```
NNN        NNN    CCCCCCCCCCCC    PPPPPPPPPPPP
NNN        NNN    CCCCCCCCCCCC    PPPPPPPPPPPP
NNN        NNN    CCCCCCCCCCCC    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    NNNNNNN   CCC              PPP
NNN     NNNNNN   CCC              PPP
NNN     NNNNNN   CCC              PPP
NNN        NNN   CCC              PPP
NNN        NNN   CCC              PPP
NNN        NNN   CCC              PPP
NNN        NNN    CCCCCCCCCCCC    PPP
NNN        NNN    CCCCCCCCCCCC    PPP
NNN        NNN    CCCCCCCCCCCC    PPP
```

NMALIBRY

LIS

```
0001  0        ! Version:        'V04-000'
0002  0
0003  0        !
0004  0        !*********************************************************************
0005  0        !*                                                                   *
0006  0        !*  COPYRIGHT (c) 1978, 1980, 1982, 1984 BY                          *
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0020  0        !*                                                                   *
0021  0        !*  DIGITAL ASSUMES NO RESPONSIBILITY FOR THE USE  OR  RELIABILITY OF ITS  *
0022  0        !*  SOFTWARE ON EQUIPMENT WHICH IS NOT SUPPLIED BY DIGITAL.          *
0023  0        !*                                                                   *
0024  0        !*                                                                   *
0025  0        !*********************************************************************
0026  0
0027  0        !++
0028  0        !
0029  0        !  NMAHEAD.B32
0030  0        !
0031  0        !      Define $EQULST macro to make library from the NMALIBRY.B32 file
0032  0        !
0033  0        !      This source is taken from the following source:
0034  0        !--
0035  0        !++
0036  0        !
0037  0        !  UTLDEF.B32 - UTILITY DEFINITION MACROS FOR BLISS PROCESSING
0038  0        !  OF STARLET DEFINITION MACROS.
0039  0        !
0040  0        !--
0041  0
0042  0
0043  0        !
0044  0        ! MACRO TO GENERATE EQULST CONSTRUCTS.
0045  0        !
0046  0        MACRO
0047  0 M              $EQULST(P,G,I,S)[A]=
0048  0 M                  %NAME(P,GET1ST_ A) =
0049  0 M                      %IF NUL2ND_ A
0050  0 M                      %THEN (I) + %COUNT*(S)  ! ASSUMES I, S ALWAYS GENERATED BY CONVERSION PROGRAM
0051  0 M                      %ELSE GET2ND_ A
0052  0                        %FI %,
0053  0
0054  0 M              GET1ST_(A,B)=
0055  0                    A_%,
0056  0 M              GET2ND_(A,B)=
0057  0                    B_%,          ! KNOWN NON-NULL
```

```
M 0058  0            NUL2ND (A,B)=
  0059  0                %NULL(B) %;
  0060  0
  0061  0        !
  0062  0        !    End of NMAHEAD
  0063  0        !
```

```
0064   0     |  ******************************************************************************
0065   0     |  Created 15-SEP-1984 22:48:46  by  VAX-11 SDL V2.0      Source: 15-SEP-1984 22:47:35 _$255$DUA28:[NCP.SRC]NMADEF.
0066   0     |  ******************************************************************************
0067   0
0068   0
0069   0     |*** MODULE $NMADEF ***
0070   0     |
0071   0     |  Object type
0072   0     |
0073   0     literal NMA$C_OBJ_NIC = 19;              ! Nice listener
0074   0     |
0075   0     |  Function codes
0076   0     |
0077   0     literal NMA$C_FNC_LOA = 15;              ! Request down-line load
0078   0     literal NMA$C_FNC_DUM = 16;              ! Request up-line dump
0079   0     literal NMA$C_FNC_TRI = 17;              ! Trigger bootstrap
0080   0     literal NMA$C_FNC_TES = 18;              ! Test
0081   0     literal NMA$C_FNC_CHA = 19;              ! Change parameter
0082   0     literal NMA$C_FNC_REA = 20;              ! Read information
0083   0     literal NMA$C_FNC_ZER = 21;              ! Zero counters
0084   0     literal NMA$C_FNC_SYS = 22;              ! System-specific function
0085   0     |
0086   0     |  Option byte
0087   0     |
0088   0     |     common to change parameter, read information and zero counters
0089   0     |
0090   0     literal NMA$M_OPT_ENT = 7;
0091   0     literal NMA$M_OPT_CLE = 64;
0092   0     literal NMA$M_OPT_PER = 128;
0093   0     literal NMA$M_OPT_INF = 112;
0094   0     literal NMA$C_OPINF_SUM = 0;             ! Summary
0095   0     literal NMA$C_OPINF_STA = 1;             ! Status
0096   0     literal NMA$C_OPINF_CHA = 2;             ! Characteristics
0097   0     literal NMA$C_OPINF_COU = 3;             ! Counters
0098   0     literal NMA$C_OPINF_EVE = 4;             ! Events
0099   0     |
0100   0     |     test
0101   0     |
0102   0     literal NMA$M_OPT_ACC = 128;
0103   0     literal NMA$M_OPT_REA = 128;
0104   0     literal NMA$C_SYS_RST = 1;               ! Rsts
0105   0     literal NMA$C_SYS_RSX = 2;               ! Rsx family
0106   0     literal NMA$C_SYS_TOP = 3;               ! Tops-20
0107   0     literal NMA$C_SYS_VMS = 4;               ! Vms
0108   0     literal NMA$C_SYS_RT = 5;                ! RT-11
0109   0     |
0110   0     |  Entity types.  This numbering scheme must be used in non-system-specific
0111   0     |  NICE messages.  (See below for conflicting system-specific entities).
0112   0     |
0113   0     literal NMA$C_ENT_NOD = 0;               ! Node
0114   0     literal NMA$C_ENT_LIN = 1;               ! Line
0115   0     literal NMA$C_ENT_LOG = 2;               ! Logging
0116   0     literal NMA$C_ENT_CIR = 3;               ! Circuit
0117   0     literal NMA$C_ENT_MOD = 4;               ! Module
0118   0     literal NMA$C_ENT_ARE = 5;               ! Area
0119   0     |
0120   0     |  System-specific (function 22) entity types.  This numbering scheme
```

```
0121   0        !  for objects must be used in any entity type in system-specific NICE
0122   0        !  messages.
0123   0        !
0124   0        literal NMA$C_SENT_ALI = 3;              !  Alias
0125   0        literal NMA$C_SENT_OBJ = 4;              !  Object
0126   0        literal NMA$C_SENT_PRO = 5;              !  Process
0127   0        literal NMA$C_SENT_SYS = 6;              !  System
0128   0        literal NMA$C_SENT_LNK = 7;              !  Links
0129   0        literal NMA$M_ENT_EXE = 128;
0130   0        literal NMA$C_ENT_ADJ = -4;              !  Adjacent
0131   0        literal NMA$C_ENT_ACT = -2;              !  Active
0132   0        literal NMA$C_ENT_KNO = -1;              !  Known
0133   0        literal NMA$C_ENT_ADD = 0;               !  Node address
0134   0        literal NMA$C_ENT_ALL = -3;              !  All
0135   0        literal NMA$C_ENT_LOO = -3;              !  Loop
0136   0        !
0137   0        !  Logging sink types
0138   0        !
0139   0        literal NMA$C_SNK_CON = 1;               !  Console
0140   0        literal NMA$C_SNK_FIL = 2;               !  File
0141   0        literal NMA$C_SNK_MON = 3;               !  Monitor
0142   0        !
0143   0        !  Counter data type values
0144   0        !
0145   0        literal NMA$M_CNT_TYP = 4095;
0146   0        literal NMA$M_CNT_MAP = 4096;
0147   0        literal NMA$M_CNT_WID = 24576;
0148   0        literal NMA$M_CNT_COU = 32768;
0149   0        literal NMA$M_CNT_WIL = 8192;
0150   0        literal NMA$M_CNT_WIH = 16384;
0151   0        literal NMA$S_NMADEF = 2;
0152   0        macro NMA$V_OPT_ENT = 0,0,3,0 %;
0153   0        literal NMA$S_OPT_ENT = 3;               !  Entity type
0154   0        !
0155   0        !     change parameter
0156   0        !
0157   0        macro NMA$V_OPT_CLE = 0,6,1,0 %;         !  Clear parameter
0158   0        macro NMA$V_OPT_PER = 0,7,1,0 %;         !  Permanent parameters
0159   0        !
0160   0        !     common to change parameter or read information
0161   0        !
0162   0        !
0163   0        !     read information
0164   0        !
0165   0        macro NMA$V_OPT_INF = 0,4,3,0 %;
0166   0        literal NMA$S_OPT_INF = 3;               !  Information type mask
0167   0        macro NMA$V_OPT_ACC = 0,7,1,0 %;         !  Access control included
0168   0        !
0169   0        !     zero
0170   0        !
0171   0        macro NMA$V_OPT_REA = 0,7,1,0 %;         !  Read and zero
0172   0        !
0173   0        !  System types
0174   0        !
0175   0        macro NMA$V_ENT_EXE = 0,7,1,0 %;         !  Executor indicator flag for response messages
0176   0        !
0177   0        !  Entity identification format types
```

```
0178  0        !
0179  0        macro NMA$V_CNT_TYP = 0,0,12,0 %;
0180  0        literal NMA$S_CNT_TYP = 12;              ! Type mask
0181  0        macro NMA$V_CNT_MAP = 0,12,1,0 %;        ! Bitmapped indicator
0182  0        macro NMA$V_CNT_WID = 0,13,2,0 %;
0183  0        literal NMA$S_CNT_WID = 2;               ! Width field mask
0184  0        macro NMA$V_CNT_COU = 0,15,1,0 %;        ! Counter indicator
0185  0        macro NMA$V_CNT_WIL = 0,13,1,0 %;        ! Width field low bit
0186  0        macro NMA$V_CNT_WIH = 0,14,1,0 %;        ! Width field high bit
0187  0        !
0188  0        !   Node area and address extraction
0189  0        !
0190  0        literal NMA$M_PTY_TYP = 32767;
0191  0        literal NMA$C_PTY_MAX = 15;              ! Maximum fields within coded multiple
0192  0        literal NMA$M_PTY_CLE = 63;
0193  0        literal NMA$M_PTY_MUL = 64;
0194  0        literal NMA$M_PTY_COD = 128;
0195  0        literal NMA$M_PTY_CMU = 192;
0196  0        literal NMA$M_PTY_NLE = 15;
0197  0        literal NMA$M_PTY_NTY = 48;
0198  0        literal NMA$M_PTY_ASC = 64;
0199  0        literal NMA$C_NTY_DU = 0;                ! Unsigned decimal
0200  0        literal NMA$C_NTY_DS = 1;                ! Signed decimal
0201  0        literal NMA$C_NTY_H = 2;                 ! Hexidecimal
0202  0        literal NMA$C_NTY_O = 3;                 ! Octal
0203  0        !   NLE values (length of number):
0204  0        literal NMA$C_NLE_IMAGE = 0;             ! Image field (byte-counted)
0205  0        literal NMA$C_NLE_BYTE = 1;              ! Byte
0206  0        literal NMA$C_NLE_WORD = 2;              ! Word
0207  0        literal NMA$C_NLE_LONG = 4;              ! Longword
0208  0        literal NMA$C_NLE_QUAD = 8;              ! Quadword
0209  0        !
0210  0        !   Define standard values for the DATA TYPE byte
0211  0        !
0212  0        literal NMA$C_PTY_AI = 64;               ! ASCII image (ASC=1)
0213  0        literal NMA$C_PTY_HI = 32;               ! Hex image (NTY=H, NLE=IMAGE)
0214  0        literal NMA$C_PTY_H1 = 33;               ! Hex byte (NTY=H, NLE=BYTE)
0215  0        literal NMA$C_PTY_H2 = 34;               ! Hex word (NTY=H, NLE=WORD)
0216  0        literal NMA$C_PTY_H4 = 36;               ! Hex byte (NTY=H, NLE=LONG)
0217  0        literal NMA$C_PTY_DU1 = 1;               ! Decimal unsigned byte (NTY=DU,NLE=BYTE)
0218  0        literal NMA$C_PTY_DU2 = 2;               ! Decimal unsigned word (NTY=DU,NLE=WORD)
0219  0        literal NMA$C_PTY_CD1 = 129;             ! Coded decimal byte (COD=1, 1 byte)
0220  0        literal NMA$C_PTY_CM2 = 194;             ! Coded multiple, 2 fields
0221  0        literal NMA$C_PTY_CM3 = 195;             ! Coded multiple, 3 fields
0222  0        literal NMA$C_PTY_CM4 = 196;             ! Coded multiple, 4 fields
0223  0        literal NMA$C_PTY_CM5 = 197;             ! Coded multiple, 5 fields
0224  0        !
0225  0        !     Circuit parameters
0226  0        !
0227  0        literal NMA$C_PCCI_STA = 0;              ! State (coded byte of NMA$C_STATE_)
0228  0        literal NMA$C_PCCI_SUB = 1;              ! Substate (coded byte of NMA$C_LINSS_)
0229  0        literal NMA$C_PCCI_SER = 100;            ! Service (coded byte of NMA$C_LINSV_)
0230  0        literal NMA$C_PCCI_LCT = 110;            ! Counter timer (word)
0231  0        literal NMA$C_PCCI_SPY = 120;            ! Service physical address (NI address)
0232  0        literal NMA$C_PCCI_SSB = 121;            ! Service substate (coded byte of NMA$C_LINSS_)
0233  0        literal NMA$C_PCCI_CNO = 200;            ! Connected node
0234  0        literal NMA$C_PCCI_COB = 201;            ! Connected object
```

```
0235  0      literal NMA$C_PCCI_LOO = 400;        ! Loopback name (ascic)
0236  0      literal NMA$C_PCCI_ADJ = 800;        ! Adjacent node
0237  0      literal NMA$C_PCCI_DRT = 801;        ! Designated router on NI
0238  0      literal NMA$C_PCCI_BLO = 810;        ! Block size (word)
0239  0      literal NMA$C_PCCI_COS = 900;        ! Cost (byte)
0240  0      literal NMA$C_PCCI_MRT = 901;        ! Maximum routers on NI (byte)
0241  0      literal NMA$C_PCCI_RPR = 902;        ! Router priority on NI (byte)
0242  0      literal NMA$C_PCCI_HET = 906;        ! Hello timer (word)
0243  0      literal NMA$C_PCCI_LIT = 907;        ! Listen timer (word)
0244  0      literal NMA$C_PCCI_BLK = 910;        ! Blocking (coded byte of NMA$C_CIRBLK_)
0245  0      literal NMA$C_PCCI_MRC = 920;        ! Maximum recalls (byte)
0246  0      literal NMA$C_PCCI_RCT = 921;        ! Recall timer (word)
0247  0      literal NMA$C_PCCI_NUM = 930;        ! Number (ascic)
0248  0      literal NMA$C_PCCI_USR = 1000;       ! User entity identification
0249  0      literal NMA$C_PCCI_POL = 1010;       ! Polling state (coded byte of NMA$C_CIRPST_)
0250  0      literal NMA$C_PCCI_PLS = 1011;       ! Polling substate (coded byte)
0251  0      literal NMA$C_PCCI_OWN = 1100;       ! Owner entity identification
0252  0      literal NMA$C_PCCI_LIN = 1110;       ! Line (ascic)
0253  0      literal NMA$C_PCCI_USE = 1111;       ! Usage (coded byte of NMA$C_CIRUS_)
0254  0      literal NMA$C_PCCI_TYP = 1112;       ! Type (coded byte of NMA$C_CIRTY_)
0255  0      literal NMA$C_PCCI_DTE = 1120;       ! DTE (ascic)
0256  0      literal NMA$C_PCCI_CHN = 1121;       ! Channel (word)
0257  0      literal NMA$C_PCCI_MBL = 1122;       ! Maximum data (word)
0258  0      literal NMA$C_PCCI_MWI = 1123;       ! Maximum window (byte)
0259  0      literal NMA$C_PCCI_TRI = 1140;       ! Tributary (byte)
0260  0      literal NMA$C_PCCI_BBT = 1141;       ! Babble timer (word)
0261  0      literal NMA$C_PCCI_TRT = 1142;       ! Transmit timer (word)
0262  0      literal NMA$C_PCCI_RTT = 1143;       ! Retransmit timer (word)
0263  0      literal NMA$C_PCCI_MRB = 1145;       ! Maximum receive buffers (coded byte)
0264  0      !  0-254 is value, 255 = UNLIMITED
0265  0      literal NMA$C_PCCI_MTR = 1146;       ! Maximum transmits (byte)
0266  0      literal NMA$C_PCCI_ACB = 1150;       ! Active base (byte)
0267  0      literal NMA$C_PCCI_ACI = 1151;       ! Active increment (byte)
0268  0      literal NMA$C_PCCI_IAB = 1152;       ! Inactive base (byte)
0269  0      literal NMA$C_PCCI_IAI = 1153;       ! Inactive increment (byte)
0270  0      literal NMA$C_PCCI_IAT = 1154;       ! Inactive threshold (byte)
0271  0      literal NMA$C_PCCI_DYB = 1155;       ! Dying base (byte)
0272  0      literal NMA$C_PCCI_DYI = 1156;       ! Dying increment (byte)
0273  0      literal NMA$C_PCCI_DYT = 1157;       ! Dying threshold (byte)
0274  0      literal NMA$C_PCCI_DTH = 1158;       ! Dead threshold (byte)
0275  0      !
0276  0      !  RSX-specific circuit parameters
0277  0      !
0278  0      literal NMA$C_PCCI_RSX_MAC = 2320;   ! Multipoint active ratio
0279  0      literal NMA$C_PCCI_RSX_LOG = 2380;   ! Logical name
0280  0      literal NMA$C_PCCI_RSX_DLG = 2385;   ! Designated name
0281  0      literal NMA$C_PCCI_RSX_ACT = 2390;   ! Actual name
0282  0      !
0283  0      !  VMS-specific circuit NICE parameters [2700 - 2799]
0284  0      !
0285  0      literal NMA$C_PCCI_VER = 2700;       ! Verification (coded byte of NMA$C_CIRVE_)
0286  0      literal NMA$C_PCCI_XPT = 2720;       ! Transport type (coded byte of NMA$C_CIRXPT_)
0287  0      !
0288  0      !  VMS-specific datalink only circuit parameters    [2800 - 2899]
0289  0      !
0290  0      !  (these will never be used in NICE messages).
0291  0      !
```

```
0292  0        Literal NMA$C_PCCI_MST = 2810;              ! Maintenance state
0293  0        !
0294  0        !   Server Base specific Circuit parameters
0295  0        !
0296  0        Literal NMA$C_PCCI_SRV_LOG = 3380;          ! Logical name
0297  0        Literal NMA$C_PCCI_SRV_DLG = 3385;          ! Designated name
0298  0        Literal NMA$C_PCCI_SRV_ACT = 3390;          ! Actual name
0299  0        !
0300  0        !      Line parameters
0301  0        !
0302  0        Literal NMA$C_PCLI_STA = 0;                 ! State (coded byte of NMA$C_STATE_)
0303  0        Literal NMA$C_PCLI_SUB = 1;                 ! Substate (coded byte of NMA$C_LINSS_)
0304  0        Literal NMA$C_PCLI_SER = 100;               ! Service (coded byte of NMA$C_LINSV_)
0305  0        Literal NMA$C_PCLI_LCT = 110;               ! Counter timer (word)
0306  0        Literal NMA$C_PCLI_LOO = 400;               ! Loopback name (ascic) [V2 only]
0307  0        Literal NMA$C_PCLI_ADJ = 800;               ! Adjacent node [V2 only]
0308  0        Literal NMA$C_PCLI_BLO = 810;               ! Block size (word) [V2 only]
0309  0        Literal NMA$C_PCLI_COS = 900;               ! Cost (byte) [V2 only]
0310  0        Literal NMA$C_PCLI_DEV = 1100;              ! Device (ascic)
0311  0        Literal NMA$C_PCLI_BFN = 1105;              ! Receive buffers
0312  0        Literal NMA$C_PCLI_CON = 1110;              ! Controller (coded byte of NMA$C_LINCN_)
0313  0        Literal NMA$C_PCLI_DUP = 1111;              ! Duplex (coded byte of NMA$C_DPX_)
0314  0        Literal NMA$C_PCLI_PRO = 1112;              ! Protocol (coded byte of NMA$C_LINPR_)
0315  0        Literal NMA$C_PCLI_LTY = 1112;              ! Type (coded byte of NMA$C_LINTY_) [V2 only]
0316  0        Literal NMA$C_PCLI_CLO = 1113;              ! Clock (coded byte of NMA$C_LINCL_)
0317  0        Literal NMA$C_PCLI_STI = 1120;              ! Service timer (word)
0318  0        Literal NMA$C_PCLI_NTI = 1121;              ! Normal timer (word) [V2 only]
0319  0        Literal NMA$C_PCLI_RTT = 1121;              ! Retransmit timer (word)
0320  0        Literal NMA$C_PCLI_HTI = 1122;              ! Holdback timer (word)
0321  0        Literal NMA$C_PCLI_MBL = 1130;              ! Maximum block (word)
0322  0        Literal NMA$C_PCLI_MRT = 1131;              ! Maximum retransmits (byte)
0323  0        Literal NMA$C_PCLI_MWI = 1132;              ! Maximum window (byte)
0324  0        Literal NMA$C_PCLI_TRI = 1140;              ! Tributary (byte) [V2 only]
0325  0        Literal NMA$C_PCLI_SLT = 1150;              ! Scheduling timer (word)
0326  0        Literal NMA$C_PCLI_DDT = 1151;              ! Dead timer (word)
0327  0        Literal NMA$C_PCLI_DLT = 1152;              ! Delay timer (word)
0328  0        Literal NMA$C_PCLI_SRT = 1153;              ! Stream timer (word)
0329  0        Literal NMA$C_PCLI_HWA = 1160;              ! Hardware address (NI address)
0330  0        !
0331  0        !   RSX-specific line parameters
0332  0        !
0333  0        Literal NMA$C_PCLI_RSX_OWN = 2300;          ! Owner
0334  0        Literal NMA$C_PCLI_RSX_CCS = 2310;          ! Controller CSR
0335  0        Literal NMA$C_PCLI_RSX_UCS = 2311;          ! Unit CSR
0336  0        Literal NMA$C_PCLI_RSX_VEC = 2312;          ! Vector
0337  0        Literal NMA$C_PCLI_RSX_PRI = 2313;          ! Priority
0338  0        Literal NMA$C_PCLI_RSX_MDE = 2321;          ! Dead polling ratio
0339  0        Literal NMA$C_PCLI_RSX_LLO = 2330;          ! Location
0340  0        !      0, Firstfit
0341  0        !      1, Topdown
0342  0        Literal NMA$C_PCLI_RSX_LOG = 2380;          ! Logical name
0343  0        Literal NMA$C_PCLI_RSX_DLG = 2385;          ! Designated name
0344  0        Literal NMA$C_PCLI_RSX_ACT = 2390;          ! Actual name
0345  0        !
0346  0        !   VMS-specific line NICE parameters [2700 - 2799]
0347  0        !
0348  0        Literal NMA$C_PCLI_MCD = 2701;              ! Micro-code dump filespec (ascic)
```

```
0349  0      literal NMA$C_PCLI_XMD = 2710;          ! X.25 line mode (coded byte of NMA$C_X25MD_)
0350  0      literal NMA$C_PCLI_EPT = 2720;          ! Ethernet Protocol Type (hex word)
0351  0      !
0352  0      !   VMS-specific datalink only line parameters   [2800 - 2899]
0353  0      !
0354  0      !   (these will never be used in NICE messages).
0355  0      !
0356  0      literal NMA$C_PCLI_BUS = 2801;          ! Buffer size (word)
0357  0      literal NMA$C_PCLI_NMS = 2810;          ! Number of DMP/DMF synch chars (word)
0358  0      literal NMA$C_PCLI_PHA = 2820;          ! Physical NI address of UNA (hex string)
0359  0      literal NMA$C_PCLI_DPA = 2821;          ! (same as HWA) ; Default UNA physical address (hex string)
0360  0      literal NMA$C_PCLI_PTY = 2830;          ! Ethernet Protocol type (word)
0361  0      literal NMA$C_PCLI_MCA = 2831;          ! UNA Multicast address list (special)
0362  0      !          (See NMA$C_LINMC_)
0363  0      literal NMA$C_PCLI_ICP = 2839;          ! DELUA Internal Loopback mode
0364  0      !   (coded byte of NMA$C_STATE_)
0365  0      literal NMA$C_PCLI_PRM = 2840;          ! UNA Promiscuous mode (coded byte of NMA$C_STATE_)
0366  0      literal NMA$C_PCLI_MLT = 2841;          ! UNA Multicast address mode (coded byte of NMA$C_STATE_)
0367  0      literal NMA$C_PCLI_PAD = 2842;          ! UNA Padding mode (coded byte of NMA$C_STATE_)
0368  0      literal NMA$C_PCLI_DCH = 2843;          ! UNA Data chaining mode (coded byte of NMA$C_STATE_)
0369  0      literal NMA$C_PCLI_CRC = 2844;          ! UNA CRC mode (coded byte of NMA$C_STATE_)
0370  0      literal NMA$C_PCLI_HBQ = 2845;          ! UNA Hardware Buffer Quota (word)
0371  0      literal NMA$C_PCLI_ACC = 2846;          ! UNA protocol access mode (coded byte of NMA$C_ACC_)
0372  0      literal NMA$C_PCLI_EKO = 2847;          ! UNA Echo mode (coded byte of NMA$C_STATE_)
0373  0      literal NMA$C_PCLI_BSZ = 2848;          ! UNA Device Buffer size
0374  0      literal NMA$C_PCLI_DES = 2849;          ! UNA destination Ethernet address
0375  0      literal NMA$C_PCLI_RET = 2850;          ! PCL number of retries (word)
0376  0      literal NMA$C_PCLI_MOD = 2851;          ! PCL address mode (coded byte of NMA$C_LINMO_)
0377  0      literal NMA$C_PCLI_RIB = 2852;          ! PCL retry-if-busy state (coded byte of NMA$C_STATE_)
0378  0      literal NMA$C_PCLI_MNTL = 2860;         ! Maintenance loopback mode for devices
0379  0      !     which support several different loop back modes
0380  0      literal NMA$C_PCLI_INTL0 = 2861;        ! Internal loopback level 0
0381  0      literal NMA$C_PCLI_INTL1 = 2862;        ! Internal loopback level 1
0382  0      literal NMA$C_PCLI_INTL2 = 2863;        ! Internal loopback level 2
0383  0      literal NMA$C_PCLI_INTL3 = 2864;        ! Internal loopback level 3
0384  0      literal NMA$C_PCLI_FRA = 2865;          ! Framing address for Bisync
0385  0      literal NMA$C_PCLI_STI1 = 2866;         ! State info 1st longword
0386  0      literal NMA$C_PCLI_STI2 = 2867;         ! State info 2st longword
0387  0      literal NMA$C_PCLI_TMO = 2868;          ! Wait for CTS time out value for DMF sync half duplex
0388  0      literal NMA$C_PCLI_MCL = 2869;          ! Clear modem on deassign of channel
0389  0      literal NMA$C_PCLI_SYC = 2870;          ! BISYNC protocol sync char
0390  0      literal NMA$C_PCLI_BPC = 2871;          ! Number of bits per character
0391  0      !
0392  0      !      Server Base specific line parameters
0393  0      !
0394  0      literal NMA$C_PCLI_SRV_OWN = 3300;      ! Owner
0395  0      literal NMA$C_PCLI_SRV_UCS = 3311;      ! Unit CSR
0396  0      literal NMA$C_PCLI_SRV_VEC = 3312;      ! Vector
0397  0      literal NMA$C_PCLI_SRV_PRI = 3313;      ! Priority
0398  0      literal NMA$C_PCLI_SRV_LOG = 3380;      ! Logical name
0399  0      literal NMA$C_PCLI_SRV_DLG = 3385;      ! Designated name
0400  0      literal NMA$C_PCLI_SRV_ACT = 3390;      ! Actual name
0401  0      !
0402  0      !      Console module parameters
0403  0      !
0404  0      literal NMA$C_PCCO_RTR = 110;           ! Reservation timer (word)
0405  0      !
```

```
0406  0          !    Loader module parameters
0407  0          !
0408  0          literal NMA$C_PCLD_ASS = 10;                 ! Assistance flag (coded byte of NMA$C_ASS_)
0409  0          !
0410  0          !    Looper module parameters
0411  0          !
0412  0          literal NMA$C_PCLP_ASS = 10;                 ! Assistance flag (coded byte of NMA$C_ASS_)
0413  0          !
0414  0          !    Configurator module parameters
0415  0          !
0416  0          literal NMA$C_PCCN_CIR = 100;                ! NI circuit name (ascic)
0417  0          literal NMA$C_PCCN_SUR = 110;                ! Surveillance flag (coded byte of NMA$C_SUR_)
0418  0          literal NMA$C_PCCN_ELT = 111;                ! Elapsed time
0419  0          literal NMA$C_PCCN_PHA = 120;                ! Physical address (NI address)
0420  0          literal NMA$C_PCCN_LRP = 130;                ! Time of last report
0421  0          literal NMA$C_PCCN_MVR = 20001;              ! Maintenance version
0422  0          literal NMA$C_PCCN_FCT = 20002;              ! Function list
0423  0          literal NMA$C_PCCN_CUS = 20003;              ! Current console user (NI address)
0424  0          literal NMA$C_PCCN_RTR = 20004;              ! Reservation timer (word)
0425  0          literal NMA$C_PCCN_CSZ = 20005;              ! Command buffer size (word)
0426  0          literal NMA$C_PCCN_RSZ = 20006;              ! Response buffer size (word)
0427  0          literal NMA$C_PCCN_HWA = 20007;              ! Hardware address (NI address)
0428  0          literal NMA$C_PCCN_DTY = 20100;              ! Device type (coded byte of NMA$C_SOFD_)
0429  0          literal NMA$C_PCCN_SFI = 20200;              ! Software ID
0430  0          literal NMA$C_PCCN_SPR = 20300;              ! System processor (coded word)
0431  0          literal NMA$C_PCCN_DLK = 20400;              ! Data link type (coded word)
0432  0          !
0433  0          !    Logging parameters
0434  0          !
0435  0          literal NMA$C_PCLO_STA = 0;                  ! State (coded byte of NMA$C_STATE_)
0436  0          literal NMA$C_PCLO_LNA = 100;                ! System/name (ascic)
0437  0          literal NMA$C_PCLO_SIN = 200;                ! Sink node
0438  0          literal NMA$C_PCLO_EVE = 201;                ! Events
0439  0          !
0440  0          !    X.25 Access module parameters
0441  0          !
0442  0          literal NMA$C_PCXA_NOD = 320;                ! Node
0443  0          literal NMA$C_PCXA_USR = 330;                ! User (ascic)
0444  0          literal NMA$C_PCXA_PSW = 331;                ! Password (ascic)
0445  0          literal NMA$C_PCXA_ACC = 332;                ! Account (ascic)
0446  0          literal NMA$C_PCXA_NET = 1110;               ! Network (ascic)
0447  0          !
0448  0          !  RSX-specific X.25-Access module parameters
0449  0          !
0450  0          literal NMA$C_PCXA_RSX_ADS = 2310;           ! Destination
0451  0          literal NMA$C_PCXA_RSX_ANB = 2320;           ! Number
0452  0          literal NMA$C_PCXA_RSX_ASC = 2330;           ! Scope
0453  0          !
0454  0          !  Server Base specific X.25-Access module parameters
0455  0          !
0456  0          literal NMA$C_PCXA_SRV_ADS = 3310;           ! Destination
0457  0          literal NMA$C_PCXA_SRV_ANB = 3320;           ! Number
0458  0          literal NMA$C_PCXA_SRV_ASC = 3330;           ! Scope
0459  0          !
0460  0          !    X.25 Protocol module parameters
0461  0          !
0462  0          literal NMA$C_PCXP_STA = 0;                  ! State (coded byte of NMA$C_STATE_)
```

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0463  0        literal NMA$C_PCXP_CTM = 100;            ! Counter timer (word)
0464  0        literal NMA$C_PCXP_ACH = 1000;           ! Active channels (word)
0465  0        literal NMA$C_PCXP_ASW = 1010;           ! Active switched (word)
0466  0        literal NMA$C_PCXP_DTE = 1100;           ! DTE (ascic)
0467  0        literal NMA$C_PCXP_GRP = 1101;           ! Group (ascic)
0468  0        literal NMA$C_PCXP_NET = 1110;           ! Network (ascic)
0469  0        literal NMA$C_PCXP_LIN = 1120;           ! Line (ascic)
0470  0        literal NMA$C_PCXP_CHN = 1130;           ! Channels
0471  0        literal NMA$C_PCXP_MCH = 1131;           ! Maximum channels (word)
0472  0        literal NMA$C_PCXP_DBL = 1140;           ! Default data (word)
0473  0        literal NMA$C_PCXP_DWI = 1141;           ! Default window (byte)
0474  0        literal NMA$C_PCXP_MBL = 1150;           ! Maximum data (word)
0475  0        literal NMA$C_PCXP_MWI = 1151;           ! Maximum window (byte)
0476  0        literal NMA$C_PCXP_MCL = 1152;           ! Maximum clears (byte)
0477  0        literal NMA$C_PCXP_MRS = 1153;           ! Maximum resets (byte)
0478  0        literal NMA$C_PCXP_MST = 1154;           ! Maximum restarts (byte)
0479  0        literal NMA$C_PCXP_CAT = 1160;           ! Call timer (byte)
0480  0        literal NMA$C_PCXP_CLT = 1161;           ! Clear timer (byte)
0481  0        literal NMA$C_PCXP_RST = 1162;           ! Reset timer (byte)
0482  0        literal NMA$C_PCXP_STT = 1163;           ! Restart timer (byte)
0483  0        literal NMA$C_PCXP_GDT = 1170;           ! Group DTE (ascic)
0484  0        literal NMA$C_PCXP_GNM = 1171;           ! Group number (word)
0485  0        literal NMA$C_PCXP_GTY = 1172;           ! Group type (coded byte of NMA$C_XPRTY_)
0486  0        !
0487  0        !        RSX-specific X.25-Protocol Module parameters
0488  0        !
0489  0        literal NMA$C_PCXP_RSX_PMC = 2300;       ! Maximum circuits
0490  0        !
0491  0        !  VMS-specific X25-PROTOCOL NICE parameters [2700 - 2799]
0492  0        !
0493  0        literal NMA$C_PCXP_MNS = 2700;           ! Multinetwork Support flag (coded byte of NMA$C_XPRMN_) [disabled, enabled
0494  0        literal NMA$C_PCXP_MCI = 2710;           ! Maximum circuits, qualified by DTE
0495  0        literal NMA$C_PCXP_SBS = 2720;           ! Substate, qualified by DTE (coded byte of NMA$C_XPRSB_)
0496  0        !
0497  0        !   Server Base specific X.25-Protocol Module parameters
0498  0        !
0499  0        literal NMA$C_PCXP_SRV_PMC = 3300;       ! Maximum circuits
0500  0        !
0501  0        !     X.25 server module parameters
0502  0        !
0503  0        literal NMA$C_PCXS_CTM = 100;            ! Counter timer (word)
0504  0        literal NMA$C_PCXS_ACI = 200;            ! Active circuits (word)
0505  0        literal NMA$C_PCXS_DST = 300;            ! Destination (ascic)
0506  0        literal NMA$C_PCXS_MCI = 310;            ! Maximum circuits (word)
0507  0        literal NMA$C_PCXS_NOD = 320;            ! Node
0508  0        literal NMA$C_PCXS_USR = 330;            ! Username
0509  0        literal NMA$C_PCXS_SPW = 331;            ! Password to set (ascic)
0510  0        literal NMA$C_PCXS_RPW = 331;            ! Password to read (coded byte of NMA$C_NODPW_)
0511  0        literal NMA$C_PCXS_ACC = 332;            ! Account (ascic)
0512  0        literal NMA$C_PCXS_OBJ = 340;            ! Object
0513  0        literal NMA$C_PCXS_PRI = 350;            ! Priority (byte)
0514  0        literal NMA$C_PCXS_CMK = 351;            ! Call mask (byte-counted hex)
0515  0        literal NMA$C_PCXS_CVL = 352;            ! Call value (byte-counted hex)
0516  0        literal NMA$C_PCXS_GRP = 353;            ! Group (ascic)
0517  0        literal NMA$C_PCXS_NUM = 354;            ! Number (ascic)
0518  0        literal NMA$C_PCXS_SAD = 355;            ! Subaddresses
0519  0        !
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0520  0        !   RSX-specific X.25-Server Module parameters
0521  0        !
0522  0        literal NMA$C_PCXS_RSX_5ST = 2310;        !  State
0523  0        !      0, On
0524  0        !      1, Off
0525  0        !
0526  0        !   VMS-specific X25-SERVER NICE parameters [2700 - 2799]
0527  0        !
0528  0        literal NMA$C_PCXS_STA = 2700;            !  Server state (coded byte of NMA$C_STATE_)
0529  0        literal NMA$C_PCXS_FIL = 2710;            !  Object filespec (ascic)
0530  0        !
0531  0        !   Server Base specific X.25-Server Module parameters
0532  0        !
0533  0        literal NMA$C_PCXS_SRV_5ST = 3310;        !  State
0534  0        !      0, On
0535  0        !      1, Off
0536  0        !
0537  0        !   X.25 trace module parameters (VMS-specific)
0538  0        !
0539  0        literal NMA$C_PCXT_STA = 0;               !  State (coded byte of NMA$C_STATE_)
0540  0        literal NMA$C_PCXT_BSZ = 100;             !  Buffer size (word)
0541  0        literal NMA$C_PCXT_MBK = 101;             !  Maximum blocks/file (word)
0542  0        literal NMA$C_PCXT_FNM = 102;             !  Filename (ascic)
0543  0        literal NMA$C_PCXT_MBF = 103;             !  Maximum number of buffers (word)
0544  0        literal NMA$C_PCXT_CPL = 104;             !  Global data capture limit (word)
0545  0        literal NMA$C_PCXT_MVR = 105;             !  Maximum trace file version (word)
0546  0        literal NMA$C_PCXT_TPT = 106;             !  Trace point name (ascic)
0547  0        literal NMA$C_PCXT_CPS = 110;             !  Per-trace capture size (word)
0548  0        literal NMA$C_PCXT_TST = 111;             !  Per-trace state (coded byte of NMA$C_STATE_)
0549  0        !
0550  0        !      Node parameters
0551  0        !
0552  0        literal NMA$C_PCNO_STA = 0;               !  State (coded byte of NMA$C_STATE_)
0553  0        literal NMA$C_PCNO_PHA = 10;              !  Physical address (NI address)
0554  0        literal NMA$C_PCNO_IDE = 100;             !  Identification (ascic)
0555  0        literal NMA$C_PCNO_MVE = 101;             !  Management version (3 bytes)
0556  0        literal NMA$C_PCNO_SLI = 110;             !  Service circuit (ascic)
0557  0        literal NMA$C_PCNO_SPA = 111;             !  Service password (8 bytes)
0558  0        literal NMA$C_PCNO_SDV = 112;             !  Service device (coded byte of NMA$C_SOFD_)
0559  0        literal NMA$C_PCNO_CPU = 113;             !  CPU type (coded byte of NMA$C_CPU_)
0560  0        literal NMA$C_PCNO_HWA = 114;             !  Hardware address (NI address)
0561  0        literal NMA$C_PCNO_SNV = 115;             !  Service node version (coded byte of NMA$C_SVN_)
0562  0        literal NMA$C_PCNO_LOA = 120;             !  Load file (ascic)
0563  0        literal NMA$C_PCNO_SLO = 121;             !  Secondary loader (ascic)
0564  0        literal NMA$C_PCNO_TLO = 122;             !  Tertiary loader (ascic)
0565  0        literal NMA$C_PCNO_DFL = 123;             !  Diagnostic file (ascic)
0566  0        literal NMA$C_PCNO_STY = 125;             !  Software type (coded byte of NMA$C_SOFT_)
0567  0        literal NMA$C_PCNO_SID = 126;             !  Software ID (ascic)
0568  0        literal NMA$C_PCNO_DUM = 130;             !  Dump file (ascic)
0569  0        literal NMA$C_PCNO_SDU = 131;             !  Secondary dumper (ascic)
0570  0        literal NMA$C_PCNO_DAD = 135;             !  Dump address (longword)
0571  0        literal NMA$C_PCNO_DCT = 136;             !  Dump count (longword)
0572  0        literal NMA$C_PCNO_OHO = 140;             !  Host (read only parameter)
0573  0        literal NMA$C_PCNO_IHO = 141;             !  Host (write only parameter)
0574  0        literal NMA$C_PCNO_LPC = 150;             !  Loop count (word)
0575  0        literal NMA$C_PCNO_LPL = 151;             !  Loop length (word)
0576  0        literal NMA$C_PCNO_LPD = 152;             !  Loop Data type (coded byte of NMA$C_LOOP_)
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0577  0        literal NMA$C_PCNO_LPA = 153;          ! Loop assistant physical address (NI address)
0578  0        literal NMA$C_PCNO_LPH = 154;          ! Loop help type (coded byte)
0579  0        literal NMA$C_PCNO_LPN = 155;          ! Loop circuit node
0580  0        literal NMA$C_PCNO_LAN = 156;          ! Loop circuit assistant node
0581  0        literal NMA$C_PCNO_CTI = 160;          ! Counter timer (word)
0582  0        literal NMA$C_PCNO_NNA = 500;          ! Name
0583  0        literal NMA$C_PCNO_NLI = 501;          ! Circuit (ascic)
0584  0        literal NMA$C_PCNO_ADD = 502;          ! Address
0585  0        literal NMA$C_PCNO_ITI = 510;          ! Incoming timer (word)
0586  0        literal NMA$C_PCNO_OTI = 511;          ! Outgoing timer (word)
0587  0        literal NMA$C_PCNO_ACL = 600;          ! Active links (word)
0588  0        literal NMA$C_PCNO_DEL = 601;          ! Delay (word)
0589  0        literal NMA$C_PCNO_NVE = 700;          ! Nsp version (3 bytes)
0590  0        literal NMA$C_PCNO_MLK = 710;          ! Maximum links (word)
0591  0        literal NMA$C_PCNO_DFA = 720;          ! Delay factor (byte)
0592  0        literal NMA$C_PCNO_DWE = 721;          ! Delay weight (byte)
0593  0        literal NMA$C_PCNO_IAT = 722;          ! Inactivity timer (word)
0594  0        literal NMA$C_PCNO_RFA = 723;          ! Retransmit factor (word)
0595  0        literal NMA$C_PCNO_DTY = 810;          ! Destination Type (coded byte of NMA$C_XPRTY_)
0596  0        literal NMA$C_PCNO_DCO = 820;          ! Destination Cost (word)
0597  0        literal NMA$C_PCNO_DHO = 821;          ! Destination Hops (byte)
0598  0        literal NMA$C_PCNO_DLI = 822;          ! Destination circuit (ascic)
0599  0        literal NMA$C_PCNO_NND = 830;          ! Next node to destination
0600  0        literal NMA$C_PCNO_RVE = 900;          ! Routing version (3 bytes)
0601  0        literal NMA$C_PCNO_ETY = 901;          ! Executor Type (coded byte of NMA$C_NODTY_)
0602  0        literal NMA$C_PCNO_RTI = 910;          ! Routing timer (word)
0603  0        literal NMA$C_PCNO_SAD = 911;          ! Subaddress (2 words)
0604  0        literal NMA$C_PCNO_BRT = 912;          ! Broadcast routing timer (word)
0605  0        literal NMA$C_PCNO_MAD = 920;          ! Maximum address (word)
0606  0        literal NMA$C_PCNO_MLN = 921;          ! Maximum circuits (word)
0607  0        literal NMA$C_PCNO_MCO = 922;          ! Maximum cost (word)
0608  0        literal NMA$C_PCNO_MHO = 923;          ! Maximum hops (byte)
0609  0        literal NMA$C_PCNO_MVI = 924;          ! Maximum visits (byte)
0610  0        literal NMA$C_PCNO_MAR = 925;          ! Maximum areas (byte)
0611  0        literal NMA$C_PCNO_MBE = 926;          ! Maximum broadcast nonrouters (word)
0612  0        literal NMA$C_PCNO_MBR = 927;          ! Maximum broadcast routers (word)
0613  0        literal NMA$C_PCNO_AMC = 928;          ! Area maximum cost (word)
0614  0        literal NMA$C_PCNO_AMH = 929;          ! Area maximum hops (byte)
0615  0        literal NMA$C_PCNO_MBU = 930;          ! Maximum buffers (word)
0616  0        literal NMA$C_PCNO_BUS = 931;          ! Executor buffer size (word)
0617  0        literal NMA$C_PCNO_SBS = 932;          ! Segment buffer size (word)
0618  0        literal NMA$C_PCNO_FBS = 933;          ! Forwarding buffer size (word)
0619  0
0620  0        !   RSX-Specific Node (Executor) parameters
0621  0        !
0622  0        literal NMA$C_PCNO_RSX_RPA = 2300;     ! Receive password
0623  0        !   0, Password set
0624  0        literal NMA$C_PCNO_RSX_TPA = 2301;     ! Transmit password
0625  0        !   0, Password set
0626  0        literal NMA$C_PCNO_RSX_VER = 2310;     ! Verification state
0627  0        !   0, On
0628  0        !   1, Off
0629  0
0630  0        !   VMS-specific node parameters
0631  0        !
0632  0        literal NMA$C_PCNO_PUS = 2704;         ! Privileged user id
0633  0        literal NMA$C_PCNO_PAC = 2705;         ! Privileged account
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0634  0     literal NMA$C_PCNO_PPW = 2706;        ! Privileged password
0635  0     literal NMA$C_PCNO_NUS = 2712;        ! Non-privileged user id
0636  0     literal NMA$C_PCNO_NAC = 2713;        ! Non-privileged account
0637  0     literal NMA$C_PCNO_NPW = 2714;        ! Non-privileged password
0638  0     literal NMA$C_PCNO_RPA = 2720;        ! Receive password
0639  0     literal NMA$C_PCNO_TPA = 2721;        ! Transmit password
0640  0     literal NMA$C_PCNO_ACC = 2730;        ! Access (coded byte of NMA$C_ACES_)
0641  0     literal NMA$C_PCNO_DAC = 2731;        ! Default access (coded byte of NMA$C_ACES_)
0642  0     literal NMA$C_PCNO_PIQ = 2740;        ! Pipeline quota (word)
0643  0     literal NMA$C_PCNO_ALI = 2741;        ! Alias address (word)
0644  0     literal NMA$C_PCNO_PRX = 2750;        ! Proxy access (coded byte of NMA$C_ACES_) !! Obsolete: Only for LIST/PURGE
0645  0     literal NMA$C_PCNO_DPX = 2751;        ! Default proxy access (coded byte of NMA$C_ACES_)
0646  0
0647  0     !     Server Base specific Node (Executor) parameters
0648  0     !
0649  0     literal NMA$C_PCNO_SRV_RPA = 3300;    ! Receive password
0650  0     !     0, Password set
0651  0     literal NMA$C_PCNO_SRV_TPA = 3301;    ! Transmit password
0652  0     !     0, Password set
0653  0     literal NMA$C_PCNO_SRV_VER = 3310;    ! Verification state
0654  0     !     0, On
0655  0     !     1, Off
0656  0     literal NMA$C_PCNO_SRV_ACB = 3402;    ! Active control buffers
0657  0     literal NMA$C_PCNO_SRV_ASB = 3404;    ! Active small buffers
0658  0     literal NMA$C_PCNO_SRV_ALB = 3406;    ! Active large buffers
0659  0     literal NMA$C_PCNO_SRV_MCB = 3410;    ! Maximum control buffers
0660  0     literal NMA$C_PCNO_SRV_MSB = 3420;    ! Maximum small buffers
0661  0     literal NMA$C_PCNO_SRV_MLB = 3430;    ! Maximum large buffers
0662  0     literal NMA$C_PCNO_SRV_LBS = 3431;    ! Large buffer size
0663  0     literal NMA$C_PCNO_SRV_NRB = 3440;    ! Minimum receive buffers
0664  0     literal NMA$C_PCNO_SRV_CPT = 3450;    ! CEX pool: total bytes
0665  0     literal NMA$C_PCNO_SRV_CPF = 3452;    ! CEX pool: number of segments
0666  0     literal NMA$C_PCNO_SRV_CPL = 3454;    ! CEX pool: largest segment
0667  0     literal NMA$C_PCNO_SRV_XPT = 3460;    ! Extended pool: total bytes
0668  0     literal NMA$C_PCNO_SRV_XPF = 3462;    ! Extended pool: number of segments
0669  0     literal NMA$C_PCNO_SRV_XPL = 3464;    ! Extended pool: largest segment
0670  0     !
0671  0     !        Area parameters
0672  0     !
0673  0     literal NMA$C_PCAR_STA = 0;           ! State (coded byte of NMA$C_STATE_)
0674  0     literal NMA$C_PCAR_COS = 820;         ! Cost (word)
0675  0     literal NMA$C_PCAR_HOP = 821;         ! Hops (byte)
0676  0     literal NMA$C_PCAR_CIR = 822;         ! Circuit (ascic)
0677  0     literal NMA$C_PCAR_NND = 830;         ! Next node to area
0678  0     !
0679  0     !        VMS-specific object parameters
0680  0     !
0681  0     literal NMA$C_PCOB_OAN = 400;         ! Active name
0682  0     literal NMA$C_PCOB_OAC = 410;         ! Active links
0683  0     literal NMA$C_PCOB_ONA = 500;         ! Name
0684  0     literal NMA$C_PCOB_OCO = 510;         ! Copies
0685  0     literal NMA$C_PCOB_OUS = 511;         ! User
0686  0     literal NMA$C_PCOB_OVE = 520;         ! Verification
0687  0     literal NMA$C_PCOB_NAM = 500;         ! Name
0688  0     literal NMA$C_PCOB_NUM = 513;         ! Number
0689  0     literal NMA$C_PCOB_FID = 530;         ! File id
0690  0     literal NMA$C_PCOB_PID = 535;         ! Process id
```

```
0691  0         literal NMA$C_PCOB_PRV = 540;        ! Privilege list
0692  0         literal NMA$C_PCOB_USR = 550;        ! User id
0693  0         literal NMA$C_PCOB_ACC = 551;        ! Account
0694  0         literal NMA$C_PCOB_PSW = 552;        ! Password
0695  0         literal NMA$C_PCOB_PRX = 560;        ! Proxy access (coded byte of NMA$C_ACES_)
0696  0         !
0697  0         !       VMS-specific link parameters
0698  0         !
0699  0         literal NMA$C_PCLK_STA = 0;          ! State
0700  0         literal NMA$C_PCLK_PID = 101;        ! Process id
0701  0         literal NMA$C_PCLK_NID = 102;        ! Partner Node
0702  0         literal NMA$C_PCLK_LAD = 105;        ! Link address [V2 only]
0703  0         !   entity is node rather than link !
0704  0         !   CM-1/2, DU-2 (link !), HI-4 (pid)
0705  0         literal NMA$C_PCLK_DLY = 110;        ! Round trip delay time (word)
0706  0         literal NMA$C_PCLK_RLN = 120;        ! Remote link number (word)
0707  0         literal NMA$C_PCLK_RID = 121;        ! Remote identification, PID or username (ascic)
0708  0         literal NMA$C_PCLK_USR = 130;        ! Username of link owner (ascic)
0709  0         literal NMA$C_PCLK_PRC = 131;        ! Process name of link owner (ascic)
0710  0         !
0711  0         !       Circuit counters
0712  0         !
0713  0         literal NMA$C_CTCIR_ZER = 0;         ! Seconds since last zeroed
0714  0         literal NMA$C_CTCIR_APR = 800;       ! Terminating packets received
0715  0         literal NMA$C_CTCIR_DPS = 801;       ! Originating packets sent
0716  0         literal NMA$C_CTCIR_ACL = 802;       ! Terminating congestion loss
0717  0         literal NMA$C_CTCIR_CRL = 805;       ! Corruption loss
0718  0         literal NMA$C_CTCIR_TPR = 810;       ! Transit packets received
0719  0         literal NMA$C_CTCIR_TPS = 811;       ! Transit packets sent
0720  0         literal NMA$C_CTCIR_TCL = 812;       ! Transit congestion loss
0721  0         literal NMA$C_CTCIR_LDN = 820;       ! Circuit down
0722  0         literal NMA$C_CTCIR_IFL = 821;       ! Initialization failure
0723  0         literal NMA$C_CTCIR_BRC = 1000;      ! Bytes received
0724  0         literal NMA$C_CTCIR_BSN = 1001;      ! Bytes sent
0725  0         literal NMA$C_CTCIR_MBY = 1002;      ! Multicast bytes received
0726  0         literal NMA$C_CTCIR_DBR = 1010;      ! Data blocks received
0727  0         literal NMA$C_CTCIR_DBS = 1011;      ! Data blocks sent
0728  0         literal NMA$C_CTCIR_DEI = 1020;      ! Data errors inbound
0729  0         literal NMA$C_CTCIR_DEO = 1021;      ! Data errors outbound
0730  0         literal NMA$C_CTCIR_RRT = 1030;      ! Remote reply timeouts
0731  0         literal NMA$C_CTCIR_LRT = 1031;      ! Local reply timeouts
0732  0         literal NMA$C_CTCIR_RBE = 1040;      ! Remote buffer errors
0733  0         literal NMA$C_CTCIR_LBE = 1041;      ! Local buffer errors
0734  0         literal NMA$C_CTCIR_SIE = 1050;      ! Selection intervals elapsed
0735  0         literal NMA$C_CTCIR_SLT = 1051;      ! Selection timeouts
0736  0         literal NMA$C_CTCIR_UBU = 1065;      ! NI user buffer unavailable
0737  0         literal NMA$C_CTCIR_RPE = 1100;      ! Remote process errors [V2 only]
0738  0         literal NMA$C_CTCIR_LPE = 1101;      ! Local process errors [V2 only]
0739  0         literal NMA$C_CTCIR_LIR = 1240;      ! Locally initiated resets
0740  0         literal NMA$C_CTCIR_RIR = 1241;      ! Remotely initiated resets
0741  0         literal NMA$C_CTCIR_NIR = 1242;      ! Network initiated resets
0742  0         !
0743  0         !       VMS-specific circuit counters
0744  0         !
0745  0         literal NMA$C_CTCIR_MNE = 2701;      ! Multicast received for protocol
0746  0         !   type, but not enabled
0747  0         literal NMA$C_CTCIR_ERI = 2750;      ! PCL Errors inbound, bit-mapped
```

```
0748  0  !           0  CRC error on receive
0749  0  literal NMA$C_CTCIR_ERO = 2751;        !  PCL Errors outbound, bit-mapped
0750  0  !           1  CRC on transmit
0751  0  !           2  Timeout on word
0752  0  literal NMA$C_CTCIR_RTO = 2752;        !  PCL Remote timeouts, bit-mapped
0753  0  !           0  Receiver busy
0754  0  !           1  Transmitter offline
0755  0  !           2  Receiver offline
0756  0  literal NMA$C_CTCIR_LTO = 2753;        !  PCL Local timeouts
0757  0  literal NMA$C_CTCIR_BER = 2754;        !  PCL Remote buffer errors
0758  0  literal NMA$C_CTCIR_BEL = 2755;        !  PCL Local buffer errors
0759  0  !
0760  0  !        Line counters
0761  0  !
0762  0  literal NMA$C_CTLIN_ZER = 0;           !  Seconds since last zeroed
0763  0  literal NMA$C_CTLIN_APR = 800;         !  Arriving packets received [V2 only]
0764  0  literal NMA$C_CTLIN_DPS = 801;         !  Departing packets sent [V2 only]
0765  0  literal NMA$C_CTLIN_ACL = 802;         !  Arriving congestion loss [V2 only]
0766  0  literal NMA$C_CTLIN_TPR = 810;         !  Transit packets received [V2 only]
0767  0  literal NMA$C_CTLIN_TPS = 811;         !  Transit packets sent [V2 only]
0768  0  literal NMA$C_CTLIN_TCL = 812;         !  Transit congestion loss [V2 only]
0769  0  literal NMA$C_CTLIN_LDN = 820;         !  Line down [V2 only]
0770  0  literal NMA$C_CTLIN_IFL = 821;         !  Initialization failure [V2 only]
0771  0  literal NMA$C_CTLIN_BRC = 1000;        !  Bytes received
0772  0  literal NMA$C_CTLIN_BSN = 1001;        !  Bytes sent
0773  0  literal NMA$C_CTLIN_MBY = 1002;        !  Multicast bytes received
0774  0  literal NMA$C_CTLIN_DBR = 1010;        !  Data blocks received
0775  0  literal NMA$C_CTLIN_DBS = 1011;        !  Data blocks sent
0776  0  literal NMA$C_CTLIN_MBL = 1012;        !  Multicast blocks received
0777  0  literal NMA$C_CTLIN_BID = 1013;        !  Blocks sent, initially deferred
0778  0  literal NMA$C_CTLIN_BS1 = 1014;        !  Blocks sent, single collision
0779  0  literal NMA$C_CTLIN_BSM = 1015;        !  Blocks sent, multiple collisions
0780  0  literal NMA$C_CTLIN_DEI = 1020;        !  Data errors inbound
0781  0  literal NMA$C_CTLIN_DEO = 1021;        !  Data errors outbound
0782  0  literal NMA$C_CTLIN_RRT = 1030;        !  Remote reply timeouts
0783  0  literal NMA$C_CTLIN_LRT = 1031;        !  Local reply timeouts
0784  0  literal NMA$C_CTLIN_RBE = 1040;        !  Remote buffer errors
0785  0  literal NMA$C_CTLIN_LBE = 1041;        !  Local buffer errors
0786  0  literal NMA$C_CTLIN_SIE = 1050;        !  Selection intervals elapsed [V2 only]
0787  0  literal NMA$C_CTLIN_SLT = 1051;        !  Selection timeouts [V2 only]
0788  0  literal NMA$C_CTLIN_SFL = 1060;        !  Send failure
0789  0  literal NMA$C_CTLIN_CDC = 1061;        !  Collision detect check failure
0790  0  literal NMA$C_CTLIN_RFL = 1062;        !  Receive failure
0791  0  literal NMA$C_CTLIN_UFD = 1063;        !  Unrecognized frame destination
0792  0  literal NMA$C_CTLIN_OVR = 1064;        !  Data overrun
0793  0  literal NMA$C_CTLIN_SBU = 1065;        !  System buffer unavailable
0794  0  literal NMA$C_CTLIN_UBU = 1066;        !  User buffer unavailable
0795  0  literal NMA$C_CTLIN_RPE = 1100;        !  Remote process errors
0796  0  literal NMA$C_CTLIN_LPE = 1101;        !  Local process errors
0797  0  !
0798  0  !    Line counter flags (byte offset will be 0)
0799  0  !
0800  0  literal NMA$S_NMADEF1 = 2;
0801  0  macro NMA$W_NODE = 0,0,16,0 %;
0802  0  macro NMA$V_ADDR = 0,0,10,0 %;
0803  0  literal NMA$S_ADDR = 10;
0804  0  macro NMA$V_AREA = 0,10,6,0 %;
```

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0805  0        literal NMA$S_AREA = 6;
0806  0        !
0807  0        !  Parameter ID word (DATA ID)
0808  0        !
0809  0        macro NMA$V_PTY_TYP = 0,0,15,0 %;
0810  0        literal NMA$S_PTY_TYP = 15;              ! Type mask
0811  0        !
0812  0        !  Parameter data type byte (DATA TYPE)
0813  0        !
0814  0        macro NMA$V_PTY_CLE = 0,0,6,0 %;
0815  0        literal NMA$S_PTY_CLE = 6;               ! Coded length mask
0816  0        macro NMA$V_PTY_MUL = 0,6,1,0 %;         ! Coded multiple indicator
0817  0        macro NMA$V_PTY_COD = 0,7,1,0 %;         ! Coded indicator
0818  0        macro NMA$V_PTY_CMU = 0,6,2,0 %;
0819  0        literal NMA$S_PTY_CMU = 2;               ! Coded multiple
0820  0        macro NMA$V_PTY_NLE = 0,0,4,0 %;
0821  0        literal NMA$S_PTY_NLE = 4;               ! Number length mask
0822  0        macro NMA$V_PTY_NTY = 0,4,2,0 %;
0823  0        literal NMA$S_PTY_NTY = 2;               ! Number type mask
0824  0        macro NMA$V_PTY_ASC = 0,6,1,0 %;         ! Ascii image indicator
0825  0        !   NTY values (how to display number):
0826  0        literal NMA$M_CTLIN_BTL = 8;
0827  0        literal NMA$M_CTLIN_FCS = 16;
0828  0        literal NMA$M_CTLIN_TRJ = 32;
0829  0        literal NMA$S_NMADEF2 = 1;
0830  0        macro NMA$V_CTLIN_BTL = 0,3,1,0 %;       ! block too long
0831  0        macro NMA$V_CTLIN_FCS = 0,4,1,0 %;       ! frame check
0832  0        macro NMA$V_CTLIN_TRJ = 0,5,1,0 %;       ! REJ sent
0833  0        literal NMA$M_CTLIN_RRJ = 8;
0834  0        literal NMA$S_NMADEF3 = 1;
0835  0        macro NMA$V_CTLIN_RRJ = 0,3,1,0 %;       ! REJ received
0836  0        literal NMA$M_CTLIN_RRN = 4;
0837  0        literal NMA$S_NMADEF4 = 1;
0838  0        macro NMA$V_CTLIN_RRN = 0,2,1,0 %;       ! RNR received
0839  0        literal NMA$M_CTLIN_TRN = 4;
0840  0        literal NMA$S_NMADEF5 = 1;
0841  0        macro NMA$V_CTLIN_TRN = 0,2,1,0 %;       ! RNR sent
0842  0        literal NMA$M_CTLIN_INR = 16;
0843  0        literal NMA$M_CTLIN_FMS = 32;
0844  0        literal NMA$S_NMADEF6 = 1;
0845  0        macro NMA$V_CTLIN_INR = 0,4,1,0 %;       ! invalid N(R) received
0846  0        macro NMA$V_CTLIN_FMS = 0,5,1,0 %;       ! FRMR sent
0847  0        literal NMA$M_CTLIN_TUN = 4;
0848  0        literal NMA$M_CTLIN_RUN = 16;
0849  0        literal NMA$M_CTLIN_FMR = 32;
0850  0        literal NMA$C_CTLIN_MBS = 2701;          ! Multicast packets transmitted
0851  0        literal NMA$C_CTLIN_MSN = 2702;          ! Multicast bytes transmitted
0852  0        literal NMA$C_CTLIN_RME = 2750;          ! PCL Remote errors, bit-mapped
0853  0        !           0  TDM bus busy
0854  0        !           1  Message rejected
0855  0        !           2  Message truncated
0856  0        !           3  Receiver offline
0857  0        !           4  Receiver busy
0858  0        !           5  Transmitter offline
0859  0        literal NMA$C_CTLIN_LCE = 2751;          ! PCL Local errors, bit-mapped
0860  0        !           0  Transmitter overrun
0861  0        !           1  CRC error on transmit
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0862  0  !           2 CRC error on receive
0863  0  !           3 Timeouts
0864  0  !           4 Non-existant memory transmit
0865  0  !           5 Non-existant memory receive
0866  0  !           6 Buffer to small
0867  0  !           7 Failed to open channel
0868  0  !           8 Memory overflow
0869  0  literal NMA$C_CTLIN_MSE = 2752;          ! PCL master/secondary errors, bit-mapped
0870  0  !           1 Master down
0871  0  !           2 Now master
0872  0  !
0873  0  !     Node counters
0874  0  !
0875  0  literal NMA$C_CTNOD_ZER = 0;             ! Seconds since last zeroed
0876  0  literal NMA$C_CTNOD_BRC = 600;           ! Bytes received
0877  0  literal NMA$C_CTNOD_BSN = 601;           ! Bytes sent
0878  0  literal NMA$C_CTNOD_MRC = 610;           ! Messages received
0879  0  literal NMA$C_CTNOD_MSN = 611;           ! Messages sent
0880  0  literal NMA$C_CTNOD_CRC = 620;           ! Connects received
0881  0  literal NMA$C_CTNOD_CSN = 621;           ! Connects sent
0882  0  literal NMA$C_CTNOD_RTO = 630;           ! Response timeouts
0883  0  literal NMA$C_CTNOD_RSE = 640;           ! Received connect resource errors
0884  0  literal NMA$C_CTNOD_MLL = 700;           ! Maximum logical links active
0885  0  literal NMA$C_CTNOD_APL = 900;           ! Aged packet loss
0886  0  literal NMA$C_CTNOD_NUL = 901;           ! Node unreachable packet loss
0887  0  literal NMA$C_CTNOD_NOL = 902;           ! Node out-of-range packet loss
0888  0  literal NMA$C_CTNOD_OPL = 903;           ! Oversized packet loss
0889  0  literal NMA$C_CTNOD_PFE = 910;           ! Packet format error
0890  0  literal NMA$C_CTNOD_RUL = 920;           ! Partial routing update loss
0891  0  literal NMA$C_CTNOD_VER = 930;           ! Verification reject
0892  0  !
0893  0  !     Server Base Specific Executor Node Counters
0894  0  !
0895  0  literal NMA$C_CTNOD_SRV_SYC = 3310;      ! Control buffer failures
0896  0  literal NMA$C_CTNOD_SRV_SYS = 3320;      ! Small buffer failures
0897  0  literal NMA$C_CTNOD_SRV_SYL = 3330;      ! Large buffer failures
0898  0  literal NMA$C_CTNOD_SRV_SYR = 3340;      ! Receive buffer failures
0899  0  !
0900  0  !          X.25 Protocol module counters
0901  0  !
0902  0  literal NMA$C_CTXP_ZER = 0;              ! Seconds since last zeroed
0903  0  literal NMA$C_CTXP_BRC = 1000;           ! Bytes received
0904  0  literal NMA$C_CTXP_BSN = 1001;           ! Bytes sent
0905  0  literal NMA$C_CTXP_BLR = 1010;           ! Data blocks received
0906  0  literal NMA$C_CTXP_BLS = 1011;           ! Data blocks sent
0907  0  literal NMA$C_CTXP_CRC = 1200;           ! Calls received
0908  0  literal NMA$C_CTXP_CSN = 1201;           ! Calls sent
0909  0  literal NMA$C_CTXP_FSR = 1210;           ! Fast selects received
0910  0  literal NMA$C_CTXP_FSS = 1211;           ! Fast selects sent
0911  0  literal NMA$C_CTXP_MSA = 1220;           ! Maximum switched circuits active
0912  0  literal NMA$C_CTXP_MCA = 1221;           ! Maximum channels active
0913  0  literal NMA$C_CTXP_RSE = 1230;           ! Received call resource errors
0914  0  literal NMA$C_CTXP_LIR = 1240;           ! Locally initiated resets
0915  0  literal NMA$C_CTXP_RIR = 1241;           ! Remotely initiated resets
0916  0  literal NMA$C_CTXP_NIR = 1242;           ! Network initiated resets
0917  0  literal NMA$C_CTXP_RST = 1250;           ! Restarts
0918  0  !
```

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0919  0    !          X.25 Server module counters
0920  0    !
0921  0    literal NMA$C_CTXS_ZER = 0;        ! Seconds since last zeroed
0922  0    literal NMA$C_CTXS_MCA = 200;      ! Maximum circuits active
0923  0    literal NMA$C_CTXS_ICR = 210;      ! Incoming calls rejected, no resources
0924  0    literal NMA$C_CTXS_LLR = 211;      ! Logical links rejected, no resources
0925  0    !
0926  0    !          Coded parameter values
0927  0    !
0928  0    !
0929  0    !    Loop test block type coded values
0930  0    !
0931  0    literal NMA$C_LOOP_MIX = 2;        ! Mixed
0932  0    literal NMA$C_LOOP_ONE = 1;        ! Ones
0933  0    literal NMA$C_LOOP_ZER = 0;        ! Zeroes
0934  0    !
0935  0    !    Default values for loop functions
0936  0    !
0937  0    literal NMA$C_LOOP_DCNT = 1;       ! Default count
0938  0    literal NMA$C_LOOP_DSIZ = 40;      ! Default message size
0939  0    !
0940  0    !    Values for LOOP HELP
0941  0    !
0942  0    literal NMA$C_LOOP_XMIT = 0;       ! Transmit
0943  0    literal NMA$C_LOOP_RECV = 1;       ! Receive
0944  0    literal NMA$C_LOOP_FULL = 2;       ! Full (both transmit and receive)
0945  0    !
0946  0    !    State coded values
0947  0    !
0948  0    literal NMA$C_STATE_ON = 0;        ! On
0949  0    literal NMA$C_STATE_OFF = 1;       ! Off
0950  0    !
0951  0    !      circuit/line/process specific state values
0952  0    !
0953  0    literal NMA$C_STATE_SER = 2;       ! Service (circuit/line only)
0954  0    literal NMA$C_STATE_CLE = 3;       ! Cleared
0955  0    !
0956  0    !      logging specific state values
0957  0    !
0958  0    literal NMA$C_STATE_HOL = 2;       ! Hold
0959  0    !
0960  0    !      node specific state values
0961  0    !
0962  0    literal NMA$C_STATE_SHU = 2;       ! Shut
0963  0    literal NMA$C_STATE_RES = 3;       ! Restricted
0964  0    literal NMA$C_STATE_REA = 4;       ! Reachable
0965  0    literal NMA$C_STATE_UNR = 5;       ! Unreachable
0966  0    !
0967  0    !    Looper/loader assistance coded values
0968  0    !
0969  0    literal NMA$C_ASS_ENA = 0;         ! Enabled
0970  0    literal NMA$C_ASS_DIS = 1;         ! Disabled
0971  0    !
0972  0    !    Configurator surveillance coded values
0973  0    !
0974  0    literal NMA$C_SUR_ENA = 0;         ! Enabled
0975  0    literal NMA$C_SUR_DIS = 1;         ! Disabled
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0976  0   !
0977  0   !    Circuit/Line substate coded values
0978  0   !
0979  0   literal NMA$C_LINSS_STA = 0;        ! Starting
0980  0   literal NMA$C_LINSS_REF = 1;        ! Reflecting
0981  0   literal NMA$C_LINSS_LOO = 2;        ! Looping
0982  0   literal NMA$C_LINSS_LOA = 3;        ! Loading
0983  0   literal NMA$C_LINSS_DUM = 4;        ! Dumping
0984  0   literal NMA$C_LINSS_TRI = 5;        ! Triggering
0985  0   literal NMA$C_LINSS_ASE = 6;        ! Autoservice
0986  0   literal NMA$C_LINSS_ALO = 7;        ! Autoloading
0987  0   literal NMA$C_LINSS_ADU = 8;        ! Autodumping
0988  0   literal NMA$C_LINSS_ATR = 9;        ! Autotriggering
0989  0   literal NMA$C_LINSS_SYN = 10;       ! Synchronizing
0990  0   literal NMA$C_LINSS_FAI = 11;       ! Failed
0991  0   literal NMA$C_LINSS_RUN = 12;       ! Running
0992  0   literal NMA$C_LINSS_UNS = 13;       ! Unsyncronised
0993  0   literal NMA$C_LINSS_IDL = 14;       ! Idle (PSI-only)
0994  0   !
0995  0   !    Circuit type coded values    [In V2, line type coded values]
0996  0   !
0997  0   literal NMA$C_CIRTY_POI = 0;        ! DDCMP Point
0998  0   literal NMA$C_CIRTY_CON = 1;        ! DDCMP Controller
0999  0   literal NMA$C_CIRTY_TRI = 2;        ! DDCMP Tributary
1000  0   literal NMA$C_CIRTY_X25 = 3;        ! X25
1001  0   literal NMA$C_CIRTY_DMC = 4;        ! DDCMP DMC compatibility mode (DMP)
1002  0   !        CIRTY LAPB, 5            /* LAPB  *** remove once all references have been changed to LAPB ***
1003  0   literal NMA$C_CIRTY_NI = 6;         ! NI
1004  0   !
1005  0   !          Circuit/Line Service
1006  0   !
1007  0   literal NMA$C_LINSV_ENA = 0;        ! Enabled
1008  0   literal NMA$C_LINSV_DIS = 1;        ! Disabled
1009  0   !
1010  0   !    Circuit polling state
1011  0   !
1012  0   literal NMA$C_CIRPST_AUT = 1;       ! Automatic
1013  0   literal NMA$C_CIRPST_ACT = 2;       ! Active
1014  0   literal NMA$C_CIRPST_INA = 3;       ! Inactive
1015  0   literal NMA$C_CIRPST_DIE = 4;       ! Dying
1016  0   literal NMA$C_CIRPST_DED = 5;       ! Dead
1017  0   !
1018  0   !    Circuit blocking values
1019  0   !
1020  0   literal NMA$C_CIRBLK_ENA = 0;       ! Enabled
1021  0   literal NMA$C_CIRBLK_DIS = 1;       ! Disabled
1022  0   !
1023  0   !    Circuit usage values
1024  0   !
1025  0   literal NMA$C_CIRUS_PER = 0;        ! Permanent
1026  0   literal NMA$C_CIRUS_INC = 1;        ! Incoming
1027  0   literal NMA$C_CIRUS_OUT = 2;        ! Outgoing
1028  0   !
1029  0   !    Circuit maximum receive buffers
1030  0   !
1031  0   literal NMA$C_CIRBF_UNL = 255;      ! Unlimited
1032  0   !
```

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1033  0    ! Circuit verification    [VMS only]
1034  0    !
1035  0    literal NMA$C_CIRVE_ENA = 0;            ! Enabled
1036  0    literal NMA$C_CIRVE_DIS = 1;            ! Disabled
1037  0    !
1038  0    ! Circuit (desired) transport type    [VMS only]
1039  0    !
1040  0    literal NMA$C_CIRXPT_ZND = 1;           ! Z-node
1041  0    literal NMA$C_CIRXPT_PH2 = 2;           ! Force Phase II on this circuit
1042  0    literal NMA$C_CIRXPT_PH3 = 3;           ! Routing III
1043  0    literal NMA$C_CIRXPT_RO3 = 3;           ! Routing III
1044  0    literal NMA$C_CIRXPT_NR4 = 4;           ! Nonrouting Phase IV
1045  0    !
1046  0    ! Line duplex coded values
1047  0    !
1048  0    literal NMA$C_DPX_FUL = 0;              ! Full
1049  0    literal NMA$C_DPX_HAL = 1;              ! Half
1050  0    !
1051  0    ! Line controller mode
1052  0    !
1053  0    literal NMA$C_LINCN_NOR = 0;            ! Normal
1054  0    literal NMA$C_LINCN_LOO = 1;            ! Loop
1055  0    !
1056  0    ! Line protocol values (same as CIRTY_)
1057  0    !
1058  0    literal NMA$C_LINPR_POI = 0;            ! DDCMP Point
1059  0    literal NMA$C_LINPR_CON = 1;            ! DDCMP Controller
1060  0    literal NMA$C_LINPR_TRI = 2;            ! DDCMP Tributary
1061  0    literal NMA$C_LINPR_DMC = 4;            ! DDCMP DMC compatibility mode (DMP)
1062  0    literal NMA$C_LINPR_LAPB = 5;           ! LAPB
1063  0    literal NMA$C_LINPR_NI = 6;             ! NI
1064  0    literal NMA$C_LINPR_BSY = 9;            ! BISYNC
1065  0    !
1066  0    ! Line protocol values for the PCL-11B
1067  0    !
1068  0    literal NMA$C_LINPR_MAS = 1;            ! Master (controls clock signals)
1069  0    literal NMA$C_LINPR_NEU = 2;            ! Neutral (uses master's clock signals)
1070  0    literal NMA$C_LINPR_SEC = 0;            ! Secondary (backup for master failure)
1071  0    !
1072  0    ! Line clock values
1073  0    !
1074  0    literal NMA$C_LINCL_EXT = 0;            ! External
1075  0    literal NMA$C_LINCL_INT = 1;            ! Internal
1076  0    !
1077  0    ! Line type coded values   [V2 only]
1078  0    !
1079  0    literal NMA$C_LINTY_POI = 0;            ! DDCMP Point
1080  0    literal NMA$C_LINTY_CON = 1;            ! DDCMP Controller
1081  0    literal NMA$C_LINTY_TRI = 2;            ! DDCMP Tributary
1082  0    literal NMA$C_LINTY_DMC = 3;            ! DDCMP DMC compatibility mode (DMP)
1083  0    !
1084  0    ! Line multicast address function code [VMS datalink only].
1085  0    ! Destination and physical address function codes too [VMS datalink only].
1086  0    !
1087  0    literal NMA$C_LINMC_SET = 1;            ! Set address(es)
1088  0    literal NMA$C_LINMC_CLR = 2;            ! Clear address(es)
1089  0    literal NMA$C_LINMC_CAL = 3;            ! Clear entire list of multicast addresses
```

```
1090  0        literal NMA$C_LINMC_SDF = 4;              ! Set physical address to DECnet default
1091  0        !
1092  0        !   NI line protocol access mode  [VMS datalink only]
1093  0        !
1094  0        literal NMA$C_ACC_SHR = 1;                ! Shared access (default protocol user)
1095  0        literal NMA$C_ACC_LIM = 2;                ! Limited access (point-to-point conn.)
1096  0        literal NMA$C_ACC_EXC = 3;                ! Exclusive access (allow no others)
1097  0        !
1098  0        !   PCL-11B address mode
1099  0        !
1100  0        literal NMA$C_LINMO_AUT = 1;              ! Auto address mode
1101  0        literal NMA$C_LINMO_SIL = 2;              ! Silo address mode
1102  0        !
1103  0        !   X.25 line mode
1104  0        !
1105  0        literal NMA$C_X25MD_DTE = 1;              ! Line operates as DTE
1106  0        literal NMA$C_X25MD_DCE = 2;              ! Line operates as DCE
1107  0        literal NMA$C_X25MD_DTL = 3;              ! Line is a DTE in loopback
1108  0        literal NMA$C_X25MD_DCL = 4;              ! Line is a DCE in loopback
1109  0        !
1110  0        !   Node type values
1111  0        !
1112  0        literal NMA$C_NODTY_ROU = 0;              ! Routing Phase III
1113  0        literal NMA$C_NODTY_NON = 1;              ! Nonrouting Phase III
1114  0        literal NMA$C_NODTY_PHA = 2;              ! Phase II
1115  0        literal NMA$C_NODTY_AREA = 3;             ! Area
1116  0        literal NMA$C_NODTY_RT4 = 4;              ! Routing Phase IV
1117  0        literal NMA$C_NODTY_NR4 = 5;              ! Nonrouting Phase IV
1118  0        !
1119  0        !   Node password values
1120  0        !
1121  0        literal NMA$C_NODPW_SET = 0;              ! Password set
1122  0        !
1123  0        !   Node CPU type codes
1124  0        !
1125  0        literal NMA$C_CPU_8 = 0;                  ! PDP-8 processor
1126  0        literal NMA$C_CPU_11 = 1;                 ! PDP-11 processor
1127  0        literal NMA$C_CPU_1020 = 2;               ! Decsystem 10/20 processor
1128  0        literal NMA$C_CPU_VAX = 3;                ! Vax processor
1129  0        !
1130  0        !   Service node version coded values
1131  0        !
1132  0        literal NMA$C_NODSNV_PH3 = 0;             ! Phase III
1133  0        literal NMA$C_NODSNV_PH4 = 1;             ! Phase IV
1134  0        !
1135  0        !   Node software type code
1136  0        !
1137  0        literal NMA$C_SOFT_SECL = 0;              ! Secondary loader
1138  0        literal NMA$C_SOFT_TERL = 1;              ! Tertiary loader
1139  0        literal NMA$C_SOFT_OSYS = 2;              ! Operating system
1140  0        literal NMA$C_SOFT_DIAG = 3;              ! Diagnostics
1141  0        !
1142  0        !   Node access (and default access) codes
1143  0        !
1144  0        literal NMA$C_ACES_NONE = 0;              ! None
1145  0        literal NMA$C_ACES_INCO = 1;              ! Incoming
1146  0        literal NMA$C_ACES_OUTG = 2;              ! Outgoing
```

```
1147   0       literal NMA$C_ACES_BOTH = 3;            ! Both
1148   0       literal NMA$C_ACES_REQU = 4;           ! Required
1149   0       !
1150   0       !   X.25 Protocol type values
1151   0       !
1152   0       literal NMA$C_XPRTY_BIL = 1;           ! Bilateral
1153   0       !
1154   0       !   X.25 protocol state values
1155   0       !
1156   0       literal NMA$C_XPRST_ON = 0;            ! On
1157   0       literal NMA$C_XPRST_OFF = 1;           ! Off
1158   0       literal NMA$C_XPRST_SHU = 2;           ! Shut
1159   0       !
1160   0       !   X.25 protocol multi-network support flag
1161   0       !
1162   0       literal NMA$C_XPRMN_ENA = 0;           ! Enabled
1163   0       literal NMA$C_XPRMN_DIS = 1;           ! Disabled
1164   0       !
1165   0       !   X.25 protocol DTE substate values
1166   0       !
1167   0       literal NMA$C_XPRSB_RUN = 12;          ! Running
1168   0       literal NMA$C_XPRSB_UNS = 13;          ! Unsynchronized
1169   0       literal NMA$C_XPRSB_SYN = 10;          ! Synchronizing
1170   0       !
1171   0       !    Months of the Year Codes
1172   0       !
1173   0       literal NMA$C_JAN = 1;
1174   0       literal NMA$C_FEB = 2;
1175   0       literal NMA$C_MAR = 3;
1176   0       literal NMA$C_APR = 4;
1177   0       literal NMA$C_MAY = 5;
1178   0       literal NMA$C_JUN = 6;
1179   0       literal NMA$C_JUL = 7;
1180   0       literal NMA$C_AUG = 8;
1181   0       literal NMA$C_SEP = 9;
1182   0       literal NMA$C_OCT = 10;
1183   0       literal NMA$C_NOV = 11;
1184   0       literal NMA$C_DEC = 12;
1185   0       !
1186   0       !    Service device codes (MOP)
1187   0       !
1188   0       literal NMA$C_SOFD_DP = 0;             ! DP11
1189   0       literal NMA$C_SOFD_UNA = 1;            ! UNA
1190   0       literal NMA$C_SOFD_DU = 2;             ! DU11
1191   0       literal NMA$C_SOFD_DL = 4;             ! DL11
1192   0       literal NMA$C_SOFD_DQ = 6;             ! DQ11
1193   0       literal NMA$C_SOFD_DA = 8;             ! DA11
1194   0       literal NMA$C_SOFD_DUP = 10;           ! DUP11
1195   0       literal NMA$C_SOFD_DMC = 12;           ! DMC11
1196   0       literal NMA$C_SOFD_DMP = 18;           ! DMP11
1197   0       literal NMA$C_SOFD_DTE = 20;           ! DTE20
1198   0       literal NMA$C_SOFD_KL8 = 32;           ! KL8
1199   0       literal NMA$C_SOFD_DMV = 34;           ! DMV
1200   0       literal NMA$C_SOFD_DPV = 36;           ! DPV
1201   0       literal NMA$C_SOFD_DMF = 38;           ! DMF32
1202   0       !
1203   0       !      Status codes for field support routines
```

```
1204  0      !
1205  0      literal NMA$_SUCCESS = 1;              ! Unqualified success
1206  0      literal NMA$_SUCCFLDRPL = 9;           ! Success with field replaced
1207  0      literal NMA$_BADFID = 0;               ! Invalid field id code
1208  0      literal NMA$_BADDAT = 8;               ! Invalid data format
1209  0      literal NMA$_BADOPR = 16;              ! Invalid operation
1210  0      literal NMA$_BUFTOOSMALL = 24;         ! Buffer too small
1211  0      literal NMA$_FLDNOTFND = 32;           ! Field not found
1212  0      !
1213  0              !       Permanent database file ID codes
1214  0
1215  0      literal NMA$C_OPN_MIN = 0;             ! Minimum !
1216  0      literal NMA$C_OPN_NODE = 0;            ! Nodes
1217  0      literal NMA$C_OPN_LINE = 1;            ! Lines
1218  0      literal NMA$C_OPN_LOG = 2;             ! Logging
1219  0      literal NMA$C_OPN_OBJ = 3;             ! Object
1220  0      literal NMA$C_OPN_CIR = 4;             ! Circuit
1221  0      literal NMA$C_OPN_X25 = 5;             ! Module X25
1222  0      literal NMA$C_OPN_X29 = 6;             ! Module X29
1223  0      literal NMA$C_OPN_CNF = 7;             ! Module Configurator
1224  0      literal NMA$C_OPN_MAX = 7;             ! Maximum ! permanent database files
1225  0      literal NMA$C_OPN_ALL = 127;          ! All opened files
1226  0      !
1227  0              !       Open access codes
1228  0
1229  0      literal NMA$C_OPN_AC_RO = 0;           ! Read Only
1230  0      literal NMA$C_OPN_AC_RW = 1;           ! Read write
1231  0
1232  0              !       Define Phase II NICE function codes
1233  0
1234  0      literal NMA$C_FN2_DLL = 2;             ! Down line load
1235  0      literal NMA$C_FN2_ULD = 3;             ! Upline Dump
1236  0      literal NMA$C_FN2_TRI = 4;             ! Trigger remote bootstrap
1237  0      literal NMA$C_FN2_LOO = 5;             ! Loop back test
1238  0      literal NMA$C_FN2_TES = 6;             ! Send test message to be looped
1239  0      literal NMA$C_FN2_SET = 7;             ! Set parameter
1240  0      literal NMA$C_FN2_REA = 8;             ! Read Parameter
1241  0      literal NMA$C_FN2_ZER = 9;             ! Zero counters
1242  0      literal NMA$C_FN2_LNS = 14;            ! Line service
1243  0      !
1244  0              !       Change parameters (volatile only)
1245  0
1246  0      literal NMA$C_OP2_CHNST = 5;           ! Node operational status
1247  0      literal NMA$C_OP2_CHLST = 3;           ! Line operational status
1248  0      !
1249  0              !       Read Information (Status and Counters only)
1250  0
1251  0      literal NMA$C_OP2_RENCT = 0;           ! Local node counters
1252  0      literal NMA$C_OP2_RENST = 1;           ! local node status
1253  0      literal NMA$C_OP2_RELCT = 4;           ! Line counters
1254  0      literal NMA$C_OP2_RELST = 5;           ! Line status
1255  0      !
1256  0              !       Zero counters
1257  0
1258  0      literal NMA$C_OP2_ZENCT = 0;           ! Local Node counters
1259  0      literal NMA$C_OP2_ZELCT = 2;           ! Line counters
1260  0      !
```

```
 1261   0              !          Line entity codes
 1262   0              !
 1263   0              literal NMA$C_EN2_KNO = 0;              ! Known lines
 1264   0              literal NMA$C_EN2_LID = 1;              ! Line id
 1265   0              literal NMA$C_EN2_LCN = 2;              ! Line convenience name
 1266   0              !
 1267   0              !          NML Return codes
 1268   0              !
 1269   0              literal NMA$C_STS_SUC = 1;              ! Success
 1270   0              literal NMA$C_STS_MOR = 2;              ! Request accepted, more to come
 1271   0              literal NMA$C_STS_PAR = 3;              ! Partial reply
 1272   0              !
 1273   0              literal NMA$C_STS_DON = -128;           ! Done
 1274   0              !
 1275   0              literal NMA$C_STS_FUN = -1;             ! Unrecognized function or option
 1276   0              literal NMA$C_STS_INV = -2;             ! Invalid message format
 1277   0              literal NMA$C_STS_PRI = -3;             ! Privilege violation
 1278   0              literal NMA$C_STS_SIZ = -4;             ! Oversized management command message
 1279   0              literal NMA$C_STS_MPR = -5;             ! Network management program error
 1280   0              literal NMA$C_STS_PTY = -6;             ! Unrecognized parameter type
 1281   0              literal NMA$C_STS_MVE = -7;             ! Incompatible management version
 1282   0              literal NMA$C_STS_CMP = -8;             ! Unrecognised component
 1283   0              literal NMA$C_STS_IDE = -9;             ! Invalid identification format
 1284   0              literal NMA$C_STS_LCO = -10;            ! Line communication error
 1285   0              literal NMA$C_STS_STA = -11;            ! Component in wrong state
 1286   0              literal NMA$C_STS_FOP = -13;            ! File open error
 1287   0              literal NMA$C_STS_FCO = -14;            ! Invalid file contents
 1288   0              literal NMA$C_STS_RES = -15;            ! Resource error
 1289   0              literal NMA$C_STS_PVA = -16;            ! Invalid parameter value
 1290   0              literal NMA$C_STS_LPR = -17;            ! Line protocol error
 1291   0              literal NMA$C_STS_FIO = -18;            ! File i/o error
 1292   0              literal NMA$C_STS_MLD = -19;            ! Mirror link disconnected
 1293   0              literal NMA$C_STS_ROO = -20;            ! No room for new entry
 1294   0              literal NMA$C_STS_MCF = -21;            ! Mirror connect failed
 1295   0              literal NMA$C_STS_PNA = -22;            ! Parameter not applicable
 1296   0              literal NMA$C_STS_PLO = -23;            ! Parameter value too long
 1297   0              literal NMA$C_STS_HAR = -24;            ! Hardware failure
 1298   0              literal NMA$C_STS_OPE = -25;            ! Operation failure
 1299   0              literal NMA$C_STS_SYS = -26;            ! System-specific management
 1300   0              !        function not supported
 1301   0              literal NMA$C_STS_PGP = -27;            ! Invalid parameter grouping
 1302   0              literal NMA$C_STS_BLR = -28;            ! Bad loopback response
 1303   0              literal NMA$C_STS_PMS = -29;            ! Parameter missing
 1304   0              !
 1305   0              literal NMA$C_STS_ALI = -127;           ! Invalid alias identification
 1306   0              literal NMA$C_STS_OBJ = -126;           ! Invalid object identification
 1307   0              literal NMA$C_STS_PRO = -125;           ! Invalid process identification
 1308   0              literal NMA$C_STS_LNK = -124;           ! Invalid link identification
 1309   0              !
 1310   0              !          Error details
 1311   0              !
 1312   0              !
 1313   0              !          STS_FOP and STS_FIO
 1314   0              !
 1315   0              literal NMA$C_FOPDTL_PDB = 0;           ! Permanent database
 1316   0              literal NMA$C_FOPDTL_LFL = 1;           ! Load file
 1317   0              literal NMA$C_FOPDTL_DFL = 2;           ! Dump file
```

```
1318  0        literal NMA$C_FOPDTL_SLF = 3;          ! Secondary loader
1319  0        literal NMA$C_FOPDTL_TLF = 4;          ! Tertiary loader
1320  0        literal NMA$C_FOPDTL_SDF = 5;          ! Secondary dumper
1321  0        !
1322  0        !          STS_MLD, STS_MCF
1323  0        !
1324  0        literal NMA$C_NCEDTL_NNA = 0;          ! No node name set
1325  0        literal NMA$C_NCEDTL_INN = 1;          ! Invalid node name format
1326  0        literal NMA$C_NCEDTL_UNA = 2;          ! Unrecognised node name
1327  0        literal NMA$C_NCEDTL_UNR = 3;          ! Node unreachable
1328  0        literal NMA$C_NCEDTL_RSC = 4;          ! Network resources
1329  0        literal NMA$C_NCEDTL_RJC = 5;          ! Rejected by object
1330  0        literal NMA$C_NCEDTL_ONA = 6;          ! Invalid object name format
1331  0        literal NMA$C_NCEDTL_OBJ = 7;          ! Unrecognised object
1332  0        literal NMA$C_NCEDTL_ACC = 8;          ! Access control rejected
1333  0        literal NMA$C_NCEDTL_BSY = 9;          ! Object too busy
1334  0        literal NMA$C_NCEDTL_NRS = 10;         ! No response from object
1335  0        literal NMA$C_NCEDTL_NSD = 11;         ! Node shut down
1336  0        literal NMA$C_NCEDTL_DIE = 12;         ! Node or object failed
1337  0        literal NMA$C_NCEDTL_DIS = 13;         ! Disconnect by object
1338  0        literal NMA$C_NCEDTL_ABO = 14;         ! Abort by object
1339  0        literal NMA$C_NCEDTL_ABM = 15;         ! Abort by management
1340  0        !
1341  0        !          STS_OPE
1342  0        !
1343  0        literal NMA$C_OPEDTL_DCH = 0;          !    Data check
1344  0        literal NMA$C_OPEDTL_TIM = 1;          !    Timeout
1345  0        literal NMA$C_OPEDTL_ORN = 2;          !    Data overrun
1346  0        literal NMA$C_OPEDTL_ACT = 3;          !    Unit is active
1347  0        literal NMA$C_OPEDTL_BAF = 4;          !    Buffer allocation failure
1348  0        literal NMA$C_OPEDTL_RUN = 5;          !    Protocol running
1349  0        literal NMA$C_OPEDTL_DSC = 6;          !    Line disconnected
1350  0        literal NMA$C_OPEDTL_FTL = 8;          !    Fatal hardware error
1351  0        literal NMA$C_OPEDTL_MNT = 11;         !    DDCMP maintainance message received
1352  0        literal NMA$C_OPEDTL_LST = 12;         !    Data lost due to buffer size mismatch
1353  0        literal NMA$C_OPEDTL_THR = 13;         !    Threshold error
1354  0        literal NMA$C_OPEDTL_TRB = 14;         !    Tributary malfunction
1355  0        literal NMA$C_OPEDTL_STA = 15;         !    DDCMP start message received
1356  0        literal NMA$S_NMADEF7 = 1;
1357  0        macro NMA$V_CTLIN_TUN = 0,2,1,0 %;     ! transmit underrun
1358  0        macro NMA$V_CTLIN_RUN = 0,4,1,0 %;     ! receive underrun
1359  0        macro NMA$V_CTLIN_FMR = 0,5,1,0 %;     ! FRMR received
1360  0        !
1361  0        !   VMS-specific line counters
1362  0        !
```

```
1363   0    |
1364   0    |   Version:        'V04-000'
1365   0    |
1366   0    |++
1367   0    |        NMATAIL.B32
1368   0    |
1369   0    |        Source to undeclare the macros required for the precompile of
1370   0    |        NMALIBRY.B32 so they do not appear in the library.
1371   0    |--
1372   0    |
1373   0
1374   0    UNDECLARE %QUOTE $EQULST,
1375   0              %QUOTE GET1ST_,
1376   0              %QUOTE GET2ND_,
1377   0              %QUOTE NUL2ND_
1378   0              ;
1379   0
1380   0    |
1381   0    |        End of NMATAIL.B32
1382   0    |
```

;   COMMAND QUALIFIERS

;   BLISS/LIB=LIB$:NMALIBRY/LIS=LIS$:NMALIBRY SRC$:NMAHEAD+LIB$:NMADEF+SRC$:NMATAIL

; Run Time: 00:13.1
; Elapsed Time: 00:21.7
; Lines/CPU Min: 6324
; Lexemes/CPU-Min: 26508
; Memory Used: 147 pages
; Library Precompilation Complete

NETACP

NDDRIVER
MAP

NETDRIVER
MAP

NETSERVER
MAP

DLEDEF
SDL

NETACP
MAP

NETNPAGED
SDL

NMALIBRY
LIS

NETCTL
SDL