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GGGGGGGG  EEEEEEEEEE  TTTTTTTTTT  PPPPPPPP  TTTTTTTTTT  RRRRRRRR
GGGGGGGG  EEEEEEEEEE  TTTTTTTTTT  PPPPPPPP  TTTTTTTTTT  RRRRRRRR
GG          EE          TT          PP          PP          RR          RR
GG          EE          TT          PP          PP          RR          RR
GG          EE          TT          PP          PP          RR          RR
GG          EE          TT          PP          PP          RR          RR
GG          EE          TT          PP          PP          RR          RR
GG          EEEEEEEE  TT          P          P          RRRRRRRR
GG          EEEEEEEE  TT          P          P          RRRRRRRR
GG          EE          TT          PP          PP          RR          RR
GG          EE          TT          PP          PP          RR          RR
GG          EE          TT          PP          PP          RR          RR
GG          EE          TT          PP          PP          RR          RR
GGGGGGGG  EEEEEEEEEE  TT          PP          PP          RR          RR
GGGGGGGG  EEEEEEEEEE  TT          PP          PP          RR          RR

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LL          II'III  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

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```

0001 0 MODULE GETPTR (
0002 0     LANGUAGE (BLISS32),
0003 0     IDENT = 'V04-000',
0004 0 ) =
0005 1 BEGIN
0006 1
0007 1
0008 1 *****
0009 1 *
0010 1 *   COPYRIGHT (c) 1978, 1980, 1982, 1984 BY
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0025 1 *   DIGITAL ASSUMES NO RESPONSIBILITY FOR THE USE OR RELIABILITY OF ITS
0026 1 *   SOFTWARE ON EQUIPMENT WHICH IS NOT SUPPLIED BY DIGITAL.
0027 1 *
0028 1 *
0029 1 *****
0030 1
0031 1 ++
0032 1
0033 1 FACILITY: F11ACP Structure Level 2
0034 1
0035 1 ABSTRACT:
0036 1
0037 1     This routine returns the value of a header map pointer.
0038 1
0039 1 ENVIRONMENT:
0040 1
0041 1     STARLET operating system, including privileged system services
0042 1     and internal exec routines.
0043 1
0044 1 --
0045 1
0046 1
0047 1 AUTHOR: Andrew C. Goldstein, CREATION DATE: 21-Nov-1977 17:12
0048 1
0049 1 MODIFIED BY:
0050 1
0051 1     V03-001 CDS0001 Christian D. Saether 31-July-1984
0052 1     Define linkage in require file, remove local definition.
0053 1
0054 1     B0101 ACG0008 Andrew C. Goldstein, 26-Dec-1978 19:20
0055 1     Skip placement pointers (for placement support)
0056 1
0057 1     B0100 ACG00001 Andrew C. Goldstein, 10-Oct-1978 20:00

```

GETPTR
V04-000

C 13
16-Sep-1984 00:33:43
14-Sep-1984 12:30:29

VAX-11 Bliss-32 V4.0-742
DISK\$VMSMASTER:[F11X.SRC]GETPTR.B32;1 Page 2 (1)

```
.. 58      0058 1 | Previous revision history moved to [F11B.SRC]F11B.REV
.. 59      0059 1 | **
.. 60      0060 1 |
.. 61      0061 1 |
.. 62      0062 1 | LIBRARY 'SYSS$LIBRARY:LIB.L32';
.. 63      0063 1 | REQUIRE 'SRC$:FCPDEF.B32';
.. 64      1054 1 |
```

GETR
V04-

0000

: Ro

```
1055 1 GLOBAL ROUTINE GET_MAP_POINTER : L_MAP_POINTER NOVALUE =
1056 1
1057 1 ++
1058 1
1059 1 FUNCTIONAL DESCRIPTION:
1060 1
1061 1     This routine returns the contents of a file header map pointer and
1062 1     advances the map area pointer to the next map pointer.
1063 1
1064 1
1065 1 CALLING SEQUENCE:
1066 1     GET_MAP_POINTER ( )
1067 1
1068 1 INPUT PARAMETERS:
1069 1     NONE
1070 1
1071 1 IMPLICIT INPUTS:
1072 1     R8 = address of header map pointer
1073 1
1074 1 OUTPUT PARAMETERS:
1075 1     NONE
1076 1
1077 1 IMPLICIT OUTPUTS:
1078 1     R6 = block count
1079 1     R7 = starting LBN
1080 1
1081 1 ROUTINE VALUE:
1082 1     NONE
1083 1
1084 1 SIDE EFFECTS:
1085 1     R8 advanced to next pointer (placement pointers are transparently skipped)
1086 1
1087 1 --
1088 1
1089 2 BEGIN
1090 2
1091 2 EXTERNAL REGISTER
1092 2     COUNT           = 6,           ! retrieval pointer block count
1093 2     LBN             = 7,           ! retrieval pointer start LBN
1094 2     MAP_POINTER     = 8 : REF BBLOCK; ! address of map pointer
1095 2
1096 2
1097 2 ! Determine the type of the map pointer and interpret it appropriately.
1098 2
1099 2
1100 2 IF .MAP_POINTER[FM2$V_FORMAT] EQL FM2$C_PLACEMENT
1101 2 THEN MAP_POINTER = .MAP_POINTER + FM2$C_LENGTH0;
1102 2
1103 2 CASE .MAP_POINTER[FM2$V_FORMAT] FROM 0 TO 3 OF
1104 2     SET
1105 2
1106 2     [FM2$C_PLACEMENT]: BEGIN
1107 2         COUNT = 0;
1108 2         LBN = 0;
1109 2         MAP_POINTER = .MAP_POINTER + 2;
1110 2     END;
1111 2
```

```

1112 [FM2$C_FORMAT1]: BEGIN
1113 COUNT = .MAP_POINTER[FM2$B COUNT1];
1114 LBN<16,16> = .MAP_POINTER[FM2$V HIGHLBN];
1115 LBN<0,16> = .MAP_POINTER[FM2$W_COWLBN];
1116 MAP_POINTER = .MAP_POINTER + 4;
1117 COUNT = .COUNT + 1;
1118 END;
1119
1120 [FM2$C_FORMAT2]: BEGIN
1121 COUNT = .MAP_POINTER[FM2$V COUNT2];
1122 LBN = .MAP_POINTER[FM2$L LBN2];
1123 MAP_POINTER = .MAP_POINTER + 6;
1124 COUNT = .COUNT + 1;
1125 END;
1126
1127 [FM2$C_FORMAT3]: BEGIN
1128 COUNT = (ROT (.MAP_POINTER, 16) AND (1^30-1));
1129 LBN = .MAP_POINTER[FM2$L LBN3];
1130 MAP_POINTER = .MAP_POINTER + 8;
1131 COUNT = .COUNT + 1;
1132 END;
1133
1134 TES;
1135
1136 1 END;
! end of routine GET_MAP_POINTER

```

.TITLE GETPTR
.IDENT \V04-000\

.PSECT \$CODE\$,NOWRT,2

CO	8F	01	A8	93	0000	GET_MAP_POINTER:		
						BITB	1(MAP_POINTER), #192	1100
			03	12	00005	BNEQ	1\$	
51	68		02	C0	00007	ADDL2	#2, MAP_POINTER	1101
	03		0E	EF	0000A	EXTZV	#14, #2, (MAP_POINTER), R1	1103
002E	0020		51	CF	0000F	CASEL	R1, #0, #3	
			0008		00013	.WORD	3\$-2\$,- 4\$-2\$,- 5\$-2\$,- 6\$-2\$	
			56	7C	0001B	3\$:	CLRQ	COUNT
			02	C0	0001D		ADDL2	#2, MAP_POINTER
				05	00020		RSB	
			88	9A	00021	4\$:	MOVZBL	(MAP_POINTER)+, COUNT
50	88		00	EF	00024		EXTZV	#0, #6, (MAP_POINTER)+, R0
57	10		50	F0	00029		INSV	R0, #16, #16, LBN
			88	B0	0002E		MOVW	(MAP_POINTER)+, LBN
			1A	11	00031		BRB	7\$
56	88		00	EF	00033	5\$:	EXTZV	#0, #14, (MAP_POINTER)+, COUNT
			01	A8	00038		MOVL	1(MAP_POINTER), LBN
			05	C0	0003C		ADDL2	#5, MAP_POINTER
			0C	11	0003F		BRB	7\$
	50		10	9C	00041	6\$:	ROTL	#16, (MAP_POINTER)+, R0

56	50	1E	00	EF	00045	EXTZV	#0, #30, R0, COUNT	:	1129
		57	88	D0	0004A	MOVL	(MAP_POINTER)+, LBN	:	1131
			56	D6	0004D	INCL	COUNT	:	1136
			05	0004F	RSB			:	

: Routine Size: 80 bytes, Routine Base: \$CODE\$ + 0000

```

: 148      1137 1
: 149      1138 1 END
: 150      1139 0 ELUDOM

```

PSECT SUMMARY

Name	Bytes	Attributes
\$CODE\$	80	NOVEC, NOWRT, RD, EXE, NOSHR, LCL, REL, CON, NOPIC, ALIGN(2)

Library Statistics

File	Total	Symbols Loaded	Percent	Pages Mapped	Processing Time
_\$255\$DUA28:[SYSLIB]LIB.L32;1	18619	29	0	1000	00:01.9

COMMAND QUALIFIERS

BLISS/CHECK=(FIELD, INITIAL, OPTIMIZE)/LIS=LIS\$:GETPTR/OBJ=OBJ\$:GETPTR MSRC\$:GETPTR/UPDATE=(ENH\$:GETPTR)

```

: Size:      80 code + 0 data bytes
: Run Time:  00:08.9
: Elapsed Time: 00:19.8
: Lines/CPU Min: 7722
: Lexemes/CPU-Min: 26942
: Memory Used: 113 pages
: Compilation Complete

```

0170 AH-BT13A-SE
VAX/VMS V4.0

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A grid of 130 small terminal window screenshots, each displaying a different system utility or command interface. The utilities are arranged in a roughly rectangular pattern with some gaps.

Visible utility names include:
- EXTDIR LIS
- GTLCAT LIS
- GETLOC LIS
- EXTEND LIS
- EXTHDR LIS
- FILUTL LIS
- GETREQ LIS
- ERASE LIS
- GETTIM LIS
- INIFC2 LIS
- INIFCP LIS
- EXTFCB LIS
- FILESERV LIS
- FILESIZE LIS
- GETPR LIS
- FIND LIS
- GETFIB LIS

The screens show various types of data including lists, tables, and command prompts.