

```

RRRRRRRRRRRRRRR      MMM      MMM      SSSSSSSSSSSSS
RRRRRRRRRRRRRRR      MMM      MMM      SSSSSSSSSSSSS
RRRRRRRRRRRRRRR      MMM      MMM      SSSSSSSSSSSSS
RRR      RRR      MMMMMM      MMMMMM      SSS
RRR      RRR      MMMMMM      MMMMMM      SSS
RRR      RRR      MMMMMM      MMMMMM      SSS
RRR      RRR      MMM      MMM      MMM      SSS
RRR      RRR      MMM      MMM      MMM      SSS
RRR      RRR      MMM      MMM      MMM      SSS
RRRRRRRRRRRRRRR      MMM      MMM      SSSSSSSSSSS
RRRRRRRRRRRRRRR      MMM      MMM      SSSSSSSSSSS
RRRRRRRRRRRRRRR      MMM      MMM      SSSSSSSSSSS
RRR      RRR      MMM      MMM      MMM      SSS
RRR      RRR      MMM      MMM      MMM      SSS
RRR      RRR      MMM      MMM      MMM      SSS
RRR      RRR      MMM      MMM      MMM      SSS
RRR      RRR      MMM      MMM      MMM      SSS
RRR      RRR      MMM      MMM      MMM      SSS
RRR      RRR      MMM      MMM      SSSSSSSSSSSSS
RRR      RRR      MMM      MMM      SSSSSSSSSSSSS
RRR      RRR      MMM      MMM      SSSSSSSSSSSSS

```

53

Syn

NTS

NTS
NTS

NTS

NTS

NTS

NTS

NTS
NTS

NTS

NTS

NTS
NTS

NTS

NTS

NTS
NTSNTS
NTS

NTS

NTS
NTSNTS
NTS

NTS

NTS

NTS
NTS

NTS

1174

NTS

NTS

NTS

NTS
NTS

NTS

NTS

NTS

NTS

NTS
NTSNT
NT

NTS

NY
DL

P10

1

```

NN      NN      TTTTTTTTTT      000000      MM      MM      IIIIII      SSSSSSSS      CCCCCCCC
NN      NN      TTTTTTTTTT      000000      MM      MM      IIIIII      SSSSSSSS      CCCCCCCC
NN      NN      TT          00      00      MMMM      MMMM      II          SS          CC
NN      NN      TT          00      00      MMMM      MMMM      II          SS          CC
NNNN      NN      TT          00      0000      MM      MM      II          SS          CC
NNNN      NN      TT          00      0000      MM      MM      II          SS          CC
NN      NN      NN      TT          00      00      MM      MM      II          SS          CC
NN      NN      NN      TT          00      00      MM      MM      II          SS          CC
NN      NN      NN      TT          0000      00      MM      MM      II          SS          CC
NN      NN      NN      TT          0000      00      MM      MM      II          SS          CC
NN      NN      NN      TT          00      00      MM      MM      II          SS          CC
NN      NN      NN      TT          00      00      MM      MM      II          SS          CC
NN      NN      NN      TT          000000      MM      MM      IIIIII      SSSSSSSS      CCCCCCCC
NN      NN      NN      TT          000000      MM      MM      IIIIII      SSSSSSSS      CCCCCCCC

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
LLLLLLLLLLLL      IIIIII      SSSSSSSS
LLLLLLLLLLLL      IIIIII      SSSSSSSS
```


(2)	52	DECLARATIONS
(3)	84	NT\$REWIND - PERFORM NETWORK REWIND FUNCTION
(4)	189	NT\$TRUNCATE - PERFORM NETWORK TRUNCATE FUNCTION
(5)	250	NT\$FLUSH - PERFORM NETWORK FLUSH FUNCTION
(6)	334	NT\$FREE - PERFORM NETWORK FREE FUNCTION
(7)	395	NT\$RELEASE - PERFORM NETWORK RELEASE FUNCTION
(8)	462	NT\$ENTER - UNSUPPORTED NETWORK OPERATION
(8)	475	NT\$REMOVE - UNSUPPORTED NETWORK OPERATION
(8)	488	NT\$NXTVOL - UNSUPPORTED NETWORK OPERATION


```
0000 1          $BEGIN NTOMISC,000,NF$NETWORK,<NETWORK MISC FUNCTIONS>
0000 2
0000 3
0000 4
0000 5 :*****
0000 6 :*
0000 7 :*  COPYRIGHT (c) 1978, 1980, 1982, 1984 BY
0000 8 :*  DIGITAL EQUIPMENT CORPORATION, MAYNARD, MASSACHUSETTS.
0000 9 :*  ALL RIGHTS RESERVED.
0000 10 :*
0000 11 :*  THIS SOFTWARE IS FURNISHED UNDER A LICENSE AND MAY BE USED AND COPIED
0000 12 :*  ONLY IN ACCORDANCE WITH THE TERMS OF SUCH LICENSE AND WITH THE
0000 13 :*  INCLUSION OF THE ABOVE COPYRIGHT NOTICE. THIS SOFTWARE OR ANY OTHER
0000 14 :*  COPIES THEREOF MAY NOT BE PROVIDED OR OTHERWISE MADE AVAILABLE TO ANY
0000 15 :*  OTHER PERSON. NO TITLE TO AND OWNERSHIP OF THE SOFTWARE IS HEREBY
0000 16 :*  TRANSFERRED.
0000 17 :*
0000 18 :*  THE INFORMATION IN THIS SOFTWARE IS SUBJECT TO CHANGE WITHOUT NOTICE
0000 19 :*  AND SHOULD NOT BE CONSTRUED AS A COMMITMENT BY DIGITAL EQUIPMENT
0000 20 :*  CORPORATION.
0000 21 :*
0000 22 :*  DIGITAL ASSUMES NO RESPONSIBILITY FOR THE USE OR RELIABILITY OF ITS
0000 23 :*  SOFTWARE ON EQUIPMENT WHICH IS NOT SUPPLIED BY DIGITAL.
0000 24 :*
0000 25 :*
0000 26 :*****
0000 27 :
0000 28
0000 29 :++
0000 30 : Facility: RMS
0000 31 :
0000 32 : Abstract:
0000 33 :
0000 34 :   This module communicates with the file access listener at the remote
0000 35 :   node to perform the rewind, truncate, flush, free, and release
0000 36 :   operations. It also contains entry points for the enter, remove, and
0000 37 :   next-volume operations which are not supported over the network.
0000 38 :
0000 39 : Environment: VAX/VMS, executive mode
0000 40 :
0000 41 : Author: James A. Krycka,      Creation Date: 12-JUL-1979
0000 42 :
0000 43 : Modified By:
0000 44 :
0000 45 :   V03-001 JAK0141      J A Krycka      10-APR-1984
0000 46 :   Add NT$ENTER, NT$REMOVE, and NT$NXTVOL dummy routines which
0000 47 :   will return an error for the unsupported enter, remove, and
0000 48 :   next-volume operations.
0000 49 :
0000 50 :--
```



```

0000 52      .SBTTL  DECLARATIONS
0000 53
0000 54      :
0000 55      : Include Files:
0000 56      :
0000 57
0000 58      $DAPPLGDEF      : Define DAP prologue symbols
0000 59      $DAPHDRDEF     : Define DAP message header
0000 60      $DAPATTDEF     : Define DAP Attributes message
0000 61      $DAPCTLDEF     : Define DAP Control message
0000 62      $IFBDEF        : Define IFAB symbols
0000 63      $NWADEF        : Define Network Work Area symbols
0000 64      $RABDEF        : Define Record Access Block symbols
0000 65      $RMSDEF        : Define RMS completion codes
0000 66
0000 67      :
0000 68      : Macros:
0000 69      :
0000 70      : None
0000 71      :
0000 72      : Equated Symbols:
0000 73      :
0000 74
0000 75      ASSUME  DAP$Q_DCODE_FLG EQ 0
0000 76      ASSUME  NWA$Q_FLG EQ 0
0000 77
0000 78      :
0000 79      : Own Storage:
0000 80      :
0000 81      : None
0000 82      :

```



```
0000 84 .SBTTL NT$REWIND - PERFORM NETWORK REWIND FUNCTION
0000 85
0000 86 :++
0000 87 : NT$REWIND - engages in a DAP dialogue with the remote FAL to rewind the file.
0000 88 :
0000 89 : Calling Sequence:
0000 90 :
0000 91 : BSBW NT$REWIND
0000 92 :
0000 93 : Input Parameters:
0000 94 :
0000 95 : R8 RAB address
0000 96 : R9 IRAB address
0000 97 : R10 IFAB address
0000 98 : R11 Impure Area address
0000 99 :
0000 100 : Implicit Inputs:
0000 101 :
0000 102 : DAP$V_GEQ_V56
0000 103 : IFB$N_NWA_PTR
0000 104 : IFB$V_SQO
0000 105 : NWA$B_ORG
0000 106 : RAB$B_KRF
0000 107 :
0000 108 : Output Parameters:
0000 109 :
0000 110 : R0 Status code (RMS)
0000 111 : R1-R5 Destroyed
0000 112 : R7 Destroyed
0000 113 : AP Destroyed
0000 114 :
0000 115 : Implicit Outputs:
0000 116 :
0000 117 : None
0000 118 :
0000 119 : Completion Codes:
0000 120 :
0000 121 : Standard RMS completion codes
0000 122 :
0000 123 : Side Effects:
0000 124 :
0000 125 : None
0000 126 :
0000 127 : --
0000 128 :
0000 129 NT$REWIND:: : Entry point
0000 130 $STPT NTREWIND :
0000 131 MOVL IFB$N_NWA_PTR(R10),R7 : Get address of NWA (and DAP)
0000 132 BBC #IFB$V_SQO,(R10),- : Proceed normally if
0000 133 REW_SEND_CTL : record transfer mode selected
0000 134 : else try to simulate the operation
0000 135 :
0000 136 :+
0000 137 : The DAP specification does not permit the REWIND function to be requested
0000 138 : when file transfer mode is enabled. However, $REWIND can be simulated with
0000 139 : a $DISCONNECT followed by a $CONNECT for the record stream. Consequently, the
0000 140 : DAP REWIND function will be simulated by this technique if file transfer mode
```

57 3C AA DO
6A 2D E1
OF

```
000E 141 : has been selected.
000E 142 :
000E 143 : Note: An RMSS_FTM error will be returned to the user if the remote FAL is
000E 144 : implemented to DAP before V5.6 (see NT$DISCONNECT).
000E 145 :-
000E 146 :
000E 147 REW_SIMULATE:
67 24 E1 000E 148 BBC #DAP$V_GEQ_V56,(R7),- : Reject rewind request unless
33 0011 149 ERRFTM : partner uses DAP since V5.6
FFEB' 30 0012 150 BSBW NT$DISCONNECT : Disconnect the record stream
2C 50 E9 0015 151 BLBC RO,EXIT : Branch on failure
FFE5' 30 0018 152 BSBW NT$CONNECT : Re-connect the record stream
27 11 001B 153 BRB EXIT : Report status on simulated rewind
001D 154 :
001D 155 :+
001D 156 : Build and send DAP Control message to partner.
001D 157 :-
001D 158 :
001D 159 REW_SEND_CTL:
50 04 D0 001D 160 $SETBIT #NWASV_LAST_MSG,(R7) : Declare this last message to block
FFD9' 30 0021 161 MOVL #DAP$K_CTL_MSG,R0 : Get message type value
85 06 90 0024 162 BSBW NT$BUILD_HEAD : Construct message header
20 00C6 C7 91 0027 163 MOVW #DAP$K_REWIND,(R5)+ : Store CTLFUNC field
07 12 002A 164 CMPB NWASB_ORG(R7),#NWASK_IDX : Branch if not IDX organization
85 04 90 0031 165 BNEQ 10$ :
35 A8 90 0034 166 MOVW #DAP$M_KRF,(R5)+ : Store CTLMENU field
FFC5' 30 0038 167 MOVW RAB$B_KRF(R8),(R5)+ : Store KRF field
003B 168 10$: BSBW NT$BUILD_TAIL : Finish building message
003B 169 :
003B 170 :+
003B 171 : Common code for $REWIND, $TRUNCATE, $FLUSH, $FREE, and $RELEASE.
003B 172 :-
003B 173 :
003B 174 TRANSMIT_CTL:
FFC2' 30 003B 175 BSBW NT$TRANSMIT : Send Control message to FAL
03 50 E9 003E 176 BLBC RO,EXIT : Branch on failure
0041 177 :
0041 178 :+
0041 179 : Receive DAP Status message from partner.
0041 180 :-
0041 181 :
0041 182 RECV_STS:
FFBC' 30 0041 183 : ***** $SETBIT #DAP$K_STS_MSG,DAP$L_MSG_MASK(R7); Implied for receive
05 0041 184 BSBW NT$RECEIVE : Obtain status of remote operation
05 0044 185 EXIT: RSB : Exit with RMS code in R0
0045 186 ERRFTM: RMSERR FTM : Declare file transfer mode error
05 004A 187 RSB : Exit with RMS code in R0
```



```
004B 189 .SBTTL NT$TRUNCATE - PERFORM NETWORK TRUNCATE FUNCTION
004B 190
004B 191 :++
004B 192 : NT$TRUNCATE - engages in a DAP dialogue with the remote FAL to truncate
004B 193 : a sequential file.
004B 194 :
004B 195 : Calling Sequence:
004B 196 :
004B 197 : BSBW NT$TRUNCATE
004B 198 :
004B 199 : Input Parameters:
004B 200 :
004B 201 : R8 RAB address
004B 202 : R9 IRAB address
004B 203 : R10 IFAB address
004B 204 : R11 Impure Area address
004B 205 :
004B 206 : Implicit Inputs:
004B 207 :
004B 208 : IFB$L_NWA_PTR
004B 209 : IFB$V_SQO
004B 210 :
004B 211 : Output Parameters:
004B 212 :
004B 213 : R0 Status code (RMS)
004B 214 : R1-R5 Destroyed
004B 215 : R7 Destroyed
004B 216 : AP Destroyed
004B 217 :
004B 218 : Implicit Outputs:
004B 219 :
004B 220 : None
004B 221 :
004B 222 : Completion Codes:
004B 223 :
004B 224 : Standard RMS completion codes
004B 225 :
004B 226 : Side Effects:
004B 227 :
004B 228 : None
004B 229 :
004B 230 : --
004B 231 :
004B 232 NT$TRUNCATE:: : Entry point
004B 233 $STPT NTTRUNC :
004B 234 BBS #IFB$V_SQO,(R10),ERRFTM : Network truncate function not allowed
004B 235 : if file transfer mode selected
004B 236 MOVL IFB$L_NWA_PTR(R10),R7 : Get address of NWA (and DAP)
004B 237 :
004B 238 :+
004B 239 : Build and send DAP Control message to partner.
004B 240 :-
004B 241 :
004B 242 TRUNC_SEND_CTL:
004B 243 $SETBIT #NWA$V_LAST_MSG,(R7) : Declare this last message to block
004B 244 MOVL #DAP$K_CTL_MSG,R0 : Get message type value
004B 245 BSBW NT$BUICD_HEAD : Construct message header

FO 6A 2D E0 0051 234
57 3C AA D0 0055 235
0059 236
0059 237
0059 238
0059 239
0059 240
0059 241
0059 242
0059 243
50 04 D0 005D 244
FF9D 30 0060 245
```

NTOMISC
V04-000

NETWORK MISC FUNCTIONS

H 15

NTSTRUNCATE - PERFORM NETWORK TRUNCATE

16-SEP-1984 00:02:25

VAX/VMS Macro V04-00

Page 6
(4)

5-SEP-1984 16:20:54

[RMS.SRC]NTOMISC.MAR;1

85 07 90 0063 246
FF97' 30 0066 247
D0 11 0069 248

MOVB
BSBW
BRB

#DAPSK TRUNCATE,(R5)+
NT\$BUILT_TAIL
TRANSMIT_CTL

; Store CTLFUNC field
; Finish building message
; Join common code


```
006B 250 .SBTTL NT$FLUSH - PERFORM NETWORK FLUSH FUNCTION
006B 251
006B 252 :++
006B 253 : NT$FLUSH - guarantees that all internally buffered records are sent to the
006B 254 : remote node.
006B 255 :
006B 256 : If in record transfer mode, NT$FLUSH engages in a DAP dialogue with the
006B 257 : remote FAL to write out modified I/O buffers and file attributes
006B 258 : associated with the file by invoking the DAP FLUSH function.
006B 259 :
006B 260 : If in file transfer mode, NT$FLUSH transmits previously blocked DAP
006B 261 : messages waiting to be sent to the remote FAL. The DAP FLUSH function,
006B 262 : however, is not invoked at the remote node.
006B 263 :
006B 264 : Calling Sequence:
006B 265 :
006B 266 : BSBW NT$FLUSH
006B 267 :
006B 268 : Input Parameters:
006B 269 :
006B 270 : R8 RAB address
006B 271 : R9 IRAB address
006B 272 : R10 IFAB address
006B 273 : R11 Impure Area address
006B 274 :
006B 275 : Implicit Inputs:
006B 276 :
006B 277 : IFB$L_NWA_PTR
006B 278 : IFB$V_SQO
006B 279 :
006B 280 : Output Parameters:
006B 281 :
006B 282 : R0 Status code (RMS)
006B 283 : R1-R5 Destroyed
006B 284 : R7 Destroyed
006B 285 : AP Destroyed
006B 286 :
006B 287 : Implicit Outputs:
006B 288 :
006B 289 : None
006B 290 :
006B 291 : Completion Codes:
006B 292 :
006B 293 : Standard RMS completion codes
006B 294 :
006B 295 : Side Effects:
006B 296 :
006B 297 : None
006B 298 :
006B 299 :--
006B 300
006B 301 NT$FLUSH::
006B 302 $TSTPT NTFLUSH : Entry point
006B 303 MOVL IFB$L_NWA_PTR(R10),R7 : Get address of NWA (and DAP)
006B 304 BBC #IFB$V_SQO,(R10),- : Proceed normally if
006B 305 FLUSH_SEND_CTL : record transfer mode selected
006B 306 : else simulate the operation
```

57 3C AA D0
6A 2D E1
08


```
0079 307
0079 308 ;+
0079 309 ; The DAP specification does not permit the FLUSH function to be requested
0079 310 ; when file transfer mode is enabled. However, DAP Data messages being blocked
0079 311 ; at this node for subsequent transmission to the remote node can be flushed
0079 312 ; (i.e., sent immediately) while in file transfer mode. Successful completion
0079 313 ; of this simulated (or partial) flush operation will guarantee that all user
0079 314 ; data has been sent to the remote FAL.
0079 315 ;-
0079 316
0079 317 FLUSH_SIMULATE:
0079 318 $SETBIT #NWA$V_FLUSH_BUF,(R7) ; Send previously blocked DAP messages
FF80' 30 007D 319 BSBW NT$TRANSMIT ; only--no Control message!
05 0080 320 RSB ; Exit with RMS code in R0
0081 321
0081 322 ;+
0081 323 ; Build and send DAP Control message to partner.
0081 324 ;-
0081 325
0081 326 FLUSH_SEND_CTL:
0081 327 $SETBIT #NWA$V_LAST_MSG,(R7) ; Declare this last message to block
50 04 D0 0085 328 MOVL #DAP$K_CTL_MSG,R0 ; Get message type value
FF75' 30 0088 329 BSBW NT$BUI[D_HEAD ; Construct message header
85 0C 90 008B 330 MOVB #DAP$K_FLUSH,(R5)+ ; Store CTLFUNC field
FF6F' 30 008E 331 BSBW NT$BUI[D_TAIL ; Finish building message
A8 11 0091 332 BRB TRANSMIT_CTL ; Join common code
```



```
0093 334 .SBTTL NT$FREE - PERFORM NETWORK FREE FUNCTION
0093 335
0093 336 :++
0093 337 : NT$FREE - engages in a DAP dialogue with the remote FAL to unlock all records
0093 338 : that were previously locked for the record stream.
0093 339
0093 340 : Calling Sequence:
0093 341
0093 342 : BSBW NT$FREE
0093 343
0093 344 : Input Parameters:
0093 345
0093 346 : R8 RAB address
0093 347 : R9 IRAB address
0093 348 : R10 IFAB address
0093 349 : R11 Impure Area address
0093 350
0093 351 : Implicit Inputs:
0093 352
0093 353 : IFB$$_NWA_PTR
0093 354 : IFB$$_SQO
0093 355
0093 356 : Output Parameters:
0093 357
0093 358 : R0 Status code (RMS)
0093 359 : R1-R5 Destroyed
0093 360 : R7 Destroyed
0093 361 : AP Destroyed
0093 362
0093 363 : Implicit Outputs:
0093 364
0093 365 : None
0093 366
0093 367 : Completion Codes:
0093 368
0093 369 : Standard RMS completion codes
0093 370
0093 371 : Side Effects:
0093 372
0093 373 : None
0093 374
0093 375 : --
0093 376
0093 377 NT$FREE:: : Entry point
0093 378 $STSTPT NTFREE :
0093 379 BBS #IFB$$_SQO,(R10),ERRFTM : Network free function not allowed
0093 380 : if file transfer mode selected
0093 381 MOVL IFB$$_NWA_PTR(R10),R7 : Get address of NWA (and DAP)
0093 382
0093 383 :+
0093 384 : Build and send DAP Control message to partner.
0093 385 :-
0093 386
0093 387 FREE_SEND CTL:
0093 388 $SETBIT #NWA$$_LAST MSG,(R7) : Declare this last message to block
0093 389 MOVL #DAP$$_CTL MSG,R0 : Get message type value
0093 390 BSBW NT$BUIED_HEAD : Construct message header
```

A8 6A 2D E0 0099 379
57 3C AA D0 009D 380
00A1 381
00A1 382
00A1 383
00A1 384
00A1 385
00A1 386
00A1 387
00A1 388
50 04 D0 00A5 389
FF55' 30 00A8 390

NTOMISC
V04-000

NETWORK MISC FUNCTIONS
NT\$FREE - PERFORM NETWORK FREE FUNCTION

L 15

16-SEP-1984 00:02:25 VAX/VMS Macro V04-00
5-SEP-1984 16:20:54 [RMS.SRC]NTOMISC.MAR;1

Page 10
(6)

85	0A	90	00AB	391	MOVB	#DAP\$K_FREE,(R5)+	; Store CTLFUNC field
	FF4F'	30	00AE	392	BSBW	NT\$BUICD_TAIL	; Finish building message
	88	11	00B1	393	BRB	TRANSMIT_CTL	; Join common code


```
00B3 395 .SBTTL NT$RELEASE - PERFORM NETWORK RELEASE FUNCTION
00B3 396
00B3 397 :++
00B3 398 : NT$RELEASE - engages in a DAP dialogue with the remote FAL to unlock the
00B3 399 : specified record.
00B3 400
00B3 401 : Calling Sequence:
00B3 402
00B3 403 : BSBW NT$RELEASE
00B3 404
00B3 405 : Input Parameters:
00B3 406
00B3 407 : R8 RAB address
00B3 408 : R9 IRAB address
00B3 409 : R10 IFAB address
00B3 410 : R11 Impure Area address
00B3 411
00B3 412 : Implicit Inputs:
00B3 413
00B3 414 : IFB$L_NWA_PTR
00B3 415 : IFB$V_SQO
00B3 416 : RAB$W_RFA
00B3 417
00B3 418 : Output Parameters:
00B3 419
00B3 420 : R0 Status code (RMS)
00B3 421 : R1-R5 Destroyed
00B3 422 : R7 Destroyed
00B3 423 : AP Destroyed
00B3 424
00B3 425 : Implicit Outputs:
00B3 426
00B3 427 : None
00B3 428
00B3 429 : Completion Codes:
00B3 430
00B3 431 : Standard RMS completion codes
00B3 432
00B3 433 : Side Effects:
00B3 434
00B3 435 : None
00B3 436
00B3 437 :--
00B3 438
00B3 439 NT$RELEASE:: ; Entry point
00B3 440 $STPT NTRELEASE ;
25 6A 2D E0 00B9 441 BBS #IFB$V_SQO,(R10),ERRFTM1 ; Network release function not allowed
00BD 442 ; if file transfer mode selected
00BD 443
00BD 444 :+
00BD 445 : Build and send DAP Control message to partner.
00BD 446 :-
00BD 447
00BD 448 REL_SEND CTL:
57 3C AA D0 00BD 449 MOVL IFB$L_NWA_PTR(R10),R7 ; Get address of NWA (and DAP)
00C1 450 $SETBIT #NWA$V_LAST_MSG,(R7) ; Declare this last message to block
50 04 D0 00C5 451 MOVL #DAP$K_CTL_MSG,R0 ; Get message type value
```

NETWORK MISC FUNCTIONS
NTSRELEASE - PERFORM NETWORK RELEASE FUN

```
16-SEP-1984 00:02:25 VAX/VMS Macro V04-00
5-SEP-1984 16:20:54 [RMS.SRC]NTOMISC.MAR:1
```

Page 12
(7)

Address	Hex	Op	Op2	Op3	Op4	Op5	Op6	Op7	Op8	Op9	Op10	Op11	Op12	Op13	Op14	Op15	Op16	Op17	Op18	Op19	Op20	Op21	Op22	Op23	Op24	Op25	Op26	Op27	Op28	Op29	Op30	Op31	Op32	Op33	Op34	Op35	Op36	Op37	Op38	Op39	Op40	Op41	Op42	Op43	Op44	Op45	Op46	Op47	Op48	Op49	Op50	Op51	Op52	Op53	Op54	Op55	Op56	Op57	Op58	Op59	Op60	Op61	Op62	Op63	Op64	Op65	Op66	Op67	Op68	Op69	Op70	Op71	Op72	Op73	Op74	Op75	Op76	Op77	Op78	Op79	Op80	Op81	Op82	Op83	Op84	Op85	Op86	Op87	Op88	Op89	Op90	Op91	Op92	Op93	Op94	Op95	Op96	Op97	Op98	Op99	Op100	Op101	Op102	Op103	Op104	Op105	Op106	Op107	Op108	Op109	Op110	Op111	Op112	Op113	Op114	Op115	Op116	Op117	Op118	Op119	Op120	Op121	Op122	Op123	Op124	Op125	Op126	Op127	Op128	Op129	Op130	Op131	Op132	Op133	Op134	Op135	Op136	Op137	Op138	Op139	Op140	Op141	Op142	Op143	Op144	Op145	Op146	Op147	Op148	Op149	Op150	Op151	Op152	Op153	Op154	Op155	Op156	Op157	Op158	Op159	Op160	Op161	Op162	Op163	Op164	Op165	Op166	Op167	Op168	Op169	Op170	Op171	Op172	Op173	Op174	Op175	Op176	Op177	Op178	Op179	Op180	Op181	Op182	Op183	Op184	Op185	Op186	Op187	Op188	Op189	Op190	Op191	Op192	Op193	Op194	Op195	Op196	Op197	Op198	Op199	Op200	Op201	Op202	Op203	Op204	Op205	Op206	Op207	Op208	Op209	Op210	Op211	Op212	Op213	Op214	Op215	Op216	Op217	Op218	Op219	Op220	Op221	Op222	Op223	Op224	Op225	Op226	Op227	Op228	Op229	Op230	Op231	Op232	Op233	Op234	Op235	Op236	Op237	Op238	Op239	Op240	Op241	Op242	Op243	Op244	Op245	Op246	Op247	Op248	Op249	Op250	Op251	Op252	Op253	Op254	Op255	Op256	Op257	Op258	Op259	Op260	Op261	Op262	Op263	Op264	Op265	Op266	Op267	Op268	Op269	Op270	Op271	Op272	Op273	Op274	Op275	Op276	Op277	Op278	Op279	Op280	Op281	Op282	Op283	Op284	Op285	Op286	Op287	Op288	Op289	Op290	Op291	Op292	Op293	Op294	Op295	Op296	Op297	Op298	Op299	Op300	Op301	Op302	Op303	Op304	Op305	Op306	Op307	Op308	Op309	Op310	Op311	Op312	Op313	Op314	Op315	Op316	Op317	Op318	Op319	Op320	Op321	Op322	Op323	Op324	Op325	Op326	Op327	Op328	Op329	Op330	Op331	Op332	Op333	Op334	Op335	Op336	Op337	Op338	Op339	Op340	Op341	Op342	Op343	Op344	Op345	Op346	Op347	Op348	Op349	Op350	Op351	Op352	Op353	Op354	Op355	Op356	Op357	Op358	Op359	Op360	Op361	Op362	Op363	Op364	Op365	Op366	Op367	Op368	Op369	Op370	Op371	Op372	Op373	Op374	Op375	Op376	Op377	Op378	Op379	Op380	Op381	Op382	Op383	Op384	Op385	Op386	Op387	Op388	Op389	Op390	Op391	Op392	Op393	Op394	Op395	Op396	Op397	Op398	Op399	Op400	Op401	Op402	Op403	Op404	Op405	Op406	Op407	Op408	Op409	Op410	Op411	Op412	Op413	Op414	Op415	Op416	Op417	Op418
---------	-----	----	-----	-----	-----	-----	-----	-----	-----	-----	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------

B
C D E F G H I J K L M N B C D E F G H I J K L M N B C D E F G H I J K L M N B C D E F G H I J K L M N B C D E F G H I


```
00E5 462 .SBTTL NT$ENTER - UNSUPPORTED NETWORK OPERATION
00E5 463
00E5 464 :++
00E5 465 : This routine returns an RMSS_SUPPORT error on an attempt to perform a remote
00E5 466 : enter file operation.
00E5 467 :--
00E5 468
00E5 469 NT$ENTER:: ; Entry point
FF12' 31 00E5 470 $STPT NTENTER ;
00EB 471 BRW NT$LCL_ENV ; Return RMSS_SUPPORT error and
00EE 472 ; exit with RMS code in R0
00EE 473
00EE 474
00EE 475 .SBTTL NT$REMOVE - UNSUPPORTED NETWORK OPERATION
00EE 476
00EE 477 :++
00EE 478 : This routine returns an RMSS_SUPPORT error on an attempt to perform a remote
00EE 479 : remove file operation.
00EE 480 :--
00EE 481
00EE 482 NT$REMOVE:: ; Entry point
FF09' 31 00EE 483 $STPT NTREMOVE ;
00F4 484 BRW NT$LCL_ENV ; Return RMSS_SUPPORT error and
00F7 485 ; exit with RMS code in R0
00F7 486
00F7 487
00F7 488 .SBTTL NT$NXTVOL - UNSUPPORTED NETWORK OPERATION
00F7 489
00F7 490 :++
00F7 491 : This routine returns an RMSS_SUPPORT error on an attempt to perform a remote
00F7 492 : next-volume operation.
00F7 493 :--
00F7 494
00F7 495 NT$NXTVOL:: ; Entry point
FF00' 31 00F7 496 $STPT NTNXTVOL ;
00FD 497 BRW NT$LCL_ENV ; Return RMSS_SUPPORT error and
0100 498 ; exit with RMS code in R0
0100 499
0100 500 .END ; End of module
```


NTOMISC
Symbol table

NETWORK MISC FUNCTIONS

C 16

16-SEP-1984 00:02:25 VAX/VMS Macro V04-00
5-SEP-1984 16:20:54 [RMS.SRC]NTOMISC.MAR;1

Page 14
(8)

```

$$PSECT_EP      = 00000000
$$RMSTEST       = 0000001A
$$RMS_PBUGCHK   = 00000010
$$RMS_TBUGCHK   = 00000008
$$RMS_UMODE     = 00000004
DAP$B_BITCNT    = 00000035
DAP$B_BKS       = 00000050
DAP$B_BLKCNT    = 00000056
DAP$B_BSZ       = 00000052
DAP$B_CTLFUNC   = 00000040
DAP$B_DATATYPE  = 00000044
DAP$B_DCODE_FID = 00000019
DAP$B_DCODE_MAC = 0000001B
DAP$B_DCODE_MSG = 0000001A
DAP$B_FLAGS     = 00000031
DAP$B_FSZ       = 00000051
DAP$B_KRF       = 00000047
DAP$B_LEN256    = 00000034
DAP$B_LENGTH    = 00000033
DAP$B_ORG       = 00000045
DAP$B_RAC       = 00000046
DAP$B_RAT       = 00000047
DAP$B_RFM       = 00000046
DAP$B_STREAMID  = 00000032
DAP$B_TYPE      = 00000030
DAP$B_X_FIELD   = 00000024
DAP$C_BCN       = 000000C0
DAP$K_BLN       = 000000C0
DAP$K_CTL_MSG   = 00000004
DAP$K_FIX       = 00000001
DAP$K_FLUSH     = 0000000C
DAP$K_FREE      = 0000000A
DAP$K_RELEASE   = 00000009
DAP$K_REWIND    = 00000006
DAP$K_SEQ       = 00000000
DAP$K_SEQ_ACC   = 00000000
DAP$K_TRUNCATE  = 00000007
DAP$K_ALQ1      = 0000004C
DAP$K_ATTMENU   = 00000040
DAP$K_CMWA      = 00000030
DAP$K_CRC_RSLT  = 00000020
DAP$K_DCODE_STS = 00000018
DAP$K_DEV       = 00000068
DAP$K_EBK       = 00000078
DAP$K_FOP1      = 00000064
DAP$K_HBK       = 00000074
DAP$K_MRN       = 00000058
DAP$K_MSG_MASK  = 0000001C
DAP$K_RQP       = 00000050
DAP$K_SBN       = 0000007C
DAP$K_SSPWA     = 00000080
DAP$K_TEMP      = 00000090
DAP$M_BITCNT    = 00000008
DAP$M_BLKCNT    = 00000040
DAP$M_CMPFMT    = 00000008
DAP$M_DMO       = 00002000
DAP$M_EMBEDDED  = 00000010

```

```

DAP$M_IMAGE     = 00000002
DAP$M_KEY       = 00000002
DAP$M_KRF       = 00000004
DAP$M_LSA       = 00000040
DAP$M_MACY11    = 00000080
DAP$M_SEGMENT   = 00000040
DAP$M_TMP1$     = 00000008
DAP$M_TMP2$     = FFF80000
DAP$M_TMP3$     = 00020000
DAP$M_TMP4$     = 01000000
DAP$M_TMP5$     = F0000000
DAP$M_ZERO      = 00000080
DAP$Q_DCODE_FLG = 00000000
DAP$Q_KEY       = 00000048
DAP$Q_MSG_BUF1  = 00000008
DAP$Q_MSG_BUF2  = 00000010
DAP$Q_RUNSYS    = 0000005C
DAP$Q_SYSPEC    = 00000038
DAP$V_GEQ_V56   = 00000024
DAP$W_BLS       = 00000048
DAP$W_CTLMENU   = 00000044
DAP$W_DEQ1      = 00000054
DAP$W_DISPLAY2  = 00000054
DAP$W_FFB       = 00000072
DAP$W_LRL       = 00000070
DAP$W_MRS       = 0000004A
DAP$W_PARTNER   = 00000006
DAP$W_VERSION    = 00000004
ERRFTM          = 00000045 R 01
ERRFTM1         = 000000E2 R 01
EXIT            = 00000044 R 01
FLUSH_SEND_CTL  = 00000081 R 01
FLUSH_SIMULATE  = 00000079 R 01
FREE_SEND_CTL   = 000000A1 R 01
IFB$C_NWA_PTR   = 0000003C
IFB$V_SQO       = 0C00002D
NT$BUILD_HEAD   = ***** X 01
NT$BUILD_TAIL   = ***** X 01
NT$CONNECT      = ***** X 01
NT$DISCONNECT   = ***** X 01
NT$ENTER        = 000000E5 RG 01
NT$FLUSH        = 0000006B RG 01
NT$FREE         = 00000093 RG 01
NT$LCL_ENV      = ***** X 01
NT$NEXTVOL      = 000000F7 RG 01
NT$RECEIVE      = ***** X 01
NT$RELEASE      = 000000B3 RG 01
NT$REMOVE       = 000000EE RG 01
NT$REWIND       = 00000000 RG 01
NT$TRANSMIT     = ***** X 01
NT$TRUNCATE     = 0000004B RG 01
NWA$B_ALLXABCNT = 0000011C
NWA$B_DAP_RAC   = 000000C9
NWA$B_FILESYS   = 000000C5
NWA$B_KEYXABCNT = 0000011D
NWA$B_NETSTRSIZ = 0000016F
NWA$B_NODBUFSIZ = 00000168

```


NTOMISC
Symbol table

NETWORK MISC FUNCTIONS

D 16

16-SEP-1984 00:02:25 VAX/VMS Macro V04-00
5-SEP-1984 16:20:54 [RMS.SRC]NTOMISC.MAR;1

Page 15
(8)

NWASB_ORG	000000C6
NWASB_OSTYPE	000000C4
NWASB_RFM	000000C7
NWASB_RMS_RAC	000000C8
NWASC_BLN	00000800
NWASK_BLN	00000800
NWASK_IDX	= 00000020
NWASL_ALLXABADR	00000100
NWASL_DATXABADR	00000104
NWASL_DEV	000000C0
NWASL_FHCXABADR	00000108
NWASL_KEYXABADR	0000010C
NWASL_MSG_MASK	000000D4
NWASL_PROXAADR	00000110
NWASL_RDTXABADR	00000114
NWASL_SAVE_FLGS	00000128
NWASL_SUMXABADR	00000118
NWASL_THREAD	000000FC
NWASL_XLTATIR	00000238
NWASL_XLTBUFFLG	0000022C
NWASL_XLTCNT	00000228
NWASL_XLTMAXINDX	00000234
NWASL_XLTSIZ	C0000230
NWASQ_ACS	00000244
NWASQ_BIGBUF	00000170
NWASQ_BLD	000000F0
NWASQ_FLG	00000000
NWASQ_INODE	0000025C
NWASQ_IOSB	000000D8
NWASQ_LNODE	00000160
NWASQ_LOGNAME	0000023C
NWASQ_NCB	00000264
NWASQ_RCV	000000E0
NWASQ_SAVE_DESC	00000120
NWASQ_XLTBUF1	0000024C
NWASQ_XLTBUF2	00000254
NWASQ_XMT	000000E8
NWAST_ACSBUF	0000026C
NWAST_AUXBUF	000005E0
NWAST_DAP	00000000
NWAST_INODEBUF	000004AC
NWAST_ITM_ATTR	00000200
NWAST_ITM_END	00000224
NWAST_ITM_LST	00000200
NWAST_ITM_MAXINDX	00000218
NWAST_ITM_STRING	0000020C
NWAST_NCBBUF	0000052C
NWAST_NODEBUF	00000169
NWAST_RCVBUF	000001A0
NWAST_SCAN	00000100
NWAST_TEMP	00000120
NWAST_XLTBUF1	000002AC
NWAST_XLTBUF2	000003AC
NWAST_XMTBUF	000003C0
NWASV_FLUSH_BUF	= 00000001
NWASV_LAST_MSG	= 00000000
NWASW_BUILD	000000D2

NWASW_DAPBUFSIZ	000000CA
NWASW_DIR_OFF	000000CC
NWASW_DISPLAY	000000D0
NWASW_FIL_OFF	000000CE
NWASW_JNLXABJOP	0000011E
PIOSA_TRACE	***** X 01
RABSB_KRF	= 00000035
RABSL_RFA0	= 00000010
RABSW_RFA4	= 00000014
RECV_STS	00000041 R 01
REL_SEND_CTL	000000BD R 01
REW_SEND_CTL	0000001D R 01
REW_SIMULATE	0000000E R 01
RMSB_FTM	= 000187C4
TPTSC_NTENTER	***** X 01
TPTSL_NTFLUSH	***** X 01
TPTSL_NTFREE	***** X 01
TPTSL_NTNXTVOL	***** X 01
TPTSL_NTRELEASE	***** X 01
TPTSL_NTREMOVE	***** X 01
TPTSL_NTREWIND	***** X 01
TPTSL_NTTRUNC	***** X 01
TRANSMIT_CTL	0000003B R 01
TRUNC_SEND_CTL	00000059 R 01

+-----+
! Psect synopsis !
+-----+

PSECT name	Allocation	PSECT No.	Attributes
ABS	00000000 (0.)	00 (0.)	NOPIC USR CON ABS LCL NOSHR NOEXE NORD NOWRT NOVEC BYTE
NF\$NETWORK	00000100 (256.)	01 (1.)	PIC USR CON REL GBL NOSHR EXE RD NOWRT NOVEC BYTE
\$AB\$\$	00000800 (2048.)	02 (2.)	NOPIC USR CON ABS LCL NOSHR EXE RD WRT NOVEC BYTE

+-----+
! Performance indicators !
+-----+

Phase	Page faults	CPU Time	Elapsed Time
Initialization	37	00:00:00.08	00:00:00.97
Command processing	133	00:00:00.62	00:00:04.36
Pass 1	301	00:00:10.90	00:00:32.28
Symbol table sort	0	00:00:01.37	00:00:02.46
Pass 2	95	00:00:02.09	00:00:05.97
Symbol table output	22	00:00:00.20	00:00:00.86
Psect synopsis output	2	00:00:00.03	00:00:00.03
Cross-reference output	0	00:00:00.00	00:00:00.00
Assembler run totals	592	00:00:15.29	00:00:46.93

The working set limit was 1500 pages.

57837 bytes (113 pages) of virtual memory were used to buffer the intermediate code.
There were 60 pages of symbol table space allocated to hold 1045 non-local and 7 local symbols.
500 source lines were read in Pass 1, producing 14 object records in Pass 2.
22 pages of virtual memory were used to define 21 macros.

+-----+
! Macro library statistics !
+-----+

Macro library name	Macros defined
_\$255\$DUA28:[RMS.OBJ]RMS.MLB;1	13
_\$255\$DUA28:[SYSLIB]STARLET.MLB;2	4
TOTALS (all libraries)	17

1269 GETS were required to define 17 macros.

There were no errors, warnings or information messages.

MACRO/LIS=LIS\$:NTOMISC/OBJ=OBJ\$:NTOMISC MSRC\$:NTOMISC/UPDATE=(ENH\$:NTOMISC)+LIB\$:RMS/LIB

0316 AH-BT13A-SE
VAX/VMS V4.0

DIGITAL EQUIPMENT CORPORATION
CONFIDENTIAL AND PROPRIETARY