


```

FFFFFFFFF  IIIIII  LL  EEEEEEEEE  SSSSSSS  IIIIII  ZZZZZZZZZ  EEEEEEEEE
FFFFFFFFF  IIIIII  LL  EEEEEEEEE  SSSSSSS  IIIIII  ZZZZZZZZZ  EEEEEEEEE
FF        II      LL  EE          SS        II      ZZ      EE
FF        II      LL  EE          SS        II      ZZ      EE
FF        II      LL  EE          SS        II      ZZ      EE
FF        II      LL  EE          SS        II      ZZ      EE
FFFFFFFFF  II      LL  EEEEEEE    SSSSS    II      ZZ      EEEEEEE
FFFFFFFFF  II      LL  EEEEEEE    SSSSS    II      ZZ      EEEEEEE
FF        II      LL  EE          SS        II      ZZ      EE
FF        II      LL  EE          SS        II      ZZ      EE
FF        II      LL  EE          SS        II      ZZ      EE
FF        II      LL  EE          SS        II      ZZ      EE
FF        II      LL  EE          SS        II      ZZ      EE
FF        IIIIII  LLLLLLLLL  EEEEEEEEE  SSSSSSS  IIIIII  ZZZZZZZZZ  EEEEEEEEE
FF        IIIIII  LLLLLLLLL  EEEEEEEEE  SSSSSSS  IIIIII  ZZZZZZZZZ  EEEEEEEEE

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```

LL        IIIIII  SSSSSSS
LL        IIIIII  SSSSSSS
LL        II      SS
LL        II      SS
LL        II      SS
LL        II      SS
LL        II      SSSSS
LL        II      SSSSS
LL        II      SS
LL        II      SS
LL        II      SS
LL        IIIIII  SSSSSSS
LLLLLLLLL  IIIIII  SSSSSSS
LLLLLLLLL  IIIIII  SSSSSSS

```

```

1 0001 0 MODULE FILESIZE (
2 0002 0     LANGUAGE (BLISS32),
3 0003 0     IDENT = 'V04-000'
4 0004 0 ) =
5 0005 1 BEGIN
6 0006 1
7 0007 1
8 0008 1 *****
9 0009 1 *
10 0010 1 *  COPYRIGHT (c) 1978, 1980, 1982, 1984 BY
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25 0025 1 *  DIGITAL ASSUMES NO RESPONSIBILITY FOR THE USE OR RELIABILITY OF ITS
26 0026 1 *  SOFTWARE ON EQUIPMENT WHICH IS NOT SUPPLIED BY DIGITAL.
27 0027 1 *
28 0028 1 *
29 0029 1 *****
30 0030 1
31 0031 1 ++
32 0032 1
33 0033 1 FACILITY: F11ACP Structure Level 2
34 0034 1
35 0035 1 ABSTRACT:
36 0036 1
37 0037 1     This routine computes the number of blocks mapped by a file header.
38 0038 1
39 0039 1 ENVIRONMENT:
40 0040 1
41 0041 1     STARLET operating system, including privileged system services
42 0042 1     and internal exec routines. These routines must be called in
43 0043 1     kernel mode.
44 0044 1
45 0045 1 --
46 0046 1
47 0047 1
48 0048 1 AUTHOR: Andrew C. Goldstein, CREATION DATE: 14-Jun-1979 9:22
49 0049 1
50 0050 1 MODIFIED BY:
51 0051 1
52 0052 1     V03-002 CDS0002     Christian D. Saether     31-July-1984
53 0053 1     Remove local declaration of get_map_pointer linkage.
54 0054 1
55 0055 1     V03-001 CDS0001     Christian D. Saether     30-Dec-1983
56 0056 1     Use L_NORM linkage.
57 0057 1

```

: R


```

: 64      1053 1 GLOBAL ROUTINE FILE_SIZE (HEADER) : L_NORM =
: 65      1054 1
: 66      1055 1 !++
: 67      1056 1
: 68      1057 1 FUNCTIONAL DESCRIPTION:
: 69      1058 1
: 70      1059 1     This routine computes the number of blocks mapped by the specified
: 71      1060 1     file header.
: 72      1061 1
: 73      1062 1 CALLING SEQUENCE:
: 74      1063 1     FILE_SIZE (ARG1)
: 75      1064 1
: 76      1065 1 INPUT PARAMETERS:
: 77      1066 1     ARG1: header address
: 78      1067 1
: 79      1068 1 IMPLICIT INPUTS:
: 80      1069 1     NONE
: 81      1070 1
: 82      1071 1 OUTPUT PARAMETERS:
: 83      1072 1     NONE
: 84      1073 1
: 85      1074 1 IMPLICIT OUTPUTS:
: 86      1075 1     NONE
: 87      1076 1
: 88      1077 1 ROUTINE VALUE:
: 89      1078 1     number of blocks in header
: 90      1079 1
: 91      1080 1 SIDE EFFECTS:
: 92      1081 1     NONE
: 93      1082 1
: 94      1083 1 !--
: 95      1084 1
: 96      1085 2 BEGIN
: 97      1086 2
: 98      1087 2 MAP
: 99      1088 2     HEADER          : REF BBLOCK;    ! file header arg
: 100     1089 2
: 101     1090 2 GLOBAL REGISTER
: 102     1091 2     COUNT          = 6;          ! retrieval pointer count
: 103     1092 2     LBN          = 7;          ! retrieval pointer LBN
: 104     1093 2     MAP_POINTER  = 8;          ! pointer to scan map area
: 105     1094 2
: 106     1095 2 LOCAL
: 107     1096 2     FILESIZE;          ! size of file
: 108     1097 2
: 109     1098 2 EXTERNAL ROUTINE
: 110     1099 2     GET_MAP_POINTER : L_MAP_POINTER; ! get value of file map pointer
: 111     1100 2
: 112     1101 2
: 113     1102 2 ! Scan the map area. Count up the file size from the retrieval pointers.
: 114     1103 2 !
: 115     1104 2
: 116     1105 2 FILESIZE = 0;
: 117     1106 2 MAP_POINTER = .HEADER + .HEADER[FH2$B MPOFFSET]*2;
: 118     1107 2 UNTIL .MAP_POINTER GEQA .HEADER + (.HEADER[FH2$B_MPOFFSET] + .HEADER[FH2$B_MAP_INUSE]) * 2
: 119     1108 2 DO
: 120     1109 2     BEGIN

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: 121      1110 3   GET MAP POINTER ();
: 122      1111 3   FILESIZE = .FILESIZE + .COUNT;
: 123      1112 3   END;
: 124      1113 2
: 125      1114 2 RETURN .FILESIZE;
: 126      1115 2
: 127      1116 1 END;

```

```

.TITLE FILESIZE
.IDENT \V04-000\

```

```

.EXTRN GET_MAP_POINTER

```

```

.PSECT $CODE$,NOWRT,2

```

```

          01CC 00000
          52  D4 00002
51      04  AC  D0 00004
50      01  A1  9A 00008
58      6140 3E 0000C
51      04  AC  D0 00010 1$:
50      01  A1  9A 00014
53      3A  A1  9A 00018
50      53  C0 0001C
50      6140 3E 0001F
50      58  D1 00023
          08  1E 00026
          0000G 30 00028
52      56  C0 0002B
          E0  11 0002E
50      52  D0 00030 2$:
          04  00033

```

```

.ENTRY FILE SIZE, Save R2,R3,R6,R7,R8
CLRL FILESIZE
MOVL HEADER, R1
MOVZBL 1(R1), R0
MOVAW (R1)(R0), MAP_POINTER
MOVL HEADER, R1
MOVZBL 1(R1), R0
MOVZBL 58(R1), R3
ADDL2 R3, R0
MOVAW (R1)(R0), R0
CML MAP_POINTER, R0
BGEQU 2$
BSBW GET_MAP_POINTER
ADDL2 COUNT, FILESIZE
BRB 1$
MOVL FILESIZE, R0
RET

```

```

: 1053
: 1105
: 1106
:
: 1107
:
:
: 1110
: 1111
: 1107
: 1114
: 1116

```

: Routine Size: 52 bytes, Routine Base: \$CODE\$ + 0000

```

: 128      1117 1
: 129      1118 1 END
: 130      1119 0 ELUDOM

```

PSECT SUMMARY

Name	Bytes	Attributes
\$CODE\$	52	NOVEC,NOWRT, RD , EXE,NOSHR, LCL, REL, CON,NOPI,ALIGN(2)

Library Statistics

FILESIZE
V04-000

F 9
16-Sep-1984 00:29:04
14-Sep-1984 12:30:26

VAX-11 Bliss-32 V4.0-742
[F11X.SRC]FILESIZE.B32;1

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FIL
V04

File	----- Total	Symbols Loaded	----- Percent	Pages Mapped	Processing Time
:_\$255\$DUA28:[SYSLIB]LIB.L32;1	18619	19	0	1000	00:02.0

COMMAND QUALIFIERS

BLISS/CHECK=(FIELD,INITIAL,OPTIMIZE)/LIS=LISS:FILESIZE/OBJ=OBJ\$:FILESIZE MSRCS:FILESIZE/UPDATE=(ENHS:FILESIZE)

: Size: 52 code + 0 data bytes
: Run Time: 00:08.1
: Elapsed Time: 00:20.7
: Lines/CPU Min: 8288
: Lexemes/CPU-Min: 27259
: Memory Used: 101 pages
: Compilation Complete

: R

