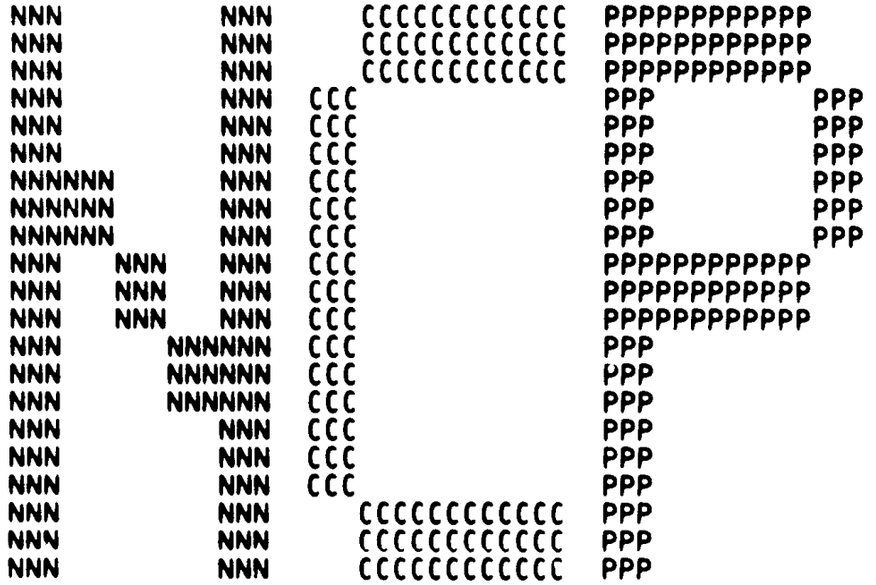
NNN NNN CCCCCCCCCCC PPPPPPPPPPPP
NNN NNN CCCCCCCCCCC PPPPPPPPPPPP
NNN NNN CCCCCCCCCCC PPPPPPPPPPPP
NNN NNN CCC PPP PPP
NNN NNN CCC PPP PPP
NNN NNN CCC PPP PPP
NNNNNN NNN CCC PPP PPP
NNNNNN NNN CCC PPP PPP
NNNNNN NNN CCC PPP PPP
NNN NNN NNN CCC PPPPPPPPPPPP
NNN NNN NNN CCC PPPPPPPPPPPP
NNN NNN NNN CCC PPPPPPPPPPPP
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  PPPPPPPP      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
```

```
;  1          0001  0 %TITLE  'Clear/Purge Node Parse States and Data'
;  2          0002  0 MODULE NCPSTACNO (IDENT = 'V04-000', LIST(NOOBJECT)) =
;  3          0003  1 BEGIN
;  4          0004  1
;  5          0005  1 !
;  6          0006  1 !*****************************************************************************
;  7          0007  1 !*                                                                           *
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;  24         0024  1 !*  SOFTWARE ON EQUIPMENT WHICH IS NOT SUPPLIED BY DIGITAL.                  *
;  25         0025  1 !*                                                                           *
;  26         0026  1 !*                                                                           *
;  27         0027  1 !*****************************************************************************
;  28         0028  1 !
;  29         0029  1
;  30         0030  1 !++
;  31         0031  1 ! FACILITY:     Network Control Program (NCP)
;  32         0032  1 !
;  33         0033  1 ! ABSTRACT:
;  34         0034  1 !
;  35         0035  1 !       States and data for the parsing of NCP clear and purge node command
;  36         0036  1 !
;  37         0037  1 ! ENVIRONMENT:  VAX/VMS Operating System
;  38         0038  1 !
;  39         0039  1 ! AUTHOR:       Bob Grosso,     CREATION DATE:  13-July-82
;  40         0040  1 !
;  41         0041  1 ! MODIFIED BY:
;  42         0042  1 !
;  43         0043  1 !       V03-004 PRD0042         Paul R. DeStefano       05-Jan-1984
;  44         0044  1 !               Add SERVICE NODE VERSION parameter.
;  45         0045  1 !
;  46         0046  1 !       V03-003 TMH0003         Tim Halvorsen           13-Jul-1983
;  47         0047  1 !               Add EXECUTOR ALIAS parameter
;  48         0048  1 !
;  49         0049  1 !       V03-002 RPG0002         Bob Grosso              25-Feb-1983
;  50         0050  1 !               Add CLEAR EXEC FORWARDING BUFFER SIZE.
;  51         0051  1 !
;  52         0052  1 !       V03-001 RPG0001         Bob Grosso              22-Sep-1982
;  53         0053  1 !               Fix BROADCAST in MAX BROADCAST to be a noise word.
;  54         0054  1 !
;  55         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          );
```

```
;  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, ,
;  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

NCPSTACLR
LIS