649
    END;                                               02650
    %if it exits to here then no bits available!!%   02651
    err($"assignbit: no more bits to assign");        02652
    (assignb0): %found free bit set it assigned and return bit no.%
                                                         02653
    r4 _ 4000000000000B;                               02654
    r3 _ -r2;                                          02655
    !LSH 4,(3); %justify the bit for change%         02656
    !TDZ 1,4; %turn it off, thereby setting it!%     02657
    r2 _ r2 + count + 1; % add words count plus one (numbers start
    at 1!!)%                                          02658
    [table] _ r1;                                      02659
    RETURN(r2);                                        02660

```

```

END.
02661
02662
%set a specific bit in specified table%
02663
(setbit) PROCEDURE (table,bit,length);
02664
    bit _ bit-1; %numbers start at 1!!%
03651
    table _ table + bit / 36;
02671
    r3 _ -(bit MOD 36);
02672
    r1 _ [table];
02673
    r4 _ 400000000000B;
02674
    !LSH 4,(3); %justify the bit for change%
02675
    !TDZ 1,4; %turn it off, thereby setting it!%
02676
    [table] _ r1;
02677
    RETURN;
02678
    END.
02679
%get the bit no. of the next assigned bit%
02706
(nxtbit) PROCEDURE (table,bit,length);
02743
    LOCAL end, count, quot, rem;
02744
    end _ table + length;
02745
    IF bit = 0 THEN
02746
        BEGIN
02747
            count _ 0;
02748
            r1 _ [table];
02749
            END
02750
        ELSE
02751
            BEGIN
02752
                DIV bit / 36, quot, rem;
02753
                table _ table + quot;
02754
                count _ quot * 36;
02755
                r1 _ -rem;
02756
                !HRLZI 2,400000B; %mask 1st word%
02757
                !ASH 2,0(1);
02758
                r1 _ [table];
02759
                !IOR 1,2;
02760
                END;
02761
            DO
02762
                BEGIN
02763
                    !SETCA 1,0;
02764
                    !JFFD 1,nxtbt0; %find an assigned bit%
02765
                    BUMP table;
02766
                    r1 _ [table];
02767
                    count _ count + 36;
02768
                    END
02769
                UNTIL table >= end;
02770
            %if it exits to here then no bits assigned!!%
02771
            RETURN(FALSE);
02772
            (nxtbt0): %found assigned bit, return bit no.%
02773
                r2 _ r2 + count +1; % add words count plus one (numbers
02774
                start at 1!!)%
02775
                RETURN(r2);
02776
                END.
02777
%deassign a bit in specified table%
02689
(dassnbit) PROCEDURE (table,bit,length);
02690
    IF bit = -1 THEN %deassign all%
02691
        BEGIN
02692
            bit _ table + length;
02693

```

```

    FOR table UP UNTIL >= bit DO [table] _ -1;
    RETURN;
    END;
    bit _ bit-1; %start at 1!!%
    table _ table + bit / 36;
    r3 _ -(bit MOD 36);
    r1 _ [table];
    r4 _ 4000000000000B;
    !LSH 4,(3); %justify the bit for change%
    !TDO 1,4; %turn it on, thereby clearing it!%
    [table] _ r1;
    RETURN;
    END.
%check if bit is assigned in specified table%
(chkbit) PROCEDURE (table,bit,length);
    bit _ bit-1; %numbers start at 1!!%
    table _ table + bit / 36;
    r3 _ -(bit MOD 36);
    r1 _ [table];
    r4 _ 4000000000000B;
    !LSH 4,(3); %justify the bit for change%
    RETURN ( NOT (r1 .A r4));
    END.
% Wheel status. %
(enablw)PROC;
    LOCAL pcap;
    r1 _ 4B5;
    !JSYS rpcap;
    pcap _ r3;
    r3 _ r2;
    IF NOT r2 .A 6B5 THEN RETURN(-1);
    r1 _ 4B5;
    !JSYS epcap;
    RETURN(pcap)
    END.
(disablw)PROC(pcap);
    %Disable wheel status, and restore status to pcap%
    r1 _ 4B5;
    !JSYS rpcap;
    r3 _ pcap;
    r1 _ 4B5;
    !JSYS epcap;
    RETURN(pcap)
    END.
(enwheel) %logged in user an enabled wheel?%
PROCEDURE;
    %-----%
    LOCAL pcap;
    %-----%
    r1 _ 4B5;
    !JSYS rpcap;
    pcap _ r3;
    RETURN (pcap .A 4B5);
    END.

```

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02838
01544
% Misc Routines%                                03561
(flagut)PROCEDURE(flagno, jsysno);
  %This routine does the equivalent of calling the old flag jsies
  using the file <netsys>nlsflags.flags;1%      03562
  LOCAL blkadr, indx, wrd, ret;                03563
  REF wrd;                                       03565
  IF NOT blkadr _ flgpage( :indx) THEN          03664
    CASE flagno OF                               03572
      =0: RETURN(1); %say journal is locked%    03573
      ENDCASE RETURN(0); %say flag is false%    03574
    &wrd _ blkadr + flagno;                       03583
    CASE jsysno OF                                03584
      =$setfg:                                     03585
        BEGIN                                       03586
          r1 _ 1;                                   03587
          !EXCH r1,@wrd;                             03588
          ret _ IF r1 THEN 0 ELSE 1;                 03589
          END;                                       03590
        =$tstfg:                                    03591
          BEGIN                                       03592
            ret _ wrd;                               03593
            END;                                       03594
          =$rstfg:                                    03595
            BEGIN                                       03596
              r1 _ 0;                                 03597
              !EXCH r1,@wrd;                         03598
              ret _ r1;                               03599
              END;                                       03600
            ENDCASE err($"Illegal Flag Jsyes");    03601
    %map out the page%                             03602
      r1 _ -1;                                       03603
      r2 _ 4B11 .v (blkadr/1000B);                 03604
      r3 _ 0;                                       03667
      !JSYS pmap;                                    03605
    %thaw core page%                               03606
      frzblk(indx, -1);                             03607
    RETURN(ret);                                    03608
  END.                                             03609

(flagpage)PROCEDURE; %map in page 0 of NLSFLAGS.FLAGS to allocated
( and frozen) page. Open flags file if nescessary. Return blkadr and
index (CRPGAD). RETURN 0 on failure to open%      03660
  LOCAL blkadr, indx;                              03661
  LOCAL STRING tempsr[120];                        03564
  IF NOT flagjfn THEN                              03566
    BEGIN                                           03567
      %open mailer's flag file%                    03568
      IF (flagjfn _ sgtjfn( getgtjflg(read,0,oldvrsn), $flgfname,
        $tempsr )) AND NOT (sysopen (flagjfn, rwithawed, random,
        $tempsr)) THEN reljfn(flagjfn:=0);          03569
      END;                                           03570
    IF NOT flagjfn THEN RETURN(0); %didn't get flag file open% 03571
    %get a frozen core page%                        03575
      frzblk ((indx _ lodrfb(0,-1)), 1);           03576
      bikadr _ crpgad[indx];                       03577

```

```

* map in file page%                                03578
  !HRLZ r1,flagjin;                                03579
  r2 _ 4B11 .V (blkadr/1000B);                      03580
  r3 _ 14B10;                                       03581
  !JSYS pmap;                                       03582
  RETURN(blkadr, indx);                             03662
  END.                                              03663

(fndungtxt) %FIND unquoted text string%            02839
PROCEDURE (keytext, start, t1, t2);                02840
%-----%                                          02841
LOCAL quoflg;                                       02842
LOCAL TEXT POINTER p1, p2, end;                    02843
REF keytext, start, t1, t2;                         02844
%-----%                                          02845
FIND start ^p2 SE(start) ^end;                      02846
LOOP %through unquoted text segments%              02847
  BEGIN
  FIND p2 ^p1 > ([^"] ^p2 _p2 FS quoflg / end ^p2 FR quoflg); 02848

  IF ((FIND p1 > [*keytext*] ^t2 ^t1) AND (t2 [1] <= p2 [1])) 02849
  THEN                                              02850
    BEGIN                                          02851
      t1 [1] _ t1 [1] - keytext.L;              02852
      RETURN (TRUE);                             02853
    END;                                          02854
    IF quoflg THEN %flush till closing quote%     02855
      IF NOT FIND p2 > CH [^"] ^p2 THEN EXIT LOOP; 02856
      IF p1 [1] = end [1] THEN EXIT LOOP;         02857
    END;                                          02858
  RETURN (FALSE);                                 02859
  END.                                            02860

(cldtxt) PROCEDURE(ptr1, ptr2);                     02892
  REF ptr1, ptr2;                                  02893
  FIND ptr1 ^sptr1 ptr2 ^sptr2;                    02894
  <UTILITY, cldsr> ($sptr1);                        02895
  RETURN;                                           02896
  END.                                              02897

(bumpstr)PROC(astr);                                02934
  %Increments number in astr by one%               02935
  REF astr;                                         02936
  %We must use a local string until L10 gets fixed% 02937
  LOCAL STRING tempsr[10];                          02938
  *tempsr* _ STRING(VALUE(&astr)+1);                02939
  *astr* _ *tempsr*;                                02940
  RETURN;                                           02941
  END.                                              02942

(makeptr)PROC(std, ptr);                             03011
  %Make a pointer pointing to the first character of std, and store 03012
  it into ptr%                                      03013
  REF ptr;                                          03014
  FIND SF(std) ^ptr;                                03015
  RETURN;                                           03016
  END.                                              03016

(bkc) PROCEDURE (astrng); %backspace char%         02990

```

```

%Given the address of an A-string, this routine will subtract one
from the length, and then return the last character of the
string.%
%-----%
REF astrng;
IF astrng.L <= empty+1 THEN
  BEGIN
    astrng.L _ empty;
    RETURN(ENDCHR)
  END
ELSE BUMP DOWN astrng.L;
RETURN(*astrng*[astrng.L]);
END.
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03000

(bkw) PROCEDURE(astr); %backspace word%
%Backspace Word (VISIBLE). The A-string, whose address is passed,
is backed up one VISIBLE via routine bkc.%
%-----%
LOCAL char;
CASE char _ bkc(astr) OF
  =SP, =TAB, = CR, = ENDCHR : NULL;
  ENDCASE REPEAT;
RETURN(char);
END.
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03002
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03009

(filesc) % xxx *** new filesys %%End string construction.%
03010

PROCEDURE;
LOCAL
  sdb,
  datasiz, %size of data in words%
  stdb, %stdb for new SDB%
  initflg, % if TRUE, crepr2 uses values in dlleft and dlright
for name delimiters %
  dlleft, %left name delimiter%
  dlright, %right name delimiter%
  sdbit, % stid of inferior tree, if any, of existing property
block. It must be linked to the new block if necessary.
(Currently, text blocks do not have inferior trees and this is
always zero, but this code is put in just in case things
change. %
  cl; %pointer into clist%
REF sdb;
% set up byte pointer (used by apachr) to sar, the buffer string
which was used to get the material to be copied over. %
  nsdbpt _ chbptr(sar.L) + $sar;
  IF sar.L = empty THEN apachr(SP);
  datasiz _ (sar.L+4)/5;
% If there is currently a text block property for this node, we
delete it after saving name delimiters and the inferior tree
%
  IF lodprop( rplsid, txttyp : &sdb, stdb) THEN
  BEGIN %get the delimiters for the statement%
    dlleft _ sdb.slnmdl;
    dlright _ sdb.srnmdl;
    initflg _ TRUE;
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```

```

    sdbit _ freprop(stdb); %get rid of the old sdb%      03690
    END                                                    03691
ELSE                                                    03692
    BEGIN                                                03693
    % let crepr2 create the name delimiters %           03694
    dlleft _ dlright _ initflg _ sdbit _ 0;            03695
    END;                                                 03696
% create text block %                                   03697
    IF NOT (stdb _ crepr2( rplsid, txttyp, datasiz, $sar+1,
    initflg, dlleft, dlright)) THEN                    03698
        err($"System error in statement edit. Possible bad file.");
                                                    03699
    % If an inferior tree existed, it must be linked into the new
    block %                                             03700
    IF sdbit THEN insitree( sdbit, stdb );            03701
% update the correspondence list %                      03702
    UNTIL clchng = clmpty DO                            03703
        BEGIN                                          03704
        POP clchng TO cl;                              03705
        [cl].clfixed _ FALSE;                          03706
        [cl].clst1 _ rplsid;                           03707
        END;                                           03708
RETURN;                                                03709
END.                                                    03710

```

(xtrnam) %***% %Arguments are 1: address of A-string, 2: address of work area for READC, 3: left name delimiter, 4: right name delimiter. If instead of passing the delimiters you want xtrnam to use the delimiters given in the SDB header, pass a minus one as the third argument. If finds a name in the statement it is placed in the A-string, otherwise the A-string is set to empty. Uses (TXTEDT, nmldr) to determine the name.%

```

PROCEDURE (ast, worka, dlleft, dlright);              03484
LOCAL ch, sdb;                                       03485
LOCAL TEXT POINTER tp1, tp2, tp3;                   03486
LOCAL STRING dlstr[1], drstr[1];                   03487
REF ast, sdb;                                        03488
IF dlleft = -1 THEN %must look up the delimiters%   03489
    BEGIN                                            03490
        dlleft _ getnmdl( [worka] : dlright);      03491
    END;                                            03492
IF dlleft # 0 THEN *dlstr* _ dlleft;                03493
IF dlright # 0 THEN *drstr* _ dlright;              03494
tp1 _ [worka]; tp1[1] _ [worka+1];                  03495
*ast* _ NULL; %clear a-string to empty%             03496
FIND tp1 >;                                          03497
IF dlleft = 0 OR                                     03498
(dlleft = SP AND FIND 1$SP ^tp1) OR
FIND $SP *dlstr* $SP ^tp1 THEN                      03499
    BEGIN                                          03500
        <TXTEDT, nmldr>($tp1, $tp2, $tp3);         03501
        % if no name then tp2 = tp3 %             03502
        FIND tp3 > ^tp1;                          03503
        IF dlright = 0 OR
        (dlright = SP AND FIND SP ^tp1) OR

```



```

        ENDCASE                                03067
        werr(3);                                03068
        %print unknown stack overflow and wait for 03069
        CA%                                     03070

END.

%error handling routines %                    03071
(deferr)PROC;                                03073
%This procedure gets called when a signal is done with nothing 03074
stopping it on the stack.                    03075
    If the current stack is not the system stack, GSTACK, then a
    search is made of sequence generator work areas for one which
    links this stack to another.  If one is found, m and s are
    loaded from it and the signal is propagated through that stack.
    If no link can be established, an error message is typed and we
    let it happen.                            03076
    If the current stack is the system stack, it types out the
    message in sysmsg, and resets NLS%        03077
IF (sysmsg <= errmsbase) THEN *sar* _ "Error" 03078
ELSE *sar* _ *[sysmsg]*; %Move message to a safe place% 03079
sysmsg _ $sar;                                03080
IF m.RH NOT IN [$gstack, $gstack+$gstksz] THEN 03081
    BEGIN %must propagate signal further%     03082
    %check seqgen stacks%                     03083
    r4 _ $sqstks;                             03084
    FOR r5 _ $sqgwas UP $sqwrkl UNTIL >= $sqgaend DO 03085
        IF [r5].swalloc AND m.RH IN [r4, r4+$sqstksz] THEN 03086
            BEGIN                               03087
                m _ [r5].swmrsav;              03088
                s _ [r5].swsrsav;              03089
                GOTO syssig;                   03090
            END                                 03091
        ELSE r4 _ r4+$sqstksz;                 03092
    %could not find link in seqgen work areas, so let it rip% 03093
    dismes(2, $"DEFERR called with other than GSTACK--no linkage
    found to GSTACK (please report this to ARC programming
    personell)");                             03094
    END;                                       03095
IF nmode # typewriter THEN <INPFBK, bmoft>(); 03096
CASE sysgnl OF                                03097
    = statesig: supervisor();                 03098
    =0, =-2: %called by err, abort%          03099
        dismes(2, $sar);                      03100
    =-1, =-3: %called by werr, wabort%       03101
        BEGIN                                  03102
            *sar* _ *sar*, "--Type CA";       03103
            clrbuf(1); % clear input and output buffers % 03104
            dismes(1, $sar);                  03105
            LOOP IF input() = CA THEN EXIT;   03106
            dismes(0);                        03107
        END;                                   03108
    =-5: %Called by badfil%                   03109
        BEGIN                                  03110
            delfil(bfilno);                   03111
            IF nmode = fulldisplay THEN       03112
                alldsp() %make sure user sees real state of the world%

```

```

ELSE typeas($"File closed: ");
REPEAT(-1);
END;
=-6: %Called by iodaterr%
REPEAT(sysgnl _ -1); %make it a werr%
ENDCASE dismes(2, $sar);
sysmsg _ $"NLS Internal System Error";
sysgnl _ 0;
supervisor();
halt();
END.
(werr) PROCEDURE (errno);
LOCAL errmes;
errmes _ CASE errno OF
= 2: $"S-stack overflow";
= 3: $"Undetermined stack overflow";
= 4: $"Bad file";
= 5: $"Spec stack error";
= 6: $"Pattern stack overflow";
>= errmsbase: errno; %address of A-string%
ENDCASE $"Error";
SIGNAL(werrsig, errmes);
END.
(err) PROCEDURE (errno);
% errno is either the address of a string or a standard error
number. ERR generates a signal ERRSIG. %
LOCAL errmes;
%Save of address of call, and value of m%
ermark _ m;
ercall _ [m .A 18M] .A 18M - 1;
errmes _ CASE errno OF
= 1: $"File copy fails";
= 2: $"Open scratch fails";
= 3: $"Cannot load program";
= 4: $"I/O Error";
= 5: $"System error: String Variable Overflowed";
= 6: $"Bad file block";
= 7: $"Not implemented";
>= errmsbase: errno; %address of A-string%
ENDCASE $"Error";
SIGNAL(errsig, errmes);
END.
FINISH of UTILITY

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```


VERIFY


```

%check free list%                                0305
frecnt _ 0; %number of entries on the free list% 0306
IF (freep _ rn.rffree) # 0 THEN                   0307
  BEGIN                                           0308
    IF freep NOT IN [fbhdl,blksiz) THEN           0309
      badfil(fileno);                             0310
    freep _ freep + blkad;                         0311
    %address of start of free list%               0312
  LOOP                                           0313
    BEGIN                                         0314
      BUMP frecnt; %count entries on free list%  0315
      %check if have reached end of list%        0316
      CASE [freep] OF                             0317
        =0: EXIT;                                 0318
        NOT IN [fbhdl,blksiz): badfil(fileno);  0319
      ENDCASE IF frecnt > nringl THEN             0320
        badfil(fileno);                           0321
      freep _ blkad + [freep];                     0322
    END                                           0323
  END;                                           0324
%check used word count%                           0325
statb _ nringl - frecnt;                          0326
stats _ stats + statb;                             0327
blkusd _ statb * ringl + fbhdl;                   0328
IF blkusd # rn.rfused THEN badfil(fileno);       0329
END                                               0330
END;                                             0331
BUMP &rn;                                         0332
END                                               0333
UNTIL (rngblk _ rngblk+1) = rngm;                 0334
RETURN (stats) END.                              0335
(cbdb) %***% PROCEDURE(vrfy, fileno); % statement data blocks % 0337
LOCAL                                           0338
  stats, %number of nongarbage SDB's in file%    0339
  sdbblk, %index in DTBST%                        0340
  dt, %pointer to DTBST entry%                   0341
  stdb, %STDB for getting blocks loaded by lodsdb% 0342
  blkad, %address of the block%                  0343
  freep, %address of free space%                 0344
  sdbpt, %pointer to SDB's in the block%         0345
  sdbusd; %used word count in the block%         0346
REF dt;                                          0347
&dt _ filhdr(fileno) + $dtbst - $filhed;        0348
sdbblk _ stdb _ stats _ 0;                       0349
stdb.stfile _ fileno;                            0350
DO BEGIN                                         0351
  IF dt # 0 THEN                                  0352
    BEGIN                                         0353
      stdb.stblk _ sdbblk;                        0354
      lodent( stdb, sdbtyp: blkad);               0478
      IF vrfy THEN                                 0356
        BEGIN                                     0357
          %check free space pointer%              0358
          IF (freep _ dt.rffree)                  0359
            NOT IN [fbhdl,blksiz] THEN badfil(fileno); 0360
        END
    END

```

```

    freep _ freep+blkad; %address of free space%           0361
    sdbpt _ blkad+fbhdl; %address of first SDB%           0362
    sdbusd _ fbhdl; %used word count%                     0363
    WHILE freep > sdbpt DO                                 0364
        BEGIN                                             0365
            IF NOT [sdbpt].sgarb THEN                     0366
                BEGIN                                     0367
                    sdbusd _ sdbusd + [sdbpt].slength;   0368
                    BUMP stats;                           0369
                END;                                       0370
                %address of next SDB%                     0371
                IF (sdbpt := sdbpt + [sdbpt].slength) >= sdbpt THEN
                    badfil(fileno);                       0372
                END;                                       0373
            IF sdbusd # dt.rfused THEN badfil(fileno);    0374
            END;                                           0375
        END;                                               0376
        BUMP &dt;                                          0377
    END                                                    0378
    UNTIL (sdbblk _ sdbblk+1) = dtbm;                    0379
    RETURN (stats) END.                                    0380
                                                         0381
% procedure for checking structure %                      0127
(ckstrc) %***% PROCEDURE(orgstd);                        0382
% ORGSTD is the stid of the origin of the file or of an inferior
tree %                                                  0383
LOCAL                                                  0384
    fileno, %file number%                                0385
    statd, %number of data blocks in structure%         0386
    statr, %number of rings in structure%               0387
    sdbsf,                                             0388
    curpty,                                           0389
    cur, %STID of current statement%                   0390
    cursup, %STID of up of current statement%          0391
    clhead, %head flag value expected for cur%         0392
    nxtcur, %STID of next statement%                   0393
    sdb, %location of SDB%                              0394
    curlev, %level in structure of cur%                 0395
    toplevf, %flag called with file origin%            0481
    looktxtf, %flag looking for text block on this node% 0482
    sdbtabn, %sdb type order number (from getptab)%    0483
    locstk[67]; % used to save away old value of fvstk if necessary
%                                                       0396
REF sdb;                                               0397
curlev _ statr _ statd _ 0;                             0398
cursup _ cur _ orgstd;                                  0399
fileno _ orgstd.stfile;                                 0400
toplevf _ IF orgstd.stpsid = origin THEN TRUE ELSE FALSE; 0484
RESET fvstk;                                           0401
PUSH orgstd ON fvstk;                                   0402
clhead _ TRUE;                                         0403
LOOP %once thru for each ring%                          0404
    BEGIN                                               0405
        BUMP statr;                                     0406
        looktxtf _ toplevf; %look for text block on top level% 0485
        %Check the property sdb of each ring if it is not the origin

```

```

of an inferior tree%                                0407
IF NOT getorf(cur) THEN                              0408
  BEGIN                                              0409
  curpty _ getsdb(cur); % get first property %      0410
  sdbtabn _ -1;                                     0486
  LOOP                                              0411
    BEGIN                                            0412
    IF curpty.stpsdb = 0 THEN EXIT;                  0413
    BUMP statd;                                     0414
    lodent(curpty, sdbtyp: &sdb);                    0415
    %Hooked in the ring ok?%                         0416
    IF sdb.sgarb OR sdb.spsid # cur.stpsid THEN
    badfil(fileno);                                0417
    curpty.stpsdb _ sdb.spsdb;                       0431
    IF (sdbtabn := getptab(sdb.sptype)) >= sdbtabn THEN
    badfil(fileno);                                0487
    %sdb's must be ordered, at most one of each type% 0488
    %Additional property type checks follow%         0418
    CASE sdb.sptype OF                              0419
      =txttyp: looktxtf _ FALSE;                    0420
      =gtftyp, =lwtyp: NULL;                        0489
      =dhtyp, =chtyp, >=40000B:                    0421
    IF sdb.sitpsid THEN BEGIN % must verify inferior
    tree %                                          0422
    % Save away current verify stack; it will be
    replaced by a new one when ckdgms calls ckstrc %
    0423
    mvbfbf($fvstk, $locstk, svmxlev + 3 % max levels
    plus stack overhead %);                          0424
    statr _ statr + ckdgms(&sdb, fileno: sdbsf);     0425
    % restore saved verify stack %                  0426
    mvbfbf($locstk, $fvstk, svmxlev + 3 % max levels
    plus stack overhead %);                          0427
    statd _ statd + sdbsf;                          0428
    END;                                             0429
    ENDCASE badfil(fileno); % Illegal property type % 0430
  END;                                              0432
  END;                                              0433
IF looktxtf THEN badfil(fileno);                    0490
  %should have found text, didn't%                 0491
%check head flag%                                   0434
IF clhead # getfhd(cur) THEN badfil(fileno);       0435
IF (nxtcur _ getsub(cur)) # cur THEN                0436
  BEGIN %go down in structure%                      0437
  IF (curlev _ curlev+1) > svmxlev THEN badfil(fileno); 0438
  PUSH cursup ON fvstk;                              0439
  cursup _ cur;                                     0440
  cur _ nxtcur;                                     0441
  clhead _ TRUE;                                    0442
  END                                               0443
ELSE %go to successor%                              0444
  BEGIN                                             0445
  nxtcur _ getsuc(cur);                             0446
  WHILE nxtcur = cursup AND nxtcur # orgstd DO      0447
    BEGIN                                           0448
    %must have tail flag set%                       0449

```

```
    IF getftl(cur) = FALSE THEN badfil(fileno);          0450
    cur _ nxtcur;                                       0451
    nxtcur _ getsuc(cur);                               0452
    POP fvstk TO cursup;                                0453
    curlev _ curlev-1;                                  0454
    END;                                                 0455
    cur _ nxtcur;                                       0456
    %head flag must be off%                             0457
    clhead _ FALSE;                                     0458
    END;                                                 0459
    IF cur = orgstd THEN RETURN (statr, statd);         0460
    END;                                                 0461
END.                                                    0462
                                                    0463
% specific procedures for checking properties and their substructure%
                                                    0236
                                                    0258
(ckdgm) %***% PROCEDURE (sdbloc, fileno); %check diagrams and
subtrees%                                             0464
    LOCAL                                             0465
        statr, %total number of rings%                0466
        statd, %total sdb%                             0467
        stid; %work pointer to subtree heads%         0469
    %check the inferior tree%                          0472
    IF NOT (stid _ [sdbloc].sitpsid) THEN              0474
        RETURN( 0, 0);                                 0475
    stid.stfile _ fileno;                              0473
    statr _ ckstrc(stid:statd);                        0476
    RETURN(statr, statd) END.                          0477
                                                    0128
FINISH of verify                                     0184
```

XPKUL>

< NLS, XPROCS.NLS;5, >, 9-AUG-74 17:51 CHI ;;;;

INTRODUCTION

02

This document is meant to serve two purposes: 1) to be a guide to those who wish to use nls as a black box (e.g. NSW and ISI) and 2) to be a guide for those who wish to write NLS user programs and need a list of procedures which deal with the various data structures and facilities within NLS. In an attempt to provide a document to meet these needs, I have prepared a coding scheme to be used in this list of procedures as follows:

03

[G] = Guaranteed to stay around with the same user interface for some time to come. These should be callable through MESS

(Multi-Environment Support System).

04

[U] = useful routine but might change or go away at some point. Unless we hear from you, these will probably not be callable through MESS.

05

[L] = Lower level routine that should only be used if the higher level routines will not do what you want.

06

[F] = Front end routine dealing with terminal or user i/o or command parsing. The absence of an F code means that a procedure is in the Backend of NLS.

07

[W] = Wheel or operator status required to use this procedure.

08

FORM OF CITATIONS

09

each procedure citation is of the form

010

(PROC-NAME) [CODE(S)] (LINK-TO-PROC-IN-SOURCE-CODE)

011

(FORMAL PARAMETERS)

012

COMMENTS

013

PARAMETER TYPES

014

parameters to nls procedures are chiefly of five kinds:

015

integer; passed by value of course

016

string; passed by address

017

a string consists of a one-word header (LH=MaxLength, RH=CurrentLength) followed by (MaxLength+4)/5 words with 5 characters per word.

018

stid; passed by value.

019

a one word pointer to a node within a file or a string. The difference is distinguished by a flag bit, STASTR.

020

If this is TRUE, then the rest of the word consists of the address of the string. Otherwise, it consists of an nls file number (unique among currently open files for this user), a pointer to a page within the file, and a displacement within that page.

021

text-pointer; passed by address.

022

a two word structure, the first word being an STID and the second word being a character count (starting with 1 not 0).

023

boolean; 0 is FALSE, anything else is TRUE. passed by value

024

File manipulation

025

creating NLS files

026

(ccrefil) [G] (nls, cedit, ccrefil)

027

(rhostn, fname)

028

Core NLS Create File Command. given a host number and file name, this routine will create, initialize and open a file by that name. RHOSTN is an integer and FNAME is a string. RHOSTN must be the local host number as of this writing.

029

opening NLS files

030

(cloafil) [G] (nls,cedit,cloafil) 031
 (flnam) 032
 Core NLS Load File command. FLNAM is a string containing the name of the file to be opened and made accessible to the user. If the user has a partial copy for this file, it is opened also. If someone else has a partial copy for this file, a message is sent to the user telling him who is modifying it. 033

(cloamodfil) [U] [W] (nls,cedit,cloamodfil) 034
 (filename) 035
 Core NLS Load Modified File command. This is similar to cloafil but loads the Partial Copy also. This is a privileged command in that it overrides the normal interlock mechanisms. 036

(openlock) [L] (nls,ioexec,openlock) 037
 (jfn, astr) 038
 Open and lock file indicated by astr after waiting for it to be free. (Used primarily for systems files in Journal, Ident systems, etc.) (Uses OPLCK to set and reset openlock lock flag-- this is the only flag used to channel locks by everyone using the journal, ident, and measurement systems(!!!)) Expunges directory in effort to try to get file opened. Also does some other wierd things. This is a very poorly coded procedure which is used in many important subsystems. Returns stid of origin statement of file. SIGNALS or calls err if something wrong. 039

(openid) [L] (nls,ioexec,openid) 040
 open initial file; constructs file name from login directory name and current initials. creates the file if it does not exist. Returns file number. 041

(openwk) [L] (nls,ioexec,openwk) 042
 (jfn, astr) 043
 Opens and resets work file specified by astr: creates it with a default extension of .NLS if it does not exist. It returns the stid of the origin statement of the file 044

(openull) [L] (nls,ioexec,openull) 045
 (nfname) 046
 create file with given name. Returns file number. (Almost identical with openid except for name creation and flags sent to sgtjfn; they should be combined (add flag parameter).) 047

(opnctfile) [L] (nls,ioexec,opnctfile) 048
 (initstr, userstr) 049
 Open initial file (in any directory) specified by the strings whose addresses are passed in initstr and userstr. CALLED ONLY IN (JNLDEL, OLDIST). Return stid of origin if opened, and FALSE if not. In addition to opening it, it also locks it by creating a partial copy. Enables to permit the operator through this procedure to get to the initial file of any user. Calls rawopen. 050

(sysopen) [L] (nls,ioexec,sysopen) 051
 (jfn, accessmode, type, astrng) 052
 Open jsys-- set up registers for and execute openf JSYS. Return TRUE if successful, FALSE if failure with error message in string whose address was passed as fourth parameter. 053

closing NLS files 054
 (close) [G] (nls,ioexec,close) 055

```

(fileno) 056
  Close original file and the partial copy and delete from file
  status table. Calls err if error occurs. 057
(closeu) [U] (nls,ioexec,closeu) 058
  (fileno) 059
  Close and update file 060
(closeall) [U] (nls,ioexec,closeall) 061
  Close all files in file status table. 062
(sysclose) [L] (nls,ioexec,sysclose) 063
  (jfn,astrng) 064
  Issue close jsys-- Return TRUE if file closed, FALSE if not
  with error message in string whose address was passed. 065
verify internal consistency of an nls file 066
(cverfil) [G] (nls,cedit,cverfil) 067
  (fileno,type) 068
  Core NLS File verify Command. verifies the internal structure
  and consistency of the file. fileno is an integer and type is
  a boolean (TRUE means give it the full treatment, FALSE means
  just make sure all pages are there). 069
"update" and nls file (merge in modifications and release for others
to edit 070
(cupdfil) [G] (nls,cedit,cupdfil) 071
  (fileno,type,namstr) 072
  Core NLS Update File command. update the file whose number is
  in fileno (integer) according to type (merge back into old
  version, generate a new version, rename it using namstr
  contents, or compact it to a new version). 073
delete modifications to a file 074
(cdelmodfil) [G] (nls,cedit,cdelmodfil) 075
  (fileno) 076
  Core NLS Delete Modifications to File Command. deletes the
  partial copy file and unlocks the file for modifications by
  others. Any changes made since the last update will be lost. 077
undelete modifications to fil 078
(cundmodfil) [G] (cdelfil) (nls,cedit,cundmodfil) 079
  (fileno) 080
  Core NLS Undelete Modifications to File. undo the effects of
  the last call on cdelmodfil, if possible (i.e. file has not
  been expunged, etc.) 081
delete files 082
(cdelfil) [G] (nls,cedit,cdelfil) 083
  (rhstn,fname,astr) 084
  delete a file (group) (and its (their) partial copy(ies)) 085
(delovsrns) [U] (nls,ioexec,delovsrns) 086
  (jfn,number) 087
  Deletes old versions of file if there are more than the number
  passed as the second parameter 088
undelete files 089
(cundfil) [G] (nls,cedit,cundfil) 090
  (rhstn,fname,astr) 091
  undelete file (group) (and its (their) partial copy(ies)) 092
move files 093
(cmovfil) [G] (nls,cedit,cmovfil) 094
  (rhost1,file1,rhost2,file2,astr) 095
  Core NLS Move File Command. at present, all host numbers must

```



```

    read file's privacy status                                0141
    (proprot) [U] (nls,execfl,proprot)                       0142
    (jfn1,jfn2)                                              0143
    propagate protection from jfn1 to jfn2                   0144
    (chprvsts) [U] (nls,ioexec,chprvsts)                     0145
    (fileno,newprvsts)                                       0146
    change file's privacy status                             0147
NLS protection mechanism                                    0148
    (disabaccess) [U] (nls,ioexec,disabaccess)               0149
    (fileno,type)                                           0150
    see enablaccess for comment                              0151
    (setaccess) [U] (nls,ioexec,setaccess)                   0152
    (fileno,type)                                           0153
    Set the NLS system access for the file indicated by fileno to
    type (a three bit mask) if access type is legal. Calls err if
    anything wrong.                                         0154
    (enablaccess) [U] (nls,ioexec,enablaccess)               0155
    (fileno,type)                                           0156
    Set NLS system access to file or global mask for user. (Used
    for special subsystems , e.g., Journal.) Set bit in access mask
    which corresponds to type (a three bit mask). Set mask in file
    if fileno # 0, otherwise set global mask.                0157
initialize an nls file [U]                                  0158
    (resetf) [U] (nls,ioexec,resetf)                         0159
    (fileno)                                                0160
    Reset file-- null partial file                           0161
get file handle from monitor [L]                            0162
    (sgtjfn) [L] (nls,ioexec,sgtjfn)                         0163
    (flags,flnam,errstr)                                     0164
    short gtjfn jsys-- set up registers and execute short gtjfn.
    Returns jfn for file whose name is specified in flnam if
    successful, FALSE with error message in string whose address is
    passed if not. The file name is checked to see if it is a
    Journal item.                                           0165
    (lgetjfn) [L] (nls,ioexec,lgetjfn)                       0166
    (dirnam,flnam,extnsn,flags,errstr)                       0167
    long gtjfn jsys-- set up registers and execute long gtjfn.
    Returns jfn for file whose name is specified in the parameters
    if successful, FALSE with error message in string whose address
    is passed if not. If &dirnam is 0, then the file name is
    checked to see if it is a Journal item and the default
    directory is taken as the one the user is connected to. 0168
freezing/thawing file pages [L]                             0169
    (frzblk) [L] (nls,filmnp,frzblk)                          0170
    (pgindx,fr)                                             0171
    Freeze block given as arguments                          0172
    (thwfil) [L] (nls,auxcod,thwfil)                          0173
    (filno)                                                 0174
    thaw file pages of file                                   0175
    (thwrfp) [L] (nls,auxcod,thwrfp)                          0176
    thaw random file pages                                   0177
    (frzrfb) [L] (nls,filmnp,frzrfb)                          0178
    (fileno,blkn,fr)                                        0179
    This routine is called for all freezing and thawing of random
    file blocks. Arguments are                               0180
link defaults [G]                                           0181

```

(creslindef) [G] (nls,credit,creslindef)	0182
(fileno,f1,f2)	0183
Core NLS Reset Link Default for File Command	0184
(csetlindef) [G] (nls,credit,csetlindef)	0185
(fileno,d1,d2)	0186
Core NLS Link Default of file Command	0187
conversion routines [U]	0188
(flntadr) [U] (nls,ioexec,flntadr)	0189
(fileno)	0190
Returns the address of the file list entry for the file number passed	0191
(filnam) [U] (nls,ioexec,filnam)	0192
(fileno,astrng)	0193
Get file name from filst entry for file whose file number is passed. Put into string whose address is passed	0194
(filhdr) [U] (nls,filmp,filhdr)	0195
(fileno)	0196
returns the address of the file header for the file whose number is passed	0197
(filnum) [U] (nls,ioexec,filnum)	0198
(astrng)	0199
Get NLS file number from filst given file name string. Returns -1 if error or string not in table.	0200
(fldirectory) [U] (nls,ioexec,fldirectory)	0201
(fl)	0202
Get directory number given address of filst entry.	0203
(transdir) [U] (nls,ioexec,transdir)	0204
(string)	0205
Translates string to directory number using stdir jsys. Accepts address of a string, appends 0 to it as required by TENEX. If not a match calls err. Else returns directory number.	0206
(gdname) [U] (nls,ioexec,gdname)	0207
(dirno,dname)	0208
Convert directory number and into a directory string. Calls err if error occurs.	0209
(gdftdir) [U] (nls,ioexec,gdftdir)	0210
(fileno,string)	0211
Given a filenumber, puts owner name in a string	0212
(jfnflink) [U] (nls,ioexec,jfnflink)	0213
(jfn,jfnname,flags)	0214
converts jfn to file link string	0215
(jfnstr) [U] (nls,ioexec,jfnstr)	0216
(jfn,string)	0217
puts full file name for jfn passed into string	0218
(jfnstr) [U] (nls,ioexec,jfnstr)	0219
(jfn,string,format)	0220
converts jfn to a full file name	0221
(unprseinp) [U] (nls,ioexec,unprseinp)	0222
(jfn,jfnflgs,udirname,ufilename,uextname,uverno,ulftovr,uname,flags)	0223
parse jfn into individual strings	0224
get/set fields from TENEX file descriptor block [U]	0225
(chnfdb) [U] (nls,ioexec,chnfdb)	0226
(jfn,offset,mask,value)	0227
Return true if file fdb changed properly	0228

(dlbgac) [U] (nls,execfl,dlbgac)	0229
(fjfn,fdb,adlmb)	0230
get account string or number for a directory list	0231
(dlbgas) [U] (nls,execfl,dlbgas)	0232
(flags,string)	0233
get archive status string	0234
(dlbglw) [U] (nls,execfl,dlbglw)	0235
(dirno,string)	0236
get last writer string	0237
(dlbgpr) [U] (nls,execfl,dlbgpr)	0238
(prot,string)	0239
get protection string for individuall field	0240
(dlbgtd) [U] (nls,execfl,dlbgtd)	0241
(param,time,string)	0242
append [time and] date string to passed string	0243
(dlckdl) [U] (nls,execfl,dlckdl)	0244
(fjfn,delbit)	0245
check deletion status of this file	0246
(dldriver) [U] (nls,execfl,dldriver)	0247
(info,gropk,sortk,fjfn,jfnflgs,erstrng,adlmb)	0248
main procedure for directory commands	0249
(dlgetg) [U] (nls,execfl,dlgetg)	0250
(gropk,jfnfdb,pcjfn,pcfdb)	0251
return the group key for this file	0252
(dlgets) [U] (nls,execfl,dlgets)	0253
(sortk,jfnfdb,pcjfn,pcfdb)	0254
return the sort key for this file	0255
get status of nls file	0256
(cshofilsta) [G] (nls,cedit,cshofilsta)	0257
(type,fileno,astrng)	0258
Core NLS Show Status of File	0259
report file as bad	0260
(badfil) [U] (nls,filmnp,badfil)	0261
(fileno)	0262
called when find something screwed up in the file	0263
manipulate file name	0264
(getversn) [U] (nls,ioexec,getversn)	0265
(string)	0266
returns the version number associated with the file name passed it	0267
(incrversn) [U] (nls,ioexec,incrversn)	0268
(string)	0269
Given the addreea of a string containing a file name, this routine will increment the number in the string representing the version number (if the string has no ";nn" in it, the routine returns FALSE.	0270
Structure Manipulation	0271
NOTE: node pointers (called STID's or SStatement IDentifiers) contain both file and node pointers. Thus, all of the editing primitives are capable of cross-file editing.	0272
moving around in the structure	0273
(getsuc) [G] (nls,filmnp,getsuc)	0274
(stid)	0275
The stid for the successor field is returned. If there is no successor, the stid of the up is returned.	0276
(getprd) [G] (nls,filmnp,getprd)	0277

(stid)		0278
Given an stid, this routine returns the predecessor; if the		
psid heads a plex, the stid itself is returned		0279
(getup) [G] (nls,filmp,setup)		0280
(stid)		0281
Given an stid, this routine returns the stid of the source of		
the original stid		0282
(getsub) [G] (nls,filmp,sub)		0283
(stid)		0284
The STID in the sub field is returned.		0285
(gethed) [G] (nls,filmp,ghed)		0286
(stid)		0287
Given an stid, this routine returns the head of the current		
plex; if it is passed the origin statement, it returns the		
origin		0288
(getail) [G] (nls,filmp,etail)		0289
(stid)		0290
Given an stid, this procedure returns the stid of the tail of		
the current plex		0291
(getnxt) [G] (nls,filmp,gnxt)		0292
(stid)		0293
This procedure finds the sequentially "next" statement, i.e.		
the substatement, successor, or successor of up, etc, of the		
stid passed as argument. Ignores all viewspecs.		0294
(getbck) [G] (nls,filmp,gbck)		0295
(stid)		0296
This procedure finds the back of the stid of the statement		
passed it. It does not observe viewspecs.		0297
(getend) [G] (nls,filmp,gend)		0298
(stid)		0299
This procedure returns the end of the branch headed by the stid		
passed it.		0300
(getvnd) [U] (nls,filmp,gvnd)		0301
(stid,level)		0302
find end of branch		0303
(stpos) [U] (nls,seqgen,stpos)		0304
(stid)		0305
Given a STID, this routine returns an integer which is the		
position of that statement within its plex.		0306
deleting structure		0307
(cdelsta) [G] (nls,credit,cdelsta)		0308
(stid)		0309
Core NLS Delete Statement Command		0310
(cdelgro) [G] (nls,credit,cdelgro)		0311
(stid1,stid2,filter,vsptr)		0312
Core NLS Delete Group Command. if filter is TRUE, then apply		
viewspec filter in the process of doing the delete. Only		
delete those statements that pass the filter.		0313
(cappsta) [G] (nls,credit,cappsta)		0314
(tostid,fromstid,tp1,tp2)		0315
Core NLS Append Statement Command. The statement fromstid is		
appended to tostid with the text pointed to by tp1 tp2 inserted		
between them.		0316
creating new nodes		0317
(cinssta) [G] (nls,credit,cinssta)		0318
(stid,rlevcnt,tp1,tp2)		0319

Core NLS Insert Statement Command. insert a new statement to follow stid (level adjusted by rlevcnt) with text pointed to by text pointers tp1 and tp2. 0320

(cbresta) [G] (nls,cedit,cbresta) 0321
(bug,rlevcnt,tp1,tp2) 0322

Core NLS Break Statement Command 0323

copying structure 0324

(ccopsta) [G] (nls,cedit,ccopsta) 0325
(tostid,rlevcnt,fromstid,filter,vsptr) 0326

Core NLS Copy Statement Command. filter as in cdelgro. 0327

(ccopgro) [G] (nls,cedit,ccopgro) 0328
(tostid,rlevcnt,fromstid1,fromstid2,filter,vsptr) 0329

Core NLS Copy Group Command. filter as in cdelgro. 0330

moving structure 0331

(cmovsta) [G] (nls,cedit,cmovsta) 0332
(tostid,rlevcnt,fromstid,filter,vsptr) 0333

Core NLS Move Statement Command. filter as in cdelgro. 0334

(cmovgro) [G] (nls,cedit,cmovgro) 0335
(tostid,rlevcnt,fromstid1,fromstid2,filter,vsptr) 0336

Core NLS Move Group Command. filter as in cdelgro. 0337

(movtst) [U] (nls,cedit,movtst) 0338
(stid,grp1,grp2) 0339

Given an stid as the first argument, this routine makes sure that the stid is not in the group bounded by the second and third arguments passed it. If it is, it does an err. 0340

replacing structure 0341

(crepgro) [G] (nls,cedit,crepgro) 0342
(bugdit,atbug1,atbug2,bybug1,bybug2) 0343

Core NLS Replace Group Command. bugdit is a boolean, other params are text pointers. if bugdit is true, replace the structure by a single statement containing the text pointed to by bybug1 and 2. otherwise, bybug1 and 2 point to another structure. 0344

(crepsta) [G] (nls,cedit,crepsta) 0345
(bugdit,atbug,bybug1,bybug2) 0346

Core NLS Replace Statement Command 0347

interchanging two structures 0348

(ctragro) [G] (nls,cedit,ctragro) 0349
(first1,first2,secnd1,secnd2) 0350

Core NLS Transpose Group Command 0351

(ctrasta) [G] (nls,cedit,ctrasta) 0352
(stid1,stid2) 0353

Core NLS Transpose Statement Command 0354

(trntst) [U] (nls,cedit,trntst) 0355
(first1,first2,secnd1,secnd2) 0356

This routine checks that the groups specified by the transpose commands have legal bounds. It does this by calling MOVST to see if FIRST1,2 are in the group bounded by SECND1,2 or SECND1,2 in the group bounded by FIRST1,2. 0357

setting attributes associated with a node 0358

(stosub) [L] (nls,filmnp,stosub) 2D2 0359
(stid,substid) 0360

Store sub of specified statement. 0361

(stosuc) [L] (nls,filmnp,stosuc) 2D1 0362
(stid,sucstid) 0363

Store successor of specified statement. 0364

(stosid) [L] (nls,filmp,stosid) 2D8	0365
(stid,sid)	0366
Store the name hash of specified statement.	0367
(stosdb) [L] (nls,filmp,stosdb) 2D6	0368
(stid,stdb)	0369
Store the psdb of specified statement.	0370
(stofhd) [L] (nls,filmp,stofhd) 2D4	0371
(stid,head)	0372
Store head flag of specified statement.	0373
(stoftl) [L] (nls,filmp,stoftl) 2D3	0374
(stid,tail)	0375
Store tail flag of specified statement.	0376
(stonam) [L] (nls,filmp,stonam) 2D7	0377
(stid,nameh)	0378
Store the name hash of specified statement.	0379
(stonmf) [L] (nls,filmp,stonmf) 2D5	0380
(stid,name)	0381
Store name flag of specified statement.	0382
misc	0383
(crensidfil) [G] (nls,credit,crensidfil) 21A	0384
(fileno)	0385
Core NLS Renumber SID's in File Command	0386
(hash) [U] (nls,utility,hash) 8A@	0387
(ast)	0388
An a-string address as argument. The hash code for that	
string is returned.	0389
reading attributes associated with a node [U]	0390
(gettim) [U] (nls,filmp,gettim)	0391
(stid)	0392
Called with STID, returns time of last write for associated	
statement.	0393
(getstsize) [U] (nls,filmp,getstsize)	0394
(stid)	0395
Called with STID, returns size in characters for associated	
statement.	0396
(getfhd) [U] (nls,filmp,getfhd)	0397
(stid)	0398
The logical value of the head flag is returned.	0399
(getftl) [U] (nls,filmp,getftl)	0400
(stid)	0401
The logical value of the tail flag is returned.	0402
(getint) [U] (nls,filmp,getint)	0403
(stid)	0404
Called with STID, returns initials of associated statement	
(left justified in word zero filled).	0405
(getlev) [U] (nls,seqgen,getlev)	0406
(stid)	0407
Called with STID, returns level of that statement (by chasing	
structure -- fairly expensive).	0408
(getnam) [U] (nls,filmp,getnam)	0409
(stid)	0410
The hash word for the statement name is returned.	0411
(getnmf) [U] (nls,filmp,getnmf)	0412
(stid)	0413
The logical value of the name flag is returned.	0414
(xtrnam) [U] (nls,utility,xtrnam)	0415

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(ast,worka,dlleft,dlright)                                0416
Arguments are 1: address of A-string, 2: address of work area
for READC, 3: left name delimiter, 4: right name delimiter. If
instead of passing the delimiters you want xtrnam to use the
delimiters given in the SDB header, pass a minus one as the
third argument. If finds a name in the statement it is placed
in the A-string, otherwise the A-string is set to empty. Uses
(TXTEDT, nmdr) to determine the name.                                0417
(getsdb) [U] (nls,filmnp,getsdb)                          0418
(stid)                                                    0419
The STDB in the specified ring element is returned.                0420
(getsid) [U] (nls,filmnp,getsid)                          0421
(stid)                                                    0422
The statement identifier for the statement name is returned.      0423
(techsig) [U] (nls,seqgen,techsig)                        0424
(stid,astrng)                                           0425
append statement signature to string                            0426
count number of branches left in a plex                      0427
(cntbleft) [U] (nls,cident,cntbleft)                     0428
(stid)                                                    0429
count the number of branches left in a plex                 0430
sorting nodes                                               0431
(csorgro) [G] (nls,cedit,csorgro)                        0432
(bug1,bug2)                                              0433
Core Nls Sort Group Command                                  0434
(defkey) [U] (nls,colsrt,defkey)                         0435
(stid,outb,num)                                          0436
default sort key routine. user may specify others.          0437
(csort) [L] (nls,cedit,csort)                             0438
(bugx,bug1,bug2,rlevcnt,kpr,copyf)                      0439
Core Nls Sort Primitive                                   0440
marging sorted structures                                   0441
(cmergro) [G] (nls,cedit,cmergro)                        0442
(intobug1,intobug2,frombug1,frombug2)                   0443
Core NLS Merge Group Command                              0444
(cmerge) [L] (nls,cedit,cmerge)                         0445
(outlst,inlst,kpr,percnt,copyf)                         0446
Core NLS Merge Primitive                                  0447
(cupdate) [L] (nls,cedit,cupdate)                       0448
(outlst,inlst,kpr,udpr,percnt,initf)                   0449
Core NLS Update Primitive                                 0450
testing for valid nodes and structures [U]                0451
(grptst) [U] (nls,filmnp,grptst)                         0452
(stid1,stid2)                                           0453
Given two stid's, this routine checks that they specify a legal
group; it also returns them ordered (GRP1,GRP2). If the stid's
do not form a legal group, an err("$illegal group") is issued.  0454
(goodrng) [U] (nls,filmnp,goodrng)                       0455
(stid)                                                    0456
Returns TRUE iff stid points to a ring element which is in use  0457
(plxset) [U] (nls,select,plxset)                         0458
(stid)                                                    0459
Given a stid, this routine will return the stid's of the head

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and tail, respectively, of the plex in which the stid appears. 0460

level adjustment conversion 0461

(rlevset) [U] (nls,filmp,rlvset) 0462

(stid,dir) 0463

Determines target stid and direction for inserting statements. Given an stid and a relative levadj count, returns an stid and levdown if to be inserted down, levsuc if to be inserted as successor to returned stid. 0464

(levset) [U] (nls,filmp,levset) 0465

(stid,levstg) 0466

Determines target stid and direction for inserting statements. Given an stid and the address of a string containing u's and d's (a levadj string), returns an stid and levdown if to be inserted down, levsuc if to be inserted as successor to returned stid. 0467

Text Manipulation 0468

NOTE: text or character pointers (called t-pointers) contain both an STID and a character count (beginning with 1). Thus, all of these editing primitives are capable of cross-file editing. 0469

creating new text 0470

(cis) [G] (nls,cedit,cis) 0471

(stid,string,levstr) 0472

Core NLS Insert Statement command (interface for old NLS core calls) 0473

(cinstex) [G] (nls,cedit,cinstex) 0474

(tp1,tp2,tp3,insertspace) 0475

Core NLS Insert Text Command. insert text pointed to by tp2 and 3 following tp1. if insertspace is true, insert a space following tp1 first. 0476

deleting text 0477

(cdeltex) [G] (nls,cedit,cdeltex) 0478

(bug1,bug2,includespace) 0479

Core NLS Delete Text Command. if includespace is true, include a neighboring space if possible. 0480

moving text 0481

(cmovtex) [G] (nls,cedit,cmovtex) 0482

(totptr,fromtptr1,fromtptr2,insertspace) 0483

Core NLS Move Text Command 0484

copying text 0485

(ccoptex) [G] (nls,cedit,ccoptex) 0486

(totptr,fromtptr1,fromtptr2,insertspace) 0487

Core NLS Copy Text Command 0488

replacing text 0489

(creptex) [G] (nls,cedit,creptex) 0490

(bug1,bug2,bug3,bug4) 0491

Core NLS Replace Text Command. replace text from bug1 through 2 by 3 through 4. 0492

interchanging text 0493

(ctratex) [G] (nls,cedit,ctratex) 0494

(bug1,bug2,bug3,bug4) 0495

Core NLS Transpose Text Command 0496

setting the case of text 0497

(csetctex) [G] (nls,cedit,csetctex) 0498

(bug1,bug2,type) 0499

Core NLS Set Case Text Command. type is an integer that

indicates upper case, lowercase, or first letter upper for each word. 0500

(csetcsta) [G] (nls,cedit,csetcsta) 0501
 (stid,type) 0502
 Core NLS Set Case Statement Command 0503

(csetcgro) [G] (nls,cedit,csetcgro) 0504
 (stid1,stid2,type) 0505
 Core NLS Set Case Group Command 0506

(csetcmod) [G] (nls,cedit,csetcmod) 0507
 (type) 0508
 Core NLS Set Case Mode Command 0509

(crescasmod) [G] (nls,cedit,crescasmod) 0510
 Core NLS Reset Case Mode Command 0511

(astruc) [U] (nls,utilty,astruc) 0512
 (astrng) 0513
 a-string to upper case 0514

(iupper) [U] (nls,cedit,iupper) 0515
 (ptr1,ptr2) 0516
 iupper edits the text string between text pointers ptr1 and ptr2, forcing the first alpha of each word to upper case 0517

(stnamcap) [U] (nls,cident,stnamcap) 0518
 (string) 0519
 Capitalize first letter of each word in a string 0520

doing mass text substitutions 0521

(csubgro) [G] (nls,cedit,csubgro) 0522
 (stid1,stid2,sbheadb,da) 0523
 Core-NLS substitute group. sbheadb is the address of a data structure of substitution pairs. 0524

(csubsta) [G] (nls,cedit,csubsta) 0525
 (stid,sbheadb,da) 0526
 Core-NLS substitute statement 0527

setting/reading the name delimiters for a node or structure 0528

(cresnsta) [G] (nls,cedit,cresnsta) 0529
 (stid,da) 0530
 Core NLS Reset Name Delimiters Statement 0531

(cresngro) [G] (nls,cedit,cresngro) 0532
 (stid1,stid2,da) 0533
 Core NLS Reset Name Delimiters Group 0534

(cshonsta) [G] (nls,cedit,cshonsta) 0535
 (stid,astrng) 0536
 Core NLS Show Name Delimiters for Statement 0537

(csetngro) [G] (nls,cedit,csetngro) 0538
 (stid1,stid2,dlleft,dlright,da) 0539
 Core NLS Set Name Delimiter Group Command 0540

(csetnsta) [G] (nls,cedit,csetnsta) 0541
 (stid,dlleft,dlright) 0542
 Core NLS Set Name Delimiter Statement Command 0543

test for neighboring spaces 0544

(incspc) [U] (nls,cedit,incspc) 0545
 (ptr1,ptr2) 0546

addressing within nls files 0547

address expression evaluator -- main mechanism for locating something in an NLS file 0548

(caddexp) [G] (nls,adrmpn,caddexp) 0549
 (t1,t2,da,ptr) 0550
 Core NLS Address Expression evaluation Command. see nls address

expression documentation in nls users guide. 0551

support routines of possible value 0552

(fechux) [U] (nls,seqgen,fechux) 0553

(astr,fileno) 0554

Given the address of an a-string as the first argument and a file number as the second, this routine returns the STID of the statement whose statement number is contained in the A-string. 0555

(namelook) [L] (nls,adrmnp,namelook) 0556

(stid,astr) 0557

This routine accepts an stid and astring, and finds the named statemet in the file indicated by the stid, retruning the stid oof the statemet or endfil. Uses non-sequential lookup. Copies name astring into local string so a literal may be used in the call 0558

(namingrp) [L] (nls,adrmnp,namingrp) 0559

(stid,lbstid,namstr,levels) 0560

lookup name in file starting at stid and terminating when through with the branch headed by lbstid, looking down levels levels. 0561

(lookup) [L] (nls,adrmnp,lookup) 0562

(ptr,astng,type) 0563

This routine accepts a pointer, string, and type, and does a search through the file indicated by the pointer for the statemnt indicated by the string and type as follows: 0564

type = nametyp 0565

searches the file for the first statement found with the indicated name. 0566

Does a non-sequential search. 0567

The string is modified. 0568

Returns the stid of the statement as a result and in the pointer, or endfil on failure. 0569

type = nxtname 0570

Same as name, but starts from the place in the ring indicated by the stid in ptr. 0571

Note that this also is a non-sequential search 0572

type = seqname: 0573

Does a sequential search of the file for the next statemet (beginning with the one following the one indicated by ptr) with the indicated name. 0574

Returns stid in ptr, or endfil in ptr. 0575

type = braname 0576

Same as seqname, but search is restricted to branch headed by ptr. 0577

type = contnt 0578

Does a sequential search of the file fo a statement with the content in string. 0579

Search starts with the character following the one indicated by ptr 0580

Returns same as seqname. 0581

type = contls 0582

Same as content, but looks only in the current statement 0583

type = wordtyp 0584

Searches for word in string in a manner equivalent to content. 0585

Returns same as content.	0586
type = words	0587
Same as wordtyp, but looks only in the current statement	0588
type = sid	0589
&astrng is assumed to be an sid, and te file is searched	0590
for a statement with a matching sid.	0591
Returns same as name.	0592
(lkupfast) [L] (nls,adrmnp,lkupfast)	0593
(stid,start,value,field)	0594
misc	0595
storage manager	0596
(getblk) [U] (nls,stgmt,getblk)	0597
(size,zone)	0598
allocate a blk of "size" words in "zone"	0599
(freeblk) [U] (nls,stgmt,freeblk)	0600
(blk,zone)	0601
de-allocate a block in zone	0602
(getstring) [U] (nls,stgmt,getstring)	0603
(length,zone)	0604
allocate a block in "zone" of "length" characters plus block	0605
header plus string header. Initialize the string to empty.	0606
Return string address.	0607
(freestring) [U] (nls,stgmt,freestring)	0608
(straddr,zone)	0609
also for arrays.	0610
(getarray) [U] (nls,stgmt,getarray)	0611
(length,zone)	0612
allocate an array in "zone" of "length" words plus block	0613
header. Initialize the array to empty. Return array address.	0614
(makezone) [U] (nls,stgmt,makezone)	0615
(zone,max,min,size)	0616
make a zone out of a block	0617
get date and time	0618
(getdat) [U] (nls,auxcod,getdat)	0619
(astng)	0620
put current date and time in astring passed	0621
(datfrmt) [U] (nls,auxcod,datfrmt)	0622
(tim,frmt,astng)	0623
put passed date and time (tenex format) in astring passed	0624
(dtfrmt) [U] (nls,auxcod,dtfrmt)	0625
(tim,astng)	0626
put date and time in canonical form in astring passed	0627
report an error to the calling procedure and usually the user	0628
(err) [G] (nls,auxcod,err)	0629
(errno)	0630
errno is either the address of a string or a standard error	0631
number. ERR generates a signal ERRSIG.	0632
display a message to the user	0633
(dismes) [G] (nls,auxcod,dismes)	0634
(type,astrng)	0635
display a message to the user	0636
%This routine is called to display a message on the screen or	0637
tty. The address of an A-string is usually provided in Astrng.	0638
Type contains an integer which determines the action taken as	0639

```

follows:
    Type = 0:
        will remove any message on the screen. An A-string need
        not be given in Astrng in this case.
        The global flag MSGRESET is set TRUE.
    Type = 1:
        the message will be displayed, and the routine will
        return (with the message still on the screen).
        The global flag MSGRESET is set FALSE.
    Type = 2:
        causes the message to be displayed for a few seconds.
        dismes returns immediately however.
        The global flag MSGRESET is set FALSE (TRUE when message
        is removed by msg fork pseudo-interrupt).
    Type >= 1000;
        put the message up for type milliseconds.
        The global flag MSGRESET is set FALSE (TRUE when message
        is removed by msg fork pseudo-interrupt).
manipulate timer
    (settimer) [U] (nls,auxcod,settimer)
        (milliseconds,proc,arg1,arg2,arg3,arg4)
        set the system timer -- after MILLISECONDS milliseconds, PROC
        will be called with ARG1 thru ARG4
    (stoptimer) [U] (nls,auxcod,stoptimer)
        stop the system timer
markers
    (cdelmar) [G] (nls,cedit,cdelmar)
        (tp1,tp2,fileno)
        Core NLS Delete Marker Command
    (cdelallmar) [G] (nls,cedit,cdelallmar)
        (fileno)
        Core NLS Delete All Markers Command
    (cmarcha) [G] (nls,cedit,cmarcha)
        (bug,tp1,tp2)
        Core NLS Mark Character Command
    (cshomarfil) [G] (nls,cedit,cshomarfil)
        (fileno,astr)
        Core NLS Show Markers in File Command
    (delmkr) [U] (nls,auxcod,delmkr)
        (tptrs)
        delete the markers in T-string specified by arg
    (lkmkr) [L] (nls,inpfbk,lkmkr)
        (astrng,fileno)
        translate marker name to t-ptr
user program manipulation
    (cpcmpfl) [U] (nls,cprograms,cpcmpfl)
        (type,cmpnam,ofilnam,da)
        Core NLS Compile File command
    (cpconan) [U] (nls,cprograms,cpconan)
        (tptr,da)
        content analyzer pattern compile routine
    (gp110) [U] (nls,usrpgm,gp110)
        (stid,da)
        does Goto Program L10 program compile
    (gpget) [U] (nls,usrpgm,gpget)
        (adstr)

```

does Goto Programs Get Rel File command	0682
(gppop) [U] (nls,usrpgm,gppop)	0683
does Goto Program Pop a program	0684
(gpexpgm) [U] (nls,usrpgm,gpexpgm)	0685
(str)	0686
does Goto Program Execute a program	0687
(gpgmrst) [U] (nls,usrpgm,gpgmrst)	0688
Goto User program reset	0689
(gprunt) [U] (nls,usrpgm,gprunt)	0690
(adstr,rhosto,outfil,mode,rhostt,tahd)	0691
does: RUN TENEX SUBSYSTEM	0692
(gpkill) [U] (nls,usrpgm,gpkill)	0693
does: KILL TENEX SUBSYSTEM	0694
(gptxst) [U] (nls,usrpgm,gptxst)	0695
(fork,astr)	0696
does: SHOW TENEX SUBSYSTEM STATUS	0697
(upgsstr) [L] (nls,usrpgm,upgsstr)	0698
(pgmaddr,str)	0699
(upgcnv) [L] (nls,usrpgm,upgcnv)	0700
(str)	0701
get user program address from name or number	0702
(xpattach) [U] (nls,psprogs,xpattach)	0703
(subname)	0704
attach subsystem to NLS	0705
(xpdetach) [U] (nls,psprogs,xpdetach)	0706
(resultptr,parsemode,subname)	0707
detach subsystem to NLS	0708
NEED A SET/RESET BUFFER SIZE ROUTINE	0709
(xpshow) [U] (nls,psprogs,xpshow)	0710
()	0711
Show Status of user programs display	0712
logout the job	0713
(clogout) [U] (nls,cedit,clogout)	0714
Core NLS logout command	0715
manipulate current user's initials	0716
(trnsint) [L] (nls,filmp,trnsint)	0717
(initials,string)	0718
Given a word of 5-bit initials, this routine translates them and appends them to the string whose address is passed.	0719
(setcinit) [L] (nls,intnls,setcinit)	0720
set up te cell cinit from the passed string	0721
(string)	0722
this routine sets up cinit from the passed string.	0723
level adjustment	0724
(reslev) [L] (nls,seggen,reslev)	0725
(vspec,clevel)	0726
Given a viewspec word and a level, this routine will perform any relative level adjustment required by the viewspec word and return the updated viewspec word.	0727
get tenex version number	0728
(tenexverno) [U] (nls,intnls,tenexverno)	0729
get version number of current TENEX	0730
wait for a time	0731
(pause) [U] (nls,auxcod,pause)	0732
(tim)	0733
pause for specified number of msec	0734

byte pointers	0735
(bkbp) [U] (nls,credit,bkbp)	0736
(bp)	0737
back up byte pointer	0738
(conbp) [U] (nls,psedit,conbp)	0739
(base,cn)	0740
construct byte pointer assuming 5 characters per word. cn is	
the character number	0741
(mkbp) [U] (nls,utilty,mkbp)	0742
(pos,size,addr)	0743
Make Byte Pointer with the specified position, size and	
address. The address is 23 bits wide to allow indexing and	
indirection.	0744
(slength) [U] (nls,utilty,slength)	0745
(bp1,bp2)	0746
string length	0747
(ckbp) [U] (nls,nddt,ckbp)	0748
(bp)	0749
Checks the validity of a byte pointer...returns False if no good	0750
(stbp) [U] (nls,utilty,stbp)	0751
(charno)	0752
character byte pointer	0753
(stbpget) [U] (nls,credit,stbpget)	0754
(stid,cnt)	0755
statement byte pointer get	0756
string to integer / integer to string	0757
(srval) [U] (nls,utilty,srval)	0758
(astring,base)	0759
convert string to value	0760
(srmake) [U] (nls,utilty,srmake)	0761
(value,astring,base)	0762
make string from value	0763
back up a string	0764
(bkc) [U] (nls,utilty,bkc)	0765
(astring)	0766
backspace char	0767
(bkw) [U] (nls,utilty,bkw)	0768
(astr)	0769
backspace word	0770
compare two strings	0771
(cmpstr) [U] (nls,utilty,cmpstr)	0772
(astr1,astr2)	0773
return -1 if astr1 < astr2, 0 if equal, 1 if astr1 > astr2	0774
(compas) [U] (nls,utilty,compas)	0775
(astr1,astr2)	0776
compares the contents of two a-strings. Returns true if the	
contents match, false otherwise	0777
bit map routines	0778
(assnbit) [U] (nls,utilty,assnbit)	0779
(table,length)	0780
(chkbit) [U] (nls,utilty,chkbit)	0781
(table,bit,length)	0782
(dassnbit) [U] (nls,utilty,dassnbit)	0783
(table,bit,length)	0784

(nxtbit) [U] (nls,utilty,nxtbit)	0785
(table,bit,length)	0786
(setbit) [U] (nls,utilty,setbit)	0787
(table,bit,length)	0788
control char to printing string conversion	0789
(npstrad) [L] (nls,dspgen,npstrad)	0790
(npchar)	0791
get symbol for non-printing	0792
trap possibly harmful control characters to protect a critical operation	0793
(trapcc) [U] (nls,utilty,trapcc)	0794
trap control characters that could rip control away (like control c). This routine can be called many times. Calls to it should be pairwise matched with calls on notrapcc. only the first call will actually do anything. ditto for the matching call on notrapcc.	0795
(notrapcc) [U] (nls,utilty,notrapcc)	0796
undoes the effect of the last call on trapcc	0797
buffer transfer	0798
(mvbfbf) [U] (nls,utilty,mvbfbf)	0799
(bfrom,bto,nw)	0800
This routine moves a buffer of words. Arguments are address of source, address of destination, and number of words to transfer. It returns the address of the last word into which data was moved.	0801
sending a message to another user's tty [W]	0802
(specttyout) [W] [U] (nls,inpfbk,specttyout)	0803
(ttyno,astr)	0804
This procedure accepts a teletype numbr and a string, and types the string as a message on the tty.	0805
(xsndtmsg) [W] [U] (nls,inpfbk,xsndtmsg)	0806
(messtring,userst)	0807
given a message and user directory name, xsndmsg finds all the places that user is currently logged in and attached and sends the message. The job MUST BE enabled for this to work. Otherwise you get an illegal instruction trap. It returns TRUE/FALSE.	0808
(csndtms) [W] [L] (nls,inpfbk,csndtms)	0809
(messtring,jobno)	0810
core send tty messtring	0811
parsing a link	0812
(lnkpspc) [L] (nls,adrmnp,lnkpspc)	0813
(lnknum,tptadr,usrstg,fnmstg,addexpstg,vspstg,adstr)	0814
extract fields from link and setup link data block	0815
(lnkprs) [L] (nls,adrmnp,lnkprs)	0816
(stp,adstr)	0817
detailed link parser	0818
enabled wheel	0819
(enablw) [W] [L] (nls,utilty,enablw)	0820
(disablw) [W] [L] (nls,utilty,disablw)	0821
(pcap)	0822
Disable wheel status, and restore status to pcap	0823
(isenabled) [L] (nls,execfl,isenabled)	0824
determine if this user is an enabled wheel	0825
returns TRUE if this user is an enabled wheel; FALSE otherwise	0826

get host number	0827
(gthstn) [U] (nls,execfl,gthstn)	0828
(hp1,hp2)	0829
returns host number for input string text pointers	0830
(hostnumber) [U] (nls,intnls,hostnumber)	0831
get logical host number from tenex for current host	0832
terminate nls	0833
(halt) [L] (nls,auxcod,halt)	0834
terminate NLS	0835
generate six-bit name from string	0836
(getsbn) [L] (nls,seqfil,getsbn)	0837
(astrng)	0838
convert string passed to sixbit name	0839
external names	0840
(getenf) [L] (nls,ioexec,getenf)	0841
(fn,astr)	0842
get EXTERNAL NAME LINK FILE name	0843
RETURNS	0844
FALSE: if it cannot find an EXTERNAL NAME LINK FILE name	0845
TRUE: if it finds an EXTERNAL NAME LINK FILE name	0846
searches the origin statement of the file whose file	
number it is passed for the string "EXTERNAL LINKS:"	
followed by any number of spaces, tabs, carriage returns,	
linefeeds, and or end-of-lines. If a link is present	
here it is considered to be the EXTERNAL NAME LINK FILE.	
If these conditions are not met, then it assumes that the	
global string enlfstr (in user-option page) is the name	
of the EXTERNAL NAME LINK FILE iff enlfstr is NOT null.	0847
call a routine to generate a signal	0848
(callsig) [U] (nls,utilty,callsig)	0849
(value,message)	0850
generate the specified signal with the specified message. this	
routine is useful if the calling procedure wishes a chance to	
catch the signal itself -- would not be possible if the	
procedure generated the signal itself.	0851
sequence generator -- used by all formatters, compilers, etc. to get a	
sequence of statements from an NLS file	0852
open a sequence	0853
(openseq) [U] (nls,seqgen,openseq)	0854
(fstid,lbstid,vspec,vspc2,usqcod,cacode)	0855
open a sequence	0856
close a sequence	0857
(closeseq) [U] (nls,seqgen,closeseq)	0858
(sw)	0859
close a sequence	0860
statement number	0861
(fechnm) [U] (nls,seqgen,fechnm)	0862
(stvwrk,astr)	0863
This routine will append the statement number to the string,	
given the statement vector. The address of the first word of	
the statement vector is provided as the first argument, and the	
address of the A-string for the statement number is given as	
the second.	0864
(fechno) [U] (nls,seqgen,fechno)	0865

(stid, astr) 0866
 Appends statement number of stid to string. Give the STID as the first argument, and the address of the string which is to contain the statement number as the second. The statement number will be built in the string. If the structure is not intact or the statement vector cannot be built, a call to RERROR or an EXCEED CAPICITY ERROR may result. 0867

(stvect) [L] (nls, seqgen, stvect) 0868
 (stid, stvwrk) 0869
 This routine generates a statement vector. It is called with a STID as the first argument and the address of the first word of a 40 word work area as the second. The number of words in the work area determine how many levels down in structure the routine can go (currently 40). ERR is called if the work area is not long enough to contain the vector for the given STID. STVECT uses routine STPOS. STVECT returns an integer, which is the level of the statement. It also creates a statement vector. Upon completion, the first word of the work area contains the level of the STID and subsequent cells contain the position within the respective plexes. Thus for statement 1D2, the vector would contain (3, 1, 4, 2) in the first four cells. 0870

(stvmmod) [L] (nls, seqgen, stvmmod) 0871
 (stvwrk, type) 0872
 This routine modifies a statement vector. It is called with the address of a statement vector as the first argument, and a type parameter as the second. The statement vector is assumed to be initialized, and is modified as specified by TYPE. 0873

seqgen port call and send 0874
 (send) [U] (nls, seqgen, send) 0875
 (sw, str) 0876
 an ENDFIL or address of a string 0877
 (sport) [U] (nls, seqgen, sport) 0878
 (sw) 0879
 send-port mechanism 0880

system default seqgen 0881
 (seqgen) [U] (nls, seqgen, seqgen) 0882
 (sw) 0883
 address of a sequence generator work area 0884

(seqnxt) [L] (nls, seqgen, seqnxt) 0885
 (sw) 0886
 address of sequence work area 0887

print journal mail seqgen 0888
 (pjsegg) [L] (nls, seqgen, pjsegg) 0889
 (sw, which) 0890
 Print Journal Seq Generator 0891

seqgen utility routines 0892
 (feedsw) [L] (nls, chelp, feedsw) 1E15 0893
 (sw, astrng) 0894
 Given the address of a sequence work area, this routine changes its vspecs in accord with the specifications in the A-string passed it. It passes the characters in the A-string to <PRMSPC, SETLT>, except for content analyzer patterns. 0895

(cpysw) [L] (nls, seqgen, cpysw) 4A 0896
 (fromsw, tosw) 0897
 copy parts of one sequence work area to another 0898

sequential file / NLS file conversions (including hardcopy formatters)

		0899
seq file to nls file conversion		0900
(ccopseqfil) [G] (nls,cedit,ccopseqfil) 6E		0901
(stid,rlevcnt,tp1,tp2,filtyp)		0902
Core NLS Copy Sequential File Command		0903
low level routines		0904
(isread) [L] (nls,seqfil,isread) 4B		0905
(jfn,inbuff,lstchr)		0906
This procedure is used during insert sequential to read another character from the input file. It expects the input jfn, the address of a string, and a terminating character, as arguments, in that order. It puts the characters read into the string; it returns true until it has an empty input buffer and encounters an EOF.		0907
(inseq) [L] (nls,seqfil,inseq) 4A		0908
(stid,rlevcnt,ifilnam,filtyp)		0909
does the Input Sequential command		0910
(inseq1) [L] (nls,seqfil,inseq1) 4D		0911
(jfn,line,justified)		0912
gets a line for inseqn		0913
(inseqn) [L] (nls,seqfil,inseqn) 4C		0914
(stid,rlevcnt,ifilnam,just)		0915
does the input sequential command (new way): double CR means end of st.		0916
nls file to seq file -- unpaginated		0917
(coutassfil) [G] (nls,cedit,coutassfil) 18A		0918
(ofilnam,da,forceup)		0919
Core NLS Output to Assembler file command		0920
(coutseqfil) [G] (nls,cedit,coutseqfil) 18D		0921
(ofilnam,da,forceup)		0922
Core NLS Output Sequential File command		0923
low level routines		0924
(sfmacpt) [L] (nls,seqfil,sfmacpt) 3H		0925
(da,sw,toplev)		0926
This copies the contents of READC to a local string, for output to the assembler. It works like sfputst, except it inserts tabs at the beginning of statements that are of a lower level than the first statement in the series. In addition a statement consisting of only one space will be output as a null line.		0927
(sfnextst) [L] (nls,seqfil,sfnextst) 3F		0928
(sw)		0929
This procedure calls the sequence generator to find the next statement. If there are no more statements in the sequence, it returns FALSE. Otherwise, it initializes CCPDS for reading the next statement, which may involve skipping the statement name.		0930
(sfputst) [L] (nls,seqfil,sfputst) 3G		0931
(da,sw,typfil)		0932
This copies the contents of READC to a local string. It expects READC to be set up to begin reading. When it completes processing this statement it performs the necessary cleanup to begin processing the next statement (by calling SFENDST) and returns.		0933
(sftrln) [L] (nls,seqfil,sftrln) 3I		0934
(begbp,bytptr)		0935

```

This routine copies characters bounded by begbp and bytpr
(both byte pointers) into sfbuff and pmaps sfbuff into the
print file when the buffer is full.                                0936
nls file to seq file -- paginated                                  0937
(coutqui) [G] (nls,cedit,coutqui) 18C                             0938
  (ofilnam,da)                                                    0939
  Core NLS Output Quickprint command                              0940
(coutproc) [G] (nls,cedit,coutproc) 18E                           0941
  (ofilnam,da,device,opflags)                                    0942
  Core NLS Invoke Output Processor                               0943
(coutjouqui) [G] (nls,cedit,coutjouqui) 18B                       0944
  (ofilnam,da)                                                    0945
  Core NLS Output Journal Quickprint command                     0946
sendmail                                                            0947
  creating a sendmail work file                                    0948
  (xjloaworfil) [U] (nls,pssendmail,xjloaworfil) 2B              0949
  NO FORMAL PARAMETERS                                           0950
  load sendmail work file for the user.  if one does not already
  exist, create it.                                              0951
initializing a sendmail work file                                  0952
  (initjwork) [U] %Initialize sendmail work file%
  PROCEDURE;                                                    0953
  % DOCUMENTATION for initjwork:                                  0954
  This procedure initializes the JWORK file, which is the work
  file for sending or forwarding Journal items.                  0955
  The JWORK file is named a concatenation of
  "[send-mail].IDENT", where IDENT is the ident of the
  person using NLS.                                              0956
  The JWORK file is created in the logged in directory by
  xjloaworfil.  It is assumed that the file is NULL (has
  only simple origin statement) at the time this routine is
  called.                                                         0957
  This routine initializes the origin statement as the Journal
  header.                                                         0958
  Replace existing origin statement with:                          0959
  Journal Number                                                  0960
    (a dummy meaning deferred number assingment)                 0961
  Author                                                          0962
    (ident of user)                                              0963
  Message flag                                                    0964
    (this will be changed when user specifies source of
    item being sent or forwarded)                                0965
  Clerk                                                           0966
    (ident of user)                                              0967
  Journal Directives                                             0968
  2 EOL's (for delimiting comments later)                       0969
  Finally, it inserts a dummy message as statement 1.           0970
  %                                                                0971
setting attributes and fields in the sendmail work file           0972
  (jsetfield) [U] %set the specified field to the
  specified value%                                              0973
  (field, value)                                                0974
  CASE field OF                                                  0975
    =$action:                                                    0976
    =$authors:                                                  0977
    =$branch, =$plex, =$group:                                  0978

```

```

=$comment: 0979
=$expedite: 0980
=$file: %number% 0981
=$hardcopy: 0982
=$information: 0983
=$insert: %link% 0984
=$keywords: 0985
=$number: 0986
=$obsoletes: 0987
=$private: 0988
=$public: 0989
=$rfc: 0990
=$statement: 0991
=$subcollections: 0992
=$title: 0993
=$unrecorded: 0994
=$update: 0995
ENDCASE 0996
% DOCUMENTATION FOR setj routines: 0997
  These routines are used to set values of fields in the Journal
  header statement in JWORK file. 0998
  They assume JWP1 is set up to point to the first character of
  the origin statement of the JWORK file and are, in general,
  called with a single parameter, the address of a STRING which
  contains the value to which the field is to be set. 0999
  They subsequently search the header statement for the field [or
  the proper location of the field if the field is optional and
  non-present], and replace the existing field with the string
  [or create the field if necessary]. 01000
  Where there are a number of optional fields immediately
  adjacent to each other, the search algorithm uses a list of
  alternatives, searching for the first preceding field first,
  and if that fails, the second preceding field, and if that
  fails..... 01001
  Setj routines which do unusual things will be separately
  documented. 01002
% 01003
(setjauthor) [U] %set the author field of JWORK file%
PROCEDURE (authorstr); 01004
(setjaction) [U] %set Action Distribution field in JWORK header%
PROCEDURE (recipientstr); 01005
(setjaxcess) [U] %set the access list field in JWORK header%
PROCEDURE (accessstr); 01006
(setjinfo) [U] %set Information Distribution field in JWORK
header%
PROCEDURE (recipientstr); 01007
(setjcomment) [U] %set Comment field in JWORK header%
PROCEDURE (commentstr); 01008
(setjexpedite) [U] %set or clear expedite attribute in JWORK
header%
PROCEDURE (onoff); 01009
(setjnumber) [U] %set the contents of the Number field in the
JWURK header%
PROCEDURE (numberstr); 01010
(setjkeyword) [U] %set keywords field in JWORK header%
PROCEDURE (keywordstr); 01011

```

```

(setjlink) [U] %set INSERT LINK (**FIX THIS**) field in JWORK
header%
PROCEDURE (keywordstr);                                01012
(setjrfc) [U] %set RFC field in JWORK header%
PROCEDURE (rfcstr);                                    01013
(setjsource) [U] %set source type and content in JWORK header%
PROCEDURE (sourcetype, s1, s2);                        01014
(setjsubcol) [U] %set Sub-Collections field in JWORK header%
PROCEDURE (subcollstr);                                01015
(setjobsolates) [U] %set Obsolete Document(s) field in JWORK
header%
PROCEDURE (obsoletestr);                                01016
(setjunrecorded) [U] %set or clear UNRECORDED attribute in JWORK
heade % PROCEDURE (onoff);                              01017
(setjupdates) [U] %set Updates Document(s) field in JWORK header%
PROCEDURE (updatestr);                                01018
(setjtitle) [U] %set Title field in JWORK header%
PROCEDURE (titlestr);                                  01019
(setcacc) [U] %set access field in catalog entry%
PROCEDURE (entrystid, repstr, ptr1, ptr2);            01020
sending the mail                                       01021
(jsubmit) [U] %do the Journal submission or secondary
distribution%
PROCEDURE;                                             01022
forwarding mail                                       01023
(xjforward) [U] (nls,pssendmail,xjforward) 2M        01024
(jnumber,ids)                                         01025
Forward Journal document to new ids                   01026
processing command forms                              01027
(xjprocess) [U] (nls,pssendmail,xjprocess) 2J        01028
(destination)                                         01029
process command form pointed to by STID destination  01030
reading fields/attributes of a sendmail work file    01031
(jstatus) [U] %generate a submission status string%
PROCEDURE (statusstring);                              01032
(xjinsstatus) [U] (nls,pssendmail,xjinsstatus)       01033
(destination,level)                                   01034
Insert Status of submission form at DESTINATION with level
adjustment LEVEL.                                     01035
*                                                       01036
This is a set of routines which return values of fields in the
Journal header . Generally, they assume jwp1 is a pointer to the
first character of the statement containing the header, and search
that statement for the presence of the field. If the field is not
found, the string address is set to NULL. Otherwise, the contents
of the field is copied into the passed string, and its address is
returned. In cases where the getj routines do unusual things,
they are documented separately                          01037
*                                                       01038
(getjaction) [U] %get the contents of the Action Distribution
field from the JWORK header%
PROCEDURE (string);                                    01039
(getjauthor) [U] %get the contents of the Author field from the
JWORK header%
PRCCEDURE (string);                                    01040
(getjaxcess) [U] %get the contents of the Access List field

```



```

from the JWORK header%
PROCEDURE (string);                                01041
(getjclerk) [U] %get the contents of the Clerk field from the
JWORK header%
PROCEDURE (string);                                01042
(getjcomment) [U] %get the contents of the Comment field from
the JWORK header%
PROCEDURE (string);                                01043
(getjexpedite) [U] %get the Expedite attribute from the JWORK
header%
PROCEDURE (string);                                01044
(getjunrecorded) [U] %get the Unrecorded attribute from the
JWORK header%
PROCEDURE (string);                                01045
(getjhcloc) [U] %get the contents of the Hard Copy Location
field from the JWORK header%
PROCEDURE (string);                                01046
(getjinfo) [U] %get the contents of the Information-only
Distribution field from the JWORK header%
PROCEDURE (string);                                01047
(getjlink) [U] %get the contents of the Insert Link field from
the JWORK header%
PROCEDURE (string);                                01048
(getjkeyw) [U] %get the contents of the Keywords field from the
JWORK header%
PROCEDURE (string);                                01049
(getjnumber) [U] %get the contents of the Number field from the
JWORK header%
PROCEDURE (string);                                01050
(getjtype) [U] %get the TYPE of the item from the JWORK header%
PROCEDURE (string);                                01051
(getjobsolates) [U] %get the contents of the Obsoletes
Documents field from the JWORK header%
PROCEDURE (string);                                01052
(getjrffc) [U] %get the contents of the RFC field from the JWORK
header%
PROCEDURE (string);                                01053
(getjsubcol) [U] %get the contents of the Sub-Collections field
from the JWORK header%
PROCEDURE (string);                                01054
(galjsubcol) [U] PROCEDURE(string, idfnum);        01055
(getjtitle) [U] %get the contents of the Title field from the
JWORK header%
PROCEDURE (string);                                01056
(getjupdates) [U] %get the contents of the Updates Documents
field from the JWORK header%
PROCEDURE (string);                                01057
reserving numbers numbers                          01058
(xjreserve) [U] (nls,pssendmail,xjreserve)         01059
  (type,numb,insertloc)                            01060
  reserve numbers                                   01061
(xjrffcreserve) [U] (nls,pssendmail,xjrffcreserve) 01062
  (titlestr,authstr,sendto,onlineflag,insertloc)  01063
  reserve an RFC and a Catalog numstr              01064
(xjrffcsho) [U] (nls,pssendmail,xjrffcsho)         01065
  (titlestr,authstr,sendto,onlineflag)            01066

```

```

    show status of RFC reserve requestr          01067
closing a sendmail work file                    01068
    (xjcloworfil) [U] (nls,psendmail,xjcloworfil) 01069
    no formal parameters                        01070
    close sendmail work file                   01071
calculator routines                             01072
    (qcadd) [U] (nls,ccalc,qcadd)              01073
    (ar,ma)                                    01074
    qfloating add ar + ma, result to ar       01075
    (qcsb) [U] (nls,ccalc,qcsb)              01076
    (ar,ma)                                    01077
    qfloating subtract ar - ma, result to ar  01078
    (qcmult) [U] (nls,ccalc,qcmult)          01079
    (ar,ma)                                    01080
    qfloating multiply ar * ma, result to ar  01081
    (qcdiv) [U] (nls,ccalc,qcdiv)           01082
    (ar,ma)                                    01083
    call divide and replace accum with quo    01084
    (qcdivw) [U] (nls,ccalc,qcdivw)         01085
    (ar,ma,quo)                                01086
    divide ar by ma, result in quo           01087
    (qcneg) [U] (nls,ccalc,qcneg)          01088
    (ar)                                        01089
    floating negate double precision of ar, result in ar 01090
    (xceval) [U] (nls,pscalc,xceval)        01091
    (result,parsemode,param)                 01092
    Calculate value of an expression          01093
    (qfloat) [U] (nls,ccalc,qfloat)         01094
    (ar,ch)                                    01095
    qfloat ch (ascii char from 0-9)          01096
    (qfloutp) [U] (nls,ccalc,qfloutp)       01097
    (ar,os,whence)                            01098
    qfloating output a value at address ar to string at address os 01099
    (nfloat) [U] (nls,ccalc,nfloat)         01100
    (instrng,f11,f12)                         01101
    convert char - dp                         01102
    (qcins) [U] (nls,ccalc,qcins)          01103
    (cfloat,opstring)                        01104
    insert value                              01105
ident system                                    01106
    reading attributes and fields from an ident record [U] 01107
    (idstatus) [U] %generate status string for an entry%
    PROCEDURE (idstr, entrystr, typid, statstr); 01108
    idstr: string containing ident.           01109
    entrystr: string containing ident record. 01110
    typid: one of the following: indtyp, grptyp, orgtyp for an
    individual, a group, and an organization, respectively. 01111
    statstr: string to contain status.        01112
    (shoifield) [U] (nls,psident,shoifield) 01113
    (fieldname)                              01114
    show the specified fieldname of current record (the one loaded
    with xiloadrecord). fields are the following: 01115
    =$approve:                               01116
    =$capabilities:                          01117
    =$coordinator:                           01118

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=$comment: 01119
=$delivery: 01120
=$expand: 01121
=$function: 01122
=$groups: 01123
=$ident: 01124
=$usadd: %U.S. Mail address% 01125
=$netadd: %Network Mail address% 01126
=$nethost: %Network Mail address% 01127
=$nlsadd: %NLS Mail address% 01128
=$nls host: %NLS Mail address% 01129
=$name: 01130
=$membership: 01131
=$organization: 01132
=$phone: 01133
=$rtype: %record type% 01134
=$secondary: %organization% 01135
=$subcollections: 01136
=$type: %of organization% 01137
(getiid) [U] %get IDENT field from an ident entry%
PROCEDURE (entrystr, fldstr, ptr1, ptr2); 01138
(getiadd) [U] %get MAIL ADDRESS field from an ident entry%
PROCEDURE (entrystr, fldstr, ptr1, ptr2); 01139
(getinam) [U] %get NAME field from an ident entry%
PROCEDURE (entrystr, fldstr, ptr1, ptr2); 01140
(getifnf) [U] %get NAME field (FIRST NAME FIRST) field from an
individual ident entry%
PROCEDURE (entrystr, fldstr); %first name first% 01141
(getilname) [U] %get LAST NAME field from an individual ident
entry%
PROCEDURE (entrystr, fldstr, ptr1, ptr2); 01142
(getiorg) [U] %get ORGANIZATION field from an individual ident
entry%
PROCEDURE (entrystr, fldstr, ptr1, ptr2); 01143
(getiexp) [U] %get EXPAND field from an ident entry%
PROCEDURE (entrystr, fldstr, ptr1, ptr2); 01144
(getimem) [U] %get MEMBERSHIP field from a group/organization
ident entry%
PROCEDURE (entrystr, fldstr, ptr1, ptr2); 01145
(getiprevmem) [U] %get MEMBERSHIPPREVIOUS field from an ident
entry%
PROCEDURE (entrystr, fldstr, ptr1, ptr2); 01146
(geticord) [U] %get COORDINATOR field from a group/organization
ident entry%
PROCEDURE (entrystr, fldstr, ptr1, ptr2); 01147
(getityp) [U] %get TYPE-OF-ORGANIZATION field from an organization
ident entry%
PROCEDURE (entrystr, fldstr, ptr1, ptr2); 01148
(getiverify) [U] %get VERIFIED-BY-NIC-PERSONNEL field from an
ident entry%
PROCEDURE (entrystr, fldstr, ptr1, ptr2); 01149
(getiuser) [U] %get USER (NLS delivery) field from an ident entry%
PROCEDURE (entrystr, fldstr, ptr1, ptr2); 01150
(getigrps) [U] %get GROUPS field from an ident entry%
PROCEDURE (entrystr, fldstr, ptr1, ptr2); 01151
(getiphone) [U] %get PHONE field from an ident entry%

```



```

      =stype: %of organization%                                01190
(setiid) [U] %set IDENT field for an ident entry%
PROCEDURE (entrystr, repstr, ptr1, ptr2);                    01191
(setinam) [U] %set NAME field for an ident entry%
PROCEDURE (entrystr, repstr, ptr1, ptr2);                    01192
(setimem) [U] %set MEMBERSHIP field for a group/organization ident
entry%
PROCEDURE (entrystr, repstr, ptr1, ptr2);                    01193
(setiprevmem) [U] %set MEMBERSHIPPREVIOUS field for an ident
entry%
PROCEDURE (entrystr, repstr, ptr1, ptr2);                    01194
(setiexp) [U] %set EXPAND field for an ident entry%
PROCEDURE (entrystr, repstr, ptr1, ptr2);                    01195
(seticord) [U] %set COORDINATOR field for a group/organization
ident entry%
PROCEDURE (entrystr, repstr, ptr1, ptr2);                    01196
(setityp) [U] %set TYPE-OF-ORGANIZATION field for an organization
ident entry%
PROCEDURE (entrystr, repstr, ptr1, ptr2);                    01197
(setiadd) [U] %set MAIL ADDRESS field for an ident entry%
PROCEDURE (entrystr, repstr, ptr1, ptr2);                    01198
(setiorg) [U] %set ORGANIZATION field for an individual ident
entry%
PROCEDURE (entrystr, repstr, ptr1, ptr2);                    01199
(setiuser) [U] %set USER (NLS delivery) field for an ident entry%
PROCEDURE (entrystr, repstr, ptr1, ptr2);                    01200
(setigrps) [U] %set GROUPS field for an ident entry%
PROCEDURE (entrystr, repstr, ptr1, ptr2);                    01201
(setihost) [U] %set NET-DELIVERY HOST field for an ident entry%
PROCEDURE (entrystr, repstr, ptr1, ptr2);                    01202
(setinlhost) [U] %set NLS-DELIVERY HOST field for an ident entry%
PROCEDURE (entrystr, repstr, ptr1, ptr2);                    01203
(setinma) [U] %set NETWORK MAILBOX address field for an ident
entry%
PROCEDURE (entrystr, repstr, ptr1, ptr2); %Local Network Mailbox
Address%                                                       01204
(setiverify) [U] %set VERIFIED-BY-NIC-PERSONNEL field for an ident
entry%
PROCEDURE (entrystr, repstr, ptr1, ptr2);                    01205
(setiphone) [U] %set PHONE field for an ident entry%
PROCEDURE (entrystr, repstr, ptr1, ptr2);                    01206
(setifunction) [U] %set FUNCTION field for an ident entry%
PROCEDURE (entrystr, repstr, ptr1, ptr2);                    01207
(setisorg) [U] %set SECONDARY ORGANIZATION field for an ident
entry%
PROCEDURE (entrystr, repstr, ptr1, ptr2);                    01208
(seticapability) [U] %set CAPABILITIES field for an ident entry%
PROCEDURE (entrystr, repstr, ptr1, ptr2);                    01209
(setisubcol) [U] %set SUBCOLLECTIONS field for an ident entry%
PROCEDURE (entrystr, repstr, ptr1, ptr2);                    01210
(setidelivery) [U] %set DELIVERY-TYPES field for an ident entry%
PROCEDURE (entrystr, repstr, ptr1, ptr2);                    01211
(setimcmnts) [U] %set COMMENTS field for an ident entry%
PROCEDURE (entrystr, repstr, ptr1, ptr2);                    01212
updating/closing the master ident file                        01213
(upidfil) [U] (nls,cident,upidfil) 12A                       01214

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```

(idstr,infostr,fileno,doit) 01215
update add a new record to the master ident-file 01216
(modidfil) [U] %modify old record in the master ident-file%
PROCEDURE (idstr, infostr, fileno, doit); 01217
(xicloidfil) [U] (nls,psident,xicloidfil) 4 01218
(resultptr,parsemode) 01219
close Master Ident-File file 01220
loading an ident record 01221
(xiloadrecord) [U] (nls,psident,xiloadrecord) 23 01222
(resultptr,parsemode,param) 01223
load an old record 01224
loading the master ident file 01225
(xiloaidfil) [U] (nls,psident,xiloaidfil) 3 01226
(resultptr,parsemode) 01227
load Master Ident-File file 01228
inserting new ident records 01229
(newrec) [U] (nls,psident,newrec) 7 01230
(resultptr,parsemode) 01231
initialize current record, for adding new records to ident-file
01232
deleting old ident records 01233
(xidelete) [U] (nls,psident,xidelete) 20 01234
(resultptr,parsemode,recfield,which) 01235
delete members to membership list 01236
checking to see if an ident is used 01237
(ckident) [U] %validate an ident and fetch entry if desired%
PROCEDURE (identsr, retinfo, fileno); 01238
%This routine checks the validity of the ident in identsr, and
returns the information concerning that person from the systems
ident file in the retinfo string. If fileno is non-zero, it is
assumed to be the file number of the ident file...otherwise,
the ident file is opened% 01239
%If a valid ident, also returns the stid of the statement which
corresponds to the ident.% 01240
(olddid) [U] (nls,cident,olddid) 3D 01241
(identsr,fileno) 01242
check if an ident is already being used 01243
%this routine returns true if the ident passed is already in
use, false otherwise -- Much faster than ckident% 01244
(ckidlist) [U] %check if list of idents are already being used%
PROCEDURE (idlist, badidlist, fileno); 01245
%this routine assumes an identsr in IDLIST and returns with
IDLIST containing a list of valid (in use) Idents and appends
to BADIDLIST a list of those idents which are not now in use.%
01246
logical field values 01247
(idelivery) [U] %get LOGICAL DELIVERY TYPE(S) for an ident entry%
PROCEDURE (stid); 01248
%stid points to identification record. 01249
(iuser) [U] %get LOGICAL USER-NAME (for NLS delivery) for an ident
entry%
PROCEDURE (entrystr, fldstr, ptr1, ptr2); 01250
(igetsubcoll) [U] %get LOGICAL SUBCOLLECTIONS for an ident entry%
PROCEDURE (entrystr, fldstr, ptr1, ptr2); 01251
(iaddress) [U] %get LOGICAL U.S. MAIL ADDRESS for an ident entry%
PROCEDURE (entrystr, fldstr, ptr1, ptr2, fileno); 01252

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% Fileno is the file number of an open file in which the
address ident is checked; it is passed to ckident. If zero,
the identfile is used and opened. Entrystr is the address of
a string containing the text of the ident entry whose mailing
address is sought; fldstr is the address of a string into which
the mailing address is placed. ptr1 and ptr2 are either the
address of two text pointers which will delimit the mailing
address in the field string passed; they may be zero. The
procedure returns false if the address is not found. % 01253
%Get the mailing address, even if you have to go to another
ident for it -- New Version by WLB 5 July 1972; modified by HGL
18-DEC-73% 01254
(lmemlist) [U] %get LOGICAL MEMBERSHIP for a group/organization
ident%
PROCEDURE (entrystr, outlist, explist, noexplist, errorlist,
idfile); 01255
% Gets the logical membership list of a group or organization
-- i.e., expands membership list (recursively) until only
individual idents are present in list. This routine is
supposed to correctly handle expand/noexpand issues and also
will not loop in the event of circular references -- e.g.,
GRUPA is a member of GROUPE is a member of GROUPE is a member
of GROUPA -- isn't that a cute feature! 01256
searching the ident file 01257
(namesearch) [U] (nls,cident,namesearch) 13B 01258
(string,idstr,type,fileno) 01259
search and print routine 01260
ftp stuff (see user's guide [Location: (GJOURNAL, 23649, 1:w)] for use
or these procedures) [U] 01261
(ftpqml) (nls,ioexec,ftpqml) 01262
(locfile,user,host,stagingdir) 01263
queue mail for user 01264
(ftprem) (nls,ioexec,ftprem) 01265
read FTP-primitive error mode 01266
(ftpren) (nls,ioexec,ftpren) 01267
(curfile,newfile) 01268
rename distant file 01269
(ftproh) (nls,ioexec,ftproh) 01270
(host) 01271
read open host name and address 01272
(ftprtr) (nls,ioexec,ftprtr) 01273
(locfile,disfile,xfermode) 01274
retrieve file from distant system 01275
(ftpsdd) (nls,ioexec,ftpsdd) 01276
(directory) 01277
set distant default directory 01278
(ftpsem) (nls,ioexec,ftpsem) 01279
(mode) 01280
set FTP-primitive error mode 01281
(ftpsto) (nls,ioexec,ftpsto) 01282
(locfile,disfile,xfermode) 01283
send file to distant system 01284
(ftpvhst) (nls,ioexec,ftpvhst) 01285
(host) 01286
verify host 01287
(ftpapp) (nls,ioexec,ftpapp) 01288

```

(locfile,disfile,xfermode)	01289
append to file at distant system	01290
(ftpbgn) (nls,ioexec,ftpbgn)	01291
initialize for FTP activity	01292
(ftpcf) (nls,ioexec,ftpcf)	01293
(op,count,param1,param2)	01294
invoke FTP inferior fork	01295
(ftpcis) (nls,ioexec,ftpcis)	01296
close distant file system	01297
(ftpcrt) (nls,ioexec,ftpcrt)	01298
create FTP inferior fork	01299
(ftpdel) (nls,ioexec,ftpdel)	01300
(disfile)	01301
delete distant file	01302
(ftpdir) (nls,ioexec,ftpdir)	01303
(locfile,remmsg)	01304
retrieve distant directory listing	01305
(ftpdml) (nls,ioexec,ftpdml)	01306
(locfile,user)	01307
send mail to distant user	01308
(ftpelim) (nls,ioexec,ftpelim)	01309
(locfile)	01310
eliminate local file	01311
(ftpend) (nls,ioexec,ftpend)	01312
end of FTP activity	01313
(ftperr) (nls,ioexec,ftperr)	01314
(msg)	01315
dispatch FTP error	01316
(ftpex) (nls,ioexec,ftpex)	01317
(op,count,param1,param2,param3,param4,param5,param6)	01318
execute FTPFRK operation	01319
(ftpfml) (nls,ioexec,ftpfml)	01320
(locfile,author,authorhost,title,header,msg)	01321
format mail	01322
(ftpgts) (nls,ioexec,ftpgts)	01323
(string,addr)	01324
convert ASCIZ to NLS string	01325
(ftpkil) (nls,ioexec,ftpkil)	01326
kill FTP inferior fork	01327
(ftplml) (nls,ioexec,ftplml)	01328
(locfile,user)	01329
send mail to local user	01330
(ftplog) (nls,ioexec,ftplog)	01331
(user,pass,acct)	01332
login at distant system	01333
(ftpopn) (nls,ioexec,ftpopn)	01334
(host)	01335
open distant file system	01336
(ftppts) (nls,ioexec,ftppts)	01337
(string,addr)	01338
convert NLS to ASCIZ string	01339
user profile [U]	01340
setting/resetting user profile attributes	01341
(uotabs) (nls,psuserop,uotabs)	01342
(tabstr)	01343
parse user string and set tabs	01344

(uotblget) (nls,psuserop,uotblget)	01345
get a "free" entry in "cctbl"	01346
(uorescont) (nls,psuserop,uorescont)	01347
reset nonstandard ctrlchar table	01348
(uoreset) (nls,psuserop,uoreset)	01349
reset all user options	01350
(xuolevel) (nls,psuserop,xuolevel)	01351
(resultptr,parsemode,param)	01352
set ask for level adjust ON/OFF	01353
(xuoprint) (nls,psuserop,xuoprint)	01354
(resultptr,parsemode,type,param)	01355
set print parameters	01356
(xuoviewspecs) (nls,psuserop,xuoviewspecs)	01357
(resultptr,parsemode,param,vs)	01358
set standard viewspecs	01359
(xuocontchars) (nls,psuserop,xuocontchars)	01360
(resultptr,parsemode,dev,cc,char,echo)	01361
set control characters for specified device	01362
(xuocurcon) (nls,psuserop,xuocurcon)	01363
(resultptr,parsemode,numbr)	01364
set current context length	01365
(xuofeedback) (nls,psuserop,xuofeedback)	01366
(resultptr,parsemode,type,param)	01367
set feedback mode, etc	01368
(xuoheerald) (nls,psuserop,xuoheerald)	01369
(resultptr,parsemode,type,param)	01370
set herald	01371
(xuoprompt) (nls,psuserop,xuoprompt)	01372
(resultptr,parsemode,type)	01373
set prompt mode	01374
(xuorecognition) (nls,psuserop,xuorecognition)	01375
(resultptr,parsemode,param,param2)	01376
set recognition mode	01377
(xuoreset) (nls,psuserop,xuoreset)	01378
(resultptr,parsemode,param1,param2)	01379
reset user options	01380
(xuringsize) (nls,psuserop,xuringsize)	01381
(resultptr,parsemode,type,param)	01382
set return ring size	01383
reading user profile attributes	01384
(uoshprint) (nls,psuserop,uoshprint)	01385
displays U-OP print option parameters	01386
(uoshreco) (nls,psuserop,uoshreco)	01387
displays U-OP recognition parameters	01388
(uoshrid) (nls,psuserop,uoshrid)	01389
displays U-OP herald parameters	01390
(uoshview) (nls,psuserop,uoshview)	01391
displays U-OP viewspecs	01392
(uoshcc) (nls,psuserop,uoshcc)	01393
(device)	01394
display control chars for specific terminal	01395
(uoshctrl) (nls,psuserop,uoshctrl)	01396
displays U-OP ctrlchar definitions	01397
(uoshcurc) (nls,psuserop,uoshcurc)	01398
displays U-OP current context length	01399
(uoshfeed) (nls,psuserop,uoshfeed)	01400

displays U-OP feedback paramters	01401
(uoshjmp) (nls,psuserop,uoshjmp)	01402
displays U-OP jump ring paramters	01403
(uoshlev) (nls,psuserop,uoshlev)	01404
displays U-OP level adjust prompting status	01405
(uoshow) (nls,psuserop,uoshow)	01406
show entire user options data	01407
(uoshpmt) (nls,psuserop,uoshpmt)	01408
displays U-OP prompt parameters	01409
(xuoshow) (nls,psuserop,xuoshow)	01410
(resultptr,parsemode,param1,param2)	01411
show user options	01412
accessing the user profile	01413
(uoaccess) (nls,psuserop,uoaccess)	01414
(pagno,access)	01415
sets the access to user options file	01416
(uoclose) (nls,psuserop,uoclose)	01417
close the user options file	01418
(uoget) (nls,psuserop,uoget)	01419
get the user profile page(s)	01420
frontend stuff [F]	01421
changing the file location that is being viewed in a file window	01422
(xjump) [U] [F] (nls,psedit,xjump)	01423
(result,parsemode,entity,destination,vs)	01424
Execute Jump Command	01425
(xlinefeed) [U] [F] (nls,psedit,xlinefeed)	01426
(resultptr,parsemode)	01427
interpreter parsing mode	01428
(xuparrow) [U] [F] (nls,psedit,xuparrow)	01429
(resultptr,parsemode)	01430
interpreter parsing mode	01431
(xtab) [U] [F] (nls,psedit,xtab)	01432
(resultptr,parsemode)	01433
interpreter parsing mode	01434
(cmdfinish) [L] [F] (nls,parser,cmdfinish)	01435
(freflnt) [L] [F] (nls,frontend,freflnt)	01436
free and close files for files in file status table	01437
control window manipulation	01438
(fbctl) [U] [F] (nls,parser,fbctl) 6C1	01439
(function,p1)	01440
feedback control routine	01441
(dsubsys) [L] [F] (nls,inpfbk,dsubsys) 9F1	01442
(astrng)	01443
display in subsystem area	01444
(delbm) [L] [F] (nls,inpfbk,delbm) 9A3	01445
turn the most recent bug mark off	01446
(bmoff) [L] [F] (nls,inpfbk,bmoff) 9A2	01447
remove all bug marks	01448
(sethrid) [L] [F] (nls,parser,sethrid) 4H	01449
(strptr)	01450
ptr to herald name string	01451
(dspvsp) [L] [F] (nls,inpfbk,dspvsp) 9D1	01452
(vspecl,vspec2,which)	01453
=1 -- LT "numbers". = 2 -- view specs, =3 -- both	01454
(dn) [L] [F] (nls,inpfbk,dn) 9E1	01455

(astrng)		01456
display string in name area		01457
(qmoft) [L] [F] (nls,inpfbk,qmoft) 9G3B		01458
turn the "? off.		01459
(ltl) [L] [F] (nls,inpfbk,ltl) 9D2		01460
set LT viewspec area large		01461
(lts) [L] [F] (nls,inpfbk,lts) 9D3		01462
set LT viewspec area small		01463
(clrseqda) [L] [F] (nls,inpfbk,clrseqda)		01464
(daid)		01465
clear sequential display area		01466
file window manipulation [F]		01467
(alocda) [L] [F] (nls,dspgen,alocda)		01468
(da)		01469
allocate a display area		01470
(dealocda) [L] [F] (nls,dspgen,dealocda)		01471
(dsparea) [U] [F] (nls,frontend,dsparea)		01472
(dano)		01473
get window record address from window number -- returns zero if		
window is not allocated		01474
(hsplit) [U] [F] (nls,frontend,hsplit)		01475
(top,cords1,cords2)		01476
split window horizontally		01477
(vsplit) [U] [F] (nls,frontend,vsplit)		01478
(left,cords1,cords2)		01479
split window vertically		01480
(movbndry) [U] [F] (nls,frontend,movbndry)		01481
(dal,ocords,ncords,type)		01482
move window boundary		01483
(boundry) [U] [F] (nls,frontend,boundry)		01484
(dacords)		01485
find nearest window boundry		01486
(findda) [U] [F] (nls,frontend,findda)		01487
(dacords)		01488
find the window which contains the passed cordinates		01489
(lccsp) [U] [F] (nls,frontend,lccsp)		01490
find Current Statement Pointer (CSP) for the window containing		
the cursor during the last input control char		01491
(lcda) [U] [F] (nls,frontend,lcda)		01492
find the window containing the cursor during the last input		
control character		01493
(lcfile) [U] [F] (nls,frontend,lcfile)		01494
find the file represented in the window containing the cursor		
during the last input control char		01495
(lda) [U] [F] (nls,frontend,lda)		01496
returns address of Display Area descriptor for the display		
area where the cursor was the Last time a character was input		01497
(lccords) [U] [F] (nls,frontend,lccords)		01498
get coordinates associated with last control character input		01499
(pbug) [L] [F] (nls,inpfbk,pbug)		01500
(cordinates)		01501
process a bug selection		01502
(fndchr) [L] [F] (nls,inpfbk,fndchr)		01503
(da,xcrdnt,ycrdnt)		01504

find character position	01505
(markit) [U] [F] (nls,inpfbk,markit)	01506
(da,xcrd,ycrd)	01507
(newda) [L] [F] (nls,frontend,newda)	01508
allocate new window	01509
(delda) [L] [F] (nls,frontend,delda)	01510
delete display area whose address is passed	01511
(clearda) [U] [F] (nls,dspgen,clearda)	01512
(da)	01513
clear display area	01514
(supda) [U] [F] (nls,dspgen,supda)	01515
(da)	01516
suppress display area	01517
(resda) [U] [F] (nls,dspgen,resda)	01518
(da)	01519
restore display area	01520
(clrall) [L] [F] (nls,dspgen,clrall)	01521
(da,free)	01522
reset LSRT entries for the da	01523
formatting	01524
(dafrmt) [U] [F] (nls,dspgen,dafrmt)	01525
(da,oldsw)	01526
display area formatter	01527
(daupdate) [U] [F] (nls,dspgen,daupdate)	01528
(da)	01529
update display area image	01530
(cprigro) [U] [F] (nls,credit,cprigro)	01531
(stid1,stid2,vs,da)	01532
Core NLS Print Group command	01533
(cprista) [U] [F] (nls,credit,cprista)	01534
(stid,vs,da)	01535
Core NLS Print Statement command	01536
(cprires) [U] [F] (nls,credit,cprires)	01537
(stid,da)	01538
Core NLS Print Rest command	01539
(recred) [U] [F] (nls,frontend,recred)	01540
(seldsp) [U] [F] (nls,frontend,seldsp)	01541
selective display recreate control	01542
(alldsp) [U] [F] (nls,frontend,alldsp)	01543
total display recreate control	01544
(filusd) [L] [F] (nls,frontend,filusd)	01545
(fileno,da)	01546
Given a file number and the address of a display area, this routine returns TRUE if the file is used in the frozen list or csp associated with the display area; otherwise it returns FALSE.	01547
input/output	01548
input	01549
(input) [F] [U] (nls,inpfbk,input)	01550
character input (TYPEWRITER or DISPLAY)	01551
(inpcuc) [F] [U] (nls,inpfbk,inpcuc)	01552
input a character, force upper case	01553
(lookc) [F] [U] (nls,inpfbk,lookc)	01554
look at a character	01555
(rdlit) [F] [U] (nls,inpfbk,rdlit)	01556
(astrng,chrst)	01557

read literal from keyboard	01558
(unput) [F] [U] (nls,inpfbk,unput)	01559
undo the effect of the last call to input	01560
(getchar) [F] [L] (nls,inpfbk,getchar)	01561
get an untranslated character from user	01562
(initbtbl) [F] [L] (nls,inpfbk,initbtbl)	01563
initializes the global array SYSBREAKTBL to contain appropriate addresses for RDLIT. This routine should be called after modifying the input translation table TRNSLI.	
output	01564
(typeas) [F] [U] (nls,auxcod,typeas)	01565
(astrng)	01566
Type a-string on tty	01567
(typech) [F] [U] (nls,auxcod,typech)	01568
(char)	01569
type (translated) character on tty	01570
(crlf) [F] [U] creating (nls,auxcod,crlf)	01571
type a carriage return-line feed	01572
(typebuff) [F] [L] (nls,inpfbk,typebuff)	01573
Type out the contents of the look ahead input buffer	01574
(typectl) [F] [L] (nls,inpfbk,typectl)	01575
(char)	01576
type (translated) character on tty - prints special chars	01577
	01578
clear input/output buffer	01579
(clrbuf) [F] [L] (nls,coresupport,clrbuf)	01580
(outflg)	01581
clear the todas input and (optionally) output	01582
set echoing	01583
(isechon) [F] [L] (nls,inpfbk,isechon)	01584
returns true if echoing on	01585
(echoff) [F] [L] (nls,inpfbk,echoff)	01586
no echo for any character; break on all characters	01587
(echolt) [F] [L] (nls,inpfbk,echolt)	01588
echo all characters(immediate or deferred), break on all but alpha-numeric	01589
(echon) [F] [L] (nls,inpfbk,echon)	01590
echo each character with itself; each character is a break character	01591
file / statement return rings [L] [F]	01592
(newfrring) [L] [F] (nls,frontend,newfrring)	01593
(size)	01594
allocate a new file return ring	01595
(freefrring) [L] [F] (nls,frontend,freefrring)	01596
(frr)	01597
free file return ring	01598
(frrlength) [L] [F] (nls,frontend,frrlength)	01599
(frr)	01600
return number of entries in the file return ring.	01601
(readfrring) [L] [F] (nls,frontend,readfrring)	01602
(frr,index)	01603
Read file return ring entry.	01604
(pushfrring) [L] [F] (nls,frontend,pushfrring)	01605
(frr,filename,fileno)	01606
push file return ring	01607

(cshofrring) [L] [F] (nls,credit,cshofrring)	01608
(da,astrng)	01609
Core NLS Show Status of File Return Ring	01610
(newsrring) [L] [F] (nls,frontend,newsrring)	01611
(size)	01612
allocate a new statement return ring	01613
(freesrring) [L] [F] (nls,frontend,freesrring)	01614
(srr)	01615
free statement return ring	01616
(srrlength) [L] [F] (nls,frontend,srrlength)	01617
(srr)	01618
return number of entries in statement return ring.	01619
(readsrring) [L] [F] (nls,frontend,readsrring)	01620
(srr,index)	01621
Read statement return ring entry.	01622
(pushsrring) [L] [F] (nls,frontend,pushsrring)	01623
(srr,stid,cc,vs1,vs2)	01624
push contents onto statement return ring	01625
(storesrring) [L] [F] (nls,frontend,storesrring)	01626
(srr,index,stid,cc,vs1,vs2)	01627
store contents onto statement return ring. INDEX has the same semantics as in readsrring.	01628
abort a command (as if user typed CD)	01629
(abort) [U] [F] (nls,psident,abort)	01630
(resultptr,parsemode)	01631
abort current command specification	01632
frozen statement support [F]	01633
(frzchk) [L] [F] (nls,frontend,frzchk) 5D	01634
(da,file1,file2)	01635
check frozen chain for file membership	01636
(xfresta) [U] [F] (nls,frontend,xfresta) 7C	01637
(dpa,stid,vspec1,vspec2)	01638
Given the address of a display area, an stid, and two	01639
(xrelallsta) [U] [F] (nls,frontend,xrelallsta) 7B	01640
(dpa)	01641
Given the address of a display area, this routine will	01642
(xrelsta) [U] [F] (nls,frontend,xrelsta) 7A	01643
(dpa,stid)	01644
This routine searches the chain of frozen statements.	01645
simulating terminals	01646
(xsimdev) [U] [F] (nls,frontend,xsimdev) 8A	01647
(da,devicetype,modetype)	01648
Execute simulate Device Command	01649
subsystem stack	01650
(xsubcurrent) [U] [F] (nls,pssystem,xsubcurrent)	01651
(resultptr,parsemode)	01652
parsing mode	01653
(xsublist) [U] [F] (nls,pssystem,xsublist)	01654
(resultptr,parsemode)	01655
parsing mode	01656
subsys maintenance	01657
delete subsystem	01658
(delsubsys) [U] (nls,parser,delsubsys) 4E	01659
(dptptr)	01660
ptr to subsystem dispatch record (this is the symbolic name which appears on the SUBSYSTEM statement of the CML	

definition of the subsystem	01661
abort a subsystem	01662
(aborts subsystem) [U] (nls, pssystem, aborts subsystem) 3E	01663
(errstrptr)	01664
ptr to diagnostic string	01665
showing the current location of the CM (Control Marker)	01666
(ccurloc) [U] [F] (nls, cedit, ccurloc)	01667
(tptr, string)	01668
Core NLS Current Location in File Command	01669
(ccurcon) [U] [F] (nls, cedit, ccurcon)	01670
(tptr, string)	01671
Core NLS Current Context in File Command	01672
covering viewspec words to status string	01673
(xshoviespe) [U] [F] (nls, psedit, xshoviespe)	01674
(da, string)	01675
connecting terminals together	01676
(xdisconnect) [U] [F] (nls, frontend, xdisconnect)	01677
no formals	01678
Execute Disconnect terminals Command	01679
(xconnect) [U] [F] (nls, frontend, xconnect)	01680
(entity, destination, parameters)	01681
Execute Connect Command	01682
(xaccept) [U] [F]	01683
(destination, parameters)	01684
(xconterm) [U] [F] (nls, frontend, xconterm)	01685
(console, inout)	01686
Connect TTY Command	01687
delimiter routines	01688
(idr) [U] [F] (nls, select, idr)	01689
(bug, ptr1, ptr2)	01690
GET LIST FROM SELECT	01691
(ldr) [U] [F] (nls, select, ldr)	01692
(bug, ptr1, ptr2)	01693
(nldr) [U] [F] (nls, select, nldr)	01694
(bug, ptr1, ptr2)	01695
verify number	01696
(nmdr) [U] [F] (nls, select, nmdr)	01697
(bug, ptr1, ptr2)	01698
statement name (and statement number) delimiter	01699
(tdr) [U] [F] (nls, select, tdr)	01700
(bug1, bug2, ptr1, ptr2)	01701
(vdr) [U] [F] (nls, select, vdr)	01702
(bug, ptr1, ptr2)	01703
(wdr) [U] [F] (nls, select, wdr)	01704
(bug, ptr1, ptr2)	01705
This procedure delimits a "WORD" given a pointer to a character in a string. The pointers PTR1 and PTR2 are set to the first and last characters, respectively, of the word.	01706
(cdr) [U] [F] (nls, select, cdr)	01707
(bug, ptr1, ptr2)	01708
This procedure delimits a character given a pointer to a character in a string. The pointers PTR1 and PTR2 are set to the character. This routine exist principally for consistency.	01709
tabs	01710
(fndtab) [U] [F] (nls, inpfbk, fndtab)	01711

(da,column)	01712
find new tab position	01713
(setabs) [U] [F] (nls,intnls,setabs)	01714
(tabtbl)	01715
new bit table version of settabs	01716
(bildtabwrds) [L] [F] (nls,psuserop,bildtabwrds)	01717
(array,tbl)	01718
builds 3word tab table	01719
comment echoing	01720
(xcomment) [L] [F] (nls,frontend,xcomment)	01721
(resultptr,parsemode)	01722
interpreter parsing mode	01723
setting up user programs as sequence generators or content filters	
	01724
(dinstupg) (nls,usrpgm,dinstupg)	01725
(pgmaddr)	01726
Deinstitute a program	01727
Line Processor primitives [L] [F]	01728
(position) [L] [F] (nls,dspgen,position)	01729
(xpos,ypos)	01730
position cursor - alphanumeric displays	01731
(track) [L] [F] (nls,dspgen,track)	01732
resume tracking - alphanumeric displays	01733
(cscreen) [L] [F] (nls,dspgen,cscreen)	01734
clear screen - alphanumeric displays	01735
(lprset) [L] [F] (nls,dspgen,lprset)	01736
reset alphanumeric displays	01737
(cline) [L] [F] (nls,dspgen,cline)	01738
(x,y,nchar)	01739
write blanks - alphanumeric displays	01740
(dline) [L] [F] (nls,dspgen,dline)	01741
(x,y)	01742
delete line - alphanumeric displays	01743
(inline) [L] [F] (nls,dspgen,inline)	01744
(x,y,string,standoutflag)	01745
insert line - alphanumeric displays	01746
(lpdspstr) [L] [F] (nls,dspgen,lpdspstr)	01747
(x,y,string,standoutflag)	01748
display the specified string at specified location on a line processor alpha-numeric display. IF x = current then use current position of cursor. If standoutflag is TRUE then the string to standout	01749
(lpttywindow) [L] [F] (nls,dspgen,lpttywindow)	01750
(top,bottom)	01751
specify tty window - alphanumeric displays	01752
(lppopmark) [L] [F] (nls,dspgen,lppopmark)	01753
pop bug selection mark - alphanumeric displays	01754
(lpmarkit) [L] [F] (nls,dspgen,lpmarkit)	01755
(xpos,ypos)	01756
bug selection mark - alphanumeric displays	01757
(pad) [L] [F] (nls,dspgen,pad)	01758
(count)	01759
pad with count null characters	01760
(standout) [L] [F] (nls,dspgen,standout)	01761
Send stand out following characters command - alphanumeric displays	01762

(endstandout) [L] [F] (nls,dspgen,endstandout)	01763
Send end stand out command - alphanumeric displays	01764
(intter) [L] [F] (nls,dspgen,intter) 7M	01765
interrogate alphanumeric displays	01766
(lpcmode) [L] [F] PROCEDURE; % set Lineprocessor to coordinate mode %	01767
maintaining the correspondance list	01768
(clist) [L] [F] (nls,psupport,clist)	01769
(type,fno1,fno2)	01770
build clist	01771
(clupdt) [L] [F] (nls,psupport,clupdt)	01772
unbuild clist	01773
(upctbl) [L] [F] (nls,filmnp,upctbl)	01774
(oldsid,rplsid,newsid)	01775
Given three stid's, this routine will update occurrences of the first stid, using rplsid as the stid that contains the text corresponding to oldsid, and newsid as the stid that is the replacement for oldsid. (rplsid should be endfil if the original text has been eliminated.)	01776
setting guidelines for subsequent reformatting	01777
(dpset) [U] [F] (nls,psupport,dpset)	01778
(option,stid1,stid2,stopstid)	01779
set global variables for recreate display routines. In some cases, stid1 and stid2 are passed merely to indicate file involvement, not because they will be reformatted.	01780
(dpstp) [U] [F] (nls,psupport,dpstp)	01781
(stid)	01782
called by text editing control routines to accept the stid of a bugged statement as inpt and return an appropriate stid for the display parameter CDSTOP (an stid on the same level or higher which appears after "stid" in the file).	01783
creating tty window	01784
(ttywindow) [F] [U] (nls,intnls,ttywindow)	01785
(da)	01786
make a da a tty window	01787
setting up/shuting down nls display	01788
(initdis) [L] [F] (nls,intnls,initdis)	01789
(shutdis) [L] [F] (nls,auxcod,shutdis) 4M	01790
shut down display before leave NLS	01791
viewspec support	01792
(curvsp) [U] [F] (nls,frontend,curvsp) 6A	01793
(vspec,astrng)	01794
address of string to append string	01795
(feedlt) [U] [F] (nls,prmspc,feedlt) 9D	01796
(dpa,astrng)	01797
Given the address of a display area, this routine changes	01798
(setlt) [L] [F] (nls,prmspc,setlt) 9E	01799
(setchr,vs1,vs2)	01800
This routine adjusts the viewspecs in accord with characters entered during view specification. Saves the viewspec words on the stack savevspecfor each character input. when a BC is input the stack is popped. The string being displayed in the name area is updated accordingly.	01801
using the literal area for status messages	01802
(clearlit) [L] [F] (nls,inpfbk,clearlit) 9H2	01803
Clear literal area	01804

(littty) [U] [F] (nls,inpfbk,littty) 9H7	01805
(astrng)	01806
Clear file text display windows and make lit area a tty window	01807
(litdpy) [U] [F] (nls,inpfbk,litdpy) 9H6	01808
(astrng)	01809
Clear file text display windows and display contents of string in literal area	01810
(rstlit) [U] [F] (nls,inpfbk,rstlit) 9H1	01811
reset the literal display area	01812
(setlit) [L] [F] (nls,inpfbk,setlit) 9H4	01813
set up for literal collection	01814
starting the TENEX EXEC or other forks under NLS	01815
(gofork) [U] [F] (nls,auxcod,gofork) 4N	01816
(prcnam,injfn,outjfn,ntiw)	01817
goto lower fork	01818
(xgoexec) [U] [F] (nls,pssystem,xgoexec) 4A	01819
goto exec command	01820
setting up for a particular terminal type	01821
(setdev) [L] [F] (nls,intnls,setdev) 6H	01822
(device)	01823
set up device dependent data for passed device	01824
setting up auxiliary input sources (other than the user)	01825
(auxinterminate) [U] [F] (nls,frontend,auxinterminate)	01826
terminate auxiliary input	01827
(auxstartup) [U] [F] (nls,frontend,auxstartup)	01828
(ptr1,ptr2)	01829
pointer to TP for end of auxiliary text	01830