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FILEID**MOMLIB

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```
0001 0 | Version: 'V04-000'  
0002 0 |  
0003 0 |*****  
0004 0 |  
0005 0 |  
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0023 0 |  
0024 0 |  
0025 0 |*****  
0026 0 |  
0027 0 |++  
0028 0 |  
0029 0 | NMAHEAD.B32  
0030 0 |  
0031 0 | Define SEQULST 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  
M 0047 0 |     SEQULST(P,G,I,S)[A]=  
M 0048 0 |         %NAME(P,GET1ST_ A)=  
M 0049 0 |         %IF NUL2ND_ A  
M 0050 0 |             %THEN (I) + %COUNT*(S) ! ASSUMES I, S ALWAYS GENERATED BY CONVERSION PROGRAM  
M 0051 0 |             %ELSE GET2ND_ A  
M 0052 0 |             %FI %.  
M 0053 0 |  
M 0054 0 |     GET1ST_(A,B)=  
M 0055 0 |         A%  
M 0056 0 |     GET2ND_(A,B)=  
M 0057 0 |         B%, ! KNOWN NON-NULL
```

B 12
12-Sep-1984 23:05:08 VAX-11 Bliss-32 v4.0-742
15-Sep-1984 22:47:04 \$255\$DUA28:[MOM.SRC]NMAHEAD.B32;1 Page (1)

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

```

0064 0 | *****
0065 0 | * Created 15-SEP-1984 23:04:56 by VAX-11 SDL V2.0      Source: 15-SEP-1984 22:46:48 $255$DUA28:[MOM.SRC]MOMDEF.
0066 0 | *****
0067 0
0068 0
0069 0 *** MODULE $MOMDEF ***
0070 0
0071 0 Internal codes used to identify entity type of current circuit,
0072 0 line or node.
0073 0
0074 0 literal MOM$C_NODE = 0;
0075 0 literal MOM$C_NODEBYNAME = 1;
0076 0 literal MOM$C_CIRCUIT = 2;
0077 0 literal MOM$C_LINE = 3;
0078 0
0079 0     MOM constants used in parsing NICE messages.
0080 0
0081 0 literal MOM$C_NODE_ID_PARAM = 0;           ! Parameter is a node address and/or name
0082 0 literal MOM$C_NODE_ADDR_PARAM = 1;         ! Parameter is a node address
0083 0
0084 0     Flags set in MOM$GL_SERVICE_FLAGS
0085 0
0086 0 literal MOM$M_AUTOSERVICE = 1;
0087 0 literal MOM$M_NI_CIRC = 2;
0088 0 literal MOM$M_MOP_RCV_OUT = 4;
0089 0 literal MOM$M_LOOP_W_ASSIST = 8;
0090 0 literal MOM$M_LOOP_W_ACCESS_CTL = 16;
0091 0 literal MOM$M_NI_MULTICAST = 32;
0092 0 literal MOM$M_CONSOLE_CARRIER_LOAD = 64;
0093 0 literal MOM$M_NI_VOLUNTEERING = 128;
0094 0 literal MOM$K_FAC_CODE = 519;              ! Facility code
0095 0 literal MOM$K_SIG_CODE = 340i3184;        ! Signal code (519^16)
0096 0
0097 0     MOM constants - QIO buffer sizes, etc.
0098 0
0099 0 literal MOM$K_NI_ADDR_LENGTH = 6;          ! Length of Ethernet addresses.
0100 0 literal MOM$K_NICE_BUF_LEN = 197;           ! NICE message buffer length
0101 0 literal MOM$K_QIO_BUFLEN = 512;             ! QIO buffer length
0102 0 literal MOM$K_P2_BUFLEN = 104;              ! Max length for P2 buffers.
0103 0 literal MOM$K_MAX_MOP_MSG_LEN = 1500;       ! Maximum length for a received MOP message
0104 0 literal MOM$K_NI_PREFIX = 262314;           ! Standard NI prefix used for DEC Phase IV
0105 0 routers.
0106 0 literal MOM$K_LOADUMP_NI_PROT = 352;        ! NI Load/Dump Protocol type for NI driver
0107 0 literal MOM$K_CONSOLE_NI_PROT = 608;          ! NI Remote Console Protocol type
0108 0 literal MOM$K_LOOP_NI_PROT = 144;            ! NI Loop Protocol type for NI driver
0109 0 literal MOM$K_MAX_COO普_HEADER = 30;          ! Maximum size the NI loop message headers
0110 0 can be.
0111 0 literal MOM$K_NO_LOOP_HELP = -1;             ! Default value for circuit loop help type.
0112 0 literal MOM$K_SKIP_MULTICASTS = -1;           ! When looking for a MOP message response,
0113 0 skip over multicasts.
0114 0
0115 0     Internal loopback type codes.
0116 0
0117 0 literal MOM$C_LOOP_MOP = 0;                  ! MOP loopback operation
0118 0 literal MOM$C_LOOP_PHASE3 = 1;                ! Phase III loopback operation
0119 0 literal MOM$C_LOOP_PHASE2 = 2;                ! Phase II loopback operation
0120 0 literal MOM$S_MOMDEF = 1;
```

```
0121 0    macro MOMSV_AUTOSENCE = 0,0,1,0 %; ! Autoservice function in progress (as
0122 0    macro MOMSV_NI_CIRC = 0,1,1,0 %; Service function is on an Ethernet circuit.
0123 0    macro MOMSV_MOP_RCV_OUT = 0,2,1,0 %; There is a MOP receive outstanding.
0124 0    macro MOMSV_LOOP_W_ASSIST = 0,3,1,0 %; Loop an NI circuit using a third node to
0125 0    macro MOMSV_LOOP_W_ACCESS_CTL = 0,4,1,0 %; ! Loop a node with using an access control
0126 0    macro MOMSV_NI_MULTICAST = 0,5,1,0 %; ! Autoservice request received on an NI was
0127 0    macro MOMSV_CONSOLE_CARRIER_LOAD = 0,6,1,0 %; ! Down line loading console carrier code
0128 0    macro MOMSV_NI_VOLUNTEERING = 0,7,1,0 %; ! A multicast service request was received
0129 0    ! from a target on the NI. MOM is
0130 0    volunteering to perform the request.
0131 0    If the target does not respond, assume
0132 0    some other host was chosen by the target.
0133 0    (needed because the file format is
0134 0    different than other load files).
0135 0    a multicast.
0136 0    string (supplied in the NICE message).
0137 0    assist.
0138 0    opposed to operator requested
0139 0    service function.

0140 0    MOM facility code

0141 0
0142 0
0143 0
0144 0    *** MODULE $MOPDEF ***
0145 0
0146 0    MOP message definitions

0147 0
0148 0
0149 0    Define MOP function codes.

0150 0
0151 0    literal MOPS_FCT_MLT = 0;           ! Load/dump Memory load with transfer address
0152 0    literal MOPS_FCT_DCM = 1;           ! Dump Complete
0153 0    literal MOPS_FCT_MLD = 2;           ! Load/dump Memory load
0154 0    literal MOPS_FCT_ASV = 3;           ! Load/dump Assistance volunteer (NI only)
0155 0    literal MOPS_FCT_RMD = 4;           ! Request memory dump
0156 0    literal MOPS_FCT RID = 5;           ! Remote Console Request ID
0157 0    literal MOPS_FCT_EMM = 6;           ! Remote Console Enter MOP mode (boot)
0158 0    literal MOPS_FCT_SID = 7;           ! Remote Console System ID
0159 0    literal MOPS_FCT_RPR = 8;           ! Load/dump Request program
0160 0    literal MOPS_FCT_RML = 10;          ! Load/dump Request memory load
0161 0    literal MOPS_FCT_RDS = 12;          ! Load/dump Request Dump Service (old MOP Mode Running)
0162 0    literal MOPS_FCT_MDD = 14;          ! Load/dump Memory dump data
0163 0    literal MOPS_FCT_PLT = 20;          ! Load/dump Parameter load with transfer address
0164 0    literal MOPS_FCT_ALD = 24;          ! Active loop data
0165 0    literal MOPS_FCT_PLD = 25;          ! Passive looped data

0166 0
0167 0    Define MOP parameter codes.

0168 0
0169 0    literal MOPSC_PAR_NNA = 1;          ! Target node name
0170 0    literal MOPSC_PAR_NAD = 2;          ! Target node address
0171 0    literal MOPSC_PAR_HNA = 3;          ! Host node name
0172 0    literal MOPSC_PAR_HAD = 4;          ! Host node address
0173 0    literal MOPSC_PARHTI = 5;          ! Host system time

0174 0
0175 0    Define MOP Software ID codes for Request Program and Boot messages.

0176 0
0177 0    literal MOPSC_SID_NON = 0;          ! No software ID
```

```
0178 0 literal MOP$C_SID_OSY = 255;           ! Standard Operating System
0179 0 literal MOP$C_SID_MAI = 254;           ! Maintenance System
0180 0
0181 0 Define MOP Processor codes for Boot messages.
0182 0
0183 0 literal MOP$C_PRO_SYS = 0;             ! System processor
0184 0 literal MOP$C_PRO_COM = 1;               ! Communications processor (for loading
0185 0     Console Carrier)
0186 0
0187 0 Define function codes used in NI loop messages.
0188 0
0189 0 literal MOP$C_NILOOP_REPLY = 1;         ! Reply to looped message
0190 0 literal MOP$C_NILOOP_FORWARD = 2;        ! Forward looping message
0191 0
0192 0 *** MODULE $SVDDEF ***
0193 0
0194 0 Service Data
0195 0 Definitions of target node service information. This information is
0196 0 retrieved from the volatile database and, if applicable, the NICE command.
0197 0 It is saved in this table for use by Service during the service operation.
0198 0
0199 0 literal SVD$M_MSG_PARAM = 1;
0200 0 literal SVD$K_ENTRY_LEN = 137;           ! Length of SVD table entries
0201 0 literal SVD$C_ENTRY_LEN = 137;           ! Length of SVD table entries
0202 0 literal SVD$K_BYTE = 0;
0203 0 literal SVD$K_WORD = 1;
0204 0 literal SVD$K_LONG = 2;
0205 0 literal SVD$K_STRING = 3;
0206 0 literal SVD$S_SVDDEF = 137;
0207 0 macro SVD$L_NFB_ID = 0,0,32,0 %;        ! NFB Field ID for QIOs to NETACP
0208 0 macro SVD$B_NFB_DATABASE = 3,0,8,0 %;    ! NFB Field ID database (subfield of NFB_ID)
0209 0 macro SVD$W_NICE_ID = 4,0,16,0 %;        ! NICE message parameter ID
0210 0 macro SVD$B_NICE_TYPE = 6,0,8,0 %;       ! Parameter type in NICE messages
0211 0 macro SVD$B_FLAGS = 7,0,8,0 %;          ! Flags field
0212 0 macro SVD$V_MSG_PARAM = 7,0,1,0 %;       ! The parameter value was supplied by the
0213 0 macro SVD$B_STRING_LEN = 8,0,8,0 %;       ! Byte length of parameter value
0214 0 macro SVD$T_STRING = 9,0,0,0 %;
0215 0 literal SVD$S_STRING = 128;            ! If it's a string parameter, the string.
0216 0 macro SVD$L_PARAM = 9,0,32,0 %;          ! If it's not a string parameter, the parameter
0217 0     value.
0218 0
0219 0 Parametr type definitions
0220 0
0221 0
0222 0 *** MODULE SMDTDEF ***
0223 0
0224 0 Mop Device Table definitions
0225 0 This table contains the ASCII device name strings associated with a
0226 0 given MOP device code. It is used to construct secondary and tertiary
0227 0 load file names when none are specified in the database. The characters
0228 0 'SEC' or 'TER' are concatenated with the device name string to construct
0229 0 a load file name.
0230 0
0231 0 literal MDT$K_ENTRYLEN = 5;
0232 0 literal MDT$C_ENTRYLEN = 5;
0233 0 literal MDT$S_MDTDEF = 5;
0234 0 macro MDT$B_DEVTYPE = 0,0,8,0 %;
```

```

0235 0     macro MDTSA_DEVSTRING = 1,0,32,0 %;
0236 0
0237 0
0238 0
0239 0
0240 0
0241 0     literal CIBSM_TARGET_ADDR_FIXED = 1;
0242 0     literal CIBSK_CIBLEN = 76;
0243 0     literal CIBSC_CIBLEN = 76;
0244 0         address and protocol to use (among
0245 0             other things).
0246 0     literal CIBSS_CIBDEF = 76;
0247 0     macro CIBSL_CCHAN = 0,0,32,0 %;
0248 0     macro CIBST_NI_HIORD_ADDR = 4,0,0,0 %;
0249 0     literal CIBSS_NI_HIORD_ADDR = 6;      | HIORD NI address of target
0250 0     macro CIBSL_NI_HIORD_PREF = 4,0,32,0 %; | HIORD NI prefix assigned to Digital
0251 0     macro CIBSW_NI_HIORD_NODE = 8,0,16,0 %; | Node address withing HIORD NI address of target
0252 0     macro CIBST_NI_HARDWR_ADDR = 10,0,0,0 %;
0253 0     literal CIBSS_NI_HARDWR_ADDR = 6;       | Hardware NI address of target
0254 0     macro CIBSW_FLAGS = 16,0,16,0 %;        | Flags field
0255 0     macro CIBSV_TARGET_ADDR_FIXED = 16,0,1,0 %; ! Set when there is no alternate address
0256 0             to try in order to communicate with
0257 0             the target. Applies to any service
0258 0             circuit, but is most useful on the NI
0259 0             where the target could be responding to
0260 0             either a hardware address or a DECnet
0261 0             physical address.
0262 0     macro CIBSL_RETRY_CNT = 18,0,32,0 %;     | Transmit retry count for transaction.
0263 0     macro CIBST_SETMODE_P2_BUF = 22,0,0,0 %;
0264 0     literal CIBSS_SETMODE_P2_BUF = 54;       | P2 buffer for telling NI driver which NI
0265 0     macro CIBSL_P2_BUF_SIZ = 24,0,32,0 %;   | MOP message buffer size
0266 0     macro CIBSL_P2_PADDING = 30,0,32,0 %;  | Put pad count on NI messages.
0267 0     macro CIBSL_P2_PROTOCOL = 48,0,32,0 %; | NI Protocol to use.
0268 0     macro CIBST_NI_PHYS_ADDR = 70,0,8,0 %;  | Target NI physical address
0269 0
0270 0
0271 0
0272 0
0273 0
0274 0
0275 0
0276 0
0277 0
0278 0     literal NIH$K_NI_HEADER_LEN = 14;
0279 0     literal NIH$C_NI_HEADER_LEN = 14;
0280 0     literal NIH$S_NIRDEF = T4;
0281 0     macro NIH$T_DEST_NI_ADDR = 0,0,0,0 %;
0282 0     literal NIH$S_DEST_NI_ADDR = 6;          | destination Ni address of message
0283 0     macro NIH$B_MULTICAST = 0,0,8,0 %;     | Low bit set if destination is a multicast
0284 0     macro NIH$T_SOURCE_NI_ADDR = 6,0,0,0 %;
0285 0     literal NIH$S_SOURCE_NI_ADDR = 6;        | Source Ni address of message
0286 0     macro NIH$W_PROTOCOL_TYPE = 12,0,16,0 %; | Protocol type of message
0287 0
0288 0
0289 0
0290 0
0291 0
0292 0
0293 0
0294 0
0295 0
0296 0
0297 0
0298 0
0299 0
0300 0
0301 0
0302 0
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1189 0
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1191 0
1192 0
1193 0
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1195 0
1196 0
1197 0
1198 0
1199 0
1200 0
1201 0
1202 0
1203 0
1204 0
1205 0
1206 0
1207 0
1208 0
1209 0
1210 0
1211 0
1212 0
1213 0
1214 
```

```

0292 0 | when the operation is completed.
0293 0
0294 0 literal MSBSM_CODE_FLD = 1;
0295 0 literal MSBSM_DET_FLD = 2;
0296 0 literal MSBSM_MSG_FLD = 4;
0297 0 literal MSBSM_MSG2_FLD = 8;
0298 0 literal MSBSM_ENTD_FLD = 16;
0299 0 literal MSBSM_DATA_FLD = 32;
0300 0 literal MSBSK_LENGTH = 28;           | Maximum MSB size
0301 0 literal MSBSC_LENGTH = 28;           | Maximum MSB size
0302 0 literal MSBSS_MSBDEF = 28;
0303 0 macro MSBSL_FLAGS = 0,0,32,0 %;      | Flags
0304 0 macro MSBSV_CODE_FLD = 0,0,1,0 %;     | Status code present (not used)
0305 0 macro MSBSV_DET_FLD = 0,1,1,0 %;      | Error detail field present (DETAIL)
0306 0 macro MSBSV_MSG_FLD = 0,2,1,0 %;      | Message text field present (TEXT)
0307 0 macro MSBSV_MSG2_FLD = 0,3,1,0 %;     | Second line of message text present (TEXT2)
0308 0 macro MSBSV_ENTD_FLD = 0,4,1,0 %;      | Entity descriptor field present (ENTITY)
0309 0 macro MSBSV_DATA_FLD = 0,5,1,0 %;      | Data descriptor field present (DATA)
0310 0 macro MSBSB_CODE = 4,0,8,0 %;          | Status code
0311 0 macro MSBSW_DETAIL = 8,0,16,0 %;       | Detail
0312 0 macro MSBSL_TEXT = 12,0,32,0 %;        | Status code for text message.
0313 0 macro MSBSL_TEXT2 = 16,0,32,0 %;       | Status code for second line of text msg.
0314 0 macro MSBSA_ENTITY = 20,0,32,0 %;      | Entity descriptor address
0315 0 macro MSBSA_DATA = 24,0,32,0 %;        | Data descriptor address

0316 0
0317 0 *** MODULE $DBGDEF ***
0318 0
0319 0 NML internal logging (debugging) flags
0320 0
0321 0 These flags are used to enable logging of specified data to the NML log
0322 0 file. The flags are defined by translating the logical name NML$LOG, which
0323 0 MOM uses also. The permanent database and event logging flags are not
0324 0 used by MOM.
0325 0
0326 0 literal DBGSC_NETIO = 0;                | Network send/receive logging
0327 0 literal DBGSC_FILEIO = 1;                | File read/write logging
0328 0 literal DBGSC_NPARSE = 2;                | NPARSE state transition logging
0329 0 literal DBGSC_LOOPIO = 3;                | Loopback transmit/receive logging
0330 0 literal DBGSC_ACPQIO = 4;                | NETACP QIO logging
0331 0 literal DBGSC_MOPIO = 5;                | MOP send/receive logging - see MOP_xxx flags below.
0332 0 literal DBGSC_SRVTRC = 6;                | Trace service operations
0333 0 literal DBGSC_EVENTS = 7;                | Network event (EVL) logging
0334 0
0335 0 The following flags must be set in conjunction with the DBGSC_MOPIO
0336 0 flag.
0337 0
0338 0 literal DBGSC_MOP_OTHER = 8;             | All other MOP send/receive messages
0339 0 literal DBGSC_MOP_MLD = 9;                | MOP Memory Load Data messages (MOPS_FCT_MLD)
0340 0 literal DBGSC_MOP_RML = 10;               | MOP Request Memory Load messages (MOPS_FCT_RML)
0341 0 literal DBGSC_MOP_RMD = 11;               | MOP Request Memory Dump messages (MOPS_FCT_RMD)
0342 0 literal DBGSC_MOP_MDD = 12;               | MOP Memory Dump Data messages (MOPS_FCT_MDD)

```

0343 0 |
0344 0 |
0345 0 |
| %TITLE 'MOMDDL - MOM Data Definition Library'
| IDENT = 'V04-000'

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FACILITY: DECnet-VAX Network Management Maintenance Operations Module (MOM)

ABSTRACT: Contains structure definitions and global macros used by MOM.

ENVIRONMENT: VAX/VMS Operating System

AUTHOR: Kathy Perko

CREATION DATE: 9-Jan-1982

MODIFIED BY:
V03-001

V03-001 MRP0001 Kathy Perko 20-Jan-1984
Add SERVICE NODE VERSION parameter.

Miscellaneous symbols

LITERAL

FAILURE = 0,
SUCCESS = 1,
FALSE = 0,
TRUE = 1,
MOM\$NOSIGNAL = 0,
MOM\$SIGNAL = 1;

I 12
15-Sep-1984 23:05:08
15-Sep-1984 22:46:53

VAX-11 Bliss-32 V4.0-742
S255\$DUA28:[MOM.SRC]MOMDDL.B32;1

Page 9
(1)

0400 0 | Structure declarations used for system defined structures to
0401 0 | save typing.
0402 0 |
0403 0 |
0404 0 | STRUCTURE
0405 0 | BBLOCK [O, P, S, E; N] =
0406 0 | [N]
0407 0 | (BBLOCK+0)<P,S,E>,
0408 0 |
0409 0 | BBLOCKVECTOR [I, O, P, S, E; N, BS] =
0410 0 | [N*BS]
0411 0 | ((BBLOCKVECTOR+I*BS)+0)<P,S,E>;
0412 0 |
0413 0 |
0414 0 | Macro to signal status message
0415 0 |
0416 0 | MACRO
M 0417 0 | \$SIGNAL_MSG [] =
M 0418 0 | SIGNAL (MOM\$K_SIG_CODE, %REMAINING)
; 0419 0 | %:

0420 0
0421 0
0422 0
0423 0
0424 0
0425 0
M 0426 0
M 0427 0
M 0428 0
M 0429 0
M 0430 0
M 0431 0
M 0432 0
M 0433 0
M 0434 0
M 0435 0
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M 0440 0
M 0441 0
M 0442 0
M 0443 0
M 0444 0
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M 0452 0
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M 0454 0
M 0455 0
M 0456 0
M 0457 0
M 0458 0
M 0459 0
M 0460 0
M 0461 0
M 0462 0
M 0463 0
M 0464 0
M 0465 0
M 0466 0
M 0467 0
M 0468 0
M 0469 0
M 0470 0
M 0471 0
M 0472 0
M 0473 0
M 0474 0
M 0475 0
M 0476 0

| Macro to generate Network ACP Control QIO (NFB) P1 buffer contents. The NFB
| describes SET, SHOW, CLEAR, and ZERO operations.

MACRO

\$NFB (FUNC, FLAGS, DATABASE, SRCH_KEY_ONE, OPER_ONE,
SRCH_KEY_TWO, OPER_TWO) =

BYTE (%IF %IDENTICAL (FUNC, 0) ! QIO function code.
%THEN 0
%ELSE %NAME ('NFBSC_FC_', FUNC)
%FI),

BYTE (%IF %NULL (FLAGS) ! Error Update and Process
%THEN 0
%ELSE FLAGS
%FI),

BYTE (%IF %IDENTICAL (DATABASE, 0) ! ACP database to update.
%THEN 0
%ELSE %NAME ('NFBSC_DB_', DATABASE)
%FI),

BYTE (%IF %NULL (OPER_ONE) ! Oper1
%THEN 0
%ELSE OPER_ONE
%FI),

),

SSRCH_KEY (DATABASE, SRCH_KEY_ONE), ! Search key one ID
SSRCH_KEY (DATABASE, SRCH_KEY_TWO), ! Search key two ID
BYTE (%IF %NULL (OPER_TWO) ! Oper2
%THEN 0
%ELSE OPER_TWO
%FI),

),

BYTE (0), ! Spare
WORD (0), ! variable cell size

%IF NOT %NULL(%REMAINING)
%THEN \$FIELD_ID_LIST (DATABASE, %REMAINING)
.LONG (NFBSC_ENDOFLIST) ! End delimiter for field ID list.
%ELSE
LONG (NFBSC_ENDOFLIST) ! End delimiter for field ID list.
%FI

%,

| Generate a Search Key ID for an NFB. If the Search key is null,
| use a wildcard search key ID.

SSRCH_KEY (DATABASE, SRCH_ID) =
LONG (%IF %NULL (SRCH_ID)
%THEN NFBSC_WILDCARD
%ELSE \$FIELD_ID (DATABASE, SRCH_ID)
%FI),

| Generate a list of longwords containing the NETACP field IDs for
| the parameters. This iterative macro will generate as many

```
0477 0      | field IDs as are supplied.  
0478 0  
M 0479 0      $FIELD_ID LIST (DATABASE) [FIELD_ID] =  
M 0480 0          LONG T$FIELD_ID (DATABASE, FIELD_ID)  
0481 0          %,  
0482 0  
M 0483 0      $FIELD_ID (DATABASE, FIELD_ID) =  
M 0484 0          %IF %IDENTICAL (FIELD_ID, NFBSC_WILDCARD) OR  
M 0485 0              %IDENTICAL (FIELD_ID, NFBSC_COLLATE)  
M 0486 0          %THEN      FIELD_ID  
M 0487 0          %ELSE      FIELD_ID  
M 0488 0          %IF %NULL (FIELD_ID)  
M 0489 0              %THEN      0  
M 0490 0              %ELSE      %NAME ('NFBSC_',DATABASE,'_',FIELD_ID)  
M 0491 0          %FI  
M 0492 0          %FI  
M 0493 0          %;  
0494 0  
0495 0  
0496 0  
0497 0      | Macros to generate Network Control I/O request descriptors.  
0498 0  
0499 0      MACRO  
0500 0  
0501 0          | Declare the NFB buffer (use the number of input parameters to figure  
0502 0              out how big to make it) and set up a descriptor for it.  
0503 0  
M 0504 0      $NFBDSC (NAM) =  
M 0505 0          SWITCHES UNAMES;  
M 0506 0          OWN  
M 0507 0          _NFB : VECTOR [$NFB_ALLOCATION (%REMAINING)]  
M 0508 0                  INITIAL ($NFB (%REMAINING));  
M 0509 0          BIND  
M 0510 0          %NAME(NAM) = UPLIT (%ALLOCATION(_NFB), _NFB);  
M 0511 0          UNDECLARE _NFB;  
M 0512 0          SWITCHES NOUNAMES  
M 0513 0          %,  
M 0514 0  
M 0515 0          $NFB_ALLOCATION [] =  
M 0516 0          5*(MAX(0,%LENGTH-6))  
M 0517 0          %;  
M 0518 0
```

```
0519 0 | I/O Status Block definition
0520 0
0521 0
0522 0
0523 0 FIELD IOSB_FIELDS =
0524 0     SET
0525 0     IOSSW_STATUS = [0, 0, 16, 0], ! Status field
0526 0     IOSSW_COUNT = [2, 0, 16, 0], ! Byte count field
0527 0     IOSSL_INFO = [4, 0, 32, 0] ! Device dependent information
0528 0     TES;
0529 0
0530 0
M 0531 0 M | MACRO $IOSB =
0532 0     BBLOCK [8] FIELD (IOSB_FIELDS)
0533 0     %;
0534 0
0535 0 | Macro to create constant string descriptor
0536 0
M 0537 0 M MACRO $ASCID [] =
0538 0     (UPLIT (%CHARCOUNT(%STRING(%REMAINING)),
0539 0                 UPLIT BYTE (%STRING(%REMAINING))))
0540 0     %;
0541 0
0542 0
M 0543 0 M MACRO $ASCIC [] =
0544 0     UPLIT BYTE (%ASCIC %STRING (%REMAINING))
0545 0     %;
0546 0
0547 0
0548 0
0549 0 | Macro to declare frequently used externals in MOM
0550 0
M 0551 0 M MACRO $MOM EXTERNALS =
M 0552 0     EXTERNAL
M 0553 0     MOM$GL_LOGMASK:           BITVECTOR [32],
M 0554 0     MOM$GL_SVD INDEX,
M 0555 0     MOM$AB_SERVICE DATA:    BBLOCKVECTOR [0,SVD$K_ENTRY_LEN],
M 0556 0     MOM$GB_FUNCTION:        BYTE,
M 0557 0     MOM$GB_OPTION_BYTE:     BYTE,
M 0558 0     MOM$GB_ENTITY_CODE:     BYTE,
M 0559 0     MOM$AB_ENTITY_BUF:      BBLOCK [0],
M 0560 0     MOM$GQ_ENTITY_BUF_DSC:  VECTOR [0],
M 0561 0     MOM$GL_SERVICE_FLAGS:   BLOCK [1],
M 0562 0     MOM$AB_NPARSE_BLK:     $NPA_BLKDÉF,
M 0563 0     MOM$AB_NICE_RCV_BUF:   BBLOCK [0],
M 0564 0     MOM$AB_NICE_XMIT_BUF:  BBLOCK [0],
M 0565 0     MOM$GQ_NICE_RCV_BUF_DSC:VECTOR [0],
M 0566 0     MOM$GL_NICE_RCV_MSG_LEN,
M 0567 0     MOM$GQ_NICE_XMIT_BUF_DSC:VECTOR [0],
M 0568 0     MOM$AB_MSGB[OCK:       BBLOCK [0],
M 0569 0     MOM$AB_ACPIO_BUFFER:   BBLOCK [0],
M 0570 0     MOM$GQ_ACPIO_BUF_DSC:  VECTOR [0],
M 0571 0     MOM$AB_CIB:            BBLOCK [0],
M 0572 0     MOM$AB_LOOP_CIB:       BBLOCK [0],
M 0573 0     MOM$AB_TRIGGER_CIB:   BBLOCK [0],
M 0574 0     MOM$AB_MOP_XMIT_BUF:  BBLOCK [0],
M 0575 0     MOM$GQ_MOP_XMIT_BUF_DSC:VECTOR [0];
```

M 12
15-Sep-1984 23:05:08
15-Sep-1984 22:46:53

VAX-11 Bliss-32 V4.0-742
_S255\$DUA28:[MOM.SRC]MOMDDL.B32;1

Page 13
(3)

```
M 0576 0     MOMSAB_MOP_RCV_BUF:    BBLOCK [0].  
M 0577 0     MOMSGQ_MOP_RCV_BUF_DSC: VECTOR [0].  
M 0578 0     MOMSAB_MOP_MSG:      BBLOCK [0].  
M 0579 0     MOMSGQ_MOP_MSG_DSC:   VECTOR [0].  
M 0580 0     MOM$GW_EVT_CODE:    BYTE.  
M 0581 0     MOM$GB_EVT_POPR:    BYTE.  
M 0582 0     MOM$GB_EVT_PRSN:    BYTE.  
M 0583 0     MOM$GB_EVT_PSER:    BYTE.  
M 0584 0  
M 0585 0     EXTERNAL LITERAL  
M 0586 0     SVD$GK_PCNO_ADD,  
M 0587 0     SVD$GK_PCNO_SDV,  
M 0588 0     SVD$GK_PCNO_CPU,  
M 0589 0     SVD$GK_PCNO_STY,  
M 0590 0     SVD$GK_PCNO_DAD,  
M 0591 0     SVD$GK_PCNO_DCT,  
M 0592 0     SVD$GK_PCNO_IHO,  
M 0593 0     SVD$GK_PCNO_NNA,  
M 0594 0     SVD$GK_PCNO_SLI,  
M 0595 0     SVD$GK_PCNO_SPA,  
M 0596 0     SVD$GK_PCNO_HWA,  
M 0597 0     SVD$GK_PCNO_SNV,  
M 0598 0     SVD$GK_PCNO_LOA,  
M 0599 0     SVD$GK_PCNO_SLO,  
M 0600 0     SVD$GK_PCNO_TLO,  
M 0601 0     SVD$GK_PCNO_DFL,  
M 0602 0     SVD$GK_PCNO_SID,  
M 0603 0     SVD$GK_PCNO_DUM,  
M 0604 0     SVD$GK_PCNO_SDU,  
M 0605 0     SVD$GK_PCNO_SHNA,  
M 0606 0     SVD$GK_PCNO_SHHW,  
M 0607 0     SVD$GK_PCNO_SFTY,  
M 0608 0     SVD$GK_PCNO_PHA,  
M 0609 0     SVD$GK_PCNO_SDA,  
M 0610 0     SVD$GK_PCNO_LPC,  
M 0611 0     SVD$GK_PCNO_LPL,  
M 0612 0     SVD$GK_PCNO_LPD,  
M 0613 0     SVD$GK_PCNO_LPH,  
M 0614 0     SVD$GK_PCNO_LPA,  
M 0615 0     SVD$GK_PCNO_LPN,  
M 0616 0     SVD$GK_PCNO_SLNA,  
M 0617 0     SVD$GK_PCNO_SLNH,  
M 0618 0     SVD$GK_PCNO_LAN,  
M 0619 0     SVD$GK_PCNO_SLNN,  
M 0620 0     SVD$GK_PCNO_SLAH,  
M 0621 0     SVD$GK_PCLI_STI,  
M 0622 0     SVD$C_ENTRY_COUNT;  
M 0623 0  
0624 0     ;  
0625 0  
0626 0  
0627 0     | NPARSE argument block structure definitions  
0628 0  
0629 0     MACRO  
M 0630 0     SNPA_ARGDEF =  
M 0631 0     BUILTIN  
M 0632 0     AP;
```

N 12
15-Sep-1984 23:05:08
15-Sep-1984 22:46:53

VAX-11 Bliss-32 V4.0-742
_S255\$DUA28:[MOM.SRC]MOMDDL.B32;1

Page 14
(3)

M 0633 0
M 0634 0
0635 0
0636 0
0637 0
0638 0
0639 0
M 0640 0
M 0641 0
0642 0
0643 0

```
        BIND      NPARSE_BLOCK = AP : REF $NPA_BLKDEF;
        %;
        | NPARSE argument block definition macro
MACRO
$NPA_BLKDEF =
BBLOCK [NPASK_LENGTH0]
%;
```

0644 0 | *****
0645 0 | * Created 15-SEP-1984 23:05:03 by VAX-11 SDL V2.0 Source: 15-SEP-1984 22:46:56 \$255\$DUA28:[MOM.SRC]NPADEF.
0646 0 | *****
0647 0 | *** MODULE \$NPADEF ***
0648 0 |
0649 0 | literal NPASK_COUNTO = 8;
0650 0 | literal NPASK_LENGTHO = 36; Argument count value
0651 0 | literal NPASC_LENGTHO = 36; Size of argument block structure
0652 0 | literal NPASS_NPADEF = 36; Size of argument block structure
0653 0 |
0654 0 | macro NPASL_COUNT = 0,0,32,0 %; Argument count (NPASK_COUNTO)
0655 0 | macro NPASL_MSGCNT = 4,0,32,0 %; Count of bytes remaining in message
0656 0 | macro NPASL_MSGPTR = 8,0,32,0 %; Pointer to remaining message
0657 0 | macro NPASL_OPTIONS = 12,0,32,0 %; Options (not used)
0658 0 | macro NPASL_FLDCNT = 16,0,32,0 %; Count of bytes in matched field
0659 0 | macro NPASL_FLDPTR = 20,0,32,0 %; Pointer to matched field
0660 0 | macro NPASL_LONG = 24,0,32,0 %; Matched longword value
0661 0 | macro NPASW_WORD = 24,0,16,0 %; word value
0662 0 | macro NPASB_BYTE = 24,0,8,0 %; byte value
0663 0 | macro NPASL_NUMBER = 28,0,32,0 %; Matched signed value (not used)
0664 0 | macro NPASL_PARAM = 32,0,32,0 %; Action routine parameter value

```
0665 0
0666 0 | Version: 'V04-000'
0667 0
0668 0 |*****  

0669 0 |*
0670 0 |* COPYRIGHT (c) 1978, 1980, 1982, 1984 BY
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0687 0 |
0688 0 |
0689 0 |*****  

0690 0
0691 0 |++
0692 0 | NMATAIL.B32
0693 0
0694 0 | Source to undeclare the macros required for the precompile of
0695 0 | NMALIBRY.B32 so they do not appear in the library.
0696 0 |--
0697 0
0698 0
0699 0 | UNDECLARE %QUOTE $EQLST,
0700 0 | %QUOTE GET1ST_,
0701 0 | %QUOTE GET2ND_,
0702 0 | %QUOTE NUL2ND_
0703 0 | :
0704 0
0705 0
0706 0 | End of NMATAIL.B32
0707 0 |
```

COMMAND QUALIFIERS

BLISS/LIBRARY=LIB\$:MOMLIB/LIST=LIS\$:MOMLIB SRC\$:NMAHEAD+LIB\$:MOMDEF+SRC\$:MOMDDL+LIB\$:NPADEF+SRC\$:NMATAIL

: Run Time: 00:05.6
: Elapsed Time: 00:10.9
: Lines/CPU Min: 7643

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15-Sep-1984 23:05:08 VAX-11 Bliss-32 V4.0-742

Page 17

: Lexemes/CPU-Min: 28518
: Memory Used: 54 pages
: Library Precompilation Complete

0237 AH-BT13A-SE
VAX/VMS V4.0

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