


```

NN      NN      TTT'TTTTTT      000000      EEEEEEEEEE      XX      XX      TTTTTTTTTT      EEEEEEEEEE      NN      NN      DDDDDDDD
NN      NN      TTT'TTTTTT      000000      EEEEEEEEEE      XX      XX      TTT'TTTTTT      EEEEEEEEEE      NN      NN      DDDDDDDD
NN      NN      TT          00      00      EE          XX      XX      TT          EE          NN      NN      DD      DD
NN      NN      TT          00      00      EE          XX      XX      TT          EE          NN      NN      DD      DD
NNNN    NN      TT          00      0000      EE          XX      XX      TT          EE          NNNN    NN      DD      DD
NNNN    NN      TT          00      0000      EE          XX      XX      TT          EE          NNNN    NN      DD      DD
NN      NN      NN      TT          00      00      00      EEEEEEEEE      XX      XX      TT          EEEEEEEEE      NN      NN      NN      DD      DD
NN      NN      NN      TT          00      00      00      EEEEEEEEE      XX      XX      TT          EEEEEEEEE      NN      NN      NN      DD      DD
NN      NNNN     TT          0000      00      EE          XX      XX      TT          EE          NN      NNNN     DD      DD
NN      NNNN     TT          0000      00      EE          XX      XX      TT          EE          NN      NNNN     DD      DD
NN      NN      TT          00      00      EE          XX      XX      TT          EE          NN      NN      DD      DD
NN      NN      TT          00      00      EE          XX      XX      TT          EE          NN      NN      DD      DD
NN      NN      TT          00      00      EE          XX      XX      TT          EE          NN      NN      DD      DD
NN      NN      TT          000000      EEEEEEEEEE      XX      XX      TT          EEEEEEEEEE      NN      NN      DDDDDDDD
NN      NN      TT          000000      EEEEEEEEEE      XX      XX      TT          EEEEEEEEEE      NN      NN      DDDDDDDD

```

```

LL      111111      SSSSSSSS
LL      111111      SSSSSSSS
LL      11          SS
LL      11          SS
LL      11          SS
LL      11          SS
LL      11          SSSSSS
LL      11          SSSSSS
LL      11          SS
LL      11          SS
LL      11          SS
LL      11          SS
LLLLLLLLLLLL 111111      SSSSSSSS
LLLLLLLLLLLL 111111      SSSSSSSS

```

NTOEXTEND
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DECLARATIONS
NT\$EXTEND -

```

0000 1          $BEGIN NTOEXTEND,000,NF$NETWORK,<NETWORK EXTEND>
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 :*
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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 extend the size of the specified file.
0000 36
0000 37 : Environment: VAX/VMS, executive mode
0000 38
0000 39 : Author: James A. Krycka,      Creation Date: 17-AUG-1981
0000 40
0000 41 : Modified By:
0000 42
0000 43 : V03-004 RAS0315      Ron Schaefer      22-Jun-1984
0000 44 : Make local definitions of the RMS symbols.
0000 45
0000 46 : V03-003 KRM0078      K R Malik      06-Jan-1983
0000 47 : Use FAB's ALQ instead of XAB's when no XAB
0000 48 : is present. (& fix bug in processing XAB
0000 49 : ALQ returned from FAL)
0000 50
0000 51 : V03-002 KRM0049      K R Malik      20-Apr-1982
0000 52 : Fix bug in way SEND_ALL does XAB probe.
0000 53
0000 54 : V03-001 KRM0044      K R Malik      05-Apr-1982
0000 55 : Probe each Allocation XAB before sending to FAL.
0000 56
0000 57 : V02-002 JAK0066      J A Krycka      07-OCT-1981

```

NTOEXTEND
V04-000

NETWORK EXTEND

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5-SEP-1984 16:20:47 [RMS.SRC]NTOEXTEND.MAR;1

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0000 58 :
0000 59 :
0000 60 :--

Reject \$EXTEND request while in file transfer mode.

```
0000 62      .SBTTL  DECLARATIONS
0000 63
0000 64      :
0000 65      : Include Files:
0000 66      :
0000 67
0000 68      $DAPPLGDEF      : Define DAP prologue symbols
0000 69      $DAPHDRDEF     : Define DAP message header
0000 70      $DAPCNFDEF     : Define DAP Configuration message
0000 71      $DAPACCDEF     : Define DAP Access message
0000 72      $DAPCTLDEF     : Define DAP Control message
0000 73      $DAPALLDEF     : Define DAP Allocation message
0000 74      $FABDEF        : Define FAB symbols
0000 75      $IFBDEF        : Define IFAB symbols
0000 76      $NWADEF        : Define Network Work Area symbols
0000 77      $RMSDEF        : Define RMS error message symbols
0000 78      $XABDEF        : Define XAB symbols
0000 79
0000 80      :
0000 81      : Macros:
0000 82      :
0000 83      :      None
0000 84      :
0000 85      : Equated Symbols:
0000 86      :
0000 87
0000 88      ASSUME  DAP$Q_DCODE_FLG EQ 0
0000 89
0000 90      :
0000 91      : Own Storage:
0000 92      :
0000 93      :      None
0000 94      :
```

```

0000 96      .SBTTL NT$EXTEND -
0000 97
0000 98      :++
0000 99      : NT$EXTEND - engages in a DAP dialogue with the remote FAL to extend the
0000 100     : specified file according to the Allocation XABs present (or according
0000 101     : to the FAB if no Allocation XABs are present).
0000 102
0000 103     : Calling Sequence:
0000 104
0000 105     :     BSBW  NT$EXTEND
0000 106
0000 107     : Input Parameters:
0000 108
0000 109     :     R8      FAB address
0000 110     :     R9      IFAB address
0000 111     :     R10     IFAB address
0000 112     :     R11     Impure Area address
0000 113
0000 114     : Implicit Inputs:
0000 115
0000 116     :     User ALLXABs
0000 117     :     User FAB
0000 118     :     DAP$Q_SYSCAP
0000 119     :     N$WASV_FTM_RETRV
0000 120     :     N$WASV_FTM_STORE
0000 121
0000 122     : Output Parameters:
0000 123
0000 124     :     R0      Status code (RMS)
0000 125     :     R1-R7   Destroyed
0000 126     :     AP      Destroyed
0000 127
0000 128     : Implicit Outputs:
0000 129
0000 130     :     User ALLXABs
0000 131
0000 132     : Completion Codes:
0000 133
0000 134     :     Standard RMS completion codes
0000 135
0000 136     : Side Effects:
0000 137
0000 138     :     None
0000 139
0000 140     :--
0000 141
0000 142     NT$EXTEND::
0000 143     $STPT  NTEXTEND      : Entry point
57  3C  A9  D0  0006  144     MOVL  IFB$L_NWA_PTR(R9),R7  : Get address of NWA (and DAP)
      04  E1  000A  145     BBC   #DAP$Q_EXTEND,-      : Branch if remote FAL does not support
      28  A7  000C  146     DAP$Q_SYSCAP(R7),ERRSUP : extend file allocation function
67  1A  E0  000F  147     BBS  #N$WASV_FTM_RETRV,(R7),- : Branch if file transfer mode retrieval
      09  0012  148     ERRFTM-      : in progress
67  18  E0  0013  149     BBS  #N$WASV_FTM_STORE,(R7),- : Branch if file transfer mode storage
      05  0016  150     ERRFTM-      : in progress
      09  11  0017  151     BRB  BUILD_MASK      : Proceed
      FFE4 31  0019  152     ERRSUP: BRW  NT$SUP_CTLFUNC : Assemble error codes in R0 and STV

```

```

001C 153 ; and exit
001C 154 ERRFTM: RMSERR FTM ; Declare file transfer mode error
05 0021 155 RSB ; Exit with RMS code in R0
0022 156
0022 157 ;+
0022 158 ; Build display field request mask which will be used in the Control message
0022 159 ; to request that optional DAP messages be returned by FAL.
0022 160 ; For $EXTEND these are only the ALL messages.
0022 161 ;-
0022 162
0022 163 BUILD_MASK: ; Build N$W$DISPLAY
56 D4 0022 164 CLRL R6 ; Indicate this is not a close operation
FFD9 30 0024 165 BSBW NT$SCAN_XABCHN ; Scan user XAB chain and check FAL's
; capabilities; request mask put in R2
0027 166 ; Branch on success
03 50 E8 0027 167 BLBS R0,10$ ; Branch (failure to complete scan)
00DA 31 002A 168 BRW FAIL ; Ignore all but ALLXABs in chain
52 FFB 8F AA 002D 169 10$: BICW2 #<^C<DAP$M DSP_ALL>>,R2 ; Save request mask
00D0 C7 52 B0 0032 170 MOVW R2,N$W$DISPLAY(R7) ; Continue (ALLXAB bit set)
06 12 0037 171 BNEQ SEND_CTL_BEGIN ; If no ALLXAB present, then set the
0039 172 $SETBIT #DAP$V DSP_ALL,- ; bit manually
0039 173 N$W$DISPLAY(R7)
003F 174 ;+
003F 175 ; Build and send DAP Control (begin) message to partner.
003F 176 ;-
003F 177
003F 178 SEND_CTL_BEGIN: ; (required message sequence)
50 04 D0 003F 179 MOVL #DAP$K CTL MSG,R0 ; Get message type value
FFBB 30 0042 180 BSBW NT$BUICD HEAD ; Construct message header
85 0B 90 0045 181 MOVW #DAP$K EXTEND_B,(R5)+ ; Store CTLFUNC field
FFB5 30 0048 182 BSBW NT$BUICD TAIL ; Finish building message
FFB2 30 004B 183 BSBW NT$TRANSMIT ; Send Control message to FAL
03 50 E8 004E 184 BLBS R0,SEND_ALL ; Branch on success
00B3 31 0051 185 BRW FAIL ; Branch (failure)
0054 186
0054 187 ;+
0054 188 ; Build and send DAP Allocation message(s) to partner.
0054 189 ;
0054 190 ; Note: NT$SCAN_XABCHN determined that Allocation XABs were chained together.
0054 191 ;-
0054 192
0054 193 SEND_ALL: ; (one or more messages required)
56 0100 C7 D0 0054 194 MOVL N$W$ALLXABADR(R7),R6 ; Get address of first user ALLXAB
21 13 0059 195 BEQL SEND_ALL2 ; Branch if no ALLXABs present
FFA2 30 005B 196 10$: BSBW NT$SCAN_ALLXAB ; Scan the XAB
03 50 E8 005E 197 BLBS R0,20$ ; Branch on success
00A3 31 0061 198 BRW FAIL ; Branch (failure)
FF99 30 0064 199 20$: BSBW NT$ENCODE ALL ; Build message
FF96 30 0067 200 BSBW NT$TRANSMIT ; Send Allocation message to FAL
03 50 E8 006A 201 BLBS R0,30$ ; Branch on success
0097 31 006D 202 BRW FAIL ; Branch (failure)
011C C7 97 0070 203 30$: DECB N$W$ALLXABCNT(R7) ; Any more Allocation XABs to process?
3E 1B 0074 204 BLEQU SEND_CTL_END ; Branch if not
56 04 A6 D0 0076 205 MOVL XAB$C_NXT(R6),R6 ; Get address on next XAB in chain
DF 11 007A 206 BRB 10$ ; Continue with next XAB
007C 207 ;+
007C 208 ; No ALLXAB is present. Construct a DAP allocation attributes msg based on
007C 209 ; FAB information.

```



```

007C 210 :-
007C 211
50 08 D0 007C 212 SEND_ALL2:
FF7E' 30 007C 213     MOVL  #DAPSK_ALL_MSG,R0      ; Get msg type value
51 24 9A 007F 214     BSBW  NT$BUIED HEAD      ; Construct message header
                                MOVZBL #<DAPSM_AOP!-      ; Get allocation msg value
                                0082 215     ;
                                0085 216     ;
                                0085 217     ;
                                0085 218     BSBW  NT$CVT_BN4_EXT      ; Store ALLMENU as an extensible
                                0088 219     ; field
51 04 A8 D0 0088 220     MOVL  FABSL_FOP(R8),R1      ; Get FAB FOP field
                                52  D4 008C 221     CLRL  R2      ; Clear RMS AOP bits
                                008E 222     $MAPBIT FABSV_CTG,DAPSV_CTG2 ; Map CTG bit
                                0096 223     $MAPBIT FABSV_CBT,DAPSV_CBT2 ; Map CBT bit
51 52 D0 009E 224     MOVL  R2,R1      ; Move data to correct register
FF5C' 30 00A1 225     BSBW  NT$CVT_BN4_EXT      ; Store AOP as an extensible field
51 10 A8 D0 00A4 226     MOVL  FABSL_ALQ(R8),R1      ; Get FAB's ALQ value
FF55' 30 00A8 227     BSBW  NT$CVT_BN4_IMG      ; Store ALQ as an image field
FF52' 30 00AB 228     BSBW  NT$BUIED TAIL      ; Finish building message
FF4F' 30 00AE 229     BSBW  NT$TRANSMIT      ; Send Allocation msg to FAL
53 50 E9 00B1 230     BLBC  RO,FAIL      ; Branch on failure
00B4 231
00B4 232 :-+
00B4 233 :- Build and send DAP Control (end) message to partner.
00B4 234 :-
00B4 235
00B4 236 SEND_CTL_END:
00B4 237     $SETBIT #NWA$V_LAST_MSG,(R7) ; (required message sequence)
50 04 D0 00B8 238     MOVL  #DAPSK_CTL_MSG,R0      ; Declare this last message to block
FF42' 30 00BB 239     BSBW  NT$BUIED HEAD      ; Get message type value
85 0F 90 00BE 240     MOVB  #DAPSK_EXTEND_E,(R5)+ ; Construct message header
85 20 90 00C1 241     MOVB  #DAPSM_DISPLAY2,(R5)+ ; Store CTLFUNC field
51 00D0 C7 3C 00C4 242     MOVZWL NWA$V_DISPLAY(R7),R1 ; Store CTLMENU field
FF34' 30 00C9 243     BSBW  NT$CVT_BN4_EXT      ; Get request mask
FF31' 30 00CC 244     BSBW  NT$BUIED TAIL      ; Store DISPLAY as an extensible field
FF2E' 30 00CF 245     BSBW  NT$TRANSMIT      ; Finish building message
32 50 E9 00D2 246     BLBC  RO,FAIL      ; Send Control message to FAL
0100 C7 D5 00D5 247     TSTL  NWA$V_ALLXABADR(R7) ; Branch on failure
OE 13 00D9 248     BEQL  RECV_EXT_ATT2 ; Any ALLXABs present?
FF22' 30 00DB 249     BSBW  NT$SCAN_XABCHN ; Branch if not (FAB is being used)
00DE 250     ; Scan user XAB chain to reset
26 50 E9 00DE 251     BLBC  RO,FAIL      ; ALLXABCNT
00E1 252     ; Branch on error
00E1 253 :-+
00E1 254 :- Receive DAP Allocation messages from partner and update the user ALLXABs.
00E1 255 :-
00E1 256
00E1 257 RECV_EXT_ATT:
FF1C' 30 00E1 258     BSBW  NT$RECV_EXT_ATT ; (optional--must be requested)
20 50 E9 00E4 259     BLBC  RO,FAIL      ; Process Extended Attributes messages
10 11 00E7 260     BRB   RECV_ACK      ; Branch on failure
00E9 261 :-+
00E9 262 :- Receive DAP Allocation message from partner and update user FAB.
00E9 263 :-
00E9 264
00E9 265 RECV_EXT_ATT2:
00E9 266     $SETBIT #DAPSK_ALL_MSG,DAP$V_MSG_MASK(R7) ; Go receive ACK msg

```

```

FF0F' 30 00EE 267 ; Expect response of Allocation message
13 50 E9 00EE 268 BSBW NTSRECEIVE ; Get reply from FAL
4C A7 D0 00F1 269 BLBC RO,FAIL ; Branch on failure
10 A8 00F4 270 MOVL DAP$ALQ2(R7),- ; Move ALQ value to user FAB
00F7 271 FAB$ALQ(R8) ;
00F9 272 ;+
00F9 273 ; Receive DAP Acknowledge message from partner.
00F9 274 ;-
00F9 275
00F9 276 RECV_ACK: ; (required message)
00F9 277 $SETBIT #DAP$K_ACK_MSG,DAP$L_MSG_MASK(R7)
00FE 278 ; Expect response of Acknowledge message
FEFF' 30 00FE 279 BSBW NTSRECEIVE ; Get reply from FAL
03 50 E9 0101 280 BLBC RO,FAIL ; Branch on failure
05 0104 281 SUC: RMSSUC ; Return success
0107 282 FAIL: RSB ; Exit with RMS code in R0
0108 283
0108 284 .END ; End of module

```

NTOEXTEND
Symbol table

NETWORK EXTEND

C 13

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5-SEP-1984 16:20:47 [RMS.SRC]NTOEXTEND.MAR;1

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NTO
V04

```

$$PSECT EP = 00000000
$$RMSTEST = 0000001A
$$RMS_PBUGCHK = 00000010
$$RMS_TBUGCHK = 00000008
$$RMS_UMODE = 00000004
BUILD_MASK = 00000022 R 01
DAP$B_ACCFUNC = 00000040
DAP$B_ACCOPT = 00000041
DAP$B_AID = 00000050
DAP$B_ALN = 00000044
DAP$B_AOP = 00000045
DAP$B_BITCNT = 00000035
DAP$B_BKZ = 00000051
DAP$B_BLKCNT = 00000056
DAP$B_CTLFUNC = 00000040
DAP$B_DCODE_FID = 00000019
DAP$B_DCODE_MAC = 0000001B
DAP$B_DCODE_MSG = 0000001A
DAP$B_DECVER = 00000047
DAP$B_ECONUM = 00000045
DAP$B_FAC = 00000042
DAP$B_FILESYS = 00000043
DAP$B_FLAGS = 00000031
DAP$B_KRF = 00000047
DAP$B_LEN256 = 00000034
DAP$B_LENGTH = 00000033
DAP$B_OSTYPE = 00000042
DAP$B_RAC = 00000046
DAP$B_SHR = 00000043
DAP$B_STREAMID = 00000032
DAP$B_TYPE = 00000030
DAP$B_USRNUM = 00000046
DAP$B_USRVER = 00000048
DAP$B_VERNUM = 00000044
DAP$B_X_FIELD = 00000024
DAP$C_BLN = 000000C0
DAP$K_ACK_MSG = 00000006
DAP$K_ALL_MSG = 0000000B
DAP$K_BLN = 000000C0
DAP$K_CTL_MSG = 00000004
DAP$K_EXTEND_B = 0000000B
DAP$K_EXTEND_E = 0000000F
DAP$K_SEQ_ACC = 00000000
DAP$L_ALQ2 = 0000004C
DAP$L_CHWA = 00000030
DAP$L_CRC_RSLT = 00000020
DAP$L_DCODE_STS = 00000018
DAP$L_LOC = 00000048
DAP$L_MSG_MASK = 0000001C
DAP$L_ROP = 00000050
DAP$L_SSPWA = 00000080
DAP$L_TEMP = 00000090
DAP$M_ALQ2 = 00000020
DAP$M_AOP = 00000004
DAP$M_BITCNT = 00000008
DAP$M_BLKCNT = 00000040
DAP$M_DISPLAY2 = 00000020

```

```

DAP$M_DSP_3NAM = 00000200
DAP$M_DSP_ALL = 00000004
DAP$M_GET = 00000002
DAP$M_GO_NOGO = 00000010
DAP$M_MSE = 00000010
DAP$M_SEGMENT = 00000040
DAP$M_TMP1$ = 000000F0
DAP$M_TMP2$ = 0000FE00
DAP$Q_DCODE_FLG = 00000000
DAP$Q_FILESPEC = 00000044
DAP$Q_KEY = C0000048
DAP$Q_MSG_BUF1 = 00000008
DAP$Q_MSG_BUF2 = 00000010
DAP$Q_PASSWORD = 00000050
DAP$Q_SYSCAP = 00000028
DAP$Q_SYSPEC = 00000038
DAP$V_CBT2 = 00000002
DAP$V_CTG2 = 00000001
DAP$V_DSP_ALL = 00000002
DAP$V_EXTEND = 00000004
DAP$W_ALLMENU = 00000040
DAP$W_BUFSIZ = 00000040
DAP$W_CTLMENU = 00000044
DAP$W_DEQ2 = 00000052
DAP$W_DISPLAY1 = 0000004C
DAP$W_DISPLAY2 = 00000054
DAP$W_PARTNER = 00000006
DAP$W_PARTITION = 00000004
DAP$W_VOL = 00000042
ERRFTM = 0000001C R 01
ERRSUP = 00000019 R 01
FAB$L_ALQ = 00000010
FAB$L_FOP = 00000004
FAB$V_CBT = 00000015
FAB$V_CTG = 00000014
FAIL = 00000107 R 01
IFB$L_NWA_PTR = 0000003C
NT$BUILD_READ = ***** X 01
NT$BUILD_TAIL = ***** X 01
NT$CVT_BN4_EXT = ***** X 01
NT$CVT_BN4_IMG = ***** X 01
NT$ENCODE_ALL = ***** X 01
NT$EXTEND = 00000000 RG 01
NT$RECEIVE = ***** X 01
NT$RECV_EXT_ATT = ***** X 01
NT$SCAN_ALL_XAB = ***** X 01
NT$SCAN_XABCHN = ***** X 01
NT$SUP_CTLFUNC = ***** X 01
NT$TRANSMIT = ***** X 01
NWA$B_ALL_XABCNT = 0000011C
NWA$B_DAP_RAC = 000000C9
NWA$B_FILESYS = 000000C5
NWA$B_KEY_XABCNT = 0000011D
NWA$B_NETSTRSIZ = 0000016F
NWA$B_NODBUFSIZ = 00000168
NWA$B_ORG = 000000C6
NWA$B_OSTYPE = 000000C4

```

```

NWSB_RFM 000000C7
NWSB_RMS_RAC 000000C8
NWSB_BLN 00000800
NWSB_BLN 00000800
NWSL_ALLXABADR 0000010C
NWSL_DATXABADR 00000104
NWSL_DEV 000000C0
NWSL_FHCXABADR 00000108
NWSL_KEYXABADR 0000010C
NWSL_MSG_MASK 000000D4
NWSL_PROXABADR 00000110
NWSL_RDXABADR 00000114
NWSL_SAVE_FLGS 00000128
NWSL_SUMXABADR 00000118
NWSL_THREAD 000000FC
NWSL_XLTATTR 00000238
NWSL_XLTBUFLG 0000022C
NWSL_XLTCNT 00000228
NWSL_XLTMAXIDX 00000234
NWSL_XLTSIZ 00000230
NWSQ_ACS 00000244
NWSQ_BIGBUF 00000170
NWSQ_BLD 000000F0
NWSQ_FLG 00000000
NWSQ_INODE 0000025C
NWSQ_IOSB 000000D8
NWSQ_LNODE 00000160
NWSQ_LOGNAME 0000023C
NWSQ_NCB 00000264
NWSQ_RCV 000000E0
NWSQ_SAVE_DESC 00000120
NWSQ_XLTBUF1 0000024C
NWSQ_XLTBUF2 00000254
NWSQ_XMT 000000E8
NWSV_ACSBUF 0000026C
NWSV_AUXBUF 000005E0
NWSV_DAP 00000000
NWSV_INODEBUF 000004AC
NWSV_ITM_ATTR 00000200
NWSV_ITM_END 00000224
NWSV_ITM_LST 00000200
NWSV_ITM_MAXIDX 00000218
NWSV_ITM_STRING 0000020C
NWSV_NCBBUF 0000052C
NWSV_NODEBUF 00000169
NWSV_RCVBUF 000001A0
NWSV_SCAN 00000100
NWSV_TEMP 00000120
NWSV_XLTBUF1 000002AC
NWSV_XLTBUF2 000003AC
NWSV_XMTBUF 000003C0
NWSV_FTM_RETRV = 0000001A
NWSV_FTM_STORE = 0000001B
NWSV_LAST_MSG = 00C00000
NWSW_BUILD 000000D2
NWSW_DAPBUFSIZ 000000CA
NWSW_DIR_OFF 000000CC

```

```

NWSW_DISPLAY 000000D0
NWSW_FIL_OFF 000000CE
NWSW_JNLXABJOP 0000011E
PIOSA_TRACE ***** X 01
RECV_ACK 000000F9 R 01
RECV_EXT_AT 000000E1 R 01
RECV_EXT_ATT2 000000E9 R 01
RMSS_FTM = 000187C4
SEND_ALL 00000054 R 01
SEND_ALL2 0000007C R 01
SEND_CTL_BEGIN 0000003F R 01
SEND_CTL_END 000000B4 R 01
SUC 00000104 R 01
TPTSL_NTEXTEND ***** X 01
XBSL_NXT = 00000004

```

! Psect synopsis !

PSECT name	Allocation	PSECT No.	Attributes
. ABS	00000000 (0.)	00 (0.)	NOPIC USR CON ABS LCL NOSHR NOEXE NORD NOWRT NOVEC BYTE
NFSNETWORK	00000108 (264.)	01 (1.)	PIC USR CON REL GBL NOSHR EXE RD NOWRT NOVEC BYTE
\$ABSS	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	32	00:00:00.07	00:00:00.32
Command processing	125	00:00:00.60	00:00:03.64
Pass 1	310	00:00:11.58	00:00:30.68
Symbol table sort	0	00:00:01.45	00:00:02.47
Pass 2	65	00:00:01.95	00:00:04.23
Symbol table output	23	00:00:00.16	00:00:00.31
Psect synopsis output	2	00:00:00.03	00:00:00.10
Cross-reference output	0	00:00:00.00	00:00:00.00
Assembler run totals	559	00:00:15.86	00:00:41.77

The working set limit was 1350 pages.
60705 bytes (119 pages) of virtual memory were used to buffer the intermediate code.
There were 60 pages of symbol table space allocated to hold 1119 non-local and 10 local symbols.
284 source lines were read in Pass 1, producing 14 object records in Pass 2.
27 pages of virtual memory were used to define 26 macros.

! Macro library statistics !

Macro library name	Macros defined
_\$255\$DUA28:[RMS.OBJ]RMS.MLB;1	18
-\$255\$DUA28:[SYSLIB]STARLET.MLB;2	4
TOTALS (all libraries)	22

1395 GETS were required to define 22 macros.

There were no errors, warnings or information messages.

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

The image displays a grid of 120 small terminal window screenshots, arranged in 10 rows and 12 columns. Each window shows a different system utility or command-line interface. The windows are arranged in a grid, with some windows containing text and others showing graphical elements like progress bars or status indicators. The text in the windows is mostly illegible due to the small size and low resolution of the image. However, several windows contain clearly legible text labels:

- Row 2, Column 3: NT0DAPRMS LIS
- Row 4, Column 7: NT0GET LIS
- Row 4, Column 11: NT0NWASET LIS
- Row 5, Column 7: NT0EXTEND LIS
- Row 6, Column 3: NT0DECODE LIS
- Row 7, Column 3: NT0ENCODE LIS
- Row 7, Column 4: NT0ERASE LIS
- Row 8, Column 4: NT0DISCON LIS
- Row 8, Column 5: NT0DISPLY LIS
- Row 10, Column 11: NT0MISC LIS