


```

BBBBBBBBB      AAAAAA      SSSSSSSS      VV      VV      EEEEEEEEEE      CCCCCCCC      TTTTTTTTTT      000000      RRRRRRRR
BBBBBBBBB      AAAAAA      SSSSSSSS      VV      VV      EEEEEEEEEE      CCCCCCCC      TTTTTTTTTT      000000      RRRRRRRR
BB      BB      AA      AA      SS      VV      VV      EE      CC      TT      00      00      RR      RR
BB      BB      AA      AA      SS      VV      VV      EE      CC      TT      00      00      RR      RR
BB      BB      AA      AA      SS      VV      VV      EE      CC      TT      00      00      RR      RR
BBBBBBBBB      AA      AA      SSSSSS      VV      VV      EEEEEEEE      CC      TT      00      00      RRRRRRRR
BBBBBBBBB      AA      AA      SSSSSS      VV      VV      EEEEEEEE      CC      TT      00      00      RRRRRRRR
BB      BB      AAAAAAAAAA      SS      VV      VV      EE      CC      TT      00      00      RR      RR
BB      BB      AAAAAAAAAA      SS      VV      VV      EE      CC      TT      00      00      RR      RR
BB      BB      AA      AA      SS      VV      VV      EE      CC      TT      00      00      RR      RR
BB      BB      AA      AA      SS      VV      VV      EE      CC      TT      00      00      RR      RR
BBBBBBBBB      AA      AA      SSSSSSSS      VV      VV      EEEEEEEEEE      CCCCCCCC      TT      000000      RR      RR
BBBBBBBBB      AA      AA      SSSSSSSS      VV      VV      EEEEEEEEEE      CCCCCCCC      TT      000000      RR      RR

```

```

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
LLLLLLLLLLL      IIIIII      SSSSSSSS
LLLLLLLLLLL      IIIIII      SSSSSSSS

```

(2) 50
(3) 126

DECLARATIONS
BASRTL Vector

```
0000 1 .TITLE BASSVECTOR - Entry vectors for BASRTL.EXE
0000 2 .IDENT /1-005/ ; File: BASVECTOR.MAR Edit: MDL1005
0000 3
0000 4
0000 5 *****
0000 6 *****
0000 7 * COPYRIGHT (c) 1978, 1980, 1982, 1984 BY *
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0000 20 * CORPORATION. *
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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: Run-Time Library - BASIC Language Support
0000 31 :
0000 32 : ABSTRACT:
0000 33 :
0000 34 : This module contains the entry vector definitions for the
0000 35 : VAX-11 Run-Time Library shareable image BASRTL.EXE
0000 36 :
0000 37 : ENVIRONMENT: User mode, AST Reentrant
0000 38 :
0000 39 : AUTHOR: Steven B. Lionel, CREATION DATE: 29-October-1982
0000 40 :
0000 41 : MODIFIED BY:
0000 42 :
0000 43 : 1-001 - Original. SBL 29-October-1982
0000 44 : 1-002 - add new vectored entry points. MDL 19-May-1983
0000 45 : 1-003 - add entry points overlooked in edit 1-002. MDL 25-May-1983
0000 46 : 1-004 - add BASSANSI_PRINT. MDL 18-Aug-1983
0000 47 : 1-005 - BASSMOVE_TO is an alias for BASSMOVE_BEG, not _END. MDL 14-Sep-1983
0000 48 :--
```

```
0000 50      .SBTTL  DECLARATIONS
0000 51      :
0000 52      : LIBRARY MACRO CALLS:
0000 53      :
0000 54      :     NONE
0000 55      :
0000 56      : EXTERNAL DECLARATIONS:
0000 57      :
0000 58      :     .DSABL  GBL           ; Force all external symbols to be declared
0000 59      :
0000 60      : MACROS:
0000 61      :
0000 62      :
0000 63      :+
0000 64      : Macro to define an entry vector for a CALL entry point
0000 65      :-
0000 66      :
0000 67      : .MACRO  VCALL  NAME, ALTMSK
0000 68      : .EXTRN  NAME
0000 69      : .TRANSFER  NAME
0000 70      : .IF B ALTMSK
0000 71      : .MASK  NAME
0000 72      : .IFF
0000 73      : .MASK  ALTMSK
0000 74      : .ENDC
0000 75      : JMP  NAME+2
0000 76      : .ENDM
0000 77      :
0000 78      :+
0000 79      : Macro to define an entry vector for a JSB entry point
0000 80      :-
0000 81      :
0000 82      : .MACRO  VJSB  NAME
0000 83      : .EXTRN  NAME
0000 84      : .TRANSFER  NAME
0000 85      : JMP  NAME
0000 86      : .BLKB  2
0000 87      : .ENDM
0000 88      :
0000 89      :+
0000 90      : Macro to define an entry vector for a condition handler whose actual
0000 91      : routine address has a different name from the vector entry.
0000 92      :-
0000 93      :
0000 94      : .MACRO  VHANDL  NAME, INTNAME
0000 95      : .EXTRN  INTNAME
0000 96      : .TRANSFER  NAME
0000 97      : NAME::
0000 98      : .MASK  INTNAME
0000 99      : JMP  INTNAME+2
0000 100     : .ENDM
0000 101     :
0000 102     :+
0000 103     : Macro to define an alias for the next vectored entry point
0000 104     :-
0000 105     :
0000 106     : .MACRO  ALIAS  NAME
```

0000	107	.TRANSFER	NAME
0000	108	.ENDM	
0000	109		
0000	110		
0000	111		
0000	112	: EQUATED SYMBOLS:	
0000	113	: :	
0000	114	: NONE	
0000	115	: :	
0000	116	: OWN STORAGE:	
0000	117	: :	
0000	118	: NONE	
0000	119	: :	
0000	120	: PSECT DECLARATIONS:	
0000	121	: :	
00000000	122	.PSECT \$BASSVECTOR	PIC, USR, CON, REL, LCL, SHR, -
0000	123		EXE, RD, NOWRT, LONG
0000	124		

```

0000 126      .SBTTL  BASRTL Vector
0000 127
0000 128 :+
0000 129 : Define vectored entry points for the BASIC Language Support procedures
0000 130 : by module in alphabetical order.
0000 131 :
0000 132 : Any additions to this file should be reflected in
0000 133 : COMS:BASRTLVEC.DAT. All new entry points must be appended to the end
0000 134 : of the list. NEVER change existing entries unless you are sure that
0000 135 : what you do won't break existing programs.
0000 136 :-
0000 137
0000 138 : Module BAS$$CB
0000 139
0000 140      VJSB  BAS$$CB_GET
0008 141      VJSB  BAS$$CB_POP
0010 142      VJSB  BAS$$CB_PUSH
0018 143      VCALL BAS$$NEXT_LUN
0020 144
0020 145 : Module BAS$$EXIT_HANDL
0020 146
0020 147      VCALL  BAS$$CLOSE_ALL
0028 148
0028 149 : Module BAS$$FOR_INT
0028 150
0028 151      VCALL  BAS$$FORMAT_INT
0030 152
0030 153 : Module BAS$$OPEN_ZERO
0030 154
0030 155      VCALL  BAS$$OPEN_ZERO
0038 156
0038 157 : Module BAS$$REC_PROC
0038 158
0038 159      VCALL  BAS$$BLNK_LINE
0040 160      VCALL  BAS$$RECOO_INIT
0048 161      VJSB  BAS$$REC_WSL1
0050 162      VCALL  BAS$$RECOO_INT
0058 163      VCALL  BAS$$WAIT
0060 164
0060 165 : Module BAS$$SIGNAL_IO
0060 166
0060 167      VCALL  BAS$$SIGNAL_IO
0068 168      VCALL  BAS$$STOP_IO
0070 169      VCALL  BAS$$STOP_RMS
0078 170
0078 171 : Module BAS$$UDF_RL
0078 172
0078 173      VCALL  BAS$$UDF_RL1
0080 174
0080 175 : Module BAS$$UDF_WL
0080 176
0080 177      VCALL  BAS$$UDF_WL1
0088 178
0088 179 : Module BAS$$BUFSIZ
0088 180
0088 181      VCALL  BAS$$BUFSIZ
0090 182

```

```
0090 183 ; Module BASSCANTYPAHEAD
0090 184
0090 185      VCALL  BASSCANTYPAHEAD
0098 186
0098 187 ; Module BASSCCPOS
0098 188
0098 189      VCALL  BASSCCPOS
00A0 190
00A0 191 ; Module BASSCHR
00A0 192
00A0 193      VCALL  BASSCHR
00A8 194
00A8 195 ; Module BASSCLOSE
00A8 196
00A8 197      VCALL  BASSCLOSE
00B0 198
00B0 199 ; Module BASSCMP_APPROX
00B0 200
00B0 201      VCALL  BASSCMPD_APP
00B8 202      VCALL  BASSCMPF_APP
00C0 203      VCALL  BASSCMPG_APP
00C8 204      VCALL  BASSCMPH_APP
00D0 205
00D0 206 ; Module BASSCTRLC
00D0 207
00D0 208      VCALL  BASS$CTRLC_INIT
00D8 209      VCALL  BASSCTRLC
00E0 210      VCALL  BASSRCTRLC
00E8 211
00E8 212 ; Module BASSCVT_OUT
00E8 213
00E8 214      VCALL  BASSCVT_OUT_D_E
00F0 215      VCALL  BASSCVT_OUT_D_F
00F8 216      VCALL  BASSCVT_OUT_D_G
0100 217      VCALL  BASSCVT_OUT_F_E
0108 218      VCALL  BASSCVT_OUT_F_F
0110 219      VCALL  BASSCVT_OUT_G_E
0118 220      VCALL  BASSCVT_OUT_G_F
0120 221      VCALL  BASSCVT_OUT_G_G
0128 222      VCALL  BASSCVT_OUT_H_E
0130 223      VCALL  BASSCVT_OUT_H_F
0138 224      VCALL  BASSCVT_OUT_H_G
0140 225      VCALL  BASSCVT_OUT_P_E
0148 226      VCALL  BASSCVT_OUT_P_F
0150 227      VCALL  BASSCVT_OUT_P_G
0158 228
0158 229 ; Module BASSCVT_T_P
0158 230
0158 231      VCALL  BASSCVT_T_P
0160 232
0160 233 ; Module BASSDELETE
0160 234
0160 235      VCALL  BASSDELETE
0168 236
0168 237 ; Module BASS$EDIT
0168 238
0168 239      VCALL  BASS$EDIT
```

```

0170 240
0170 241 ; Module BAS$END
0170 242
0170 243         VJSB    BAS$END_R8
0178 244
0178 245 ; Module BAS$END_DEF
0178 246
0178 247         VJSB    BAS$END_DEF_R8
0180 248
0180 249 ; Module BAS$END_DFS
0180 250
0180 251         VJSB    BAS$END_DFS_R8
0188 252
0188 253 ; Module BAS$END_GSB
0188 254
0188 255         VJSB    BAS$END_GSB_R8
0190 256
0190 257 ; Module BAS$ERROR
0190 258
0190 259         VCALL    BAS$ERR_INIT
0198 260         VCALL    BAS$$SIGNAL
01A0 261         VCALL    BAS$$STOP
01A8 262         VCALL    BAS$ERL
01B0 263         VCALL    BAS$ERN
01B8 264         VCALL    BAS$ERR
01C0 265         VCALL    BAS$ERROR
01C8 266         VCALL    BAS$ERT
01D0 267         VCALL    BAS$ON_ERR_BK
01D8 268         VCALL    BAS$ON_ERR_Z
01E0 269         VCALL    BAS$POP_ERR
01E8 270         VCALL    BAS$PUSH_ERR
01F0 271         VCALL    BAS$RESUME
01F8 272         VCALL    BAS$RESUME_Z
0200 273
0200 274 ; Module BAS$FIND
0200 275
0200 276         VCALL    BAS$FIND
0208 277         VCALL    BAS$FIND_KEY
0210 278         VCALL    BAS$FIND_RECORD
0218 279         VCALL    BAS$FIND_RFA
0220 280
0220 281 ; Module BAS$FREE
0220 282
0220 283         VCALL    BAS$FREE
0228 284
0228 285 ; Module BAS$GET
0228 286
0228 287         VCALL    BAS$GET
0230 288         VCALL    BAS$GET_KEY
0238 289         VCALL    BAS$GET_RECORD
0240 290         VCALL    BAS$GET_RFA
0248 291
0248 292 ; Module BAS$GETRFA
0248 293
0248 294         VCALL    BAS$GETRFA
0250 295
0250 296 ; Module BAS$HANDLER

```

```
0250 297
0250 298          VHANDL  BASSHANDLER  BASS$HANDLER
0258 299
0258 300 ; Module BASS$INIT
0258 301
0258 302          VJSB    BASS$INIT_R8
0260 303
0260 304 ; Module BASS$INIT_DEF
0260 305
0260 306          VJSB    BASS$INIT_DEF_R8
0268 307
0268 308 ; Module BASS$INIT_DFS
0268 309
0268 310          VJSB    BASS$INIT_DFS_R8
0270 311
0270 312 ; Module BASS$INIT_GOSUB
0270 313
0270 314          VCALL   BASS$INIT_GOSUB
0278 315
0278 316 ; Module BASS$INSTR
0278 317
0278 318          VCALL   BASS$INSTR
0280 319
0280 320 ; Module BASS$IO_BEG
0280 321
0280 322          VCALL   BASS$ANSI_INPUT
0288 323          VCALL   BASS$INPUT
0290 324          VCALL   BASS$INPUT_LINE
0298 325          VCALL   BASS$INPUT
02A0 326          VCALL   BASS$MAT_INPUT
02A8 327          VCALL   BASS$MAT_LINPUT
02B0 328          VCALL   BASS$MAT_PRINT
02B8 329          VCALL   BASS$MAT_READ
02C0 330          VCALL   BASS$PRINT
02C8 331          VCALL   BASS$PRINT_USING
02D0 332          VCALL   BASS$READ
02D8 333
02D8 334 ; Module BASS$IO_END
02D8 335
02D8 336          VCALL   BASS$ANSI_IO_END
02E0 337          VCALL   BASS$IO_END
02E8 338
02E8 339 ; Module BASS$NUM
02E8 340
02E8 341          VCALL   BASS$NUM_D
02F0 342          VCALL   BASS$NUM_F
02F8 343          VCALL   BASS$NUM_G
0300 344          VCALL   BASS$NUM_H
0308 345          VCALL   BASS$NUM_L
0310 346          VCALL   BASS$NUM_P
0318 347
0318 348 ; Module BASS$NUM1
0318 349
0318 350          VCALL   BASS$NUM1_D
0320 351          VCALL   BASS$NUM1_F
0328 352          VCALL   BASS$NUM1_G
0330 353          VCALL   BASS$NUM1_H
```

```
0338 354          VCALL  BAS$NUM1_L
0340 355          VCALL  BAS$NUM1_P
0348 356
0348 357 : Module BAS$OPEN
0348 358
0348 359          VCALL  BAS$$STATU_INIT
0350 360          VCALL  BAS$OPEN
0358 361          VCALL  BAS$STATUS
0360 362
0360 363 : Module BAS$PUT
0360 364
0360 365          VCALL  BAS$PUT
0368 366          VCALL  BAS$PUT_COUNT
0370 367          VCALL  BAS$PUT_RECORD
0378 368          VCALL  BAS$PUT_REC_CNT
0380 369
0380 370 : Module BAS$RESTORE
0380 371
0380 372          VCALL  BAS$RESTORE
0388 373          VCALL  BAS$RESTORE_DAT
0390 374          VCALL  BAS$RESTORE_KEY
0398 375
0398 376 : Module BAS$RSET
0398 377
0398 378          VCALL  BAS$RSET
03A0 379          VCALL  BAS$RSET_R
03A8 380
03A8 381 : Module BAS$SCALE
03A8 382
03A8 383          VJSB   BAS$$SCALE_L_R1
03B0 384          VJSB   BAS$$SCALE_RT
03B8 385          VJSB   BAS$SCALE_D_R1
03C0 386          VJSB   BAS$SCALE_D_R1
03C8 387
03C8 388 : Module BAS$SCRATCH
03C8 389
03C8 390          VCALL  BAS$SCRATCH
03D0 391
03D0 392 : Module BAS$STR
03D0 393
03D0 394          VCALL  BAS$STR_D
03D8 395          VCALL  BAS$STR_F
03E0 396          VCALL  BAS$STR_G
03E8 397          VCALL  BAS$STR_H
03F0 398          VCALL  BAS$STR_L
03F8 399          VCALL  BAS$STR_P
0400 400
0400 401 : Module BAS$UNLOCK
0400 402
0400 403          VCALL  BAS$UNLOCK
0408 404
0408 405 : Module BAS$UPDATE
0408 406
0408 407          VCALL  BAS$UPDATE
0410 408          VCALL  BAS$UPDATE_COUN
0418 409
0418 410 : Module BAS$UPI_TERM_IO
```

```
0418 411
0418 412 VCALL BASSIN_B_R
0420 413 VCALL BASSIN_D_R
0428 414 VCALL BASSIN_F_R
0430 415 VCALL BASSIN_G_R
0438 416 VCALL BASSIN_H_R
0440 417 VCALL BASSIN_L_R
0448 418 VCALL BASSIN_P_DX
0450 419 VCALL BASSIN_T_DX
0458 420 VCALL BASSIN_W_R
0460 421 VCALL BASSOUT_D_V_B
0468 422 VCALL BASSOUT_D_V_C
0470 423 VCALL BASSOUT_D_V_S
0478 424 VCALL BASSOUT_F_V_B
0480 425 VCALL BASSOUT_F_V_C
0488 426 VCALL BASSOUT_F_V_S
0490 427 VCALL BASSOUT_G_V_B
0498 428 VCALL BASSOUT_G_V_C
04A0 429 VCALL BASSOUT_G_V_S
04A8 430 VCALL BASSOUT_H_V_B
04B0 431 VCALL BASSOUT_H_V_C
04B8 432 VCALL BASSOUT_H_V_S
04C0 433 VCALL BASSOUT_L_V_B
04C8 434 VCALL BASSOUT_L_V_C
04D0 435 VCALL BASSOUT_L_V_S
04D8 436 VCALL BASSOUT_P_DX_B
04E0 437 VCALL BASSOUT_P_DX_C
04E8 438 VCALL BASSOUT_P_DX_S
04F0 439 VCALL BASSOUT_T_DX_B
04F8 440 VCALL BASSOUT_T_DX_C
0500 441 VCALL BASSOUT_T_DX_S
0508 442
0508 443 ; Module BASSVAL
0508 444
0508 445 VCALL BASSVAL_D
0510 446 VCALL BASSVAL_F
0518 447 VCALL BASSVAL_G
0520 448 VCALL BASSVAL_H
0528 449 VCALL BASSVAL_L
0530 450 VCALL BASSVAL_P
0538 451
0538 452 ;+
0538 453 ; modules added in edit 1-002 start here.
0538 454 ;-
0538 455
0538 456 ; Module BASSCHAIN
0538 457
0538 458 VCALL BASSCHAIN
0540 459
0540 460 ; Module BASSCHANGE
0540 461
0540 462 VCALL BASSCHANGE_NA_S
0548 463 VCALL BASSCHANGE_S_NA
0550 464
0550 465 ; Module BASSCONCAT
0550 466
0550 467 VCALL BASSCONCAT
```

```
0558 468  
0558 469 ; Module BAS$CTRL0  
0558 470  
0558 471          VCALL  BAS$CTRL0  
0560 472          VCALL  BAS$RCTRL0  
0568 473  
0568 474 ; Module BAS$CVTRP  
0568 475  
0568 476          VCALL  BAS$CVTRDP  
0570 477          VCALL  BAS$CVTRFP  
0578 478          VCALL  BAS$CVTRGP  
0580 479          VCALL  BAS$CVTRHP  
0588 480          VCALL  BAS$CVTRPD  
0590 481          VCALL  BAS$CVTRPF  
0598 482          VCALL  BAS$CVTRPG  
05A0 483          VCALL  BAS$CVTRPH  
05A8 484          VCALL  BAS$CVTRRDP  
05B0 485          VCALL  BAS$CVTRRFP  
05B8 486          VCALL  BAS$CVTRRGP  
05C0 487          VCALL  BAS$CVTRRHP  
05C8 488  
05C8 489 ; Module BAS$DATE_TIME  
05C8 490  
05C8 491          VCALL  BAS$DATE_T  
05D0 492          VCALL  BAS$TIME_F  
05D8 493          VCALL  BAS$TIME_T  
05E0 494  
05E0 495 ; Module BAS$DET  
05E0 496  
05E0 497          VCALL  BAS$DET_D  
05E8 498          VCALL  BAS$DET_F  
05F0 499          VCALL  BAS$DET_G  
05F8 500          VCALL  BAS$DET_H  
0600 501  
0600 502 ; Module BAS$ECHO  
0600 503  
0600 504          VCALL  BAS$ECHO  
0608 505          VCALL  BAS$NOECHO  
0610 506  
0610 507 ; Module BAS$EXTEND_DIVP  
0610 508  
0610 509          VCALL  BAS$EXTEND_DIVP  
0618 510  
0618 511 ; Module BAS$EXTEND_MULP  
0618 512  
0618 513          VCALL  BAS$EXTEND_MULP  
0620 514  
0620 515 ; Module BAS$FETCH_ADDR  
0620 516  
0620 517          VCALL  BAS$FETCH_ADDR  
0628 518  
0628 519 ; Module BAS$FETCH_DESC  
0628 520  
0628 521          VCALL  BAS$FETCH_DESC  
0630 522  
0630 523 ; Module BAS$FORMAT  
0630 524
```

```

0630 525      VCALL  BAS$FORMAT_D
0638 526      VCALL  BAS$FORMAT_F
0640 527      VCALL  BAS$FORMAT_G
0648 528      VCALL  BAS$FORMAT_H
0650 529      VCALL  BAS$FORMAT_P
0658 530      VCALL  BAS$FORMAT_T
0660 531
0660 532 : Module BAS$FSP
0660 533
0660 534      VCALL  BAS$FSP
0668 535
0668 536 : Module BAS$INIT_C_GSB
0668 537
0668 538      VCALL  BAS$INIT_C_GSB
0670 539
0670 540 : Module BAS$INIT_IOL
0670 541
0670 542      VCALL  BAS$INIT_IOL
0678 543
0678 544 : Module BAS$INIT_ONER
0678 545
0678 546      VCALL  BAS$INIT_ONERR
0680 547
0680 548 : Module BAS$KILL
0680 549
0680 550      VCALL  BAS$KILL
0688 551
0688 552 : Module BAS$LEFT
0688 553
0688 554      VCALL  BAS$LEFT
0690 555
0690 556 : Module BAS$MAGTAPE
0690 557
0690 558      VCALL  BAS$MAGTAPE
0698 559
0698 560 : Module BAS$MARGIN
0698 561
0698 562      VCALL  BAS$MARGIN
06A0 563      VCALL  BAS$NOMARGIN
06A8 564
06A8 565 : Module BAS$MAT_IO
06A8 566
06A8 567      VCALL  BAS$IN_MAT
06B0 568      VCALL  BAS$NUM
06B8 569      VCALL  BAS$NUM2
06C0 570      VCALL  BAS$OUT_MAT_B
06C8 571      VCALL  BAS$OUT_MAT_C
06D0 572      VCALL  BAS$OUT_MAT_S
06D8 573
06D8 574 : Module BAS$MID
06D8 575
06D8 576      VCALL  BAS$MID
06E0 577
06E0 578 : Module BAS$MOVE
06E0 579
06E0 580      ALIAS  BAS$MOVE_FROM
06E0 581      ALIAS  BAS$MOVE_TO

```

```
06E0 582          VCALL  BAS$MOVE_BEG
06E8 583          VCALL  BAS$MOVE_END
06F0 584
06F0 585 ; Module BAS$MOVE_ARRAY
06F0 586
06F0 587          VCALL  BAS$MOVE_ARRAY
06F8 588
06F8 589 ; Module BAS$NAME_AS
06F8 590
06F8 591          VCALL  BAS$NAME_AS
0700 592
0700 593 ; Module BAS$POS
0700 594
0700 595          VCALL  BAS$POS
0708 596
0708 597 ; Module BAS$POWDD
0708 598
0708 599          VCALL  BAS$POWDD,OTSS$POWDD
0710 600
0710 601 ; Module BAS$POWDJ
0710 602
0710 603          VCALL  BAS$POWDJ,OTSS$POWDJ
0718 604
0718 605 ; Module BAS$POWDR
0718 606
0718 607          VCALL  BAS$POWDR,OTSS$POWDR
0720 608
0720 609 ; Module BAS$POWGG
0720 610
0720 611          VCALL  BAS$POWGG,OTSS$POWGG
0728 612
0728 613 ; Module BAS$POWGJ
0728 614
0728 615          VCALL  BAS$POWGJ,OTSS$POWGJ
0730 616
0730 617 ; Module BAS$POWHH
0730 618
0730 619          VCALL  BAS$POWHH,OTSS$POWHH_R3
0738 620
0738 621 ; Module BAS$POWHJ
0738 622
0738 623          VCALL  BAS$POWHJ,OTSS$POWHJ_R3
0740 624
0740 625 ; Module BAS$POWII
0740 626
0740 627          VCALL  BAS$POWII,OTSS$POWII
0748 628
0748 629 ; Module BAS$POWJJ
0748 630
0748 631          VCALL  BAS$POWJJ,OTSS$POWJJ
0750 632
0750 633 ; Module BAS$POWRD
0750 634
0750 635          VCALL  BAS$POWRD,OTSS$POWRD
0758 636
0758 637 ; Module BAS$POWRJ
0758 638
```

```
0758 639          VCALL  BAS$POWRJ,OTSS$POWRJ
0760 640
0760 641 ; Module BAS$POWRR
0760 642
0760 643          VCALL  BAS$POWRR,OTSS$POWRR
0768 644
0768 645 ; Module BAS$RAD50
0768 646
0768 647          ALIAS  BAS$RAD
0768 648          VCALL  BAS$RAD50
0770 649
0770 650 ; Module BAS$RANDOM
0770 651
0770 652          VCALL  BAS$RANDOMIZE
0778 653          VJSB   BAS$RND_F_R1
0780 654
0780 655 ; Module BAS$REMAP_ARRAY
0780 656
0780 657          VCALL  BAS$REMAP_ARRAY
0788 658
0788 659 ; Module BAS$RIGHT
0788 660
0788 661          VCALL  BAS$RIGHT
0790 662
0790 663 ; Module BAS$RSTS_FIELD
0790 664
0790 665          VCALL  BAS$FIELD_CLEAR
0798 666          VCALL  BAS$FIELD_CLOSE
07A0 667          VCALL  BAS$FIELD_COPY
07A8 668          VCALL  BAS$FIELD_COPY_R
07B0 669          VCALL  BAS$FIELD_OPEN
07B8 670          VCALL  BAS$FIELD_PURGE
07C0 671          VCALL  BAS$FIELD_SET
07C8 672
07C8 673 ; Module BAS$RT_DIM
07C8 674
07C8 675          VCALL  BAS$RT_DIM
07D0 676
07D0 677 ; Module BAS$RUN_INIT
07D0 678
07D0 679          VCALL  BAS$RUN_INIT
07D8 680
07D8 681 ; Module BAS$SARITH
07D8 682
07D8 683          VCALL  BAS$COMP
07E0 684          VCALL  BAS$DIF
07E8 685          VCALL  BAS$PLACE
07F0 686          VCALL  BAS$PROD
07F8 687          VCALL  BAS$QUO
0800 688          VCALL  BAS$SUM
0808 689
0808 690 ; Module BAS$SEG
0808 691
0808 692          VCALL  BAS$SEG
0810 693
0810 694 ; Module BAS$SLEEP
0810 695
```

```

0810 696          VCALL  BAS$SLEEP
0818 697
0818 698 ; Module BAS$STOP
0818 699
0818 700          VCALL  BAS$STOP
0820 701
0820 702 ; Module BAS$STRING
0820 703
0820 704          VCALL  BAS$STRING
0828 705
0828 706 ; Module BAS$TAB
0828 707
0828 708          VCALL  BAS$ANSI_TAB
0830 709          VCALL  BAS$TAB
0838 710
0838 711 ; Module BAS$TRM
0838 712
0838 713          VCALL  BAS$TRM
0840 714
0840 715 ; Module BAS$VIRTUAL_ARR
0840 716
0840 717          VCALL  BAS$FETCH_BFA
0848 718          VJSB   BAS$FET_FA_B_R8
0850 719          VJSB   BAS$FET_FA_D_R8
0858 720          VJSB   BAS$FET_FA_F_R8
0860 721          VJSB   BAS$FET_FA_G_R8
0868 722          VJSB   BAS$FET_FA_H_R8
0870 723          VJSB   BAS$FET_FA_L_R8
0878 724          VJSB   BAS$FET_FA_W_R8
0880 725          VCALL  BAS$STORE_BFA
0888 726          VCALL  BAS$STORE_BFA_OFF
0890 727          VJSB   BAS$STO_FA_B_R8
0898 728          VJSB   BAS$STO_FA_D_R8
08A0 729          VJSB   BAS$STO_FA_F_R8
08A8 730          VJSB   BAS$STO_FA_G_R8
08B0 731          VJSB   BAS$STO_FA_H_R8
08B8 732          VJSB   BAS$STO_FA_L_R8
08C0 733          VCALL  BAS$STO_FA_RDX
08C8 734          VJSB   BAS$STO_FA_W_R8
08D0 735
08D0 736 ; Module BAS$XLATE
08D0 737
08D0 738          VCALL  BAS$XLATE
08D8 739
08D8 740 ; Module BAS$ERROR, additional
08D8 741
08D8 742          VCALL  BAS$$HANDLER
08E0 743
08E0 744 ;+
08E0 745 ; modules added in edit 1-002 end here.
08E0 746 ; -
08E0 747
08E0 748 ;+
08E0 749 ; 1-003 start
08E0 750 ; -
08E0 751
08E0 752 ; Module BAS$DET

```


BASSVECTOR
Symbol table

- Entry vectors for BASRTL.EXE

J 10

15-SEP-1984 23:36:41 VAX/VMS Macro V04-00
6-SEP-1984 10:39:49 [BASRTL.SRC]BASVECTOR.MAR;1

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BASS\$BLNK_LINE	*****	X	01	BASSCVTRGP	*****	X	01
BASS\$CB_GET	*****	X	01	BASSCVTRHP	*****	X	01
BASS\$CB_POP	*****	X	01	BASSCVT_OUT_D_E	*****	X	01
BASS\$CB_PUSH	*****	X	01	BASSCVT_OUT_D_F	*****	X	01
BASS\$CLOSE_ALL	*****	X	01	BASSCVT_OUT_D_G	*****	X	01
BASS\$CTRLC_INIT	*****	X	01	BASSCVT_OUT_F_E	*****	X	01
BASS\$ERR_INIT	*****	X	01	BASSCVT_OUT_F_F	*****	X	01
BASS\$FORMAT_INT	*****	X	01	BASSCVT_OUT_G_E	*****	X	01
BASS\$HANDLER	*****	X	01	BASSCVT_OUT_G_F	*****	X	01
BASS\$NEXT_LUN	*****	X	01	BASSCVT_OUT_G_G	*****	X	01
BASS\$OPEN_ZERO	*****	X	01	BASSCVT_OUT_H_E	*****	X	01
BASS\$RECO_INIT	*****	X	01	BASSCVT_OUT_H_F	*****	X	01
BASS\$REC_WSL1	*****	X	01	BASSCVT_OUT_H_G	*****	X	01
BASS\$SCALE_L_R1	*****	X	01	BASSCVT_OUT_P_E	*****	X	01
BASS\$SCALE_RT	*****	X	01	BASSCVT_OUT_P_F	*****	X	01
BASS\$SIGNAL	*****	X	01	BASSCVT_OUT_P_G	*****	X	01
BASS\$SIGNAL_IO	*****	X	01	BASSCVT_T_P	*****	X	01
BASS\$STATU_INIT	*****	X	01	BASSDATE_T	*****	X	01
BASS\$STOP	*****	X	01	BASSDELETE	*****	X	01
BASS\$STOP_IO	*****	X	01	BASSDET_D	*****	X	01
BASS\$STOP_RMS	*****	X	01	BASSDET_F	*****	X	01
BASS\$STORE_DET	*****	X	01	BASSDET_G	*****	X	01
BASS\$STORE_DET_G	*****	X	01	BASSDET_H	*****	X	01
BASS\$STORE_DET_H	*****	X	01	BASSDIF	*****	X	01
BASS\$UDF_RC1	*****	X	01	BASS\$SCALE_D_R1	*****	X	01
BASS\$UDF_WL1	*****	X	01	BASSECHO	*****	X	01
BASS\$UNWIND	*****	X	01	BASSEDIT	*****	X	01
BASSANSI_INPUT	*****	X	01	BASSEND_DEF_R8	*****	X	01
BASSANSI_IO_END	*****	X	01	BASSEND_DFS_R8	*****	X	01
BASSANSI_PRINT	*****	X	01	BASSEND_GSB_R8	*****	X	01
BASSANSI_TAB	*****	X	01	BASSEND_R8	*****	X	01
BASS\$BUF\$IZ	*****	X	01	BASSERL	*****	X	01
BASSCANTYPAHEAD	*****	X	01	BASSERN	*****	X	01
BASSCCPOS	*****	X	01	BASSERR	*****	X	01
BASSCHAIN	*****	X	01	BASSERROR	*****	X	01
BASSCHANGE_NA_S	*****	X	01	BASSERT	*****	X	01
BASSCHANGE_S_NA	*****	X	01	BASSEXTEND_DIVP	*****	X	01
BASSCHR	*****	X	01	BASSEXTEND_MULP	*****	X	01
BASSCLOSE	*****	X	01	BASSFETCH_ADDR	*****	X	01
BASSCMPD_APP	*****	X	01	BASSFETCH_BFA	*****	X	01
BASSCMPF_APP	*****	X	01	BASSFETCH_DESC	*****	X	01
BASSCMPG_APP	*****	X	01	BASSFET_FA_B_R8	*****	X	01
BASSCMPH_APP	*****	X	01	BASSFET_FA_D_R8	*****	X	01
BASSCOMP	*****	X	01	BASSFET_FA_F_R8	*****	X	01
BASSCONCAT	*****	X	01	BASSFET_FA_G_R8	*****	X	01
BASSCTRLC	*****	X	01	BASSFET_FA_H_R8	*****	X	01
BASSCTRLO	*****	X	01	BASSFET_FA_L_R8	*****	X	01
BASSCVTDP	*****	X	01	BASSFET_FA_W_R8	*****	X	01
BASSCVTFP	*****	X	01	BASSFIELD_CLEAR	*****	X	01
BASSCVTGP	*****	X	01	BASSFIELD_CLOSE	*****	X	01
BASSCVTHP	*****	X	01	BASSFIELD_COPY	*****	X	01
BASSCVTPD	*****	X	01	BASSFIELD_COP_R	*****	X	01
BASSCVTPF	*****	X	01	BASSFIELD_OPEN	*****	X	01
BASSCVTPG	*****	X	01	BASSFIELD_PURGE	*****	X	01
BASSCVTPH	*****	X	01	BASSFIELD_SET	*****	X	01
BASSCVTRDP	*****	X	01	BASSFIND	*****	X	01
BASSCVTRFP	*****	X	01	BASSFIND_KEY	*****	X	01

BASSVECTOR
Symbol table

- Entry vectors for BASRTL.EXE K 10

BASSFIND_RECORD	*****	X	01	BASSNUM1_H	*****	X	01
BASSFIND_RFA	*****	X	01	BASSNUM1_L	*****	X	01
BASSFORMAT_D	*****	X	01	BASSNUM1_P	*****	X	01
BASSFORMAT_F	*****	X	01	BASSNUM2	*****	X	01
BASSFORMAT_G	*****	X	01	BASSNUM_D	*****	X	01
BASSFORMAT_H	*****	X	01	BASSNUM_F	*****	X	01
BASSFORMAT_P	*****	X	01	BASSNUM_G	*****	X	01
BASSFORMAT_T	*****	X	01	BASSNUM_H	*****	X	01
BASSFREE	*****	X	01	BASSNUM_L	*****	X	01
BASSFSP	*****	X	01	BASSNUM_P	*****	X	01
BASSGET	*****	X	01	BASSON_ERR_BK	*****	X	01
BASSGETRFA	*****	X	01	BASSON_ERR_Z	*****	X	01
BASSGET_KEY	*****	X	01	BASSOPEN	*****	X	01
BASSGET_RECORD	*****	X	01	BASSOUT_D_V_B	*****	X	01
BASSGET_RFA	*****	X	01	BASSOUT_D_V_C	*****	X	01
BASSHANDLER	00000250	RG	01	BASSOUT_D_V_S	*****	X	01
BASSINIT_C_GSB	*****	X	01	BASSOUT_F_V_B	*****	X	01
BASSINIT_DEF_R8	*****	X	01	BASSOUT_F_V_C	*****	X	01
BASSINIT_DFS_R8	*****	X	01	BASSOUT_F_V_S	*****	X	01
BASSINIT_GOSUB	*****	X	01	BASSOUT_G_V_B	*****	X	01
BASSINIT_IOL	*****	X	01	BASSOUT_G_V_C	*****	X	01
BASSINIT_ONERR	*****	X	01	BASSOUT_G_V_S	*****	X	01
BASSINIT_R8	*****	X	01	BASSOUT_H_V_B	*****	X	01
BASSINPUT	*****	X	01	BASSOUT_H_V_C	*****	X	01
BASSINPUT_LINE	*****	X	01	BASSOUT_H_V_S	*****	X	01
BASSINSTR	*****	X	01	BASSOUT_L_V_B	*****	X	01
BASSIN_B_R	*****	X	01	BASSOUT_L_V_C	*****	X	01
BASSIN_D_R	*****	X	01	BASSOUT_L_V_S	*****	X	01
BASSIN_F_R	*****	X	01	BASSOUT_MAT_B	*****	X	01
BASSIN_G_R	*****	X	01	BASSOUT_MAT_C	*****	X	01
BASSIN_H_R	*****	X	01	BASSOUT_MAT_S	*****	X	01
BASSIN_L_R	*****	X	01	BASSOUT_P_DX_B	*****	X	01
BASSIN_MAT	*****	X	01	BASSOUT_P_DX_C	*****	X	01
BASSIN_P_DX	*****	X	01	BASSOUT_P_DX_S	*****	X	01
BASSIN_T_DX	*****	X	01	BASSOUT_T_DX_B	*****	X	01
BASSIN_W_R	*****	X	01	BASSOUT_T_DX_C	*****	X	01
BASSIO_END	*****	X	01	BASSOUT_T_DX_S	*****	X	01
BASSKILL	*****	X	01	BASSPLACE	*****	X	01
BASSLEFT	*****	X	01	BASSPOP_ERR	*****	X	01
BASSLINPUT	*****	X	01	BASSPOS	*****	X	01
BASSMAGTAPE	*****	X	01	BASSPOWDD	*****	X	01
BASSMARGIN	*****	X	01	BASSPOWDJ	*****	X	01
BASSMAT_INPUT	*****	X	01	BASSPOWDR	*****	X	01
BASSMAT_LINPUT	*****	X	01	BASSPOWGG	*****	X	01
BASSMAT_PRINT	*****	X	01	BASSPOWGJ	*****	X	01
BASSMAT_READ	*****	X	01	BASSPOWHH	*****	X	01
BASSMID	*****	X	01	BASSPOWHJ	*****	X	01
BASSMOVE_ARRAY	*****	X	01	BASSPOWII	*****	X	01
BASSMOVE_BEG	*****	X	01	BASSPOWJJ	*****	X	01
BASSMOVE_END	*****	X	01	BASSPOWRD	*****	X	01
BASSNAME_AS	*****	X	01	BASSPOWRJ	*****	X	01
BASSNOECHO	*****	X	01	BASSPOWRR	*****	X	01
BASSNOMARGIN	*****	X	01	BASSPRINT	*****	X	01
BASSNUM	*****	X	01	BASSPRINT_USING	*****	X	01
BASSNUM1_D	*****	X	01	BASSPROD	*****	X	01
BASSNUM1_F	*****	X	01	BASSPUSH_ERR	*****	X	01
BASSNUM1_G	*****	X	01	BASSPUT	*****	X	01

BAS\$VECTOR
Symbol table

- Entry vectors for BASRTL.EXE L 10

BAS\$PUT_COUNT	*****	X	01
BAS\$PUT_RECORD	*****	X	01
BAS\$PUT_REC_CNT	*****	X	01
BAS\$QUO	*****	X	01
BAS\$RAD50	*****	X	01
BAS\$RANDOMIZE	*****	X	01
BAS\$RCTRLC	*****	X	01
BAS\$RCTRL0	*****	X	01
BAS\$READ	*****	X	01
BAS\$RECOUNT	*****	X	01
BAS\$REMAP_ARRAY	*****	X	01
BAS\$RESTORE	*****	X	01
BAS\$RESTORE_DAT	*****	X	01
BAS\$RESTORE_KEY	*****	X	01
BAS\$RESUME	*****	X	01
BAS\$RESUME_Z	*****	X	01
BAS\$RIGHT	*****	X	01
BAS\$RND_F_R1	*****	X	01
BAS\$RSET	*****	X	01
BAS\$RSET_R	*****	X	01
BAS\$RT_DIM	*****	X	01
BAS\$RUN_INIT	*****	X	01
BAS\$SCALE_D_R1	*****	X	01
BAS\$SCRATCH	*****	X	01
BAS\$SEG	*****	X	01
BAS\$SLEEP	*****	X	01
BAS\$STATUS	*****	X	01
BAS\$STOP	*****	X	01
BAS\$STORE_BFA	*****	X	01
BAS\$STORE_BFA_OFF	*****	X	01
BAS\$STO_FA_B_R8	*****	X	01
BAS\$STO_FA_D_R8	*****	X	01
BAS\$STO_FA_F_R8	*****	X	01
BAS\$STO_FA_G_R8	*****	X	01
BAS\$STO_FA_H_R8	*****	X	01
BAS\$STO_FA_L_R8	*****	X	01
BAS\$STO_FA_RDX	*****	X	01
BAS\$STO_FA_W_R8	*****	X	01
BAS\$STRING	*****	X	01
BAS\$STR_D	*****	X	01
BAS\$STR_F	*****	X	01
BAS\$STR_G	*****	X	01
BAS\$STR_H	*****	X	01
BAS\$STR_L	*****	X	01
BAS\$STR_P	*****	X	01
BAS\$SUM	*****	X	01
BAS\$TAB	*****	X	01
BAS\$TIME_F	*****	X	01
BAS\$TIME_T	*****	X	01
BAS\$TRM	*****	X	01
BAS\$UNLOCK	*****	X	01
BAS\$UPDATE	*****	X	01
BAS\$UPDATE_COUN	*****	X	01
BAS\$VAL_D	*****	X	01
BAS\$VAL_F	*****	X	01
BAS\$VAL_G	*****	X	01
BAS\$VAL_H	*****	X	01

BAS\$VAL_L	*****	X	01
BAS\$VAL_P	*****	X	01
BAS\$WAIT	*****	X	01
BAS\$XLATE	*****	X	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			
\$BAS\$VECTOR	00000908 (2312.)	01 (1.)	PIC USR	CON	REL	LCL	SHR	EXE	RD	NOWRT	NOVEC	LONG			

! Performance indicators !

Phase	Page faults	CPU Time	Elapsed Time
Initialization	41	00:00:00.11	00:00:00.77
Command processing	116	00:00:00.57	00:00:04.37
Pass 1	132	00:00:06.09	00:00:07.15
Symbol table sort	0	00:00:00.38	00:00:00.40
Pass 2	146	00:00:02.28	00:00:02.82
Symbol table output	33	00:00:00.20	00:00:00.23
Psect synopsis output	2	00:00:00.02	00:00:00.02
Cross-reference output	0	00:00:00.00	00:00:00.00
Assembler run totals	470	00:00:09.67	00:00:15.76

The working set limit was 1200 pages.
33827 bytes (67 pages) of virtual memory were used to buffer the intermediate code.
There were 20 pages of symbol table space allocated to hold 289 non-local and 0 local symbols.
783 source lines were read in Pass 1, producing 50 object records in Pass 2.
4 pages of virtual memory were used to define 4 macros.

! Macro library statistics !

Macro library name	Macros defined
_\$255\$DUA28:[SYSLIB]STARLET.MLB;2	0

0 GETS were required to define 0 macros.

There were no errors, warnings or information messages.

MACRO/ENABLE=SUPPRESSION/LIS=LIS\$:BASVECTOR/OBJ=OBJ\$:BASVECTOR MSRC\$:BASVECTOR/UPDATE=(ENH\$:BASVECTOR)

0033 AH-BT13A-SE
VAX/VMS V4.0

DIGITAL EQUIPMENT CORPORATION
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The image displays a grid of 100 terminal windows, each showing a different software interface or data screen. The windows are arranged in a 10x10 grid. Some windows have titles like 'BASUFWL LIS', 'BASUNLOCK LIS', 'BASVECTOR LIS', 'BASVAL LIS', 'BASVRTIO LIS', 'BASUNWIND LIS', 'BASUPDATE LIS', and 'BASVECTR2 LIS'. The content of the windows varies, showing text-based data, tables, and command-line prompts.