


```

EEEEEEEEEE VV      VV      CCCCCCCC DDDDDDDD EEEEEEEEEE FFFFFFFFFF
EEEEEEEEEE VV      VV      CCCCCCCC DDDDDDDD DDDDDDDD FFFFFFFFFF
EE          VV      VV      CC          DD          DD      EE          FF
EE          VV      VV      CC          DD          DD      EE          FF
EE          VV      VV      CC          DD          DD      EE          FF
EEEEEEEEEE VV      VV      CC          DD          DD      EEEEEEEEE FFFFFFFF
EEEEEEEEEE VV      VV      CC          DD          DD      EEEEEEEEE FFFFFFFF
EE          VV      VV      CC          DD          DD      EE          FF
EE          VV      VV      CC          DD          DD      EE          FF
EE          VV      VV      CC          DD          DD      EE          FF
EE          VV      VV      CC          DD          DD      EE          FF
EEEEEEEEEE VV      VV      CCCCCCCC DDDDDDDD EEEEEEEEEE FF
EEEEEEEEEE VV      VV      CCCCCCCC DDDDDDDD DDDDDDDD FFFFFFFF

```

```

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

```

.....

....
....
....
....

0001 0
0002 0
0003 0
0004 0
0005 0
0006 0
0007 0
0008 0
0009 0
0010 0
0011 0
0012 0
0013 0
0014 0
0015 0
0016 0
0017 0
0018 0
0019 0
0020 0
0021 0
0022 0
0023 0
0024 0
0025 0
0026 0
0027 0
0028 0
0029 0
0030 0
0031 0
0032 0
0033 0
0034 0
0035 0
0036 0
0037 0
0038 0
0039 0
0040 0
0041 0
0042 0
0043 0
0044 0
0045 0
0046 0
0047 0
0048 0
0049 0
0050 0
0051 0
0052 0
0053 0
0054 0
0055 0
0056 0
0057 0

```
Version: 'V04-000'

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*****

++
NMAHEAD.B32
    Define $EQLST macro to make library from the NMLIBRY.B32 file
    This source is taken from the following source:
--
++
UTLDEF.B32 - UTILITY DEFINITION MACROS FOR BLISS PROCESSING
OF STARLET DEFINITION MACROS.
--

MACRO TO GENERATE EQLST CONSTRUCTS.
MACRO
    $EQLST(P,G,I,S)[A]=
        %NAME(P,GET1ST_A) =
            %IF NUL2ND_A
            %THEN (I) %COUNT*(S) ! ASSUMES I, S ALWAYS GENERATED BY CONVERSION PROGRAM
            %ELSE GET2ND_A
            %FI %,
    GET1ST_(A,B)=
        A %
    GET2ND_(A,B)=
        B % ! KNOWN NON-NULL
```

13-Sep-1984 23:03:06
15-Sep-1984 22:44:05

VAX-11 Bliss-32 V4.0-742
_S255SDUA28:[EVL.SRC]LIBHEAD.B32;1

: M 0058 0
: 0059 0
: 0060 0
: 0061 0
: 0062 0
: 0063 0

NUL2ND (A,B)=
%NULL(B) %;

End of NMAHEAD

.....

0064 0
0065 0
0066 0
0067 0
0068 0
0069 0
0070 0
0071 0
0072 0
0073 0
0074 0
0075 0
0076 0
0077 0
0078 0
0079 0
0080 0
0081 0
0082 0
0083 0
0084 0
0085 0
0086 0
0087 0
0088 0
0089 0
0090 0
0091 0
0092 0
0093 0
0094 0
0095 0
0096 0
0097 0
0098 0
0099 0
0100 0
0101 0
0102 0
0103 0
0104 0
0105 0
0106 0
0107 0
0108 0
0109 0
0110 0
0111 0
0112 0
0113 0
0114 0
0115 0
0116 0
0117 0
0118 0
0119 0
0120 0

.TITLE EVCDEF Network Event Logger Definitions
.IDENT 'V04-000'

```
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```

++
FACILITY: DECnet-VAX Network Management Components
for Event Logging

ABSTRACT:
Common Definitions for Network Management Event Logging
These definitions are used by other components of the
network.

ENVIRONMENT: VAX/VMS Operating System

AUTHOR: Darrell Duffy, Tim Halvorsen, 13-June-1980

MODIFIED BY:

V011	MKP0001	Kathy Perko	12-June-1984
		Add Ethernet address to Management Layer events.	
V010	TMH0010	Tim Halvorsen	26-Apr-1983
		Add "verification password required from Phase III node" and "dropped by adjacent node" Routing Layer reasons.	
V009	TMH0009	Tim Halvorsen	08-Apr-1983
		Make ECOs approved during the March 1983 DRG meetings.	
V008	TMH0008	Tim Halvorsen	22-Nov-1982
		Add "area" to the list of event sources.	

0121 0
0122 0
0123 0
0124 0
0125 0
0126 0
0127 0
0128 0
0129 0
0130 0
0131 0
0132 0
0133 0
0134 0
0135 0
0136 0
0137 0
0138 0
0139 0
0140 0
0141 0
0142 0
0143 0
0144 0
0145 0
0146 0
0147 0
0148 0

Add new DTE parameter for event class 0.

V007 TMH0007 Tim Halvorsen 26-Sep-1982
Add VMS-specific events for process creation/termination.
Add "module" to the list of event sources.
Add DTE up/down events, newly added to DNA NM.

V006 TMH0006 Tim Halvorsen 27-Jul-1982
Add Transport Phase IV events, and new "adjacent node"
transport layer event parameter.

V005 TMH0005 Tim Halvorsen 05-Apr-1982
Fix comments describing raw event buffer.
Fix typo in SCL reason code symbol.

V004 TMH0004 Tim Halvorsen 11-Nov-1981
Add Duplicate Phase II transport initialization event.

V003 TMH0003 Tim Halvorsen 05-Aug-1981
Add DAP CRC VMS-specific event

V002 TMH0002 Tim Halvorsen 07-Jul-1981
Add new 2.2 events.

V001 TMH0001 Tim Halvorsen 19-Dec-1980
Make line and node ID codes conform to the DNA entity
numbering scheme.

0149
0150
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0164
0165
0166
0167
0168
0169
0170
0171
0172
0173
0174
0175
0176
0177
0178
0179
0180
0181
0182
0183
0184
0185
0186
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0189
0190
0191
0192
0193
0194
0195
0196
0197
0198
0199
0200
0201

.....
: Symbols for event codes
:.....

!...\$EVCDEF

.....
: Symbols for event classes
:.....

LITERAL
\$EQU_LST (EVC\$_,GBL,0,1

- .(CLS_NMA, 0) ! Network management
- .(CLS_APL, 1) ! Application layer
- .(CLS_SCL, 2) ! Session control layer
- .(CLS_NSL, 3) ! Network services layer
- .(CLS_TPL, 4) ! Transport layer
- .(CLS_DLL, 5) ! Data link layer
- .(CLS_PLL, 6) ! Physical link layer
- .(CLS_VMS, 128) ! VMS Specific

);

LITERAL
\$EQU_LST (EVC\$_,GBL,0,1

- .(SRC_NON, 255) ! Source codes
- .(SRC_NOD, 0) ! No source id
- .(SRC_LIN, 1) ! Node source
- .(SRC_CIR, 3) ! Line source
- .(SRC_MOD, 4) ! Circuit source
- .(SRC_ARE, 5) ! Module source
- .(WLDCLS_KNO, 3) ! Value for known events
- .(WLDCLS_ALL, 2) ! Value of all events in class

);

! Mask values for sink flags

- MACRO EVCSV_SNKFLG_CON = 0,0,1,0% ! Console
- LITERAL EVCSM_SNKFLG_CON = 1^1 - 1^0;
- MACRO EVCSV_SNKFLG_FIL = 0,1,1,0% ! File
- LITERAL EVCSM_SNKFLG_FIL = 1^2 - 1^1;
- MACRO EVCSV_SNKFLG_MON = 0,2,1,0% ! Monitor
- LITERAL EVCSM_SNKFLG_MON = 1^3 - 1^2;

.....
C
O

Specific event codes, note that values contain the event class as well as the code.

LITERAL
\$EQU\$ (EVC\$C_,GBL,0,1

.(NMA_LOS, 0^6+0)	! event records lost
.(NMA_ANC, 0^6+1)	! automatic node counters
.(NMA_ALC, 0^6+2)	! automatic line counters
.(NMA_ALS, 0^6+3)	! automatic line service
.(NMA_LCZ, 0^6+4)	! circuit counters zeroed
.(NMA_NCZ, 0^6+5)	! node counters zeroed
.(NMA_PSL, 0^6+6)	! passive loopback
.(NMA_ABS, 0^6+7)	! aborted service request
.(NMA_CTR, 0^6+8)	! automatic counters
.(NMA_ZER, 0^6+9)	! counters zeroed
.(SCL_LNS, 2^6+0)	! local node state change
.(SCL_ACR, 2^6+1)	! access control reject
.(NSL_IMS, 3^6+0)	! invalid message
.(NSL_IFC, 3^6+1)	! invalid flow control
.(NSL_DBR, 3^6+2)	! data base reused
.(TPL_APL, 4^6+0)	! aged packet loss
.(TPL_UPL, 4^6+1)	! node unreachable packet loss
.(TPL_RPL, 4^6+2)	! node out-of-range packet loss
.(TPL_OPL, 4^6+3)	! oversized packet loss
.(TPL_PFM, 4^6+4)	! packet format error
.(TPL_PRU, 4^6+5)	! partial routing update loss
.(TPL_VFR, 4^6+6)	! verification reject
.(TPL_LDF, 4^6+7)	! circuit down, circuit fault
.(TPL_CDS, 4^6+8)	! circuit down
.(TPL_CDO, 4^6+9)	! circuit down, operator initiated
.(TPL_LUP, 4^6+10)	! circuit up
.(TPL_ILF, 4^6+11)	! initialization failure, circuit fault
.(TPL_ISF, 4^6+12)	! initialization failure, software fault
.(TPL_IOF, 4^6+13)	! initialization failure, operator fault
.(TPL_RCH, 4^6+14)	! node reachability change
.(TPL_AUP, 4^6+15)	! adjacency up
.(TPL_ARJ, 4^6+16)	! adjacency rejected
.(TPL_ACH, 4^6+17)	! area reachability change
.(TPL_LDS, 4^6+18)	! adjacency down
.(TPL_LDO, 4^6+19)	! adjacency down, operator initiated
.(DLL_LSC, 5^6+0)	! locally initiated state change
.(DLL_RSC, 5^6+1)	! remotely initiated state change
.(DLL_PRS, 5^6+2)	! protocol restart received in maintenance mode
.(DLL_SND, 5^6+3)	! send error threshold
.(DLL_RET, 5^6+4)	! receive error threshold
.(DLL_SLC, 5^6+5)	! select error threshold
.(DLL_BHF, 5^6+6)	! block header format error

0202 0
0203 0
0204 0
0205 0
0206 0
0207 0
0208 0
0209 0
0210 0
P 0211 0
P 0212 0
P 0213 0
P 0214 0
P 0215 0
P 0216 0
P 0217 0
P 0218 0
P 0219 0
P 0220 0
P 0221 0
P 0222 0
P 0223 0
P 0224 0
P 0225 0
P 0226 0
P 0227 0
P 0228 0
P 0229 0
P 0230 0
P 0231 0
P 0232 0
P 0233 0
P 0234 0
P 0235 0
P 0236 0
P 0237 0
P 0238 0
P 0239 0
P 0240 0
P 0241 0
P 0242 0
P 0243 0
P 0244 0
P 0245 0
P 0246 0
P 0247 0
P 0248 0
P 0249 0
P 0250 0
P 0251 0
P 0252 0
P 0253 0
P 0254 0
P 0255 0
P 0256 0
P 0257 0
P 0258 0

.. P 0259 0
P 0260 0
P 0261 0
P 0262 0
P 0263 0
P 0264 0
P 0265 0
P 0266 0
P 0267 0
P 0268 0
P 0269 0
P 0270 0
P 0271 0
P 0272 0
P 0273 0
P 0274 0
P 0275 0
P 0276 0
P 0277 0
P 0278 0
P 0279 0
P 0280 0
P 0281 0
P 0282 0
P 0283 0
P 0284 0
P 0285 0
P 0286 0
P 0287 0
P 0288 0
P 0289 0
P 0290 0
P 0291 0
P 0292 0
P 0293 0
P 0294 0
P 0295 0
P 0296 0
.. 0297 0

.(DLL_SAD, 5^6+7)
.(DLL_STT, 5^6+8)
.(DLL_LBS, 5^6+9)
.(DLL_RST, 5^6+10)
.(DLL_STC, 5^6+11)
.(DLL_RME, 5^6+12)
.(DLL_IFL, 5^6+13)
.(DLL_SFL, 5^6+14)
.(DLL_RFL, 5^6+15)
.(DLL_CDC, 5^6+16)
.(DLL_DTU, 5^6+17)
.(DLL_DTD, 5^6+18)

.(PLL_DSR, 6^6+0)
.(PLL_RIN, 6^6+1)
.(PLL_CAR, 6^6+2)
.(PLL_MEM, 6^6+3)
.(PLL_COM, 6^6+4)
.(PLL_PFM, 6^6+5)

.(VMS_DBC, 128^6+0)

.(VMS_DPC, 128^6+1)

.(VMS_DP2, 128^6+2)

.(VMS_PCR, 128^6+3)

.(VMS_PTR, 128^6+4)

);

! selection address error
! streaming tributary
! local buffer too small
! restart (x.25 protocol)
! state change (x.25 protocol)
! retransmit maximum exceeded (x.25)
! initialization failure
! send failure
! receive failure
! collision detect check failed
! DTE up (x.25 protocol)
! DTE down (x.25 protocol)

! data set ready transition
! ring indicator transition
! unexpected carrier transition
! memory access error
! communications interface error
! performance error

! logging data base change
(no parameters)

! DAP CRC error
remote node

! Duplicate Phase II initialization
(no parameters)

! process creation
name
PID
status (creation)

! process termination
PID
status (termination)

Event Parameter Codes

LITERAL
\$EQU_LST (EVCSC_,GBL,0,1

- .(NMA_PSER, 0)
- .(NMA_PSER_LOA, 0)
- .(NMA_PSER_DUM, 1)
- .(NMA_PSTS, 1)
- .(NMA_POPR, 2)
- .(NMA_POPR_INI, 0)
- .(NMA_POPR_TER, 1)
- .(NMA_PRSN, 3)
- .(NMA_PRSN_TMO, 0)
- .(NMA_PRSN_ERR, 1)
- .(NMA_PRSN_LSC, 2)
- .(NMA_PRSN_UNR, 3)
- .(NMA_PRSN_LOE, 4)
- .(NMA_PNOD, 5)
- .(NMA_PDTE, 6)
- .(NMA_PFIL, 7)
- .(NMA_PSTY, 8)
- .(NMA_PSNL, 9)

- .(SCL_PRSN, 0)
- .(SCL_PRSN_OPC, 0)
- .(SCL_PRSN_NOR, 1)
- .(SCL_POLD, 1)

- .(SCL_PNEW, 2)

- .(SCL_PNOD, 3)
- .(SCL_PSPC, 4)
- .(SCL_PDPC, 5)
- .(SCL_PUSR, 6)
- .(SCL_PPSW, 7)
- .(SCL_PACC, 8)

- .(NSL_PMSG, 0)
- .(NSL_PFLO, 1)
- .(NSL_PNOD, 2)

- .(TPL_PPKH, 0)
- .(TPL_PPKB, 1)
- .(TPL_PHIA, 2)
- .(TPL_PNOD, 3)
- .(TPL_PEXP, 4)
- .(TPL_PRSN, 5)
- .(TPL_PRSN_SYNC, 0)
- .(TPL_PRSN_DAER, 1)
- .(TPL_PRSN_UXPK, 2)
- .(TPL_PRSN_RUCS, 3)

- ! service
- ! load
- ! dump

- ! status
- ! operation
- ! initiated
- ! terminated

- ! reason
- ! receive timeout
- ! receive error
- ! line state change by higher level
- ! unrecognized request
- ! line open error

- ! Node ID
- ! DTE address (AI-16)
- ! Filespec
- ! Software type
- ! Source NI address

- ! reason
- ! operator command
- ! normal operation

- ! old state
- ! use node states for code
- ! new state
- ! use node states for code
- ! source node
- ! source process
- ! destination process
- ! user identification
- ! password
- ! account

- ! message
- ! current flow control
- ! source node

- ! packet header
- ! packet beginning
- ! highest address
- ! node
- ! expected node
- ! reason
- ! line synchronization lost
- ! data errors
- ! unexpected packet type
- ! routing update checksum error

0298
0299
0300
0301
0302
0303
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0305
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0314
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0321
0322
0323
0324
0325
0326
0327
0328
0329
0330
0331
0332
0333
0334
0335
0336
0337
0338
0339
0340
0341
0342
0343
0344
0345
0346
0347
0348
0349
0350
0351
0352
0353
0354

P 0355 0
P 0356 0
P 0357 0
P 0358 0
P 0359 0
P 0360 0
P 0361 0
P 0362 0
P 0363 0
P 0364 0
P 0365 0
P 0366 0
P 0367 0
P 0368 0
P 0369 0
P 0370 0
P 0371 0
P 0372 0
P 0373 0
P 0374 0
P 0375 0
P 0376 0
P 0377 0
P 0378 0
P 0379 0
P 0380 0
P 0381 0
P 0382 0
P 0383 0
P 0384 0
P 0385 0
P 0386 0
P 0387 0
P 0388 0
P 0389 0
P 0390 0
P 0391 0
P 0392 0
P 0393 0
P 0394 0
P 0395 0
P 0396 0
P 0397 0
P 0398 0
P 0399 0
P 0400 0
P 0401 0
P 0402 0
P 0403 0
P 0404 0
P 0405 0
P 0406 0
P 0407 0
P 0408 0
P 0409 0
P 0410 0
P 0411 0

.(TPL_PRSN_ADJC, 4)
.(TPL_PRSN_VTMO, 5)
.(TPL_PRSN_VRSK, 6)
.(TPL_PRSN_ADJR, 7)
.(TPL_PRSN_ADJB, 8)
.(TPL_PRSN_SEED, 9)
.(TPL_PRSN_LTMO, 10)
.(TPL_PRSN_LINV, 11)
.(TPL_PRSN_CFAI, 12)
.(TPL_PRSN_VREQ, 13)
.(TPL_PRSN_DROP, 14)
.(TPL_PVRS, 6)
.(TPL_PSTS, 7)
.(TPL_PSTS_RCH, 0)
.(TPL_PSTS_URC, 1)
(TPL_PADJ, 8)

.(DLL_POLD, 0)
.(DLL_POLD_HALT, 0)
.(DLL_POLD_ISTR, 1)
.(DLL_POLD_ASTR, 2)
.(DLL_POLD_RUNG, 3)
.(DLL_POLD_MAIN, 4)
.(DLL_PNEW, 1)
.(DLL_PHDR, 2)
.(DLL_PSLT, 3)
.(DLL_PPVT, 4)
.(DLL_PTST, 5)
.(DLL_PTST_STRM, 0)
.(DLL_PTST_STMO, 1)
.(DLL_PTST_SDES, 2)
.(DLL_PTST_ESTR, 3)
.(DLL_PRTB, 6)
.(DLL_PBKL, 7)
.(DLL_PBFL, 8)
.(DLL_PDTE, 9)
.(DLL_PRSN, 10)
.(DLL_PRSN_OPER, 0)
.(DLL_PRSN_NORM, 1)
.(DLL_POST, 11)
.(DLL_POST_ON, 0)
.(DLL_POST_OFF, 1)
.(DLL_POST_SHUT, 2)
.(DLL_PNST, 12)
.(DLL_PTYP, 13)
.(DLL_PCAU, 14)
.(DLL_PDIA, 15)
.(DLL_PFRS, 16)
.(DLL_PFRS_EXCO, 0)
.(DLL_PFRS_CACK, 1)

.(DLL_PFRS_SHCI, 3)
.(DLL_PFRS_OPCI, 4)
.(DLL_PFRS_FLNG, 5)
.(DLL_PFRS_RFTD, 6)
.(DLL_PFRS_BCHK, 7)
.(DLL_PFRS_FRAM, 8)

adjacent node address change
verification receive timeout
version skew
adjacent node address out of range
adjacent node block size too small
invalid verification seed value
adjacent node listener receive timeout
adjacent node listener received invalid data
call failed
verification password required from Phase III node
dropped by adjacent node
: received version
: status
: reachable
: unreachable
: adjacent node
: old state
: halted
: istr
: astr
: running
: maintenance
: new state
: header
: selected tributary
: previous tributary
: tributary status
: streaming
: continued send after timeout
: continued send after deselect
: ended streaming
: received tributary
: block length
: buffer length
: DTE (ascii)
: Reason
: operator command
: normal operation
: Old X.25 state (only event 5.11)
: on
: off
: shut
: New X.25 state (only event 5.11)
: Parameter type (DNA numbering scheme)
: cause (byte)
: Diagnostic (byte)
: failure reason
: excessive collisions
: carrier check failed
: (2 is obsolete)
: short circuit
: open circuit
: frame too long
: remote failure to defer
: block check error
: framing error

..: P 0412 0
P 0413 0
P 0414 0
P 0415 0
P 0416 0
P 0417 0
P 0418 0
P 0419 0
P 0420 0
P 0421 0
P 0422 0
P 0423 0
P 0424 0
P 0425 0
P 0426 0
P 0427 0
P 0428 0
P 0429 0
P 0430 0
P 0431 0
P 0432 0
P 0433 0

.(DLL_PFRS_OVER, 9)
.(DLL_PFRS_SBU, 10)
.(DLL_PFRS_UBU, 11)
.(DLL_PFRS_UNPF, 12)
.(DLL_PDIS, 17)
.(DLL_PEHD, 18)
.(DLL_PHWS, 19)

.(PLL_PDVR, 0)
.(PLL_PNEW, 1)
.(PLL_PNEW_OFF, 0)
.(PLL_PNEW_ON, 1)

.(VMS_PNOD, 0)
.(VMS_PPRC, 1)
.(VMS_PPID, 2)
.(VMS_PSTS, 3)
);

! data overrun
! system buffer unavailable
! user buffer unavailable
! unrecognized frame destination
! distance
! ethernet header
! hardware status (any noncoded type)

! device register
! new state
! off
! on

! Remote node (CM-1/2, DU-2, AI-6)
! (process) name (AI-16)
! (process) PID (H-4)
! (process) status (H-4)

! End of EVC structure

0434 0
0435 0
0436 0
0437 0
0438 0
0439 0
0440 0
0441 0
0442 0
0443 0
0444 0
0445 0
0446 0
0447 0
0448 0
0449 0
0450 0
0451 0
0452 0
0453 0
0454 0
0455 0
0456 0
0457 0
0458 0
0459 0
0460 0
0461 0
0462 0
0463 0
0464 0

```
!
! Raw event structure
!
! ...$RAWDEF
MACRO      RAWSW_BYTES      = 0,0,16,0%;      ! Number of bytes including this count
MACRO      RAWST_SYSTM      = 2,0,0,0%;      ! 64 bit system time of event
LITERAL    RAWSS_SYSTM      = 8;
MACRO      RAWSW_EVTCODE    = 10,0,16,0%;     ! DNA event code
MACRO      RAWSV_EVTTYP     = 10,0,6,0%;     ! Type number of event
LITERAL    RAWSM_EVTTYP     = 1^6 - 1^0;
MACRO      RAWSV_EVTCLS     = 10,6,9,0%;     ! Class number of event
LITERAL    RAWSM_EVTCLS     = 1^15 - 1^6;

MACRO      RAWSB_SRCTYP     = 12,0,8,0%;     ! DNA source type code
MACRO      RAWST_SRCID      = 13,0,0,0%;     ! Source code
LITERAL    RAWSS_SRCID      = 17;
MACRO      RAWST_DATA       = 30,0,8,0%;     ! Event data starts here in DNA format
! (may be mixed counters and/or parameters)
LITERAL    RAWSC_SIZE       = 31;
LITERAL    RAWSK_SIZE       = 31;

!
! End of EVCDEF.MDL
!
```

0465 0
0466 0
0467 0
0468 0
0469 0
0470 0
0471 0
0472 0
0473 0
0474 0
0475 0
0476 0
0477 0
0478 0
0479 0
0480 0
0481 0
0482 0
0483 0
0484 0
0485 0
0486 0
0487 0
0488 0
0489 0
0490 0
0491 0
0492 0
0493 0
0494 0
0495 0
0496 0
0497 0
0498 0
0499 0
0500 0
0501 0
0502 0
0503 0
0504 0
0505 0
0506 0
0507 0

```
Version: 'V04-000'  
*****  
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*  
*****  
++  
NMATAIL.B32  
  
Source to undeclare the macros required for the precompile of  
NMALIBRY.B32 so they do not appear in the library.  
--  
  
UNDECLARE %QUOTE %EQLST,  
%QUOTE GET1ST_ ,  
%QUOTE GET2ND_ ,  
%QUOTE NUL2ND_ ,  
:  
:  
:  
End of NMATAIL.B32
```

COMMAND QUALIFIERS

BLISS/LIBRARY=LIB\$:EVCDEF/LIST=LISS\$:EVCDEF SRC\$:LIBHEAD+LIB\$:EVCDEF+SRC\$:LIBTAIL

: Run Time: 00:11.8
: Elapsed Time: 00:18.3
: Lines/CPU Min: 2584

: Lexemes/CPU-Min: 73962
: Memory Used: 66 pages
: Library Precompilation Complete

