

NNN		NNN	CCCCCCCCCCCC	PPPPPPPPPPP	
NNN		NNN	CCCCCCCCCCCC	PPPPPPPPPPP	
NNN		NNN	CCCCCCCCCCCC	PPPPPPPPPPP	
NNN		NNN	CCC	PPP	PPP
NNN		NNN	CCC	PPP	PPP
NNN		NNN	CCC	PPP	PPP
NNNNNN		NNN	CCC	PPP	PPP
NNNNNN		NNN	CCC	PPP	PPP
NNNNNN		NNN	CCC	PPP	PPP
NNN	NNN	NNN	CCC	PPPPPPPPPPP	
NNN	NNN	NNN	CCC	PPPPPPPPPPP	
NNN	NNN	NNN	CCC	PPPPPPPPPPP	
NNN		NNNNNN	CCC	PPP	
NNN		NNNNNN	CCC	PPP	
NNN		NNNNNN	CCC	PPP	
NNN		NNN	CCC	PPP	
NNN		NNN	CCC	PPP	
NNN		NNN	CCC	PPP	
NNN		NNN	CCC	PPP	
NNN		NNN	CCCCCCCCCCCC	PPP	
NNN		NNN	CCCCCCCCCCCC	PPP	
NNN		NNN	CCCCCCCCCCCC	PPP	

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```

NN      NN  MM      MM      AAAAAA  DDDDDDDD  EEEEEEEEE  FFFFFFFFFF
NN      NN  MM      MM      AAAAAA  DDDDDDDD  EEEEEEEEE  FFFFFFFFFF
NN      NN  MMMM    MMMM    AA      AA      DD      DD  EE      FF
NN      NN  MMMM    MMMM    AA      AA      DD      DD  EE      FF
NNNN    NN  MM      MM      AA      AA      DD      DD  EE      FF
NNNN    NN  MM      MM      AA      AA      DD      DD  EE      FF
NN  NN  NN  MM      MM      AA      AA      DD      DD  EEEEEEEE  FFFFFFFF
NN  NN  NN  MM      MM      AA      AA      DD      DD  EEEEEEEE  FFFFFFFF
NN      NNNN  MM      MM      AAAAAAAAAA  DD      DD  EE      FF
NN      NNNN  MM      MM      AAAAAAAAAA  DD      DD  EE      FF
NN      NN  MM      MM      AA      AA      DD      DD  EE      FF
NN      NN  MM      MM      AA      AA      DD      DD  EE      FF
NN      NN  MM      MM      AA      AA      DDDDDDDD  EEEEEEEEE  FF
NN      NN  MM      MM      AA      AA      DDDDDDDD  EEEEEEEEE  FF

```

```

SSSSSSSS  DDDDDDDD  LL
SSSSSSSS  DDDDDDDD  LL
SS      DD      DD  LL
SS      DD      DD  LL
SS      DD      DD  LL
SS      DD      DD  LL
SSSSSS  DD      DD  LL
SSSSSS  DD      DD  LL
SS      DD      DD  LL
SS      DD      DD  LL
SS      DD      DD  LL
SS      DD      DD  LL
SSSSSSSS  DDDDDDDD  LLLLLLLLLL
SSSSSSSS  DDDDDDDD  LLLLLLLLLL

```

{ .TITLE NMADEF Network Management Definitions

{ Version: 'V04-000'

```

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```

{++ FACILITY: DECnet-VAX Network Management Components

{ ABSTRACT: Common Definitions for Network Management Components

{ ENVIRONMENT: VAX/VMS Operating System

{ AUTHOR: Darrell Duffy , CREATION DATE: 3-October-1979

- { MODIFIED BY:
- { V03-043 PRD0092 Paul R. DeStefano 06-Apr-1984
Added values for operation failure error detail.
 - { V03-042 PRD0085 Paul R. DeStefano 29-Mar-1984
Correct values for X.25 Access module parameters.
Add data type of NMA5C_PTY_H4.
 - { V03-041 TMK0003 Todd M. Katz 17-Jan-1984
Add NMA5C_LINMC_SDF. This address qualifier specifies
that the physical address for the ETHERnet controller
should be setup as the default ETHERnet address.
 - { V03-040 PRD0044 Paul R. DeStefano 05-Jan-1984
Add SERVICE NODE VERSION parameter.
 - { V03-039 TMK0002 Todd M. Katz 11-Nov-1983

Remove NMA\$C_LINCN_ILO as a valid line controller mode. Instead add the line parameter NMA\$C_PCLI_ILP. This line parameter can only be used to set the loopback mode of a DELUA to internal.

- V03-038 TMK0001 Todd M. Katz 08-Nov-1983
Add NMA\$C_LINCN_ILO (internal loop) as a valid line controller mode. This mode is used only by the DELUA at the present time.
- V03-037 TMH0037 Tim Halvorsen 13-Jul-1983
Add EXECUTOR ALIAS parameter (VMS specific).
- V03-036 RPG0034 Bob Grosso 23-Jun-1983
Add a bunch of codes for Meg, such as protocol Bisync.
- V03-035 MKP0001 Kathy Perko 30-April-1983
Add PCCI_SBB (circuit service substate) and PCCI_SPY (circuit service physical address).
- V03-034 RPG0034 Bob Grosso 22-Mar-1983
Add PCNO_LPN and PCNO_LAN for LOOP CIRCUIT
- V03-033 RNG0033 Rod Gamache 14-Mar-1983
Changed value on PCLI_DES parameter.
- V03-032 RPG0032 Bob Grosso 10-Mar-1983
Add PCLI_DES.
- V03-031 RPG0031 Bob Grosso 25-Feb-1983
Add OPN_CNF for the NML CONFIGURATOR data base.
- V03-030 RPG0030 Bob Grosso 07-Feb-1983
Add "REQUIRED" to node access.
Add symbols for RSX and SERVER BASE system specific parameters.
Change LOOP_DSIZ from 128 to 40.
Add NMA\$C_SOFT_DIAG.
Change PTY_TYP to 15 bits from 12 to permit the large parameter IDs of CONFIGURATOR MODULE.
Add codes for months of the year.
- V03-029 RPG0029 Bob Grosso 11-Jan-1983
Correct value for PCLI_BSZ, Device Buffer Size
- V03-028 RPG0028 Bob Grosso 05-Jan-1983
Add PCLI_BSZ, Device Buffer Size
- V03-027 RPG0027 Bob Grosso 15-Dec-1982
Add VMS-specific parameter, PCLI_EPT, LINE ETHERNET protocol type.
Add symbol for data type HEX WORD.
- V03-026 RPG0026 Bob Grosso 19-Nov-1982
Supply extraction macros for node area and address.

Remove LINPR_X25, CIRTY_LAPB, CIRTY_LAP.

V03-025 RPG0025 Bob Grosso 12-Nov-1982
Rename endnodes to nonrouters.
Correct values of CIRTY_X25, CIRTY_LAPB and LINTY_X25,
LINTY_LAPB.

V03-024 RPG0023 Bob Grosso 11-Oct-1982
Reinstate CIRXPT_PH3.

V03-023 RPG0023 Bob Grosso 28-Sep-1982
Add code for Area

V03-022 RPG0022 Bob Grosso 14-Sep-1982
Re-activate CIRTY_X25 and LINPR_X25.

V03-021 RPG0021 Bob Grosso 03-Sep-1982
Add coded values for circuit type.
Fix up circuit and line type values and comments.
Change DTE substate values to match circuit/line substate
values so that show/list works synergistically.

V03-020 TMH0020 Tim Halvorsen 18-Aug-1982
Add coded values for DTE substate.
Add UNA Echo Mode line parameter.

V03-019 RPG0019 Bob Grosso 02-Aug-1982
Add line counter flags.
Add X25-Protocol DTE Maximum Circuits code.
Add X25-Protocol DTE Substate code.
Add permanent database file ID codes OPN_X25 and OPN_X29.

V018 TMH0018 Tim Halvorsen 17-Jun-1982
Fix typo in PCL "Secondary" protocol value.

V017 TMH0017 Tim Halvorsen 07-Jun-1982
Add NI protocol sharing parameter, and values.

V016 RNG001 Rod Gamache 03-Jun-1982
Add extra Ethernet parameters.

V015 TMH0015 Tim Halvorsen 29-Mar-1982
Expand parameter data type definitions.
Add parameters to support Ethernet.

V014 TMH0014 Tim Halvorsen 25-Feb-1982
Add extra parameters for X.25 support.

V013 TMH0013 Tim Halvorsen 20-Jan-1982
Fix classification of MST circuit parameter to
correctly indicate that it is a datalink only
parameter, rather than a NICE parameter.
Document the format of each coded parameter.

V012 TMH0012 Tim Halvorsen 31-Dec-1981
Add DMF-32 as a service device.

V011 TMH0011 Tim Halvorsen 28-Dec-1981
Add PCL datalink parameters and counters. Remove
previous PCL parameters which are now obsolete.

V010 TMH0010 Tim Halvorsen 1-Dec-1981
Add proxy parameters to executor, node and object
entities.

V009 TMH0009 Tim Halvorsen 11-Nov-1981
Add LINE RETRANSMIT timer parameter.
Add LINK REMOTE IDENTIFICATION parameter.

V008 TMH0008 Tim Halvorsen 04-Nov-1981
Add circuit transport type parameter.
Add UNA driver datalink-only parameter/counter ID's.

V007 RNG0007 Rod N. Gamache 28-Sep-1981
Add Maintenance state as P2 parameter.

V006 LMK0006 Len Kawell 27-Sep-1981
Modify for Network Management V3.0.

V005 TMH0005 Tim Halvorsen 28-Aug-1981
Add VMS-specific line parameters BFS, NMS.

V004 TMH0004 Tim Halvorsen 15-Aug-1981
Add DMP, DMV, DPV for MOP device classes.
Add system-specific link parameters.

V003 TMH0003 Tim Halvorsen 05-Aug-1981
Change RETRANSMIT TIMER from a line parameter to a
circuit parameter.

V002 TMH0002 Tim Halvorsen 27-Jul-1981
Fix misc. typos and re-interpretations from the network
management spec. Add PCL11-B line counters.
Add new permanent database IDs.
Add CIRCUIT VERIFICATION, NODE ACCESS, DEFAULT ACCESS,
and PIPELINE QUOTA, all VMS system-specific parameters.

V001 TMH0001 Tim Halvorsen 10-Jun-1981
Add definitions for DNA V2.2 NICE. Renamed to NMADEF.MDL
to allow concurrent development of 2.0 and 2.2 software.

```
{  
{ Symbols for the Network Management Layer of DECnet-VAX  
{
```

```
module $NMADEF;
```

```
/*  
/* Object type  
/*
```

```
constant OBJ_NIC equals 19 prefix NMA tag $C; /* Nice listener
```

```
/*  
/* Function codes  
/*
```

```
constant FNC_LOA equals 15 prefix NMA tag $C; /* Request down-line load  
constant FNC_DUM equals 16 prefix NMA tag $C; /* Request up-line dump  
constant FNC_TRI equals 17 prefix NMA tag $C; /* Trigger bootstrap  
constant FNC_TES equals 18 prefix NMA tag $C; /* Test  
constant FNC_CHA equals 19 prefix NMA tag $C; /* Change parameter  
constant FNC_REA equals 20 prefix NMA tag $C; /* Read information  
constant FNC_ZER equals 21 prefix NMA tag $C; /* Zero counters  
constant FNC_SYS equals 22 prefix NMA tag $C; /* System-specific function
```

```

/*
/* Option byte
/*
/* common to change parameter, read information and zero counters
/*

aggregate NMADEF union fill prefix NMA$;
  NMADEF_BITS0 structure fill;
    OPT_ENT bitfield mask length 3;          /* Entity type
    FILL_1 bitfield length 3 fill prefix NMADEF tag $$;

/*
/* change parameter
/*
    OPT_CLE bitfield mask;                  /* Clear parameter

/*
/* common to change parameter or read information
/*
    OPT_PER bitfield mask;                  /* Permanent parameters
end NMADEF_BITS0;

/*
/* read information
/*

NMADEF_BITS1 structure fill;
  FILL_2 bitfield length 4 fill prefix NMADEF tag $$;
  OPT_INF bitfield mask length 3;          /* Information type mask
end NMADEF_BITS1;

constant OPINF_SUM equals 0 prefix NMA tag $C; /* Summary
constant OPINF_STA equals 1 prefix NMA tag $C; /* Status
constant OPINF_CHA equals 2 prefix NMA tag $C; /* Characteristics
constant OPINF_COU equals 3 prefix NMA tag $C; /* Counters
constant OPINF_EVE equals 4 prefix NMA tag $C; /* Events

/*
/* test
/*

NMADEF_BITS2 structure fill;
  FILL_3 bitfield length 7 fill prefix NMADEF tag $$;
  OPT_ACC bitfield mask;                  /* Access control included
```


end NMADEF_BITS2;

/*
/* zero
/*

NMADEF_BITS3 structure fill;
FICL_4 bitfield length 7 fill prefix NMADEF tag \$\$;
OPT_REA bitfield mask; /* Read and zero
end NMADEF_BITS3;

```
/*
/* System types
/*
    constant SYS_RST      equals 1 prefix NMA tag $C; /* Rsts
    constant SYS_RSX      equals 2 prefix NMA tag $C; /* Rsx family
    constant SYS_TOP      equals 3 prefix NMA tag $C; /* Tops-20
    constant SYS_VMS      equals 4 prefix NMA tag $C; /* Vms
    constant SYS_RT       equals 5 prefix NMA tag $C; /* RT-11
```

```
/*
/* Entity types. This numbering scheme must be used in non-system-specific
/* NICE messages. (See below for conflicting system-specific entities).
/*
```

```
    constant ENT_NOD      equals 0 prefix NMA tag $C; /* Node
    constant ENT_LIN      equals 1 prefix NMA tag $C; /* Line
    constant ENT_LOG      equals 2 prefix NMA tag $C; /* Logging
    constant ENT_CIR      equals 3 prefix NMA tag $C; /* Circuit
    constant ENT_MOD      equals 4 prefix NMA tag $C; /* Module
    constant ENT_ARE      equals 5 prefix NMA tag $C; /* Area
```

```
/*
/* System-specific (function 22) entity types. This numbering scheme
/* for objects must be used in any entity type in system-specific NICE
/* messages.
/*
```

```
    constant SENT_ALI     equals 3 prefix NMA tag $C; /* Alias
    constant SENT_OBJ     equals 4 prefix NMA tag $C; /* Object
    constant SENT_PRO     equals 5 prefix NMA tag $C; /* Process
    constant SENT_SYS     equals 6 prefix NMA tag $C; /* System
    constant SENT_LNK     equals 7 prefix NMA tag $C; /* Links
```

```
NMADEF_BITS4 structure fill;
    FILL_5 bitfield length 7 fill prefix NMADEF tag $$;
    ENT_EXE bitfield mask; /* Executor indicator flag for response messages
end NMADEF_BITS4;
```

```
/*
/* Entity identification format types
/*
```

```
    constant ENT_ADJ      equals -4 prefix NMA tag $C; /* Adjacent
    constant ENT_ACT      equals -2 prefix NMA tag $C; /* Active
    constant ENT_KNO      equals -1 prefix NMA tag $C; /* Known
    constant ENT_ADD      equals 0 prefix NMA tag $C; /* Node address
    constant ENT_ALL      equals -3 prefix NMA tag $C; /* All
    constant ENT_LOO      equals -3 prefix NMA tag $C; /* Loop
```

```
/*  
/* Logging sink types  
/*
```

```
constant SNK_CON equals 1 prefix NMA tag $C; /* Console  
constant SNK_FIL equals 2 prefix NMA tag $C; /* File  
constant SNK_MON equals 3 prefix NMA tag $C; /* Monitor
```

```
/*  
/* Counter data type values  
/*
```

```
NMADEF_BIT55 structure fill;  
CNT_TYP bitfield mask length 12; /* Type mask  
CNT_MAP bitfield mask; /* Bitmapped indicator  
CNT_WID bitfield mask length 2; /* Width field mask  
CNT_COU bitfield mask; /* Counter indicator
```

```
end NMADEF_BIT55;
```

```
NMADEF_BITS6 structure fill;  
FICL_6 bitfield length 13 fill prefix NMADEF tag $$;  
CNT_WIL bitfield mask; /* Width field low bit  
CNT_WIH bitfield mask; /* Width field high bit
```

```
end NMADEF_BITS6;
```

```

/*
/* Node area and address extraction
/*
end NMADEF;

aggregate NMADEF1 union fill prefix NMAS;
NODE word unsigned;
  NODE_BITS0 structure fill;
    ADDR bitfield length 10;
    AREA bitfield length 6;
  end NODE_BITS0;

/*
/* Parameter ID word (DATA ID)
/*

  NODE_BITS1 structure fill;
    PTY_TYP bitfield mask length 15;          /* Type mask
  end NODE_BITS1;

/*
/* Parameter data type byte (DATA TYPE)
/*

constant PTY_MAX          equals 15 prefix NMA tag $C; /* Maximum fields within coded multiple

NODE_BITS2 structure fill;
  PTY_CLE bitfield mask length 6;          /* Coded length mask
  PTY_MUL bitfield mask;                  /* Coded multiple indicator
  PTY_COD bitfield mask;                  /* Coded indicator
end NODE_BITS2;

NODE_BITS3 structure fill;
  FILL_7 bitfield length 6 fill prefix NMADEF tag $$;
  PTY_CMU bitfield mask length 2;          /* Coded multiple
end NODE_BITS3;

NODE_BITS4 structure fill;
  PTY_NLE bitfield mask length 4;          /* Number length mask
  PTY_NTY bitfield mask length 2;          /* Number type mask
  PTY_ASC bitfield mask;                  /* Ascii image indicator
end NODE_BITS4;

constant NTY_DU equals 0 prefix NMA tag $C; /* NTY values (how to display number):
constant NTY_DS equals 1 prefix NMA tag $C; /* Unsigned decimal
constant NTY_H  equals 2 prefix NMA tag $C; /* Signed decimal
constant NTY_O  equals 3 prefix NMA tag $C; /* Hexidecimal
constant NTY_O  equals 3 prefix NMA tag $C; /* Octal

/* NLE values (length of number):
constant NLE_IMAGE equals 0 prefix NMA tag $C; /* Image field (byte-counted)
constant NLE_BYTE  equals 1 prefix NMA tag $C; /* Byte
constant NLE_WORD  equals 2 prefix NMA tag $C; /* Word
constant NLE_LONG  equals 4 prefix NMA tag $C; /* Longword

```

```
constant NLE_QUAD equals 8 prefix NMA tag $C; /* Quadword
```

```
/*  
/* Define standard values for the DATA TYPE byte  
/*
```

```
constant PTY_AI equals 64 prefix NMA tag $C; /* ASCII image (ASC=1)  
constant PTY_HI equals 32 prefix NMA tag $C; /* Hex image (NTY=H, NLE=IMAGE)  
constant PTY_H1 equals 33 prefix NMA tag $C; /* Hex byte (NTY=H, NLE=BYTE)  
constant PTY_H2 equals 34 prefix NMA tag $C; /* Hex word (NTY=H, NLE=WORD)  
constant PTY_H4 equals 36 prefix NMA tag $C; /* Hex byte (NTY=H, NLE=LONG)  
constant PTY_DU1 equals 1 prefix NMA tag $C; /* Decimal unsigned byte (NTY=DU, NLE=BYTE)  
constant PTY_DU2 equals 2 prefix NMA tag $C; /* Decimal unsigned word (NTY=DU, NLE=WORD)  
constant PTY_CD1 equals 129 prefix NMA tag $C; /* Coded decimal byte (COD=1, 1 byte)  
constant PTY_CM2 equals 194 prefix NMA tag $C; /* Coded multiple, 2 fields  
constant PTY_CM3 equals 195 prefix NMA tag $C; /* Coded multiple, 3 fields  
constant PTY_CM4 equals 196 prefix NMA tag $C; /* Coded multiple, 4 fields  
constant PTY_CM5 equals 197 prefix NMA tag $C; /* Coded multiple, 5 fields
```

```

/*
/* Circuit parameters
/*

```

```

constant PCCI_STA equals 0 prefix NMA tag $C:/* State (coded byte of NMA$C_STATE )
constant PCCI_SUB equals 1 prefix NMA tag $C:/* Substate (coded byte of NMA$C_LINSS )
constant PCCI_SER equals 100 prefix NMA tag $C:/* Service (coded byte of NMA$C_LINSV_)
constant PCCI_LCT equals 110 prefix NMA tag $C:/* Counter timer (word)
constant PCCI_SPY equals 120 prefix NMA tag $C:/* Service physical address (NI address)
constant PCCI_SSB equals 121 prefix NMA tag $C:/* Service substate (coded byte of NMA$C_LINSS_)
constant PCCI_CNO equals 200 prefix NMA tag $C:/* Connected node
constant PCCI_COB equals 201 prefix NMA tag $C:/* Connected object
constant PCCI_LOO equals 400 prefix NMA tag $C:/* Loopback name (ascii)
constant PCCI_ADJ equals 800 prefix NMA tag $C:/* Adjacent node
constant PCCI_DRT equals 801 prefix NMA tag $C:/* Designated router on NI
constant PCCI_BLO equals 810 prefix NMA tag $C:/* Block size (word)
constant PCCI_COS equals 900 prefix NMA tag $C:/* Cost (byte)
constant PCCI_MRT equals 901 prefix NMA tag $C:/* Maximum routers on NI (byte)
constant PCCI_RPR equals 902 prefix NMA tag $C:/* Router priority on NI (byte)
constant PCCI_HET equals 906 prefix NMA tag $C:/* Hello timer (word)
constant PCCI_LIT equals 907 prefix NMA tag $C:/* Listen timer (word)
constant PCCI_BLK equals 910 prefix NMA tag $C:/* Blocking (coded byte of NMA$C_CIRBLK_)
constant PCCI_MRC equals 920 prefix NMA tag $C:/* Maximum recalls (byte)
constant PCCI_RCT equals 921 prefix NMA tag $C:/* Recall timer (word)
constant PCCI_NUM equals 930 prefix NMA tag $C:/* Number (ascii)
constant PCCI_USR equals 1000 prefix NMA tag $C:/* User entity identification
constant PCCI_POL equals 1010 prefix NMA tag $C:/* Polling state (coded byte of NMA$C_CIRPST_)
constant PCCI_PLS equals 1011 prefix NMA tag $C:/* Polling substate (coded byte)
constant PCCI_OWN equals 1100 prefix NMA tag $C:/* Owner entity identification
constant PCCI_LIN equals 1110 prefix NMA tag $C:/* Line (ascii)
constant PCCI_USE equals 1111 prefix NMA tag $C:/* Usage (coded byte of NMA$C_CIRUS_)
constant PCCI_TYP equals 1112 prefix NMA tag $C:/* Type (coded byte of NMA$C_CIRTY_)
constant PCCI_DTE equals 1120 prefix NMA tag $C:/* DTE (ascii)
constant PCCI_CHN equals 1121 prefix NMA tag $C:/* Channel (word)
constant PCCI_MBL equals 1122 prefix NMA tag $C:/* Maximum data (word)
constant PCCI_MWI equals 1123 prefix NMA tag $C:/* Maximum window (byte)
constant PCCI_TRI equals 1140 prefix NMA tag $C:/* Tributary (byte)
constant PCCI_BBT equals 1141 prefix NMA tag $C:/* Babble timer (word)
constant PCCI_TRT equals 1142 prefix NMA tag $C:/* Transmit timer (word)
constant PCCI_RTT equals 1143 prefix NMA tag $C:/* Retransmit timer (word)
constant PCCI_MRB equals 1145 prefix NMA tag $C:/* Maximum receive buffers (coded byte)
/* 0-254 is value, 255 = UNLIMITED
constant PCCI_MTR equals 1146 prefix NMA tag $C:/* Maximum transmits (byte)
constant PCCI_ACB equals 1150 prefix NMA tag $C:/* Active base (byte)
constant PCCI_ACI equals 1151 prefix NMA tag $C:/* Active increment (byte)
constant PCCI_IAB equals 1152 prefix NMA tag $C:/* Inactive base (byte)
constant PCCI_IAI equals 1153 prefix NMA tag $C:/* Inactive increment (byte)
constant PCCI_IAT equals 1154 prefix NMA tag $C:/* Inactive threshold (byte)
constant PCCI_DYB equals 1155 prefix NMA tag $C:/* Dying base (byte)
constant PCCI_DYI equals 1156 prefix NMA tag $C:/* Dying increment (byte)
constant PCCI_DYT equals 1157 prefix NMA tag $C:/* Dying threshold (byte)
constant PCCI_DTH equals 1158 prefix NMA tag $C:/* Dead threshold (byte)

```

```
/*  
/* RSX-specific circuit parameters  
/*
```

```
constant PCCI_RSX_MAC equals 2320 prefix NMA tag $C; /* Multipoint active ratio  
constant PCCI_RSX_LOG equals 2380 prefix NMA tag $C; /* Logical name  
constant PCCI_RSX_DLG equals 2385 prefix NMA tag $C; /* Designated name  
constant PCCI_RSX_ACT equals 2390 prefix NMA tag $C; /* Actual name
```

```
/*  
/* VMS-specific circuit NICE parameters [2700 - 2799]  
/*
```

```
constant PCCI_VER equals 2700 prefix NMA tag $C; /* Verification (coded byte of NMASC_CIRVE )  
constant PCCI_XPT equals 2720 prefix NMA tag $C; /* Transport type (coded byte of NMASC_CIRXPT_)
```

```
/*  
/* VMS-specific datalink only circuit parameters [2800 - 2899]  
/*  
/* (these will never be used in NICE messages).  
/*
```

```
constant PCCI_MST equals 2810 prefix NMA tag $C; /* Maintenance state
```

```
/*  
/* Server Base specific Circuit parameters  
/*
```

```
constant PCCI_SRV_LOG equals 3380 prefix NMA tag $C; /* Logical name  
constant PCCI_SRV_DLG equals 3385 prefix NMA tag $C; /* Designated name  
constant PCCI_SRV_ACT equals 3390 prefix NMA tag $C; /* Actual name
```

```

/*
/*
/*

```

Line parameters

```

constant PCLI_STA equals 0 prefix NMA tag $C:/* State (coded byte of NMASC STATE )
constant PCLI_SUB equals 1 prefix NMA tag $C:/* Substate (coded byte of NMASC_LIRSS )
constant PCLI_SER equals 100 prefix NMA tag $C:/* Service (coded byte of NMASC_LINSV_)
constant PCLI_LCT equals 110 prefix NMA tag $C:/* Counter timer (word)
constant PCLI_LOO equals 400 prefix NMA tag $C:/* Loopback name (ascii) [V2 only]
constant PCLI_ADJ equals 800 prefix NMA tag $C:/* Adjacent node [V2 only]
constant PCLI_BLO equals 810 prefix NMA tag $C:/* Block size (word) [V2 only]
constant PCLI_COS equals 900 prefix NMA tag $C:/* Cost (byte) [V2 only]
constant PCLI_DEV equals 1100 prefix NMA tag $C:/* Device (ascii)
constant PCLI_BFN equals 1105 prefix NMA tag $C:/* Receive buffers
constant PCLI_CON equals 1110 prefix NMA tag $C:/* Controller (coded byte of NMASC_LINCN_)
constant PCLI_DUP equals 1111 prefix NMA tag $C:/* Duplex (coded byte of NMASC_DPX_)
constant PCLI_PRO equals 1112 prefix NMA tag $C:/* Protocol (coded byte of NMASC_LINPR )
constant PCLI_LTY equals 1112 prefix NMA tag $C:/* Type (coded byte of NMASC_LINTY ) [V2 only]
constant PCLI_CLO equals 1113 prefix NMA tag $C:/* Clock (coded byte of NMASC_LINCC_)
constant PCLI_STI equals 1120 prefix NMA tag $C:/* Service timer (word)
constant PCLI_NTI equals 1121 prefix NMA tag $C:/* Normal timer (word) [V2 only]
constant PCLI_RTI equals 1121 prefix NMA tag $C:/* Retransmit timer (word)
constant PCLI-HTI equals 1122 prefix NMA tag $C:/* Holdback timer (word)
constant PCLI_MBL equals 1130 prefix NMA tag $C:/* Maximum block (word)
constant PCLI_MRT equals 1131 prefix NMA tag $C:/* Maximum retransmits (byte)
constant PCLI_MWI equals 1132 prefix NMA tag $C:/* Maximum window (byte)
constant PCLI_TRI equals 1140 prefix NMA tag $C:/* Tributary (byte) [V2 only]
constant PCLI_SLT equals 1150 prefix NMA tag $C:/* Scheduling timer (word)
constant PCLI_DDT equals 1151 prefix NMA tag $C:/* Dead timer (word)
constant PCLI_DLT equals 1152 prefix NMA tag $C:/* Delay timer (word)
constant PCLI_SRT equals 1153 prefix NMA tag $C:/* Stream timer (word)
constant PCLI_HWA equals 1160 prefix NMA tag $C:/* Hardware address (NI address)

```

```

/*
/* RSX-specific line parameters
/*

```

```

constant PCLI_RSX_OWN equals 2300 prefix NMA tag $C:/* Owner
constant PCLI_RSX_CCS equals 2310 prefix NMA tag $C:/* Controller CSR
constant PCLI_RSX_UCS equals 2311 prefix NMA tag $C:/* Unit CSR
constant PCLI_RSX_VEC equals 2312 prefix NMA tag $C:/* Vector
constant PCLI_RSX_PRI equals 2313 prefix NMA tag $C:/* Priority
constant PCLI_RSX_MDE equals 2321 prefix NMA tag $C:/* Dead polling ratio
constant PCLI_RSX_LLO equals 2330 prefix NMA tag $C:/* Location
/* 0, Firstfit
/* 1, Topdown
constant PCLI_RSX_LOG equals 2380 prefix NMA tag $C:/* Logical name
constant PCLI_RSX_DLG equals 2385 prefix NMA tag $C:/* Designated name
constant PCLI_RSX_ACT equals 2390 prefix NMA tag $C:/* Actual name

```

```

/*
/* VMS-specific line NICE parameters [2700 - 2799]

```


/*

```

constant PCLI_MCD      equals 2701 prefix NMA tag $C; /* Micro-code dump filespec (ascii)
constant PCLI_XMD      equals 2710 prefix NMA tag $C; /* X.25 line mode (coded byte of NMASC_X25MD_)
constant PCLI_EPT      equals 2720 prefix NMA tag $C; /* Ethernet Protocol Type (hex word)

```

/*

/* VMS-specific datalink only line parameters [2800 - 2899]

/*

/* (these will never be used in NICE messages).

/*

```

constant PCLI_BUS      equals 2801 prefix NMA tag $C; /* Buffer size (word)
constant PCLI_NMS      equals 2810 prefix NMA tag $C; /* Number of DMP/DMF synch chars (word)
constant PCLI_PHA      equals 2820 prefix NMA tag $C; /* Physical NI address of UNA (hex string)
constant PCLI_DPA      equals 2821 prefix NMA tag $C; /* (same as HWA) ; Default UNA physical address (hex string)
constant PCLI_PTY      equals 2830 prefix NMA tag $C; /* Ethernet Protocol type (word)
constant PCLI_MCA      equals 2831 prefix NMA tag $C; /* UNA Multicast address list (special)
                        /* (See NMASC_LINMC_)
constant PCLI_ILP      equals 2839 prefix NMA tag $C; /* DELUA Internal Loopback mode
                        /* (coded byte of NMASC_STATE_)
constant PCLI_PRM      equals 2840 prefix NMA tag $C; /* UNA Promiscuous mode (coded byte of NMASC_STATE_)
constant PCLI_MLT      equals 2841 prefix NMA tag $C; /* UNA Multicast address mode (coded byte of NMASC_STATE_)
constant PCLI_PAD      equals 2842 prefix NMA tag $C; /* UNA Padding mode (coded byte of NMASC_STATE_)
constant PCLI_DCH      equals 2843 prefix NMA tag $C; /* UNA Data chaining mode (coded byte of NMASC_STATE_)
constant PCLI_CRC      equals 2844 prefix NMA tag $C; /* UNA CRC mode (coded byte of NMASC_STATE_)
constant PCLI_HBQ      equals 2845 prefix NMA tag $C; /* UNA Hardware Buffer Quota (word)
constant PCLI_ACC      equals 2846 prefix NMA tag $C; /* UNA protocol access mode (coded byte of NMASC_ACC_)
constant PCLI_EKO      equals 2847 prefix NMA tag $C; /* UNA Echo mode (coded byte of NMASC_STATE_)
constant PCLI_BSZ      equals 2848 prefix NMA tag $C; /* UNA Device Buffer size
constant PCLI_DES      equals 2849 prefix NMA tag $C; /* UNA destination Ethernet address

constant PCLI_RET      equals 2850 prefix NMA tag $C; /* PCL number of retries (word)
constant PCLI_MOD      equals 2851 prefix NMA tag $C; /* PCL address mode (coded byte of NMASC_LINMO_)
constant PCLI_RIB      equals 2852 prefix NMA tag $C; /* PCL retry-if-busy state (coded byte of NMASC_STATE_)

constant PCLI_MNTL     equals 2860 prefix NMA tag $C; /* Maintenance loopback mode for devices
                        /* which support several different loop back modes
constant PCLI_INTLO    equals 2861 prefix NMA tag $C; /* Internal loopback level 0
constant PCLI_INTL1    equals 2862 prefix NMA tag $C; /* Internal loopback level 1
constant PCLI_INTL2    equals 2863 prefix NMA tag $C; /* Internal loopback level 2
constant PCLI_INTL3    equals 2864 prefix NMA tag $C; /* Internal loopback level 3
constant PCLI_FRA      equals 2865 prefix NMA tag $C; /* Framing address for Bisync
constant PCLI_STI1     equals 2866 prefix NMA tag $C; /* State info 1st longword
constant PCLI_STI2     equals 2867 prefix NMA tag $C; /* State info 2st longword
constant PCLI_TMO      equals 2868 prefix NMA tag $C; /* Wait for CTS time out value for DMF sync half duplex
constant PCLI_MCL      equals 2869 prefix NMA tag $C; /* Clear modem on deassign of channel
constant PCLI_SYC      equals 2870 prefix NMA tag $C; /* BISYNC protocol sync char
constant PCLI_BPC      equals 2871 prefix NMA tag $C; /* Number of bits per character

```

/*

/*

/* Server Base specific line parameters

/*

```

constant PCLI_SRV_OWN  equals 3300 prefix NMA tag $C; /* Owner
constant PCLI_SRV_UCS  equals 3311 prefix NMA tag $C; /* Unit CSR
constant PCLI_SRV_VEC  equals 3312 prefix NMA tag $C; /* Vector
constant PCLI_SRV_PRI  equals 3313 prefix NMA tag $C; /* Priority

```

```
constant PCLI_SRV_LOG equals 3380 prefix NMA tag $C; /* Logical name
constant PCLI_SRV_DLG equals 3385 prefix NMA tag $C; /* Designated name
constant PCLI_SRV_ACT equals 3390 prefix NMA tag $C; /* Actual name
```

/*
/* Console module parameters
/*

constant PCCO_RTR equals 110 prefix NMA tag \$C; /* Reservation timer (word)

/*
/* Loader module parameters
/*

constant PCLD_ASS equals 10 prefix NMA tag \$C; /* Assistance flag (coded byte of NMASC_ASS_)

/*
/* Looper module parameters
/*

constant PCLP_ASS equals 10 prefix NMA tag \$C; /* Assistance flag (coded byte of NMASC_ASS_)

/*
/*
/*

Configurator module parameters

```
constant PCCN_CIR      equals 100  prefix NMA tag $C; /* NI circuit name (ascii)
constant PCCN_SUR      equals 110  prefix NMA tag $C; /* Surveillance flag (coded byte of NMA$C_SUR_)
constant PCCN_ELT      equals 111  prefix NMA tag $C; /* Elapsed time
constant PCCN_PHA      equals 120  prefix NMA tag $C; /* Physical address (NI address)
constant PCCN_LRP      equals 130  prefix NMA tag $C; /* Time of last report
constant PCCN_MVR      equals 20001 prefix NMA tag $C; /* Maintenance version
constant PCCN_FCT      equals 20002 prefix NMA tag $C; /* Function list
constant PCCN_CUS      equals 20003 prefix NMA tag $C; /* Current console user (NI address)
constant PCCN_RTR      equals 20004 prefix NMA tag $C; /* Reservation timer (word)
constant PCCN_CSZ      equals 20005 prefix NMA tag $C; /* Command buffer size (word)
constant PCCN_RSZ      equals 20006 prefix NMA tag $C; /* Response buffer size (word)
constant PCCN_HWA      equals 20007 prefix NMA tag $C; /* Hardware address (NI address)
constant PCCN_DTY      equals 20100 prefix NMA tag $C; /* Device type (coded byte of NMA$C_SOFD_)
constant PCCN_SFI      equals 20200 prefix NMA tag $C; /* Software ID
constant PCCN_SPR      equals 20300 prefix NMA tag $C; /* System processor (coded word)
constant PCCN_DLK      equals 20400 prefix NMA tag $C; /* Data link type (coded word)
```

/*
/* Logging parameters
/*

```
constant PCLO_STA equals 0 prefix NMA tag $C; /* State (coded byte of NMASC_STATE_)
constant PCLO_LNA equals 100 prefix NMA tag $C; /* System/name (ascic)
constant PCLO_SIN equals 200 prefix NMA tag $C; /* Sink node
constant PCLO_EVE equals 201 prefix NMA tag $C; /* Events
```

```
/*
/* X.25 Access module parameters
/*

    constant PCXA_NOD      equals 320  prefix NMA tag $C; /* Node
    constant PCXA_USR      equals 330  prefix NMA tag $C; /* User (ascii)
    constant PCXA_PSW      equals 331  prefix NMA tag $C; /* Password (ascii)
    constant PCXA_ACC      equals 332  prefix NMA tag $C; /* Account (ascii)
    constant PCXA_NET      equals 1110 prefix NMA tag $C; /* Network (ascii)

/*
/* RSX-specific X.25-Access module parameters
/*

    constant PCXA_RSX_ADS  equals 2310 prefix NMA tag $C; /* Destination
    constant PCXA_RSX_ANB  equals 2320 prefix NMA tag $C; /* Number
    constant PCXA_RSX_ASC  equals 2330 prefix NMA tag $C; /* Scope

/*
/* Server Base specific X.25-Access module parameters
/*

    constant PCXA_SRV_ADS  equals 3310 prefix NMA tag $C; /* Destination
    constant PCXA_SRV_ANB  equals 3320 prefix NMA tag $C; /* Number
    constant PCXA_SRV_ASC  equals 3330 prefix NMA tag $C; /* Scope
```



```

/*
/* X.25 Protocol module parameters
/*

constant PCXP_STA equals 0 prefix NMA tag $C; /* State (coded byte of NMASC_STATE_)
constant PCXP_CTM equals 100 prefix NMA tag $C; /* Counter timer (word)
constant PCXP_ACH equals 1000 prefix NMA tag $C; /* Active channels (word)
constant PCXP_ASW equals 1010 prefix NMA tag $C; /* Active switched (word)
constant PCXP_DTE equals 1100 prefix NMA tag $C; /* DTE (ascii)
constant PCXP_GRP equals 1101 prefix NMA tag $C; /* Group (ascii)
constant PCXP_NET equals 1110 prefix NMA tag $C; /* Network (ascii)
constant PCXP_LIN equals 1120 prefix NMA tag $C; /* Line (ascii)
constant PCXP_CHN equals 1130 prefix NMA tag $C; /* Channels
constant PCXP_MCH equals 1131 prefix NMA tag $C; /* Maximum channels (word)
constant PCXP_DBL equals 1140 prefix NMA tag $C; /* Default data (word)
constant PCXP_DWI equals 1141 prefix NMA tag $C; /* Default window (byte)
constant PCXP_MBL equals 1150 prefix NMA tag $C; /* Maximum data (word)
constant PCXP_MWI equals 1151 prefix NMA tag $C; /* Maximum window (byte)
constant PCXP_MCL equals 1152 prefix NMA tag $C; /* Maximum clears (byte)
constant PCXP_MRS equals 1153 prefix NMA tag $C; /* Maximum resets (byte)
constant PCXP_MST equals 1154 prefix NMA tag $C; /* Maximum restarts (byte)
constant PCXP_CA* equals 1160 prefix NMA tag $C; /* Call timer (byte)
constant PCXP_CLT equals 1161 prefix NMA tag $C; /* Clear timer (byte)
constant PCXP_RST equals 1162 prefix NMA tag $C; /* Reset timer (byte)
constant PCXP_STT equals 1163 prefix NMA tag $C; /* Restart timer (byte)
constant PCXP_GDT equals 1170 prefix NMA tag $C; /* Group DTE (ascii)
constant PCXP_GNM equals 1171 prefix NMA tag $C; /* Group number (word)
constant PCXP_GTY equals 1172 prefix NMA tag $C; /* Group type (coded byte of NMASC_XPTY_)

/*
/* RSX-specific X.25-Protocol Module parameters
/*
constant PCXP_RSX_PMC equals 2300 prefix NMA tag $C; /* Maximum circuits

/*
/* VMS-specific X25-PROTOCOL NICE parameters [2700 - 2799]
/*

constant PCXP_MNS equals 2700 prefix NMA tag $C; /* Multinetwork Support flag (coded byte of NMASC_XPRMN_) [disabled.
constant PCXP_MCI equals 2710 prefix NMA tag $C; /* Maximum circuits, qualified by DTE
constant PCXP_SBS equals 2720 prefix NMA tag $C; /* Substate, qualified by DTE (coded byte of NMASC_XPRSB_)

/*
/* Server Base specific X.25-Protocol Module parameters
/*
constant PCXP_SRV_PMC equals 3300 prefix NMA tag $C; /* Maximum circuits

```

```
/*
/* X.25 server module parameters
/*

constant PCXS_CTM      equals 100 prefix NMA tag $C; /* Counter timer (word)
constant PCXS_ACI      equals 200 prefix NMA tag $C; /* Active circuits (word)
constant PCXS_DST      equals 300 prefix NMA tag $C; /* Destination (ascii)
constant PCXS_MCI      equals 310 prefix NMA tag $C; /* Maximum circuits (word)
constant PCXS_NOD      equals 320 prefix NMA tag $C; /* Node
constant PCXS_USR      equals 330 prefix NMA tag $C; /* Username
constant PCXS_SPW      equals 331 prefix NMA tag $C; /* Password to set (ascii)
constant PCXS_RPW      equals 331 prefix NMA tag $C; /* Password to read (coded byte of NMASC_NODPW_)
constant PCXS_ACC      equals 332 prefix NMA tag $C; /* Account (ascii)
constant PCXS_OBJ      equals 340 prefix NMA tag $C; /* Object
constant PCXS_PRI      equals 350 prefix NMA tag $C; /* Priority (byte)
constant PCXS_CMK      equals 351 prefix NMA tag $C; /* Call mask (byte-counted hex)
constant PCXS_CVL      equals 352 prefix NMA tag $C; /* Call value (byte-counted hex)
constant PCXS_GRP      equals 353 prefix NMA tag $C; /* Group (ascii)
constant PCXS_NUM      equals 354 prefix NMA tag $C; /* Number (ascii)
constant PCXS_SAD      equals 355 prefix NMA tag $C; /* Subaddresses

/*
/* RSX-specific X.25-Server Module parameters
/*
constant PCXS_RSX_5ST  equals 2310 prefix NMA tag $C; /* State
/* 0, On
/* 1, Off

/*
/* VMS-specific X25-SERVER NICE parameters [2700 - 2799]
/*
constant PCXS_STA      equals 2700 prefix NMA tag $C; /* Server state (coded byte of NMASC_STATE_)
constant PCXS_FIL      equals 2710 prefix NMA tag $C; /* Object filespec (ascii)

/*
/* Server Base specific X.25-Server Module parameters
/*
constant PCXS_SRV_5ST  equals 3310 prefix NMA tag $C; /* State
/* 0, On
/* 1, Off
```

```
/*  
/* X.25 trace module parameters (VMS-specific)  
/*
```

```
constant PCXT_STA equals 0 prefix NMA tag $C; /* State (coded byte of NMASC_STATE_)  
constant PCXT_BSZ equals 100 prefix NMA tag $C; /* Buffer size (word)  
constant PCXT_MBK equals 101 prefix NMA tag $C; /* Maximum blocks/file (word)  
constant PCXT_FNM equals 102 prefix NMA tag $C; /* Filename (ascii)  
constant PCXT_MBF equals 103 prefix NMA tag $C; /* Maximum number of buffers (word)  
constant PCXT_CPL equals 104 prefix NMA tag $C; /* Global data capture limit (word)  
constant PCXT_M/R equals 105 prefix NMA tag $C; /* Maximum trace file version (word)  
constant PCXT_T/T equals 106 prefix NMA tag $C; /* Trace point name (ascii)  
constant PCXT_CPS equals 110 prefix NMA tag $C; /* Per-trace capture size (word)  
constant PCXT_TST equals 111 prefix NMA tag $C; /* Per-trace state (coded byte of NMASC_STATE_)
```

```

/*
/* Node parameters
/*

```

```

constant PCNO_STA equals 0 prefix NMA tag $C:/* State (coded byte of NMA$C_STATE_)
constant PCNO_PHA equals 10 prefix NMA tag $C:/* Physical address (NI address)
constant PCNO_IDE equals 100 prefix NMA tag $C:/* Identification (ascic)
constant PCNO_MVE equals 101 prefix NMA tag $C:/* Management version (3 bytes)
constant PCNO_SLI equals 110 prefix NMA tag $C:/* Service circuit (ascic)
constant PCNO_SPA equals 111 prefix NMA tag $C:/* Service password (8 bytes)
constant PCNO_SDV equals 112 prefix NMA tag $C:/* Service device (coded byte of NMA$C_SOFD_)
constant PCNO_CPU equals 113 prefix NMA tag $C:/* CPU type (coded byte of NMA$C_CPU_)
constant PCNO_HWA equals 114 prefix NMA tag $C:/* Hardware address (NI address)
constant PCNO_SNV equals 115 prefix NMA tag $C:/* Service node version (coded byte of NMA$C_SVN_)
constant PCNO_LOA equals 120 prefix NMA tag $C:/* Load file (ascic)
constant PCNO_SLO equals 121 prefix NMA tag $C:/* Secondary loader (ascic)
constant PCNO_TLO equals 122 prefix NMA tag $C:/* Tertiary loader (ascic)
constant PCNO_DFL equals 123 prefix NMA tag $C:/* Diagnostic file (ascic)
constant PCNO_STY equals 125 prefix NMA tag $C:/* Software type (coded byte of NMA$C_SOFT_)
constant PCNO_SID equals 126 prefix NMA tag $C:/* Software ID (ascic)
constant PCNO_DUM equals 130 prefix NMA tag $C:/* Dump file (ascic)
constant PCNO_SDU equals 131 prefix NMA tag $C:/* Secondary dumper (ascic)
constant PCNO_DAD equals 135 prefix NMA tag $C:/* Dump address (longword)
constant PCNO_DCT equals 136 prefix NMA tag $C:/* Dump count (longword)
constant PCNO_OHO equals 140 prefix NMA tag $C:/* Host (read only parameter)
constant PCNO_IHO equals 141 prefix NMA tag $C:/* Host (write only parameter)
constant PCNO_LPC equals 150 prefix NMA tag $C:/* Loop count (word)
constant PCNO_LPL equals 151 prefix NMA tag $C:/* Loop length (word)
constant PCNO_LPD equals 152 prefix NMA tag $C:/* Loop Data type (coded byte of NMA$C_LOOP_)
constant PCNO_LPA equals 153 prefix NMA tag $C:/* Loop assistant physical address (NI address)
constant PCNO_LPH equals 154 prefix NMA tag $C:/* Loop help type (coded byte)
constant PCNO_LPN equals 155 prefix NMA tag $C:/* Loop circuit node
constant PCNO_LAN equals 156 prefix NMA tag $C:/* Loop circuit assistant node
constant PCNO_CTI equals 160 prefix NMA tag $C:/* Counter timer (word)
constant PCNO_NNA equals 500 prefix NMA tag $C:/* Name
constant PCNO_NLI equals 501 prefix NMA tag $C:/* Circuit (ascic)
constant PCNO_ADD equals 502 prefix NMA tag $C:/* Address
constant PCNO_ITI equals 510 prefix NMA tag $C:/* Incoming timer (word)
constant PCNO_OTI equals 511 prefix NMA tag $C:/* Outgoing timer (word)
constant PCNO_ACL equals 600 prefix NMA tag $C:/* Active links (word)
constant PCNO_DEL equals 601 prefix NMA tag $C:/* Delay (word)
constant PCNO_NVE equals 700 prefix NMA tag $C:/* Nsp version (3 bytes)
constant PCNO_MLK equals 710 prefix NMA tag $C:/* Maximum links (word)
constant PCNO_DFA equals 720 prefix NMA tag $C:/* Delay factor (byte)
constant PCNO_DWE equals 721 prefix NMA tag $C:/* Delay weight (byte)
constant PCNO_IAT equals 722 prefix NMA tag $C:/* Inactivity timer (word)
constant PCNO_RFA equals 723 prefix NMA tag $C:/* Retransmit factor (word)
constant PCNO_DTY equals 810 prefix NMA tag $C:/* Destination Type (coded byte of NMA$C_XPTY_)
constant PCNO_DCO equals 820 prefix NMA tag $C:/* Destination Cost (word)
constant PCNO_DHO equals 821 prefix NMA tag $C:/* Destination Hops (byte)
constant PCNO_DLI equals 822 prefix NMA tag $C:/* Destination circuit (ascic)
constant PCNO_NND equals 830 prefix NMA tag $C:/* Next node to destination
constant PCNO_RVE equals 900 prefix NMA tag $C:/* Routing version (3 bytes)

```

```

constant PCNO_ETY      equals 901 prefix NMA tag $C; /* Executor Type (coded byte of NMA$C_NODTY_)
constant PCNO_RTI      equals 910 prefix NMA tag $C; /* Routing timer (word)
constant PCNO_SAD      equals 911 prefix NMA tag $C; /* Subaddress (2 words)
constant PCNO_BRT      equals 912 prefix NMA tag $C; /* Broadcast routing timer (word)
constant PCNO_MAD      equals 920 prefix NMA tag $C; /* Maximum address (word)
constant PCNO_MLN      equals 921 prefix NMA tag $C; /* Maximum circuits (word)
constant PCNO_MCO      equals 922 prefix NMA tag $C; /* Maximum cost (word)
constant PCNO_MHO      equals 923 prefix NMA tag $C; /* Maximum hops (byte)
constant PCNO_MVI      equals 924 prefix NMA tag $C; /* Maximum visits (byte)
constant PCNO_MAR      equals 925 prefix NMA tag $C; /* Maximum areas (byte)
constant PCNO_MBE      equals 926 prefix NMA tag $C; /* Maximum broadcast nonrouters (word)
constant PCNO_MBR      equals 927 prefix NMA tag $C; /* Maximum broadcast routers (word)
constant PCNO_AMC      equals 928 prefix NMA tag $C; /* Area maximum cost (word)
constant PCNO_AMH      equals 929 prefix NMA tag $C; /* Area maximum hops (byte)
constant PCNO_MBU      equals 930 prefix NMA tag $C; /* Maximum buffers (word)
constant PCNO_BUS      equals 931 prefix NMA tag $C; /* Executor buffer size (word)
constant PCNO_SBS      equals 932 prefix NMA tag $C; /* Segment buffer size (word)
constant PCNO_FBS      equals 933 prefix NMA tag $C; /* Forwarding buffer size (word)

```

```

/*
/* RSX-Specific Node (Executor) parameters
/*

```

```

constant PCNO_RSX_RPA  equals 2300 prefix NMA tag $C; /* Receive password
/* 0, Password set
constant PCNO_RSX_TPA  equals 2301 prefix NMA tag $C; /* Transmit password
/* 0, Password set
constant PCNO_RSX_VER  equals 2310 prefix NMA tag $C; /* Verification state
/* 0, On
/* 1, Off

```

```

/*
/* VMS-specific node parameters
/*

```

```

constant PCNO_PUS      equals 2704 prefix NMA tag $C; /* Privileged user id
constant PCNO_PAC      equals 2705 prefix NMA tag $C; /* Privileged account
constant PCNO_PPW      equals 2706 prefix NMA tag $C; /* Privileged password
constant PCNO_NUS      equals 2712 prefix NMA tag $C; /* Non-privileged user id
constant PCNO_NAC      equals 2713 prefix NMA tag $C; /* Non-privileged account
constant PCNO_NPW      equals 2714 prefix NMA tag $C; /* Non-privileged password
constant PCNO_RPA      equals 2720 prefix NMA tag $C; /* Receive password
constant PCNO_TPA      equals 2721 prefix NMA tag $C; /* Transmit password
constant PCNO_ACC      equals 2730 prefix NMA tag $C; /* Access (coded byte of NMA$C_ACES_)
constant PCNO_DAC      equals 2731 prefix NMA tag $C; /* Default access (coded byte of NMA$C_ACES_)
constant PCNO_PIQ      equals 2740 prefix NMA tag $C; /* Pipeline quota (word)
constant PCNO_ALI      equals 2741 prefix NMA tag $C; /* Alias address (word)
constant PCNO_PRX      equals 2750 prefix NMA tag $C; /* Proxy access (coded byte of NMA$C_ACES_) !! Obsolete: Only for LIS
constant PCNO_DPX      equals 2751 prefix NMA tag $C; /* Default proxy access (coded byte of NMA$C_ACES_)

```

```

/*
/* Server Base specific Node (Executor) parameters
/*

```

```

constant PCNO_SRV_RPA  equals 3300 prefix NMA tag $C; /* Receive password
/* 0, Password set
constant PCNO_SRV_TPA  equals 3301 prefix NMA tag $C; /* Transmit password
/* 0, Password set

```

```

constant PCNO_SRV_VER equals 3310 prefix NMA tag $C; /* Verification state
/* 0, On
/* 1, Off
constant PCNO_SRV_ACB equals 3402 prefix NMA tag $C; /* Active control buffers
constant PCNO_SRV_ASB equals 3404 prefix NMA tag $C; /* Active small buffers
constant PCNO_SRV_ALB equals 3406 prefix NMA tag $C; /* Active large buffers
constant PCNO_SRV_MCB equals 3410 prefix NMA tag $C; /* Maximum control buffers
constant PCNO_SRV_MSB equals 3420 prefix NMA tag $C; /* Maximum small buffers
constant PCNO_SRV_MLB equals 3430 prefix NMA tag $C; /* Maximum large buffers
constant PCNO_SRV_LBS equals 3431 prefix NMA tag $C; /* Large buffer size
constant PCNO_SRV_NRB equals 3440 prefix NMA tag $C; /* Minimum receive buffers
constant PCNO_SRV_CPT equals 3450 prefix NMA tag $C; /* CEX pool: total bytes
constant PCNO_SRV_CPF equals 3452 prefix NMA tag $C; /* CEX pool: number of segments
constant PCNO_SRV_CPL equals 3454 prefix NMA tag $C; /* CEX pool: largest segment
constant PCNO_SRV_XPT equals 3460 prefix NMA tag $C; /* Extended pool: total bytes
constant PCNO_SRV_XPF equals 3462 prefix NMA tag $C; /* Extended pool: number of segments
constant PCNO_SRV_XPL equals 3464 prefix NMA tag $C; /* Extended pool: largest segment

```

```
/*  
/* Area parameters  
/*
```

```
constant PCAR_STA equals 0 prefix NMA tag $C; /* State (coded byte of NMA$C_STATE_)  
constant PCAR_COS equals 820 prefix NMA tag $C; /* Cost (word)  
constant PCAR_HOP equals 821 prefix NMA tag $C; /* Hops (byte)  
constant PCAR_CIR equals 822 prefix NMA tag $C; /* Circuit (ascii)  
constant PCAR_NND equals 830 prefix NMA tag $C; /* Next node to area
```

/*
/*
/*

VMS-specific object parameters

constant	PCOB_OAN	equals	400	prefix	NMA	tag	\$C; /* Active name
constant	PCOB_OAC	equals	410	prefix	NMA	tag	\$C; /* Active links
constant	PCOB_ONA	equals	500	prefix	NMA	tag	\$C; /* Name
constant	PCOB_OCO	equals	510	prefix	NMA	tag	\$C; /* Copies
constant	PCOB_OUS	equals	511	prefix	NMA	tag	\$C; /* User
constant	PCOB_OVE	equals	520	prefix	NMA	tag	\$C; /* Verification
constant	PCOB_NAM	equals	500	prefix	NMA	tag	\$C; /* Name
constant	PCOB_NUM	equals	513	prefix	NMA	tag	\$C; /* Number
constant	PCOB_FID	equals	530	prefix	NMA	tag	\$C; /* File id
constant	PCOB_PID	equals	535	prefix	NMA	tag	\$C; /* Process id
constant	PCOB_PRV	equals	540	prefix	NMA	tag	\$C; /* Privilege list
constant	PCOB_USR	equals	550	prefix	NMA	tag	\$C; /* User id
constant	PCOB_ACC	equals	551	prefix	NMA	tag	\$C; /* Account
constant	PCOB_PSW	equals	552	prefix	NMA	tag	\$C; /* Password
constant	PCOB_PRX	equals	560	prefix	NMA	tag	\$C; /* Proxy access (coded byte of NMA\$C_ACES_)

/*
/*
/*

VMS-specific link parameters

```
constant PCLK_STA      equals 0  prefix NMA tag $C; /* State
constant PCLK_PID      equals 101 prefix NMA tag $C; /* Process id
constant PCLK_NID      equals 102 prefix NMA tag $C; /* Partner Node
constant PCLK_LAD      equals 105 prefix NMA tag $C; /* Link address [V2 only]
                               /* entity is node rather than link !
                               /* CM-1/2, DU-2 (link !), HI-4 (pid)
constant PCLK_DLY      equals 110 prefix NMA tag $C; /* Round trip delay time (word)
constant PCLK_RLN      equals 120 prefix NMA tag $C; /* Remote link number (word)
constant PCLK_RID      equals 121 prefix NMA tag $C; /* Remote identification, PID or username (ascii)
constant PCLK_USR      equals 130 prefix NMA tag $C; /* Username of link owner (ascii)
constant PCLK_PRC      equals 131 prefix NMA tag $C; /* Process name of link owner (ascii)
```

```

/*
/* Circuit counters
/*

```

```

constant CTCIR_ZER equals 0 prefix NMA tag $C; /* Seconds since last zeroed
constant CTCIR_APR equals 800 prefix NMA tag $C; /* Terminating packets received
constant CTCIR_DPS equals 801 prefix NMA tag $C; /* Originating packets sent
constant CTCIR_ACL equals 802 prefix NMA tag $C; /* Terminating congestion loss
constant CTCIR_CRL equals 805 prefix NMA tag $C; /* Corruption loss
constant CTCIR_TPR equals 810 prefix NMA tag $C; /* Transit packets received
constant CTCIR_TPS equals 811 prefix NMA tag $C; /* Transit packets sent
constant CTCIR_TCL equals 812 prefix NMA tag $C; /* Transit congestion loss
constant CTCIR_LDN equals 820 prefix NMA tag $C; /* Circuit down
constant CTCIR_IFL equals 821 prefix NMA tag $C; /* Initialization failure
constant CTCIR_BRC equals 1000 prefix NMA tag $C; /* Bytes received
constant CTCIR_BSN equals 1001 prefix NMA tag $C; /* Bytes sent
constant CTCIR_MBY equals 1002 prefix NMA tag $C; /* Multicast bytes received
constant CTCIR_DBR equals 1010 prefix NMA tag $C; /* Data blocks received
constant CTCIR_DBS equals 1011 prefix NMA tag $C; /* Data blocks sent
constant CTCIR_DEI equals 1020 prefix NMA tag $C; /* Data errors inbound
constant CTCIR_DEO equals 1021 prefix NMA tag $C; /* Data errors outbound
constant CTCIR_RRT equals 1030 prefix NMA tag $C; /* Remote reply timeouts
constant CTCIR_LRT equals 1031 prefix NMA tag $C; /* Local reply timeouts
constant CTCIR_RBE equals 1040 prefix NMA tag $C; /* Remote buffer errors
constant CTCIR_LBE equals 1041 prefix NMA tag $C; /* Local buffer errors
constant CTCIR_SIE equals 1050 prefix NMA tag $C; /* Selection intervals elapsed
constant CTCIR_SLT equals 1051 prefix NMA tag $C; /* Selection timeouts
constant CTCIR_UBU equals 1065 prefix NMA tag $C; /* NI user buffer unavailable
constant CTCIR_RPE equals 1100 prefix NMA tag $C; /* Remote process errors [V2 only]
constant CTCIR_LPE equals 1101 prefix NMA tag $C; /* Local process errors [V2 only]
constant CTCIR_LIR equals 1240 prefix NMA tag $C; /* Locally initiated resets
constant CTCIR_RIR equals 1241 prefix NMA tag $C; /* Remotely initiated resets
constant CTCIR_NIR equals 1242 prefix NMA tag $C; /* Network initiated resets

```

```

/*
/* VMS-specific circuit counters
/*

```

```

constant CTCIR_MNE equals 2701 prefix NMA tag $C; /* Multicast received for protocol
/* type, but not enabled
constant CTCIR_ERI equals 2750 prefix NMA tag $C; /* PCL Errors inbound, bit-mapped
/* 0 CRC error on receive
constant CTCIR_ERO equals 2751 prefix NMA tag $C; /* PCL Errors outbound, bit-mapped
/* 1 CRC on transmit
/* 2 Timeout on word
constant CTCIR_RTO equals 2752 prefix NMA tag $C; /* PCL Remote timeouts, bit-mapped
/* 0 Receiver busy
/* 1 Transmitter offline
/* 2 Receiver offline
constant CTCIR_LTO equals 2753 prefix NMA tag $C; /* PCL Local timeouts
constant CTCIR_BER equals 2754 prefix NMA tag $C; /* PCL Remote buffer errors
constant CTCIR_BEL equals 2755 prefix NMA tag $C; /* PCL Local buffer errors

```

```

/*
/*
/*

```

```

Line counters

```

```

constant CTLIN_ZER equals 0 prefix NMA tag $C; /* Seconds since last zeroed
constant CTLIN_APR equals 800 prefix NMA tag $C; /* Arriving packets received [V2 only]
constant CTLIN_DPS equals 801 prefix NMA tag $C; /* Departing packets sent [V2 only]
constant CTLIN_ACL equals 802 prefix NMA tag $C; /* Arriving congestion loss [V2 only]
constant CTLIN_TPR equals 810 prefix NMA tag $C; /* Transit packets received [V2 only]
constant CTLIN_TPS equals 811 prefix NMA tag $C; /* Transit packets sent [V2 only]
constant CTLIN_TCL equals 812 prefix NMA tag $C; /* Transit congestion loss [V2 only]
constant CTLIN_LDN equals 820 prefix NMA tag $C; /* Line down [V2 only]
constant CTLIN_IFL equals 821 prefix NMA tag $C; /* Initialization failure [V2 only]
constant CTLIN_BRC equals 1000 prefix NMA tag $C; /* Bytes received
constant CTLIN_BSN equals 1001 prefix NMA tag $C; /* Bytes sent
constant CTLIN_MBY equals 1002 prefix NMA tag $C; /* Multicast bytes received
constant CTLIN_DBR equals 1010 prefix NMA tag $C; /* Data blocks received
constant CTLIN_DBS equals 1011 prefix NMA tag $C; /* Data blocks sent
constant CTLIN_MBL equals 1012 prefix NMA tag $C; /* Multicast blocks received
constant CTLIN_BID equals 1013 prefix NMA tag $C; /* Blocks sent, initially deferred
constant CTLIN_BS1 equals 1014 prefix NMA tag $C; /* Blocks sent, single collision
constant CTLIN_BSM equals 1015 prefix NMA tag $C; /* Blocks sent, multiple collisions
constant CTLIN_DEI equals 1020 prefix NMA tag $C; /* Data errors inbound
constant CTLIN_DEO equals 1021 prefix NMA tag $C; /* Data errors outbound
constant CTLIN_RRT equals 1030 prefix NMA tag $C; /* Remote reply timeouts
constant CTLIN_LRT equals 1031 prefix NMA tag $C; /* Local reply timeouts
constant CTLIN_RBE equals 1040 prefix NMA tag $C; /* Remote buffer errors
constant CTLIN_LBE equals 1041 prefix NMA tag $C; /* Local buffer errors
constant CTLIN_SIE equals 1050 prefix NMA tag $C; /* Selection intervals elapsed [V2 only]
constant CTLIN_SLT equals 1051 prefix NMA tag $C; /* Selection timeouts [V2 only]
constant CTLIN_SFL equals 1060 prefix NMA tag $C; /* Send failure
constant CTLIN_CDC equals 1061 prefix NMA tag $C; /* Collision detect check failure
constant CTLIN_RFL equals 1062 prefix NMA tag $C; /* Receive failure
constant CTLIN_UFD equals 1063 prefix NMA tag $C; /* Unrecognized frame destination
constant CTLIN_OVR equals 1064 prefix NMA tag $C; /* Data overrun
constant CTLIN_SBU equals 1065 prefix NMA tag $C; /* System buffer unavailable
constant CTLIN_UBU equals 1066 prefix NMA tag $C; /* User buffer unavailable
constant CTLIN_RPE equals 1100 prefix NMA tag $C; /* Remote process errors
constant CTLIN_LPE equals 1101 prefix NMA tag $C; /* Local process errors

```

```

/*
/* Line counter flags (byte offset will be 0)
/*
end NMADEF1;

```

```

aggregate NMADEF2 union fill prefix NMA$;
  FILL 8 byte fill prefix NMADEF tag $$; /* byte of flags
  FILL 8 BITS structure fill;
  FILL 9 bitfield length 3 fill prefix NMADEF tag $$; /* skip bits 0,1,2
  CTLIN_BTL bitfield mask; /* block too long
  CTLIN_FCS bitfield mask; /* frame check
  CTLIN_TRJ bitfield mask; /* REJ sent

```

```

end FILL_8_BITS;
end NMADEF2;

aggregate NMADEF3 union fill prefix NMA:
  FILL 10 byte fill prefix NMADEF tag $$;          /* byte of flags
  FILL 10 BITS structure fill;
  FILL 11 bitfield length 3 fill prefix NMADEF tag $$; /* skip bits 0,1,2
  CTLIN_RRJ bitfield mask;                          /* REJ received
end FILL_10_BITS;
end NMADEF3;

aggregate NMADEF4 union fill prefix NMA:
  FILL 12 byte fill prefix NMADEF tag $$;          /* byte of flags
  FILL 12 BITS structure fill;
  FILL 13 bitfield length 2 fill prefix NMADEF tag $$; /* skip bits 0,1
  CTLIN_RRN bitfield mask;                          /* RNR received
end FILL_12_BITS;
end NMADEF4;

aggregate NMADEF5 union fill prefix NMA:
  FILL 14 byte fill prefix NMADEF tag $$;          /* byte of flags
  FILL 14 BITS structure fill;
  FILL 15 bitfield length 2 fill prefix NMADEF tag $$; /* skip bits 0,1
  CTLIN_TRN bitfield mask;                          /* RNR sent
end FILL_14_BITS;
end NMADEF5;

aggregate NMADEF6 union fill prefix NMA:
  FILL 16 byte fill prefix NMADEF tag $$;          /* byte of flags
  FILL 16 BITS structure fill;
  FILL 17 bitfield length 4 fill prefix NMADEF tag $$; /* skip bits 0,1,2,3
  CTLIN_INR bitfield mask;                          /* invalid N(R) received
  CTLIN_FMS bitfield mask;                          /* FRMR sent
end FILL_16_BITS;
end NMADEF6;

aggregate NMADEF7 union fill prefix NMA:
  FILL 18 byte fill prefix NMADEF tag $$;          /* byte of flags
  FILL 18 BITS structure fill;
  FILL 19 bitfield length 2 fill prefix NMADEF tag $$; /* skip bits 0,1
  CTLIN_TUN bitfield mask;                          /* transmit underrun
  FILL 20 bitfield fill prefix NMADEF tag $$; /* skip bit 3
  CTLIN_RUN bitfield mask;                          /* receive underrun
  CTLIN_FMR bitfield mask;                          /* FRMR received
end FILL_18_BITS;

/*
/* VMS-specific line counters
/*

constant CTLIN_MBS equals 2701 prefix NMA tag $C; /* Multicast packets transmitted
constant CTLIN_MSN equals 2702 prefix NMA tag $C; /* Multicast bytes transmitted
constant CTLIN_RME equals 2750 prefix NMA tag $C; /* PCL Remote errors, bit-mapped
/* 0 TDM bus busy
/* 1 Message rejected

```

```

constant CTLIN_LCE equals 2751 prefix NMA tag $C; /*
/* 2 Message truncated
/* 3 Receiver offline
/* 4 Receiver busy
/* 5 Transmitter offline
/* 6 Local errors, bit-mapped
/* 7 Transmitter overrun
/* 8 CRC error on transmit
/* 9 CRC error on receive
/* 10 Timeouts
/* 11 Non-existent memory transmit
/* 12 Non-existent memory receive
/* 13 Buffer too small
/* 14 Failed to open channel
/* 15 Memory overflow
constant CTLIN_MSE equals 2752 prefix NMA tag $C; /*
/* 16 PCL master/secondary errors, bit-mapped
/* 17 Master down
/* 18 Now master

```

```
/*  
/* Node counters  
/*
```

```
constant CTNOD_ZER equals 0 prefix NMA tag $C; /* Seconds since last zeroed  
constant CTNOD_BRC equals 600 prefix NMA tag $C; /* Bytes received  
constant CTNOD_BSN equals 601 prefix NMA tag $C; /* Bytes sent  
constant CTNOD_MRC equals 610 prefix NMA tag $C; /* Messages received  
constant CTNOD_MSN equals 611 prefix NMA tag $C; /* Messages sent  
constant CTNOD_CRC equals 620 prefix NMA tag $C; /* Connects received  
constant CTNOD_CSN equals 621 prefix NMA tag $C; /* Connects sent  
constant CTNOD_RTO equals 630 prefix NMA tag $C; /* Response timeouts  
constant CTNOD_RSE equals 640 prefix NMA tag $C; /* Received connect resource errors  
constant CTNOD_MLL equals 700 prefix NMA tag $C; /* Maximum logical links active  
constant CTNOD_APL equals 900 prefix NMA tag $C; /* Aged packet loss  
constant CTNOD_NUL equals 901 prefix NMA tag $C; /* Node unreachable packet loss  
constant CTNOD_NOL equals 902 prefix NMA tag $C; /* Node out-of-range packet loss  
constant CTNOD_OPL equals 903 prefix NMA tag $C; /* Oversized packet loss  
constant CTNOD_PFE equals 910 prefix NMA tag $C; /* Packet format error  
constant CTNOD_RUL equals 920 prefix NMA tag $C; /* Partial routing update loss  
constant CTNOD_VER equals 930 prefix NMA tag $C; /* Verification reject
```

```
/*  
/* Server Base Specific Executor Node Counters  
/*
```

```
constant CTNOD_SRV_SYC equals 3310 prefix NMA tag $C; /* Control buffer failures  
constant CTNOD_SRV_SYS equals 3320 prefix NMA tag $C; /* Small buffer failures  
constant CTNOD_SRV_SYL equals 3330 prefix NMA tag $C; /* Large buffer failures  
constant CTNOD_SRV_SYR equals 3340 prefix NMA tag $C; /* Receive buffer failures
```

/*
/*
/*

X.25 Protocol module counters

```
constant CTXP_ZER      equals 0   prefix NMA tag $C; /* Seconds since last zeroed
constant CTXP_BRC      equals 1000 prefix NMA tag $C; /* Bytes received
constant CTXP_BSN      equals 1001 prefix NMA tag $C; /* Bytes sent
constant CTXP_BLR      equals 1010 prefix NMA tag $C; /* Data blocks received
constant CTXP_BLS      equals 1011 prefix NMA tag $C; /* Data blocks sent
constant CTXP_CRC      equals 1200 prefix NMA tag $C; /* Calls received
constant CTXP_CSN      equals 1201 prefix NMA tag $C; /* Calls sent
constant CTXP_FSR      equals 1210 prefix NMA tag $C; /* Fast selects received
constant CTXP_FSS      equals 1211 prefix NMA tag $C; /* Fast selects sent
constant CTXP_MSA      equals 1220 prefix NMA tag $C; /* Maximum switched circuits active
constant CTXP_MCA      equals 1221 prefix NMA tag $C; /* Maximum channels active
constant CTXP_RSE      equals 1230 prefix NMA tag $C; /* Received call resource errors
constant CTXP_LIR      equals 1240 prefix NMA tag $C; /* Locally initiated resets
constant CTXP_RIR      equals 1241 prefix NMA tag $C; /* Remotely initiated resets
constant CTXP_NIR      equals 1242 prefix NMA tag $C; /* Network initiated resets
constant CTXP_RST      equals 1250 prefix NMA tag $C; /* Restarts
```

/*
/*
/*

X.25 Server module counters

```
constant CTXS_ZER      equals 0  prefix NMA tag $C; /* Seconds since last zeroed
constant CTXS_MCA      equals 200 prefix NMA tag $C; /* Maximum circuits active
constant CTXS_ICR      equals 210 prefix NMA tag $C; /* Incoming calls rejected, no resources
constant CTXS_LLRL     equals 211 prefix NMA tag $C; /* Logical links rejected, no resources
```



```
/*  
/*      Coded parameter values  
/*
```

```
/*  
/* Loop test block type coded values  
/*
```

```
constant LOOP_MIX      equals 2  prefix NMA tag $C; /* Mixed  
constant LOOP_ONE     equals 1  prefix NMA tag $C; /* Ones  
constant LOOP_ZER     equals 0  prefix NMA tag $C; /* Zeroes
```

```
/*  
/* Default values for loop functions  
/*
```

```
constant LOOP_DCNT     equals 1  prefix NMA tag $C; /* Default count  
constant LOOP_DSIZ     equals 40  prefix NMA tag $C; /* Default message size
```

```
/*  
/* Values for LOOP HELP  
/*
```

```
constant LOOP_XMIT     equals 0  prefix NMA tag $C; /* Transmit  
constant LOOP_RECV     equals 1  prefix NMA tag $C; /* Receive  
constant LOOP_FULL     equals 2  prefix NMA tag $C; /* Full (both transmit and receive)
```



```

/*
/* Circuit/Line substate coded values
/*

```

```

constant LINSS_STA      equals 0  prefix NMA tag $C; /* Starting
constant LINSS_REF      equals 1  prefix NMA tag $C; /* Reflecting
constant LINSS_LOO      equals 2  prefix NMA tag $C; /* Looping
constant LINSS_LOA      equals 3  prefix NMA tag $C; /* Loading
constant LINSS_DUM      equals 4  prefix NMA tag $C; /* Dumping
constant LINSS_TRI      equals 5  prefix NMA tag $C; /* Triggering
constant LINSS_ASE      equals 6  prefix NMA tag $C; /* Autoservice
constant LINSS_ALO      equals 7  prefix NMA tag $C; /* Autoloading
constant LINSS_ADU      equals 8  prefix NMA tag $C; /* Autodumping
constant LINSS_ATR      equals 9  prefix NMA tag $C; /* Autotriggering
constant LINSS_SYN      equals 10 prefix NMA tag $C; /* Synchronizing
constant LINSS_FAI      equals 11 prefix NMA tag $C; /* Failed

constant LINSS_RUN      equals 12 prefix NMA tag $C; /* Running
constant LINSS_UN      equals 13 prefix NMA tag $C; /* Unsynchronised
constant LINSS_IDL      equals 14 prefix NMA tag $C; /* Idle (PSI-only)

```

```

/*
/* Circuit type coded values [In V2, line type coded values]
/*

```

```

constant CIRTY_POI      equals 0  prefix NMA tag $C; /* DDCMP Point
constant CIRTY_CON      equals 1  prefix NMA tag $C; /* DDCMP Controller
constant CIRTY_TRI      equals 2  prefix NMA tag $C; /* DDCMP Tributary
constant CIRTY_X25      equals 3  prefix NMA tag $C; /* X25
constant CIRTY_DMC      equals 4  prefix NMA tag $C; /* DDCMP DMC compatibility mode (DMP)
/*/* CIRTY_LAPB, 5 /* LAPB *** remove once all references have been changed to LAPB ***
constant CIRTY_NI      equals 6  prefix NMA tag $C; /* NI

```

```

/*
/* Circuit/Line Service
/*

```

```

constant LINSV_ENA      equals 0  prefix NMA tag $C; /* Enabled
constant LINSV_DIS      equals 1  prefix NMA tag $C; /* Disabled

```

```

/*
/* Circuit polling state
/*

```

```

constant CIRPST_AUT      equals 1  prefix NMA tag $C; /* Automatic
constant CIRPST_ACT      equals 2  prefix NMA tag $C; /* Active
constant CIRPST_INA      equals 3  prefix NMA tag $C; /* Inactive

```

```
constant CIRPST_DIE equals 4 prefix NMA tag $C; /* Dying
constant CIRPST_DED equals 5 prefix NMA tag $C; /* Dead
```

```
/*
/* Circuit blocking values
/*
```

```
constant CIRBLK_ENA equals 0 prefix NMA tag $C; /* Enabled
constant CIRBLK_DIS equals 1 prefix NMA tag $C; /* Disabled
```

```
/*
/* Circuit usage values
/*
```

```
constant CIRUS_PER equals 0 prefix NMA tag $C; /* Permanent
constant CIRUS_INC equals 1 prefix NMA tag $C; /* Incoming
constant CIRUS_OUT equals 2 prefix NMA tag $C; /* Outgoing
```

```
/*
/* Circuit maximum receive buffers
/*
```

```
constant CIRBF_UNL equals 255 prefix NMA tag $C; /* Unlimited
```

```
/*
/* Circuit verification [VMS only]
/*
```

```
constant CIRVE_ENA equals 0 prefix NMA tag $C; /* Enabled
constant CIRVE_DIS equals 1 prefix NMA tag $C; /* Disabled
```

```
/*
/* Circuit (desired) transport type [VMS only]
/*
```

```
constant CIRXPT_ZND equals 1 prefix NMA tag $C; /* Z-node
constant CIRXPT_PH2 equals 2 prefix NMA tag $C; /* Force Phase II on this circuit
constant CIRXPT_PH3 equals 3 prefix NMA tag $C; /* Routing III
constant CIRXPT_RO3 equals 3 prefix NMA tag $C; /* Routing III
constant CIRXPT_NR4 equals 4 prefix NMA tag $C; /* Nonrouting Phase IV
```

```
/*  
/* Line duplex coded values  
/*
```

```
constant DPX_FUL      equals 0 prefix NMA tag $C; /* Full  
constant DPX_HAL      equals 1 prefix NMA tag $C; /* Half
```

```
/*  
/* Line controller mode  
/*
```

```
constant LINCN_NOR     equals 0 prefix NMA tag $C; /* Normal  
constant LINCN_LOO     equals 1 prefix NMA tag $C; /* Loop
```

```
/*  
/* Line protocol values (same as CIRTY_)  
/*
```

```
constant LINPR_POI     equals 0 prefix NMA tag $C; /* DDCMP Point  
constant LINPR_CON     equals 1 prefix NMA tag $C; /* DDCMP Controller  
constant LINPR_TRI     equals 2 prefix NMA tag $C; /* DDCMP Tributary  
  
constant LINPR_DMC     equals 4 prefix NMA tag $C; /* DDCMP DMC compatibility mode (DMP)  
constant LINPR_LAPB    equals 5 prefix NMA tag $C; /* LAPB  
constant LINPR_NI      equals 6 prefix NMA tag $C; /* NI  
  
constant LINPR_BSY     equals 9 prefix NMA tag $C; /* BISYNC
```

```
/*  
/* Line protocol values for the PCL-11B  
/*
```

```
constant LINPR_MAS     equals NMASC_LINPR_CON prefix NMA tag $C; /* Master (controls clock signals)  
constant LINPR_NEU     equals NMASC_LINPR_TRI prefix NMA tag $C; /* Neutral (uses master's clock signals)  
constant LINPR_SEC     equals NMASC_LINPR_POI prefix NMA tag $C; /* Secondary (backup for master failure)
```

```
/*  
/* Line clock values  
/*
```

```
constant LINCL_EXT     equals 0 prefix NMA tag $C; /* External  
constant LINCL_INT     equals 1 prefix NMA tag $C; /* Internal
```

```
/*
```

```
/* Line type coded values [V2 only]
/*
```

```
constant LINTY_POI      equals 0  prefix NMA tag $C; /* DDCMP Point
constant LINTY_CON      equals 1  prefix NMA tag $C; /* DDCMP Controller
constant LINTY_TRI      equals 2  prefix NMA tag $C; /* DDCMP Tributary
constant LINTY_DMC      equals 3  prefix NMA tag $C; /* DDCMP DMC compatibility mode (DMP)
```

```
/*
/* Line multicast address function code [VMS datalink only].
/* Destination and physical address function codes too [VMS datalink only].
/*
```

```
constant LINMC_SET      equals 1  prefix NMA tag $C; /* Set address(es)
constant LINMC_CLR      equals 2  prefix NMA tag $C; /* Clear address(es)
constant LINMC_CAL      equals 3  prefix NMA tag $C; /* Clear entire list of multicast addresses
constant LINMC_SDF      equals 4  prefix NMA tag $C; /* Set physical address to DECnet default
```

```
/*
/* NI line protocol access mode [VMS datalink only]
/*
```

```
constant ACC_SHR        equals 1  prefix NMA tag $C; /* Shared access (default protocol user)
constant ACC_LIM        equals 2  prefix NMA tag $C; /* Limited access (point-to-point conn.)
constant ACC_EXC        equals 3  prefix NMA tag $C; /* Exclusive access (allow no others)
```

```
/*
/* PCL-11B address mode
/*
```

```
constant LINMO_AUT      equals 1  prefix NMA tag $C; /* Auto address mode
constant LINMO_SIL      equals 2  prefix NMA tag $C; /* Silo address mode
```

```
/*
/* X.25 line mode
/*
```

```
constant X25MD_DTE      equals 1  prefix NMA tag $C; /* Line operates as DTE
constant X25MD_DCE      equals 2  prefix NMA tag $C; /* Line operates as DCE
constant X25MD_DTL      equals 3  prefix NMA tag $C; /* Line is a DTE in loopback
constant X25MD_DCL      equals 4  prefix NMA tag $C; /* Line is a DCE in loopback
```

```
/*  
/* Node type values  
/*
```

```
constant NODTY_ROU equals 0 prefix NMA tag $C; /* Routing Phase III  
constant NODTY_NON equals 1 prefix NMA tag $C; /* Nonrouting Phase III  
constant NODTY_PHA equals 2 prefix NMA tag $C; /* Phase II  
constant NODTY_AREA equals 3 prefix NMA tag $C; /* Area  
constant NODTY_RT4 equals 4 prefix NMA tag $C; /* Routing Phase IV  
constant NODTY_NR4 equals 5 prefix NMA tag $C; /* Nonrouting Phase IV
```

```
/*  
/* Node password values  
/*
```

```
constant NODPW_SET equals 0 prefix NMA tag $C; /* Password set
```

```
/*  
/* Node CPU type codes  
/*
```

```
constant CPU_8 equals 0 prefix NMA tag $C; /* PDP-8 processor  
constant CPU_11 equals 1 prefix NMA tag $C; /* PDP-11 processor  
constant CPU_1020 equals 2 prefix NMA tag $C; /* Decsystem 10/20 processor  
constant CPU_VAX equals 3 prefix NMA tag $C; /* Vax processor
```

```
/*  
/* Service node version coded values  
/*
```

```
constant NODSNV_PH3 equals 0 prefix NMA tag $C; /* Phase III  
constant NODSNV_PH4 equals 1 prefix NMA tag $C; /* Phase IV
```

```
/*  
/* Node software type code  
/*
```

```
constant SOFT_SECL equals 0 prefix NMA tag $C; /* Secondary loader  
constant SOFT_TERL equals 1 prefix NMA tag $C; /* Tertiary loader  
constant SOFT_OSYS equals 2 prefix NMA tag $C; /* Operating system  
constant SOFT_DIAG equals 3 prefix NMA tag $C; /* Diagnostics
```

```
/*  
/* Node access (and default access) codes  
/*
```

```
constant ACES_NONE      equals 0 prefix NMA tag $C; /* None
constant ACES_INCO     equals 1 prefix NMA tag $C; /* Incoming
constant ACES_OUTG     equals 2 prefix NMA tag $C; /* Outgoing
constant ACES_BOTH     equals 3 prefix NMA tag $C; /* Both
constant ACES_REQU     equals 4 prefix NMA tag $C; /* Required
```



```
/*  
/* X.25 Protocol type values  
/*
```

```
constant XPRTY_BIL equals 1 prefix NMA tag $C; /* Bilateral
```

```
/*  
/* X.25 protocol state values  
/*
```

```
constant XPRST_ON equals 0 prefix NMA tag $C; /* On  
constant XPRST_OFF equals 1 prefix NMA tag $C; /* Off  
constant XPRST_SHU equals 2 prefix NMA tag $C; /* Shut
```

```
/*  
/* X.25 protocol multi-network support flag  
/*
```

```
constant XPRMN_ENA equals 0 prefix NMA tag $C; /* Enabled  
constant XPRMN_DIS equals 1 prefix NMA tag $C; /* Disabled
```

```
/*  
/* X.25 protocol DTE substate values  
/*
```

```
constant XPRSB_RUN equals 12 prefix NMA tag $C; /* Running  
constant XPRSB_UNSYN equals 13 prefix NMA tag $C; /* Unsynchronized  
constant XPRSB_SYN equals 10 prefix NMA tag $C; /* Synchronizing
```

/*
/* Months of the Year Codes
/*

constant	JAN	equals	1	prefix	NMA	tag	SC;
constant	FEB	equals	2	prefix	NMA	tag	SC;
constant	MAR	equals	3	prefix	NMA	tag	SC;
constant	APR	equals	4	prefix	NMA	tag	SC;
constant	MAY	equals	5	prefix	NMA	tag	SC;
constant	JUN	equals	6	prefix	NMA	tag	SC;
constant	JUL	equals	7	prefix	NMA	tag	SC;
constant	AUG	equals	8	prefix	NMA	tag	SC;
constant	SEP	equals	9	prefix	NMA	tag	SC;
constant	OCT	equals	10	prefix	NMA	tag	SC;
constant	NOV	equals	11	prefix	NMA	tag	SC;
constant	DEC	equals	12	prefix	NMA	tag	SC;

```
/*  
/* Service device codes (MOP)  
/*
```

```
constant SOFD_DP      equals 0  prefix NMA tag $C; /* DP11  
constant SOFD_UNA    equals 1  prefix NMA tag $C; /* UNA  
constant SOFD_DJ     equals 2  prefix NMA tag $C; /* DU11  
constant SOFD_DL     equals 4  prefix NMA tag $C; /* DL11  
constant SOFD_DQ     equals 6  prefix NMA tag $C; /* DQ11  
constant SOFD_DA     equals 8  prefix NMA tag $C; /* DA11  
constant SOFD_DUP    equals 10 prefix NMA tag $C; /* DUP11  
constant SOFD_DMC    equals 12 prefix NMA tag $C; /* DMC11  
constant SOFD_DMP    equals 18 prefix NMA tag $C; /* DMP11  
constant SOFD_DTE    equals 20 prefix NMA tag $C; /* DTE20  
constant SOFD_KL8    equals 32 prefix NMA tag $C; /* KL8  
constant SOFD_DMV    equals 34 prefix NMA tag $C; /* DMV  
constant SOFD_DPV    equals 36 prefix NMA tag $C; /* DPV  
constant SOFD_DMF    equals 38 prefix NMA tag $C; /* DMF32
```

/*
/*
/*

Status codes for field support routines

```
constant(
  SUCCESS          /* Unqualified success
  , SUCCFLDRPL     /* Success with field replaced
) equals 1 increment 8 prefix NMA tag $;
```

```
constant(
  BADFID          /* Invalid field id code
  , BADDAT        /* Invalid data format
  , BADOPR        /* Invalid operation
  , BUFTOOSMALL   /* Buffer too small
  , FLDNOTFND     /* Field not found
) equals 0 increment 8 prefix NMA tag $;
```

/*
/*
/*

Permanent database file ID codes

```
constant OPN_MIN      equals 0 prefix NMA tag $C; /* Minimum !
constant OPN_NODE     equals 0 prefix NMA tag $C; /* Nodes
constant OPN_LINE     equals 1 prefix NMA tag $C; /* Lines
constant OPN_LOG      equals 2 prefix NMA tag $C; /* Logging
constant OPN_OBJ      equals 3 prefix NMA tag $C; /* Object
constant OPN_CIR      equals 4 prefix NMA tag $C; /* Circuit
constant OPN_X25      equals 5 prefix NMA tag $C; /* Module X25
constant OPN_X29      equals 6 prefix NMA tag $C; /* Module X29
constant OPN_CNF      equals 7 prefix NMA tag $C; /* Module Configurator
constant OPN_MAX      equals 7 prefix NMA tag $C; /* Maximum ! permanent database files
constant OPN_ALL      equals 127 prefix NMA tag $C; /* All opened files
```

/*
/*
/*

Open access codes

```
constant(
  OPN_AC_RO        /* Read Only
  , OPN_AC_RW      /* Read write
) equals 0 increment 1 prefix NMA tag $C;
```



```
/*
/*      Define Phase II NICE function codes
/*

constant FN2_DLL      equals 2  prefix NMA tag $C; /* Down Line Load
constant FN2_ULD      equals 3  prefix NMA tag $C; /* Upline Dump
constant FN2_TRI      equals 4  prefix NMA tag $C; /* Trigger remote bootstrap
constant FN2_LOO      equals 5  prefix NMA tag $C; /* Loop back test
constant FN2_TES      equals 6  prefix NMA tag $C; /* Send test message to be looped
constant FN2_SET      equals 7  prefix NMA tag $C; /* Set parameter
constant FN2_REA      equals 8  prefix NMA tag $C; /* Read Parameter
constant FN2_ZER      equals 9  prefix NMA tag $C; /* Zero counters
constant FN2_LNS      equals 14 prefix NMA tag $C; /* Line service

/*
/*      Change parameters (volatile only)
/*

constant OP2_CHNST    equals 5  prefix NMA tag $C; /* Node operational status
constant OP2_CHLST    equals 8  prefix NMA tag $C; /* Line operational status

/*
/*      Read Information (Status and Counters only)
/*

constant OP2_RENCT    equals 0  prefix NMA tag $C; /* Local node counters
constant OP2_RENST    equals 1  prefix NMA tag $C; /* local node status
constant OP2_RELCT    equals 4  prefix NMA tag $C; /* Line counters
constant OP2_RELST    equals 5  prefix NMA tag $C; /* Line status

/*
/*      Zero counters
/*

constant OP2_ZENCT    equals 0  prefix NMA tag $C; /* Local Node counters
constant OP2_ZELCT    equals 2  prefix NMA tag $C; /* Line counters

/*
/*      Line entity codes
/*

constant EN2_KNO      equals 0  prefix NMA tag $C; /* Known Lines
constant EN2_LID      equals 1  prefix NMA tag $C; /* Line id
constant EN2_LCN      equals 2  prefix NMA tag $C; /* Line convenience name
```

```
/*
/* NML Return codes
/*
```

```

constant STS_SUC      equals 1  prefix NMA tag $C; /* Success
constant STS_MOR      equals 2  prefix NMA tag $C; /* Request accepted, more to come
constant STS_PAR      equals 3  prefix NMA tag $C; /* Partial reply

/*
/*
constant STS_DON      equals -128 prefix NMA tag $C; /* Done

/*
/*
constant STS_FUN      equals -1  prefix NMA tag $C; /* Unrecognized function or option
constant STS_INV      equals -2  prefix NMA tag $C; /* Invalid message format
constant STS_PRI      equals -3  prefix NMA tag $C; /* Privilege violation
constant STS_SIZ      equals -4  prefix NMA tag $C; /* Oversized management command message
constant STS_MPR      equals -5  prefix NMA tag $C; /* Network management program error
constant STS_PTY      equals -6  prefix NMA tag $C; /* Unrecognized parameter type
constant STS_MVE      equals -7  prefix NMA tag $C; /* Incompatible management version
constant STS_CMP      equals -8  prefix NMA tag $C; /* Unrecognized component
constant STS_IDE      equals -9  prefix NMA tag $C; /* Invalid identification format
constant STS_LCO      equals -10 prefix NMA tag $C; /* Line communication error
constant STS_STA      equals -11 prefix NMA tag $C; /* Component in wrong state
constant STS_FOP      equals -13 prefix NMA tag $C; /* File open error
constant STS_FCO      equals -14 prefix NMA tag $C; /* Invalid file contents
constant STS_RES      equals -15 prefix NMA tag $C; /* Resource error
constant STS_PVA      equals -16 prefix NMA tag $C; /* Invalid parameter value
constant STS_LPR      equals -17 prefix NMA tag $C; /* Line protocol error
constant STS_FIO      equals -18 prefix NMA tag $C; /* File i/o error
constant STS_MLD      equals -19 prefix NMA tag $C; /* Mirror link disconnected
constant STS_ROO      equals -20 prefix NMA tag $C; /* No room for new entry
constant STS_MCF      equals -21 prefix NMA tag $C; /* Mirror connect failed
constant STS_PNA      equals -22 prefix NMA tag $C; /* Parameter not applicable
constant STS_PLO      equals -23 prefix NMA tag $C; /* Parameter value too long
constant STS_HAR      equals -24 prefix NMA tag $C; /* Hardware failure
constant STS_OPE      equals -25 prefix NMA tag $C; /* Operation failure
constant STS_SYS      equals -26 prefix NMA tag $C; /* System-specific management
                        /* function not supported

constant STS_PGP      equals -27 prefix NMA tag $C; /* Invalid parameter grouping
constant STS_BLR      equals -28 prefix NMA tag $C; /* Bad loopback response
constant STS_PMS      equals -29 prefix NMA tag $C; /* Parameter missing

/*
/*
constant STS_A_I      equals -127 prefix NMA tag $C; /* Invalid alias identification
constant STS_OBJ      equals -126 prefix NMA tag $C; /* Invalid object identification
constant STS_PRO      equals -125 prefix NMA tag $C; /* Invalid process identification
constant STS_LNK      equals -124 prefix NMA tag $C; /* Invalid link identification

```

```

/*
/*      Error details
/*
/*
/*      STS_FOP and STS_FIO
/*

```

```

constant FOPDTL_PDB      equals 0  prefix NMA tag $C:/* Permanent database
constant FOPDTL_LFL      equals 1  prefix NMA tag $C:/* Load file
constant FOPDTL_DFL      equals 2  prefix NMA tag $C:/* Dump file
constant FOPDTL_SLF      equals 3  prefix NMA tag $C:/* Secondary loader
constant FOPDTL_TLF      equals 4  prefix NMA tag $C:/* Tertiary loader
constant FOPDTL_SDF      equals 5  prefix NMA tag $C:/* Secondary dumper

```

```

/*
/*      STS_MLD, STS_MCF
/*

```

```

constant NCEDTL_NNA      equals 0  prefix NMA tag $C:/* No node name set
constant NCEDTL_INN      equals 1  prefix NMA tag $C:/* Invalid node name format
constant NCEDTL_UNA      equals 2  prefix NMA tag $C:/* Unrecognised node name
constant NCEDTL_UNR      equals 3  prefix NMA tag $C:/* Node unreachable
constant NCEDTL_RSC      equals 4  prefix NMA tag $C:/* Network resources
constant NCEDTL_RJC      equals 5  prefix NMA tag $C:/* Rejected by object
constant NCEDTL_ONA      equals 6  prefix NMA tag $C:/* Invalid object name format
constant NCEDTL_OBJ      equals 7  prefix NMA tag $C:/* Unrecognised object
constant NCEDTL_ACC      equals 8  prefix NMA tag $C:/* Access control rejected
constant NCEDTL_BSY      equals 9  prefix NMA tag $C:/* Object too busy
constant NCEDTL_NRS      equals 10 prefix NMA tag $C:/* No response from object
constant NCEDTL_NSD      equals 11 prefix NMA tag $C:/* Node shut down
constant NCEDTL_DIE      equals 12 prefix NMA tag $C:/* Node or object failed
constant NCEDTL_DIS      equals 13 prefix NMA tag $C:/* Disconnect by object
constant NCEDTL_ABO      equals 14 prefix NMA tag $C:/* Abort by object
constant NCEDTL_ABM      equals 15 prefix NMA tag $C:/* Abort by management

```

```

/*
/*      STS_OPE
/*

```

```

constant OPEDTL_DCH      equals 0  prefix NMA tag $C:/* Data check
constant OPEDTL_TIM      equals 1  prefix NMA tag $C:/* Timeout
constant OPEDTL_ORN      equals 2  prefix NMA tag $C:/* Data overrun
constant OPEDTL_ACT      equals 3  prefix NMA tag $C:/* Unit is active
constant OPEDTL_BAF      equals 4  prefix NMA tag $C:/* Buffer allocation failure
constant OPEDTL_RUN      equals 5  prefix NMA tag $C:/* Protocol running
constant OPEDTL_DSC      equals 6  prefix NMA tag $C:/* Line disconnected
constant OPEDTL_FTL      equals 8  prefix NMA tag $C:/* Fatal hardware error
constant OPEDTL_MNT      equals 11 prefix NMA tag $C:/* DDCMP maintainance message received
constant OPEDTL_LST      equals 12 prefix NMA tag $C:/* Data lost due to buffer size mismatch
constant OPEDTL_THR      equals 13 prefix NMA tag $C:/* Threshold error
constant OPEDTL_TRB      equals 14 prefix NMA tag $C:/* Tributary malfunction
constant OPEDTL_STA      equals 15 prefix NMA tag $C:/* DDCMP start message received

```


NMADEF.SDL;1

end NMADEF7;

end_module \$NMADEF;

NC

MA

SS

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SS

This image displays a complex grid of technical diagrams and code snippets, likely from a VAX/VMS V4.0 manual. The grid is organized into columns and rows, with various labels and content:

- Top Row:** Includes a large label "NCP MRP" and several columns of vertical bar patterns and code.
- Second Row:** Features a label "LUXSORT LIS" and continues with vertical bar patterns and code.
- Third Row:** Contains a label "LUXSORT LIS" and more vertical bar patterns and code.
- Fourth Row:** Includes a label "NCPDEF SOL" and vertical bar patterns and code.
- Fifth Row:** Contains a label "LUXSINCO LIS" and vertical bar patterns and code.
- Sixth Row:** Includes a label "NMADEF SOL" and vertical bar patterns and code.
- Bottom Row:** Features a label "NCP" and vertical bar patterns and code.

The diagrams consist of vertical bars of varying heights and widths, often arranged in groups. Interspersed among these are blocks of text, some appearing to be code or configuration parameters. The overall layout is highly structured and repetitive, typical of a technical reference manual.

NCPLIBRY B32	NCPCONCAR LIS	NCPERRMSG LIS	NCPCONMAN LIS	NCPMAIN LIS	NCPNETIO LIS
NMAHEAD B32	NCLIBRY LIS	NMATAIL B32			