



```

BBBBBBBB      AAAAAA      DDDDDDDD      DDDDDDDD      AAAAAA      TTTTTTTTTT      AAAAAA
BBBBBBBB      AAAAAA      DDDDDDDD      DDDDDDDD      AAAAAA      TTTTTTTTTT      AAAAAA
BB      BB      AA      AA      DD      DD      DD      DD      AA      AA      TT      AA      AA
BB      BB      AA      AA      DD      DD      DD      DD      AA      AA      TT      AA      AA
BB      BB      AA      AA      DD      DD      DD      DD      AA      AA      TT      AA      AA
BB      BB      AA      AA      DD      DD      DD      DD      AA      AA      TT      AA      AA
BBBBBBBB      AA      AA      DD      DD      DD      DD      AA      AA      TT      AA      AA
BBBBBBBB      AA      AA      DD      DD      DD      DD      AA      AA      TT      AA      AA
BB      BB      AAAAAAAAAA      DD      DD      DD      DD      AAAAAAAAAA      TT      AAAAAAAAAA
BB      BB      AAAAAAAAAA      DD      DD      DD      DD      AAAAAAAAAA      TT      AAAAAAAAAA
BB      BB      AA      AA      DD      DD      DD      DD      AA      AA      TT      AA      AA
BB      BB      AA      AA      DD      DD      DD      DD      AA      AA      TT      AA      AA
BBBBBBBB      AA      AA      DDDDDDDD      DDDDDDDD      AA      AA      TT      AA      AA
BBBBBBBB      AA      AA      DDDDDDDD      DDDDDDDD      AA      AA      TT      AA      AA

```

```

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

```

```

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

```

```

1 0001 0 MODULE baddata (%TITLE 'Analyze/Media Data Storage Declarations'
2 0002 0 IDENT='V04-000') =
3 0003 1 BEGIN
4 0004 1 *****
5 0005 1 *
6 0006 1 * COPYRIGHT (c) 1978, 1980, 1982, 1984 BY
7 0007 1 * DIGITAL EQUIPMENT CORPORATION, MAYNARD, MASSACHUSETTS.
8 0008 1 * ALL RIGHTS RESERVED.
9 0009 1 *
10 0010 1 * THIS SOFTWARE IS FURNISHED UNDER A LICENSE AND MAY BE USED AND COPIED
11 0011 1 * ONLY IN ACCORDANCE WITH THE TERMS OF SUCH LICENSE AND WITH THE
12 0012 1 * INCLUSION OF THE ABOVE COPYRIGHT NOTICE. THIS SOFTWARE OR ANY OTHER
13 0013 1 * COPIES THEREOF MAY NOT BE PROVIDED OR OTHERWISE MADE AVAILABLE TO ANY
14 0014 1 * OTHER PERSON. NO TITLE TO AND OWNERSHIP OF THE SOFTWARE IS HEREBY
15 0015 1 * TRANSFERRED.
16 0016 1 *
17 0017 1 * THE INFORMATION IN THIS SOFTWARE IS SUBJECT TO CHANGE WITHOUT NOTICE
18 0018 1 * AND SHOULD NOT BE CONSTRUED AS A COMMITMENT BY DIGITAL EQUIPMENT
19 0019 1 * CORPORATION.
20 0020 1 *
21 0021 1 * DIGITAL ASSUMES NO RESPONSIBILITY FOR THE USE OR RELIABILITY OF ITS
22 0022 1 * SOFTWARE ON EQUIPMENT WHICH IS NOT SUPPLIED BY DIGITAL.
23 0023 1 *
24 0024 1 *
25 0025 1 *****
26 0026 1
27 0027 1 ++
28 0028 1
29 0029 1 Facility:
30 0030 1
31 0031 1 Analyze/Media
32 0032 1
33 0033 1 Abstract:
34 0034 1
35 0035 1 This module contains all of the global data storage declarations
36 0036 1 used by the utility.
37 0037 1
38 0038 1 Author:
39 0039 1
40 0040 1 Michael T. Rhodes Creation Date: July, 1982
41 0041 1
42 0042 1 Modified By:
43 0043 1
44 0044 1 V03-002 MTR0002 Michael T. Rhodes 20-Jan-1983
45 0045 1 Add shared message BADVALUE (severe) definition, for bad
46 0046 1 keyword value diagnostic.
47 0047 1
48 0048 1 V03-001 MTR0001 Michael T. Rhodes 15-Dec-1982
49 0049 1 Remove unused scalars -- bad$gl_retrycnt and bad$gl_worst_case.
50 0050 1
51 0051 1 !--

```

```

53 0052 1 |
54 0053 1 | Declare LIBRARY and REQUIRE files necessary to build the storage structures.
55 0054 1 |
56 0055 1 | LIBRARY 'SYSS$LIBRARY:LIB'; | System definitions.
57 0056 1 |
58 0057 1 |
59 0058 1 | Define shared messages.
60 0059 1 |
61 P 0060 1 | $SHR_MSGDEF (BAD,250,GLOBAL,
62 P 0061 1 | (BADVALUE,SEVERE),
63 P 0062 1 | (CLOSEOUT,SEVERE),
64 P 0063 1 | (INSVIRMEM,SEVERE),
65 P 0064 1 | (OPENOUT,SEVERE),
66 P 0065 1 | (READERR,ERROR),
67 0066 1 | (WRITEERR,ERROR));
68 0067 1 |
69 0068 1 | LITERAL
70 0069 1 | dvientries = 10, | Total number of entries in item list.
71 0070 1 | dvilistsize = dvientries * 12; | Number of bytes for $GETDVI item list.
72 0071 1 |
73 0072 1 | GLOBAL
74 0073 1 | bad$gl_bad_term : VECTOR [4, LONG], | Bad block information vector.
75 0074 1 | bad$gb_block_fact : BYTE, | Block factor for medium.
76 0075 1 | bad$gl_bytes_cyl, | Number of bytes per cylinder.
77 0076 1 | bad$gl_bytes_trk, | Number of bytes per track.
78 0077 1 | bad$gl_chan, | Device channel number.
79 0078 1 | bad$ga_comnd_line : $BBLOCK [dsc$c_s_bln], | Descriptor for command line buffer.
80 0079 1 | bad$gl_context : BITVECTOR [32], | Context flags vector.
81 0080 1 | bad$gl_cylinders, | Number of cylinders on medium.
82 0081 1 | bad$ga_bufadr : VECTOR [2, LONG], | IO request data buffer address vector.
83 0082 1 | bad$gl_devchar : $BBLOCK [4], | Device characteristics.
84 0083 1 | bad$gl_devclass, | Device class identifier.
85 0084 1 | bad$ga_device : $BBLOCK [dsc$c_s_bln], | Descriptor for device name.
86 0085 1 | bad$ga_devnam : $BBLOCK [64], | Buffer to hold the device name.
87 0086 1 | bad$gl_devnam, | Size of the device name (returned by $GETD
88 0087 1 | bad$ga_devnam : $BBLOCK [dsc$c_s_bln], | Descriptor fo device name.
89 0088 1 | bad$gl_devtype, | Device type identifier.
90 0089 1 | bad$ga_filespec : $BBLOCK [dsc$c_s_bln], | Descriptor for output file spec.
91 0090 1 | bad$gl_func, | IO function to perform.
92 0091 1 | bad$ga_input_desc : $BBLOCK [dsc$c_s_bln], | Generic input descriptor.
93 0092 1 | bad$ga_iosb : VECTOR [4, LONG], | IOSBs for requests.
94 0093 1 | bad$gl_maxblock, | Maximum user addressable LBN on device.
95 0094 1 | bad$ga_mdbsf, | Address of MDBSF buffer.
96 0095 1 | bad$gl_mdbsf_ptr, | Pointer to current entry in MDBSF.
97 0096 1 | bad$gl_pagcnt, | Number of pages in data buffers 1 & 2.
98 0097 1 | bad$ga_sdbsf, | Addrees of SDBSF buffer.
99 0098 1 | bad$gl_sdbsf_ptr, | Pointer to current entry in SDBSF.
100 0099 1 | bad$gl_sectors, | Number of sectors per track.
101 0100 1 | bad$gl_sector_siz, | Size in bytes of a single sector.
102 0101 1 | bad$gl_serialnum, | Pack serial number.
103 0102 1 | bad$gl_status, | Global status.
104 0103 1 | bad$gb_term_count : BYTE, | Number of terms used to describe bad block
105 0104 1 | bad$ga_tpb, | Address of Test Pattern Buffer.
106 0105 1 | bad$gl_tracks, | Number of tracks per cylinder.
107 0106 1 | bad$gl_trnsfr_cnt, | Number of bytes to transfer per IO request
108 0107 1 |
109 0108 1 | !++

```

```

: 110 0109 1 | Initialize the $GETDVI item list.
: 111 0110 1 |
: 112 0111 1 | NOTE: If additional entries are added to this list the literal "bad$k_dventries" declared
: 113 0112 1 | above MUST be incremented to reflect the new entry. Otherwise, the storage allocation
: 114 0113 1 | for "bad$ga_getdvi" will be inadequate to serve the request.
: 115 0114 1 |
: 116 0115 1 | --
: 117 0116 1 | bad$ga_getdvi: $BBLOCK [dvilistsize] ! Starting address of the $GETDVI item list.
: 118 0117 1 | INITIAL(
: 119 0118 1 | WORD (4, dvi$_cylinders), LONG (bad$gl_cylinders, 0),
: 120 0119 1 | WORD (4, dvi$_devchar), LONG (bad$gl_devchar, 0),
: 121 0120 1 | WORD (4, dvi$_devclass), LONG (bad$gl_devclass, 0),
: 122 0121 1 | WORD (4, dvi$_devtype), LONG (bad$gl_devtype, 0),
: 123 0122 1 | WORD (64, dvi$_devnam), LONG (bad$ga_devnam, bad$gl_devnam),
: 124 0123 1 | WORD (4, dvi$_maxblock), LONG (bad$gl_maxblock, 0),
: 125 0124 1 | WORD (4, dvi$_sectors), LONG (bad$gl_sectors, 0),
: 126 0125 1 | WORD (4, dvi$_serialnum), LONG (bad$gl_serialnum, 0),
: 127 0126 1 | WORD (4, dvi$_tracks), LONG (bad$gl_tracks, 0),
: 128 0127 1 | WORD (0, 0), LONG (0, 0); ! Terminator entry,
: 129 0128 1 | ! MUST be included in the
: 130 0129 1 | ! "bad$k_dventries" count.
: 131 0130 1 |
: 132 0131 1 END
: 133 0132 0 ELUDOM

```

.TITLE BADDATA Analyze/Media Data Storage Declarations  
.IDENT \V04-000\

.PSECT \$GLOBALS,NOEXE,2

```

00000 BAD$GL_BAD_TERM::
      .BLKB 16
00010 BAD$GB_BLOCK_FACT::
      .BLKB 1
00011      .BLKB 3
00014 BAD$GL_BYTES_CYL::
      .BLKB 4
00018 BAD$GL_BYTES_TRK::
      .BLKB 4
0001C BAD$GL_CHAN::
      .BLKB 4
00020 BAD$GA_COMND_LINE::
      .BLKB 8
00028 BAD$GL_CONTEXT::
      .BLKB 4
0002C BAD$GL_CYLINDERS::
      .BLKB 4
00030 BAD$GA_BUFADR::
      .BLKB 8
00038 BAD$GL_DEVCHAR::
      .BLKB 4
0003C BAD$GL_DEVCLASS::
      .BLKB 4
00040 BAD$GA_DEVICE::
      .BLKB 8
00048 BAD$GA_DEVNAM::

```

```

00088 BAD$GL_DEVNAM:: .BLKB 64
0008C BAD$GQ_DEVNAM:: .BLKB 4
00094 BAD$GL_DEVTYPE:: .BLKB 8
00098 BAD$GA_FILESPEC:: .BLKB 4
000A0 BAD$GL_FUNC:: .BLKB 8
000A4 BAD$GA_INPUT_DESC:: .BLKB 4
000AC BAD$GQ_IOSB:: .BLKB 8
000BC BAD$GL_MAXBLOCK:: .BLKB 16
000C0 BAD$GA_MDBSF:: .BLKB 4
000C4 BAD$GL_MDBSF_PTR:: .BLKB 4
000C8 BAD$GL_PAGCNT:: .BLKB 4
000CC BAD$GA_SDBSF:: .BLKB 4
000D0 BAD$GL_SDBSF_PTR:: .BLKB 4
000D4 BAD$GL_SECTORS:: .BLKB 4
000D8 BAD$GL_SECTOR_SIZ:: .BLKB 4
000DC BAD$GL_SERIALNUM:: .BLKB 4
000E0 BAD$GL_STATUS:: .BLKB 4
000E4 BAD$GB_TERM_COUNT:: .BLKB 1
000E5 .BLKB 3
000E8 BAD$GA_TPB:: .BLKB 4
000EC BAD$GL_TRACKS:: .BLKB 4
000F0 BAD$GL_TRNSFR_CNT:: .BLKB 4
0028 0004 000F4 BAD$GA_GETDVI:: .WORD 4, 40
00000000 000F8 .ADDRESS BAD$GL_CYLINDERS
00000000 000FC .LONG 0
0002 0004 00100 .WORD 4, 2
00000000 00104 .ADDRESS BAD$GL_DEVCHAR
00000000 00108 .LONG 0
0004 0004 0010C .WORD 4, 4
00000000 00110 .ADDRESS BAD$GL_DEVCLASS
00000000 00114 .LONG 0
0006 0004 00118 .WORD 4, 6
00000000 0011C .ADDRESS BAD$GL_DEVTYPE
00000000 00120 .LONG 0

```

.....

```

00000000 0020 0040 00124 .WORD 64, 32
00000000 00000000 00128 .ADDRESS BAD$CA_DEVNAM, BAD$GL_DEVNAM
001A 0004 00130 .WORD 4, 26
00000000 00000000 00134 .ADDRESS BAD$GL_MAXBLOCK
00000000 00000000 00138 .LONG 0
0024 0004 0013C .WORD 4, 36
00000000 00000000 00140 .ADDRESS BAD$GL_SECTORS
00000000 00000000 00144 .LONG 0
003E 0004 00148 .WORD 4, 62
00000000 00000000 0014C .ADDRESS BAD$GL_SERIALNUM
00000000 00000000 00150 .LONG 0
0026 0004 00154 .WORD 4, 38
00000000 00000000 00158 .ADDRESS BAD$GL_TRACKS
00000000 00000000 0015C .LONG 0
0000 0000 00160 .WORD 0, 0
00000000 00000000 00164 .LONG 0, 0

```

```

BAD$_BADVALUE== 16388372
BAD$_CLOSEOUT== 16388188
BAD$_INSVIRMEM== 16388852
BAD$_OPENOUT== 16388260
BAD$_READERR== 16388274
BAD$_WRITEERR== 16388306

```

PSECT SUMMARY

Name	Bytes	Attributes
\$GLOBALS	364	NOVEC, WRT, RD, NOEXE, NOSHR, LCL, REL, CON, NOPIC, ALIGN(2)
. ABS .	0	NOVEC, NOWRT, NORD, NOEXE, NOSHR, LCL, ABS, CON, NOPIC, ALIGN(0)

Library Statistics

File	Total	Symbols Loaded	Percent	Pages Mapped	Processing Time
_\$255\$DUA28:[SYSLIB]LIB.L32;1	18619	22	0	1000	00:01.4

COMMAND QUALIFIERS

```

; BLISS/CHECK=(FIELD,INITIAL,OPTIMIZE)/LIS=LIS$:BADDATA/OBJ=OBJ$:BADDATA MSRC$:BADDATA/UPDATE=(ENH$:BADDATA)
; Size: 0 code + 364 data bytes
; Run Time: 00:03.5
; Elapsed Time: 00:11.4
; Lines/CPU Min: 2295

```

BADDATA  
V04-000

Analyze/Media Data Storage Declarations

↓ 16  
15-Sep-1984 23:37:22

VAX-11 Bliss-32 V4.0-742

Page 6

: Lexemes/CPU-Min: 19652  
: Memory Used: 50 pages  
: Compilation Complete

