```
NNN         NNN   CCCCCCCCCCC   PPPPPPPPPPP
NNN         NNN   CCCCCCCCCCC   PPPPPPPPPPP
NNN         NNN   CCCCCCCCCCC   PPPPPPPPPPP
NNN         NNN   CCC           PPP       PPP
NNN         NNN   CCC           PPP       PPP
NNN         NNN   CCC           PPP       PPP
NNNNNN      NNN   CCC           PPP       PPP
NNNNNN      NNN   CCC           PPP       PPP
NNNNNN      NNN   CCC           PPP       PPP
NNN    NNN  NNN   CCC           PPPPPPPPPPP
NNN    NNN  NNN   CCC           PPPPPPPPPPP
NNN    NNN  NNN   CCC           PPPPPPPPPPP
NNN    NNNNNN     CCC           PPP
NNN    NNNNNN     CCC           PPP
NNN    NNNNNN     CCC           PPP
NNN        NNN    CCC           PPP
NNN        NNN    CCC           PPP
NNN        NNN    CCC           PPP
NNN        NNN    CCCCCCCCCCC   PPP
NNN        NNN    CCCCCCCCCCC   PPP
NNN        NNN    CCCCCCCCCCC   PPP
```

FILEID**NCPSTACNO

```
NN      NN   CCCCCCCC  PPPPPPP       SSSSSSSS  TTTTTTTTTT    AAAAAA     CCCCCCCC  NN      NN   000000
NN      NN   CCCCCCCC  PPPPPPPP      SSSSSSSS  TTTTTTTTTT    AAAAAA     CCCCCCCC  NN      NN   000000
NN      NN   CC        PP      PP  SS              TT      AA      AA   CC        NN      NN  00      00
NN      NN   CC        PP      PP  SS              TT      AA      AA   CC        NN      NN  00      00
NNNN    NN   CC        PP      PP  SS              TT      AA      AA   CC        NNNN    NN  00      00
NNNN    NN   CC        PP      PP  SS              TT      AA      AA   CC        NNNN    NN  00      00
NN  NN  NN   CC        PPPPPPPP      SSSSSS        TT      AA      AA   CC        NN  NN  NN  00      00
NN  NN  NN   CC        PPPPPPPP      SSSSSS        TT      AA      AA   CC        NN  NN  NN  00      00
NN    NNNN   CC        PP                  SS      TT      AAAAAAAAAA   CC        NN    NNNN  00      00
NN    NNNN   CC        PP                  SS      TT      AAAAAAAAAA   CC        NN    NNNN  00      00
NN      NN   CC        PP                  SS      TT      AA      AA   CC        NN      NN  00      00
NN      NN   CC        PP                  SS      TT      AA      AA   CC        NN      NN  00      00
NN      NN   CCCCCCCC  PP        SSSSSSSS          TT      AA      AA   CCCCCCCC  NN      NN   000000   ....
NN      NN   CCCCCCCC  PP        SSSSSSSS          TT      AA      AA   CCCCCCCC  NN      NN   000000   ....

LL           IIIIII      SSSSSSSS
LL           IIIIII      SSSSSSSS
LL             II      SS
LL             II      SS
LL             II      SS
LL             II      SS
LL             II        SSSSSS
LL             II        SSSSSS
LL             II              SS
LL             II              SS
LL             II              SS
LL             II              SS
LLLLLLLLLL   IIIIII      SSSSSSSS
LLLLLLLLLL   IIIIII      SSSSSSSS
```

```
0001  0  %TITLE  'Clear/Purge Node Parse States and Data'
0002  0  MODULE NCPSTACNO (IDENT = 'V04-000', LIST(NOOBJECT)) =
0003  1  BEGIN
0004  1
0005  1
0006  1  !**************************************************************************
0007  1  !*                                                                        *
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0024  1  !*  SOFTWARE ON EQUIPMENT WHICH IS NOT SUPPLIED BY DIGITAL.               *
0025  1  !*                                                                        *
0026  1  !*                                                                        *
0027  1  !**************************************************************************
0028  1  !
0029  1
0030  1  !++
0031  1  ! FACILITY:      Network Control Program (NCP)
0032  1  !
0033  1  ! ABSTRACT:
0034  1  !
0035  1  !      States and data for the parsing of NCP clear and purge node command
0036  1  !
0037  1  ! ENVIRONMENT:  VAX/VMS Operating System
0038  1  !
0039  1  ! AUTHOR:       Bob Grosso,     CREATION DATE:  13-July-82
0040  1  !
0041  1  ! MODIFIED BY:
0042  1  !
0043  1  !      V03-004  PRD0042          Paul R. DeStefano       05-Jan-1984
0044  1  !               Add SERVICE NODE VERSION parameter.
0045  1  !
0046  1  !      V03-003  TMH0003          Tim Halvorsen           13-Jul-1983
0047  1  !               Add EXECUTOR ALIAS parameter
0048  1  !
0049  1  !      V03-002  RPG0002          Bob Grosso              25-Feb-1983
0050  1  !               Add CLEAR EXEC FORWARDING BUFFER SIZE.
0051  1  !
0052  1  !      V03-001  RPG0001          Bob Grosso              22-Sep-1982
0053  1  !               Fix BROADCAST in MAX BROADCAST to be a noise word.
0054  1  !
0055  1  !--
```

```
57    0056   1  %SBTTL 'Definitions'
58    0057   1
59    0058   1  !
60    0059   1  ! INCLUDE FILES:
61    0060   1  !
62    0061   1
63    0062   1          LIBRARY 'LIB$:NMALIBRY';
64    0063   1          LIBRARY 'LIB$:NCPLIBRY';
65    0064   1          LIBRARY 'SYS$LIBRARY:TPAMAC';
66    0065   1
67    0066   1  !
68    0067   1  ! EXTERNAL REFERENCES:
69    0068   1  !
70    0069   1
71    0070   1          ACT_DFN                          ! External symbols for action routines
72    0071   1
```

```
    74      0072  1 %SBTTL  'Parameter blocks'
    75      0073  1
    76      0074  1 !
    77      0075  1 ! BIND DATA:
    78      0076  1 !
    79      0077  1
    80      0078  1 !
    81      0079  1 !      Parameter blocks for node & executor parameters
    82      0080  1 !
    83      0081  1
    84    P 0082  1        BUILD_PCL
    85    P 0083  1
    86    P 0084  1        (CNO,
    87    P 0085  1
    88    P 0086  1        STA, LITB,       PCNO_STA, ,
    89    P 0087  1        ID,  LITB,       PCNO_IDE, ,
    90    P 0088  1        SLI, LITB,       PCNO_SLI, ,
    91    P 0089  1        SPW, LITB,       PCNO_SPA, ,
    92    P 0090  1        SDV, LITB,       PCNO_SDV, ,
    93    P 0091  1        CPU, LITB,       PCNO_CPU, ,
    94    P 0092  1        SNV, LITB,       PCNO_SNV, ,
    95    P 0093  1        HWA, LITB,       PCNO_HWA, ,
    96    P 0094  1        LFL, LITB,       PCNO_LOA, ,
    97    P 0095  1        SLF, LITB,       PCNO_SLO, ,
    98    P 0096  1        TLF, LITB,       PCNO_TLO, ,
    99    P 0097  1        DGF, LITB,       PCNO_DFL, ,
   100    P 0098  1        STY, LITB,       PCNO_STY, ,
   101    P 0099  1        SID, LITB,       PCNO_SID, ,
   102    P 0100  1        DFL, LITB,       PCNO_DUM, ,
   103    P 0101  1        SDF, LITB,       PCNO_SDU, ,
   104    P 0102  1        DAD, LITB,       PCNO_DAD, ,
   105    P 0103  1        DCT, LITB,       PCNO_DCT, ,
   106    P 0104  1        HOS, LITB,       PCNO_IHO, ,
   107    P 0105  1        CTM, LITB,       PCNO_CTI, ,
   108    P 0106  1        NAM, LITB,       PCNO_NNA, ,
   109    P 0107  1        LIN, LITB,       PCNO_NLI, ,
   110    P 0108  1        ADR, LITB,       PCNO_ADD, ,
   111    P 0109  1        INT, LITB,       PCNO_ITI, ,
   112    P 0110  1        OTM, LITB,       PCNO_OTI, ,
   113    P 0111  1        MLK, LITB,       PCNO_MLK, ,
   114    P 0112  1        DFC, LITB,       PCNO_DFA, ,
   115    P 0113  1        DWT, LITB,       PCNO_DWE, ,
   116    P 0114  1        IAT, LITB,       PCNO_IAT, ,
   117    P 0115  1        RFC, LITB,       PCNO_RFA, ,
   118    P 0116  1        TYP, LITB,       PCNO_ETY, ,
   119    P 0117  1        RTM, LITB,       PCNO_RTI, ,
   120    P 0118  1        SAD, LITB,       PCNO_SAD, ,
   121    P 0119  1        BRT, LITB,       PCNO_BRT, ,
   122    P 0120  1        MAD, LITB,       PCNO_MAD, ,
   123    P 0121  1        MLN, LITB,       PCNO_MLN, ,
   124    P 0122  1        MCO, LITB,       PCNO_MCO, ,
   125    P 0123  1        MHP, LITB,       PCNO_MHO, ,
   126    P 0124  1        MVS, LITB,       PCNO_MVI, ,
   127    P 0125  1        MAR, LITB,       PCNO_MAR, ,
   128    P 0126  1        MBE, LITB,       PCNO_MBE, ,
   129    P 0127  1        MBR, LITB,       PCNO_MBR, ,
   130    P 0128  1        AMC, LITB,       PCNO_AMC, ,
```

```
:  131       P 0129  1        AMH, LITB,      PCNO_AMH, .
:  132       P 0130  1        MBF, LITB,      PCNO_MBU, .
:  133       P 0131  1        BSZ, LITB,      PCNO_BUS, .
:  134       P 0132  1        FBS, LITB,      PCNO_FBS, .
:  135       P 0133  1        SBS, LITB,      PCNO_SBS, .
:  136       P 0134  1        RPW, LITB,      PCNO_RPA, .
:  137       P 0135  1        TPW, LITB,      PCNO_TPA, .
:  138       P 0136  1        NAC, LITB,      PCNO_NAC, .
:  139       P 0137  1        NPW, LITB,      PCNO_NPW, .
:  140       P 0138  1        NUS, LITB,      PCNO_NUS, .
:  141       P 0139  1        PAC, LITB,      PCNO_PAC, .
:  142       P 0140  1        PPW, LITB,      PCNO_PPW, .
:  143       P 0141  1        PUS, LITB,      PCNO_PUS, .
:  144       P 0142  1        ACC, LITB,      PCNO_ACC, .
:  145       P 0143  1        DAC, LITB,      PCNO_DAC, .
:  146       P 0144  1        PIQ, LITB,      PCNO_PIQ, .
:  147       P 0145  1        ALI, LITB,      PCNO_ALI, .
:  148       P 0146  1        PRX, LITB,      PCNO_PRX, .
:  149       P 0147  1        DPX, LITB,      PCNO_DPX, .
:  150       P 0148  1
:  151       P 0149  1        , END, , ,
:  152       P 0150  1
:  153         0151  1        )
```

```
 155      0152   1
 156    P 0153   1              BUILD_PBK
 157    P 0154   1
 158    P 0155   1              (CNO,
 159    P 0156   1
 160    P 0157   1              ALL, LITB, 0, VRB_ALL,
 161    P 0158   1              ENT, NADR,  , VRB_ENT,
 162    P 0159   1              STA, LITB, 0, ,
 163    P 0160   1              ID , LITB, 0, ,
 164    P 0161   1              SLI, LITB, 0, ,
 165    P 0162   1              SPW, LITB, 0, ,
 166    P 0163   1              SDV, LITB, 0, ,
 167    P 0164   1              SNV, LITB, 0, ,
 168    P 0165   1              CPU, LITB, 0, ,
 169    P 0166   1              HWA, LITB, 0, ,
 170    P 0167   1              LFL, LITB, 0, ,
 171    P 0168   1              SLF, LITB, 0, ,
 172    P 0169   1              TLF, LITB, 0, ,
 173    P 0170   1              DGF, LITB, 0, ,
 174    P 0171   1              STY, LITB, 0, ,
 175    P 0172   1              SID, LITB, 0, ,
 176    P 0173   1              DFL, LITB, 0, ,
 177    P 0174   1              SDF, LITB, 0, ,
 178    P 0175   1              DAD, LITB, 0, ,
 179    P 0176   1              DCT, LITB, 0, ,
 180    P 0177   1              HOS, LITB, 0, ,
 181    P 0178   1              HOE, LITB, 0, CNO_HOS,
 182    P 0179   1              CTM, LITB, 0, ,
 183    P 0180   1              CTE, LITB, 0, CNO_CTM,
 184    P 0181   1              NAM, LITB, 0, ,
 185    P 0182   1              NAE, LITB, 0, CNO_NAM,
 186    P 0183   1              LIN, LITB, 0, ,
 187    P 0184   1              ADR, LITB, 0, ,
 188    P 0185   1              INT, LITB, 0, ,
 189    P 0186   1              OTM, LITB, 0, ,
 190    P 0187   1              MLK, LITB, 0, ,
 191    P 0188   1              DFC, LITB, 0, ,
 192    P 0189   1              DWT, LITB, 0, ,
 193    P 0190   1              IAT, LITB, 0, ,
 194    P 0191   1              RFC, LITB, 0, ,
 195    P 0192   1              TYP, LITB, 0, ,
 196    P 0193   1              RTM, LITB, 0, ,
 197    P 0194   1              SAD, LITB, 0, ,
 198    P 0195   1              BRT, LITB, 0, ,
 199    P 0196   1              MAD, LITB, 0, ,
 200    P 0197   1              MLN, LITB, 0, ,
 201    P 0198   1              MCO, LITB, 0, ,
 202    P 0199   1              MHP, LITB, 0, ,
 203    P 0200   1              MVS, LITB, 0, ,
 204    P 0201   1              MAR, LITB, 0, ,
 205    P 0202   1              MBE, LITB, 0, ,
 206    P 0203   1              MBR, LITB, 0, ,
 207    P 0204   1              AMC, LITB, 0, ,
 208    P 0205   1              AMH, LITB, 0, ,
 209    P 0206   1              MBF, LITB, 0, ,
 210    P 0207   1              BSZ, LITB, 0, ,
 211    P 0208   1              FBS, LITB, 0, ,
```

```
  212      P 0209  1          SBS, LITB, 0, ;
  213      P 0210  1          RPW, LITB, 0, ;
  214      P 0211  1          TPW, LITB, 0, ;
  215      P 0212  1          NAC, LITB, 0, ;
  216      P 0213  1          NPW, LITB, 0, ;
  217      P 0214  1          NUS, LITB, 0, ;
  218      P 0215  1          PAC, LITB, 0, ;
  219      P 0216  1          PPW, LITB, 0, ;
  220      P 0217  1          PUS, LITB, 0, ;
  221      P 0218  1          ACC, LITB, 0, ;
  222      P 0219  1          DAC, LITB, 0, ;
  223      P 0220  1          PRX, LITB, 0, ;
  224      P 0221  1          DPX, LITB, 0, ;
  225      P 0222  1          PIQ, LITB, 0, ;
  226      P 0223  1          ALI, LITB, 0, ;
  227      P 0224  1
  228        0225  1          )
```

```
  230        0226  1
  231    P  0227  1            BUILD_PBK
  232    P  0228  1            (CEX,
  233    P  0229  1
  234    P  0230  1            ENT, LITL, 0, VRB_ENT,
  235    P  0231  1
  236       0232  1            )
  237       0233  1
  238       0234  1
  239       0235  1  !
  240       0236  1  !         Executor and Node SDB
  241       0237  1  !
  242       0238  1
  243    P  0239  1            BUILD_SDB
  244    P  0240  1
  245       0241  1            (CNO, NMA$C_ENT_NOD, VRB_ENT, CNO)
  246       0242  1
```

```
 248      0243  1 %SBTTL  'Prompt strings'
 249      0244  1 !
 250      0245  1 !
 251      0246  1 !          Build prompt strings
 252      0247  1 !
 253      0248  1
 254      0249  1 BIND
 255      0250  1
 256      0251  1 !       PROMPT_STRINGS
 257      0252  1 !       (CNO,
 258      0253  1
 259      0254  1 !       CTM, 'Counter timer       (Y, N): ',
 260      0255  1 !       CTE, 'Counter timer       (Y, N): ',
 261      0256  1 !       HOS, 'Host node ID        (Y, N): ',
 262      0257  1 !       HOE, 'Host node ID        (Y, N): ',
 263      0258  1 !       ID,  'System ID string    (Y, N): ',
 264      0259  1 !       ACC, 'Link access         (Y, N): ',
 265      0260  1 !       PRX, 'Proxy access        (Y, N): ',
 266      0261  1 !       PIQ, 'Pipeline quota      (Y, N): ',
 267      0262  1
 268      0263  1 !       );
 269      0264  1
 270      0265  1
 271    P 0266  1       PROMPT_STRINGS
 272    P 0267  1       (CNO,
 273    P 0268  1
 274    P 0269  1 !       ALL, 'All parameters      (Y, N): ',
 275    P 0270  1 !       SDV, 'Service device      (Y, N): ',
 276    P 0271  1 !       CPU, 'Processor type      (Y, N): ',
 277    P 0272  1 !       STY, 'Software type       (Y, N): ',
 278    P 0273  1 !       SID, 'Software id         (Y, N): ',
 279    P 0274  1 !       DAD, 'Dump address        (Y, N): ',
 280    P 0275  1 !       DCT, 'Dump count          (Y, N): ',
 281    P 0276  1 !       DFL, 'Dump file           (Y, N): ',
 282    P 0277  1 !       LIN, 'Associated line     (Y, N): ',
 283    P 0278  1 !       LFL, 'Load file           (Y, N): ',
 284    P 0279  1 !       RPW, 'Receive password    (Y, N): ',
 285    P 0280  1 !       SDF, 'Secondary dumper    (Y, N): ',
 286    P 0281  1 !       SLF, 'Secondary loader    (Y, N): ',
 287    P 0282  1 !       SLI, 'Service line        (Y, N): ',
 288    P 0283  1 !       SPW, 'Service password    (Y, N): ',
 289    P 0284  1 !       SNV, 'Service node version (Y, N): ',
 290    P 0285  1 !       TLF, 'Tertiary loader     (Y, N): ',
 291    P 0286  1 !       TPW, 'Transmit password   (Y, N): ',
 292    P 0287  1
 293    P 0288  1 !       NAC, 'Non-priv account    (Y, N): ',
 294    P 0289  1 !       NPW, 'Non-priv password   (Y, N): ',
 295    P 0290  1 !       NUS, 'Non-priv user ID    (Y, N): ',
 296    P 0291  1 !       PAC, 'Priv account        (Y, N): ',
 297    P 0292  1 !       PPW, 'Priv password       (Y, N): ',
 298    P 0293  1 !       PUS, 'Priv user ID        (Y, N): ',
 299    P 0294  1 !       DAC, 'Default link access (Y, N): ',
 300    P 0295  1 !       DPX, 'Default proxy access (Y, N): ',
 301    P 0296  1
 302    P 0297  1 !       ENT, 'Node ID (node-name, node-address): ',
 303    P 0298  1
 304      0299  1       );
```

```
  306       0300  1 %SBTTL  'Clear/Purge Executor'
  307       0301  1
  308       0302  1 !
  309       0303  1 !        CLEAR/PURGE Executor
  310       0304  1 !
  311       0305  1
  312       0306  1 $INIT_STATE (NCP$G_STTBL_CEX, NCP$G_KYTBL_CEX);
  313       0307  1
  314  P 0308  1 $STATE (ST_CEX,
  315  P 0309  1         (TPA$_LAMBDA, , ACT$SAVPRM, , , PBK$G_CEX_ENT)
  316       0310  1         );
  317       0311  1
  318  P 0312  1 $STATE (,
  319  P 0313  1         (TPA$_EOS),
  320  P 0314  1         ( (ST_CNO_PRC), ST_CEX_DOIT)
  321       0315  1         );
  322       0316  1
  323  P 0317  1 $STATE (,
  324       0318  1         (TPA$_LAMBDA, ST_CNO_PMT_ALL));          ! Use NODE prompting
  325       0319  1
  326  P 0320  1 $STATE (ST_CEX_DOIT,
  327  P 0321  1         (TPA$_LAMBDA, ST_CNO_DOIT)
  328       0322  1         );
```

```
  330      0323  1 %SBTTL  'Clear/Purge Nodes'
  331      0324  1
  332      0325  1 !
  333      0326  1 !        Clear purge nodes
  334      0327  1 !
  335      0328  1
  336      0329  1 $INIT_STATE (NCP$G_STTBL_CNO, NCP$G_KYTBL_CNO);
  337      0330  1
  338      0331  1 !
  339      0332  1 !        Come here after KNOWN NODES
  340      0333  1 !        either prompt or process keywords
  341      0334  1 !
  342      0335  1
  343    P 0336  1 $STATE   (ST_CNO,
  344    P 0337  1          (TPA$_EOS),
  345    P 0338  1          ( (ST_CNO_PRC), ST_CNO_DOIT)
  346      0339  1          );
  347      0340  1
  348    P 0341  1          QUERY_STATES                           ! Query for node parameters
  349    P 0342  1          (CNO,
  350    P 0343  1
  351    P 0344  1          ALL
  352    P 0345  1
  353      0346  1          )
  354      0347  1
  355    P 0348  1 $STATE   (ST_CNO_DOIT,                          ! Perform the function
  356    P 0349  1          (TPA$_LAMBDA, , , NMA$C_ENT_NOD, NCP$GL_OPTION, )
  357      0350  1          );
  358      0351  1
  359    P 0352  1 $STATE   (,
  360    P 0353  1          (TPA$_EOS, TPA$_EXIT, ACT$VRB_UTILITY, , , SDB$G_CNO)
  361      0354  1          );
  362      0355  1
```

```
 364        0356  1 %SBTTL   'Node Dispatch States'
 365        0357  1
 366        0358  1 !
 367        0359  1 !            Dispatch states
 368        0360  1 !
 369        0361  1
 370      P 0362  1 $STATE   (ST_CNO_PRC,
 371      P 0363  1
 372      P 0364  1           DISPATCH_STATES
 373      P 0365  1           (CNO,
 374      P 0366  1
 375      P 0367  1           ACC, 'ACCESS',
 376      P 0368  1           ADR, 'ADDRESS',
 377      P 0369  1           ALI, 'ALIAS',
 378      P 0370  1           ALL, 'ALL'
 379      P 0371  1           ARE, 'AREA',
 380      P 0372  1           BRO, 'BROADCAST',
 381      P 0373  1           BSZ, 'BUFFER',
 382      P 0374  1           MCO, 'COST'
 383      P 0375  1           CTM, 'COUNTER',
 384      P 0376  1           CPU, 'CPU'
 385      P 0377  1           DEF, 'DEFAULT',
 386      P 0378  1           DLY, 'DELAY',
 387      P 0379  1           DGF, 'DIAGNOSTIC',
 388      P 0380  1           DUM, 'DUMP'
 389      P 0381  1           FOR, 'FORWARDING',
 390      P 0382  1           HWA, 'HARDWARE',
 391      P 0383  1           MHP, 'HOPS',
 392      P 0384  1           HOS, 'HOST',
 393      P 0385  1           ID,  'IDENTIFICATION',
 394      P 0386  1           IAT, 'INACTIVITY',
 395      P 0387  1           INT, 'INCOMING',
 396      P 0388  1           LIN, 'CIRCUIT',
 397      P 0389  1           LFL, 'LOAD'
 398      P 0390  1           MLK, 'LINKS',
 399      P 0391  1           MAX, 'MAXIMUM',
 400      P 0392  1           NAM, 'NAME'
 401      P 0393  1           NPR, 'NONPRIVILEGED',
 402      P 0394  1           OTM, 'OUTGOING',
 403      P 0395  1           PIQ, 'PIPELINE',
 404      P 0396  1           PRV, 'PRIVILEGED',
 405      P 0397  1           PRX, 'PROXY'
 406      P 0398  1           RPW, 'RECEIVE'
 407      P 0399  1           RFC, 'RETRANSMIT',
 408      P 0400  1           RTM, 'ROUTING',
 409      P 0401  1           SEC, 'SECONDARY',
 410      P 0402  1           SEG, 'SEGMENT'
 411      P 0403  1           SOF, 'SOFTWARE',
 412      P 0404  1           SVC, 'SERVICE',
 413      P 0405  1           STA, 'STATE'
 414      P 0406  1           SAD, 'SUBADDRESSES',
 415      P 0407  1           TLF, 'TERTIARY'
 416      P 0408  1           TPW, 'TRANSMIT',
 417      P 0409  1           TYP, 'TYPE'
 418      P 0410  1           MVS, 'VISITS'
 419      P 0411  1
 420      P 0412  1           )
```

```
:  421      P 0413  1
:  422      P 0414  1                   ,(TPA$_EOS, TPA$_EXIT)
:  423        0415  1                   );
```

NCPSTACNO   Clear/Purge Node Parse States and Data   B 13   VAX-11 Bliss-32 V4.0-742   Page 13
V04-000   Node Process States   16-Sep-1984 00:16:58   [NCP.SRC]NCPSTACNO.B32;1   (10)
    14-Sep-1984 12:48:18

```
425          0416  1 %SBTTL  'Node Process States'
426          0417  1
427          0418  1 !
428          0419  1 !       Process states
429          0420  1 !
430          0421  1
431      P  0422  1         PROCESS_STATES
432      P  0423  1         (CNO,
433      P  0424  1
434      P  0425  1         ADR, .
435      P  0426  1         AMC, .
436      P  0427  1         AMH, .
437      P  0428  1         BSZ, 'SIZE'
438      P  0429  1         CTM, 'TIMER',
439      P  0430  1         DFC, .
440      P  0431  1         DWT, .
441      P  0432  1         HOS, .
442      P  0433  1         ID, .
443      P  0434  1         IAT, 'TIMER',
444      P  0435  1         INT, 'TIMER',
445      P  0436  1         MAD, .
446      P  0437  1         MAR, .
447      P  0438  1         MBE, .
448      P  0439  1         MBF, .
449      P  0440  1         MBR, .
450      P  0441  1         MCO, .
451      P  0442  1         MHP, .
452      P  0443  1         MLN, .
453      P  0444  1         MLK, .
454      P  0445  1         MVS, .
455      P  0446  1         NAM, .
456      P  0447  1         OTM, 'TIMER'
457      P  0448  1         RFC, 'FACTOR',
458      P  0449  1         RTM, 'TIMER',
459      P  0450  1         SAD, .
460      P  0451  1         SNV, 'VERSION',
461      P  0452  1         STA, .
462      P  0453  1         TYP, .
463      P  0454  1
464      P  0455  1         ALL, 'TIMER',
465      P  0456  1         BRT, 'TIMER',
466      P  0457  1         CPU, .
467      P  0458  1         DAD, .
468      P  0459  1         DCT, .
469      P  0460  1         DFL, .
470      P  0461  1         DGF, 'FILE',
471      P  0462  1         HWA, 'ADDRESS',
472      P  0463  1         LIN, .
473      P  0464  1         LFL, 'FILE'
474      P  0465  1         RPW, 'PASSWORD',
475      P  0466  1         FBS, 'SIZE',
476      P  0467  1         SBS, 'SIZE';
477      P  0468  1         SID, .
478      P  0469  1         SLF, .
479      P  0470  1         SDF, .
480      P  0471  1         SDV, .
481      P  0472  1         STY, .
```

```
: 482      P 0473  1        SPW, ,
: 483      P 0474  1        SLI, ,
:....484   P 0475  1        TLF, 'LOADER',
: 485      P 0476  1        TPW, 'PASSWORD',
: 486      P 0477  1        ACC, ,
: 487      P 0478  1        DAC, ,
: 488      P 0479  1        PIQ, 'QUOTA'
: 489      P 0480  1        ALI, 'ADDRESS',
: 490      P 0481  1        PRX, ,
: 491      P 0482  1        DPX, ,
: 492      P 0483  1
:....493     0484  1        )
: 494        0485  1
```

```
  496      0486  1
  497    P 0487  1   $STATE  (ST_CNO_PRC_ARE,                    ! AREA keyword dispatch
  498    P 0488  1
  499    P 0489  1           ('MAXIMUM'),
  500    P 0490  1           (TPA$_LAMBDA)
  501      0491  1           );
  502      0492  1
  503    P 0493  1   $STATE  (,
  504    P 0494  1           ('COST', ST_CNO_PRC_AMC),
  505    P 0495  1           ('HOPS', ST_CNO_PRC_AMH)
  506      0496  1           );
  507      0497  1
  508      0498  1
  509    P 0499  1   $STATE  (ST_CNO_PRC_BRO,                    ! BROADCAST keyword dispatch
  510    P 0500  1
  511    P 0501  1           ('ROUTING', ST_CNO_PRC_BRT),        ! routing is a noise word
  512    P 0502  1           ('TIMER', ST_CNO_PRC_BRT),          ! timer is a noise word
  513    P 0503  1           (TPA$_LAMBDA, ST_CNO_PRC_BRT)
  514      0504  1           );
  515      0505  1
  516      0506  1
  517    P 0507  1   $STATE  (ST_CNO_PRC_MAX,                    ! MAXIMUM keyword dispatch
  518    P 0508  1
  519    P 0509  1           ('BROADCAST'),                      ! Make a noise word of the BROADCAST
  520    P 0510  1           (TPA$_LAMBDA)                       !  in MAX BROADCAST ROUTERS/NONROUTERS
  521      0511  1           );
  522      0512  1
  523    P 0513  1   $STATE  (,
  524    P 0514  1
  525    P 0515  1           DISPATCH_STATES
  526    P 0516  1           (CNO,
  527    P 0517  1
  528    P 0518  1           MAD, 'ADDRESS',
  529    P 0519  1           MAR, 'AREA',
  530    P 0520  1           MBF, 'BUFFERS',
  531    P 0521  1           MCO, 'COST',
  532    P 0522  1           MHP, 'HOPS',
  533    P 0523  1           MLN, 'CIRCUITS',
  534    P 0524  1           MLK, 'LINKS',
  535    P 0525  1           MBE, 'NONROUTERS',
  536    P 0526  1           MBR, 'ROUTERS',
  537    P 0527  1           MVS, 'VISITS',
  538    P 0528  1
  539      0529  1           ));
  540      0530  1
  541    P 0531  1   $STATE  (ST_CNO_PRC_DLY,                    ! DELAY keyword dispatch
  542    P 0532  1
  543    P 0533  1           DISPATCH_STATES
  544    P 0534  1           (CNO,
  545    P 0535  1
  546    P 0536  1           DFC, 'FACTOR',
  547    P 0537  1           DWT, 'WEIGHT',
  548    P 0538  1
  549      0539  1           ));
  550      0540  1
  551    P 0541  1   $STATE  (ST_CNO_PRC_SVC,                    ! SERVICE keyword dispatch
  552    P 0542  1
```

```
553      P 0543  1           DISPATCH_STATES
554      P 0544  1           (CNO,
555      P 0545  1
556      P 0546  1           SDV, 'DEVICE',
557      P 0547  1           SLI, 'CIRCUIT',
558      P 0548  1           SNV, 'NODE',
559      P 0549  1           SPW, 'PASSWORD',
560      P 0550  1
561        0551  1           ));
562        0552  1
563      P 0553  1 $STATE    (ST_CNO_PRC_SEC,                    ! SECONDARY keyword dispatch
564      P 0554  1
565      P 0555  1           DISPATCH_STATES
566      P 0556  1           (CNO,
567      P 0557  1
568      P 0558  1           SDF, 'DUMPER',
569      P 0559  1           SLF, 'LOADER',
570      P 0560  1
571        0561  1           ));
572        0562  1
573      P 0563  1 $STATE    (ST_CNO_PRC_FOR,                    ! FORWARDING keyword dispatch
574      P 0564  1
575      P 0565  1           ('BUFFER', ST_CNO_PRC_FBS),         ! buffer is a noise word
576      P 0566  1           ('SIZE', ST_CNO_PRC_FBS),           ! size is a noise word
577      P 0567  1           (TPA$_LAMBDA, ST_CNO_PRC_FBS)
578        0568  1           );
579        0569  1
580      P 0570  1 $STATE    (ST_CNO_PRC_SEG,                    ! SEGMENT keyword dispatch
581      P 0571  1
582      P 0572  1           ('BUFFER', ST_CNO_PRC_SBS),         ! buffer is a noise word
583      P 0573  1           ('SIZE', ST_CNO_PRC_SBS),           ! size is a noise word
584      P 0574  1           (TPA$_LAMBDA, ST_CNO_PRC_SBS)
585        0575  1           );
586        0576  1
587      P 0577  1 $STATE    (ST_CNO_PRC_DUM,                    ! DUMP keyword dispatch
588      P 0578  1
589      P 0579  1           DISPATCH_STATES
590      P 0580  1           (CNO,
591      P 0581  1
592      P 0582  1           DFL, 'FILE',
593      P 0583  1           DAD, 'ADDRESS',
594      P 0584  1           DCT, 'COUNT',
595      P 0585  1
596        0586  1           ));
597        0587  1
598      P 0588  1 $STATE    (ST_CNO_PRC_SOF,                    ! SOFTWARE keyword dispatch
599      P 0589  1
600      P 0590  1           DISPATCH_STATES
601      P 0591  1           (CNO,
602      P 0592  1
603      P 0593  1           SID, 'IDENTIFICATION',
604      P 0594  1           STY, 'TYPE',
605      P 0595  1
606        0596  1           ));
607        0597  1
608      P 0598  1 $STATE    (ST_CNO_PRC_DEF,                    ! DEFAULT keyword dispatch
609      P 0599  1
```

```
:  610      P 0600  1          DISPATCH_STATES
:  611      P 0601  1          (CNO,
:  612      P 0602  1
:  613      P 0603  1          DAC, 'ACCESS',
:  614      P 0604  1          DPX, 'PROXY',
:  615      P 0605  1
:  616        0606  1          ));
```

```
  618    0607  1 !
  619    0608  1 !
  620    0609  1 !     Process states for nonprivileged parameters
  621    0610  1 !
  622    0611  1
  623  P 0612  1 $STATE  (ST_CNO_PRC_NPR,
  624  P 0613  1         ('ACCOUNT',      ST_CNO_PRC_NAC),
  625  P 0614  1         ('PASSWORD',     ST_CNO_PRC_NPW),
  626  P 0615  1         ('USER',         ST_CNO_PRC_NUS),
  627  P 0616  1         (TPA$_LAMBDA,    ST_CNO_PRC)
  628    0617  1         );
  629    0618  1
  630  P 0619  1 $STATE  (ST_CNO_PRC_NAC,
  631  P 0620  1         ( (ST_CNO_NAC), ST_CNO_PRC_NPR)
  632    0621  1         );
  633    0622  1
  634  P 0623  1 $STATE  (ST_CNO_PRC_NPW,
  635  P 0624  1         ( (ST_CNO_NPW), ST_CNO_PRC_NPR)
  636    0625  1         );
  637    0626  1
  638  P 0627  1 $STATE  (ST_CNO_PRC_NUS,
  639  P 0628  1         ( (ST_CNO_NUS), ST_CNO_PRC_NPR)
  640    0629  1         );
  641    0630  1
  642    0631  1 !
  643    0632  1 !     Process states for privileged parameters
  644    0633  1 !
  645    0634  1
  646  P 0635  1 $STATE  (ST_CNO_PRC_PRV,
  647  P 0636  1         ('ACCOUNT',      ST_CNO_PRC_PAC),
  648  P 0637  1         ('PASSWORD',     ST_CNO_PRC_PPW),
  649  P 0638  1         ('USER',         ST_CNO_PRC_PUS),
  650  P 0639  1         (TPA$_LAMBDA,    ST_CNO_PRC)
  651    0640  1         );
  652    0641  1
  653  P 0642  1 $STATE  (ST_CNO_PRC_PAC,
  654  P 0643  1         ( (ST_CNO_PAC), ST_CNO_PRC_PRV)
  655    0644  1         );
  656    0645  1
  657  P 0646  1 $STATE  (ST_CNO_PRC_PPW,
  658  P 0647  1         ( (ST_CNO_PPW), ST_CNO_PRC_PRV)
  659    0648  1         );
  660    0649  1
  661  P 0650  1 $STATE  (ST_CNO_PRC_PUS,
  662  P 0651  1         ( (ST_CNO_PUS), ST_CNO_PRC_PRV)
  663    0652  1         );
```

```
  665      0653  1  %SBTTL  'Node Subexpression States'
  666      0654  1
  667      0655  1  !
  668      0656  1  !           Subexpression states
  669      0657  1  !
  670      0658  1
  671      0659  1  !
  672      0660  1  !           Build sub-expressions to capture parameters
  673      0661  1  !
  674      0662  1
  675    P 0663  1              SUB_EXPRESSIONS
  676    P 0664  1              (CNO,
  677    P 0665  1
  678    P 0666  1              ADR, TPA$_LAMBDA,
  679    P 0667  1              AMC, TPA$_LAMBDA,
  680    P 0668  1              AMH, TPA$_LAMBDA,
  681    P 0669  1              BRT, TPA$_LAMBDA,
  682    P 0670  1              BSZ, TPA$_LAMBDA,
  683    P 0671  1              CTM, TPA$_LAMBDA,
  684    P 0672  1              CTE, TPA$_LAMBDA,
  685    P 0673  1              DFC, TPA$_LAMBDA,
  686    P 0674  1              DWT, TPA$_LAMBDA,
  687    P 0675  1              DGF, TPA$_LAMBDA,
  688    P 0676  1              HWA, TPA$_LAMBDA,
  689    P 0677  1              HOS, TPA$_LAMBDA,
  690    P 0678  1              HOE, TPA$_LAMBDA,
  691    P 0679  1              ID,  TPA$_LAMBDA,
  692    P 0680  1              IAT, TPA$_LAMBDA,
  693    P 0681  1              INT, TPA$_LAMBDA,
  694    P 0682  1              MAD, TPA$_LAMBDA,
  695    P 0683  1              MBF, TPA$_LAMBDA,
  696    P 0684  1              MCO, TPA$_LAMBDA,
  697    P 0685  1              MHP, TPA$_LAMBDA,
  698    P 0686  1              MLN, TPA$_LAMBDA,
  699    P 0687  1              MLK, TPA$_LAMBDA,
  700    P 0688  1              MAR, TPA$_LAMBDA,
  701    P 0689  1              MBE, TPA$_LAMBDA,
  702    P 0690  1              MBR, TPA$_LAMBDA,
  703    P 0691  1              MVS, TPA$_LAMBDA,
  704    P 0692  1              NAM, TPA$_LAMBDA,
  705    P 0693  1              NAE, TPA$_LAMBDA,
  706    P 0694  1              OTM, TPA$_LAMBDA,
  707    P 0695  1              RFC, TPA$_LAMBDA,
  708    P 0696  1              RTM, TPA$_LAMBDA,
  709    P 0697  1              SAD, TPA$_LAMBDA,
  710    P 0698  1              FBS, TPA$_LAMBDA,
  711    P 0699  1              SBS, TPA$_LAMBDA,
  712    P 0700  1              STA, TPA$_LAMBDA,
  713    P 0701  1              TYP, TPA$_LAMBDA,
  714    P 0702  1
  715    P 0703  1              ALL, TPA$_EOS,
  716    P 0704  1              CPU, TPA$_LAMBDA,
  717    P 0705  1              DAD, TPA$_LAMBDA,
  718    P 0706  1              DCT, TPA$_LAMBDA,
  719    P 0707  1              DFL, TPA$_LAMBDA,
  720    P 0708  1              LIN, TPA$_LAMBDA,
  721    P 0709  1              LFL, TPA$_LAMBDA,
```

```
  722        P 0710  1        RPW, TPA$_LAMBDA,
  723        P 0711  1        SDV, TPA$_LAMBDA,
  724        P 0712  1        SID, TPA$_LAMBDA,
  725        P 0713  1        SLI, TPA$_LAMBDA,
  726        P 0714  1        SNV, TPA$_LAMBDA,
  727        P 0715  1        SPW, TPA$_LAMBDA,
  728        P 0716  1        SDF, TPA$_LAMBDA,
  729        P 0717  1        SLF, TPA$_LAMBDA,
  730        P 0718  1        STY, TPA$_LAMBDA,
  731        P 0719  1        TLF, TPA$_LAMBDA,
  732        P 0720  1        TPW, TPA$_LAMBDA,
  733        P 0721  1        NAC, TPA$_LAMBDA,
  734        P 0722  1        NPW, TPA$_LAMBDA,
  735        P 0723  1        NUS, TPA$_LAMBDA,
  736        P 0724  1        PAC, TPA$_LAMBDA,
  737        P 0725  1        PPW, TPA$_LAMBDA,
  738        P 0726  1        PUS, TPA$_LAMBDA,
  739        P 0727  1        ACC, TPA$_LAMBDA,
  740        P 0728  1        DAC, TPA$_LAMBDA,
  741        P 0729  1        PIQ, TPA$_LAMBDA,
  742        P 0730  1        ALI, TPA$_LAMBDA,
  743        P 0731  1        PRX, TPA$_LAMBDA,
  744        P 0732  1        DPX, TPA$_LAMBDA,
  745        P 0733  1
  746          0734  1        )
```

```
748    0735  1 %SBTTL  'Define Subexpressions from Library'
749    0736  1
750    0737  1 !
751    0738  1 !         Define subexpressions from library
752    0739  1 !
753    0740  1
754    0741  1         SEM_NODE_ID                ! Node id strings
755    0742  1         SEM_QUERY                  ! Query state subexpressions
```

```
:  757    0743  1 %SBTTL   'Object Listing of Parse Table'
:  758    0744  1
:  759    0745  1 END                              !End of module
:  760    0746  0 ELUDOM
```

NCPSTACNO
LIS

NCPSTALIN
LIS

NCPSTACIR
LIS

NCPSTADUM
LIS

NCPSTADIS
LIS

NCPSTACON
LIS

NCPSTACLP
LIS