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NN      NN  XX      XX  TTTTTTTTTT  HH      HH  DDDDDDDD  RRRRRRRR
NN      NN  XX      XX  TTTTTTTTTT  HH      HH  DDDDDDDD  RRRRRRRR
NN      NN  XX      XX          TT      HH      HH  DD          DD  RR      RR
NN      NN  XX      XX          TT      HH      HH  DD          DD  RR      RR
NNNN    NN   XX     XX          TT      HH      HH  DD          DD  RR      RR
NNNN    NN   XX     XX          TT      HH      HH  DD          DD  RR      RR
NN  NN  NN   XX     XX          TT      HHHHHHHHHH DD          DD  RRRRRRRR
NN  NN  NN   XX     XX          TT      HHHHHHHHHH DD          DD  RRRRRRRR
NN      NNNN  XX     XX          TT      HH      HH  DD          DD  RR      RR
NN      NNNN  XX     XX          TT      HH      HH  DD          DD  RR      RR
NN      NN  XX      XX          TT      HH      HH  DD          DD  RR      RR
NN      NN  XX      XX          TT      HH      HH  DD          DD  RR      RR
NN      NN  XX      XX          TT      HH      HH  DDDDDDDD  RR      RR
NN      NN  XX      XX          TT      HH      HH  DDDDDDDD  RR      RR

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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

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```

0001 0 MODULE NXTHDR (
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
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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 reads the next extension header, if any, of the
0038 1     given file.
0039 1
0040 1 ENVIRONMENT:
0041 1
0042 1     STARLET operating system, including privileged system services
0043 1     and internal exec routines.
0044 1
0045 1 --
0046 1
0047 1
0048 1 AUTHOR: Andrew C. Goldstein, CREATION DATE: 22-Jul-1977 17:40
0049 1
0050 1 MODIFIED BY:
0051 1
0052 1     V03-001 CDS0001 Christian D. Saether 30-Dec-1983
0053 1     Use L_NORM linkage and BIND_COMMON macro.
0054 1
0055 1     B0100 ACG0001 Andrew C. Goldstein, 10-Oct-1978 20:00
0056 1     Previous revision history moved to [F11B.SRC]F11B.REV
0057 1 **

```

NXTHDR
V04-000

N 13
16-Sep-1984 00:48:15
14-Sep-1984 12:30:39

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

PA
VO

```
: 58      0058 1  
: 59      0059 1  
: 60      0060 1 LIBRARY 'SYSSLIBRARY:LIB;L32':  
: 61      0061 1 REQUIRE 'SRC$:FCPDEF.B32';
```

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```

63 1052 1 GLOBAL ROUTINE NEXT_HEADER (HEADER, FCB, EXT_FID, SEGNUM) : L_NORM =
64 1053 1
65 1054 1 !++
66 1055 1
67 1056 1 FUNCTIONAL DESCRIPTION:
68 1057 1
69 1058 1 This routine reads the next extension header, if any, of the
70 1059 1 indicated file. Extension data is taken from either the indicated
71 1060 1 file header or the arguments.
72 1061 1
73 1062 1
74 1063 1 CALLING SEQUENCE:
75 1064 1 NEXT_HEADER (ARG1, ARG2, ARG3, ARG4)
76 1065 1
77 1066 1 INPUT PARAMETERS:
78 1067 1 ARG1: address of current file header or 0
79 1068 1 ARG2: address of corresponding FCB or zero
80 1069 1 ARG3: extension file ID, if present
81 1070 1 ARG4: extension segment number, if present
82 1071 1
83 1072 1 IMPLICIT INPUTS:
84 1073 1 NONE
85 1074 1
86 1075 1 OUTPUT PARAMETERS:
87 1076 1 NONE
88 1077 1
89 1078 1 IMPLICIT OUTPUTS:
90 1079 1 NONE
91 1080 1
92 1081 1 ROUTINE VALUE:
93 1082 1 Address of header read or 0 if none
94 1083 1
95 1084 1 SIDE EFFECTS:
96 1085 1 File header may be read
97 1086 1
98 1087 1 --
99 1088 1
100 1089 2 BEGIN
101 1090 2
102 1091 2 MAP
103 1092 2 HEADER : REF BBLOCK, ! file header arg
104 1093 2 FCB : REF BBLOCK, ! FCB arg
105 1094 2 EXT_FID : REF BBLOCK; ! extension file ID arg
106 1095 2
107 1096 2 LOCAL
108 1097 2 NEW_HEADER : REF BBLOCK, ! address of extension file header read
109 1098 2 EXT_FCB : REF BBLOCK, ! address of extension FCB
110 1099 2 FILE_ID : BBLOCK [FID$C_LENGTH], ! file ID of extension header
111 1100 2 SEG_NUMBER : WORD; ! segment number of file header
112 1101 2
113 1102 2 BIND_COMMON;
114 1103 2
115 1104 2 EXTERNAL ROUTINE
116 1105 2 READ_HEADER : L_NORM; ! read a file header
117 1106 2
118 1107 2
119 1108 2 ! Get the extension file number of the file header. If it is zero, then

```

```

120 1109 2 ! there is no extension header. If it is non-zero, read the header, using
121 1110 2 ! the extension FCB if one exists.
122 1111 2 !
123 1112 2 !
124 1113 2 IF ACTUALCOUNT LSS 4
125 1114 2 THEN
126 1115 2 BEGIN
127 1116 2 CH$MOVE (FID$C_LENGTH, HEADER[FH2$W_EXT_FID], FILE_ID);
128 1117 2 SEG_NUMBER = .HEADER[FH2$W_SEG_NUM]+ 1;
129 1118 2 END
130 1119 2 ELSE
131 1120 2 BEGIN
132 1121 2 CH$MOVE (FID$C_LENGTH, .EXT_FID, FILE_ID);
133 1122 2 SEG_NUMBER = .SEGNUM;
134 1123 2 END;
135 1124 2
136 1125 2 IF .FILE_ID[FID$W_NUM] EQL 0
137 1126 2 AND (
138 1127 2 IF .CURRENT_VCB[VCB$V_EXTFID]
139 1128 2 THEN .FILE_ID[FID$B_NUM] EQL 0
140 1129 2 ELSE 1
141 1130 2 )
142 1131 2 THEN RETURN 0;
143 1132 2 EXT_FCB =
144 1133 2 (IF .FCB NEQ 0
145 1134 2 THEN .FCB[FCB$L_EXFCB]
146 1135 2 ELSE 0
147 1136 2 );
148 1137 2 NEW_HEADER = READ_HEADER (FILE_ID, .EXT_FCB);
149 1138 2
150 1139 2 ! Check the segment number of the header read for consistency.
151 1140 2 !
152 1141 2 !
153 1142 2 IF .SEG_NUMBER NEQ .NEW_HEADER[FH2$W_SEG_NUM]
154 1143 2 THEN ERR_EXIT (SS$_BADFILEHDR);
155 1144 2
156 1145 2 RETURN .NEW_HEADER;
157 1146 2
158 1147 1 END;

```

! end of routine NEXT_HEADER

.TITLE	NXTHDR				
.IDENT	\V04-000\				
.EXTRN	READ_HEADER				
.PSECT	\$CODE\$,NOWRT,2				
.ENTRY	NEXT_HEADER, Save R2,R3,R4,R5,R6				: 1052
SUBL2	#8, SP				
CMPB	(AP), #4				: 1113
BGEQU	1\$				
MOVL	HEADER, R6				: 1116
MOVC3	#6, 14(R6), FILE_ID				
ADDW3	#1, 4(R6), SEG_NUMBER				: 1117
BRB	2\$: 1113
MOVC3	#6, @EXT_FID, FILE_ID				: 1121

				007C 0000	
	5E			08 C2 00002	
	04			6C 91 00005	
				10 1E 00008	
		56	04	AC D0 0000A	
6E	0E	A6		06 28 0000E	
52	04	A6		01 A1 00013	
				09 11 00018	
6E	0C	BC		06 28 0001A 1\$:	

	52	10	AC	B0	0001F		MOVW	SEGNUM, SEG_NUMBER	1122
			6E	B5	00023	2\$:	TSTW	FILE_ID	1125
			0E	12	00025		BNEQ	3\$	
	50	98	AA	D0	00027		MOVL	-104(BASE), R0	1127
2F	OB	A0	05	E1	0002B		BBC	#5, 11(R0), 7\$	
			05	AE	95	00030	TSTB	FILE_ID+5	1128
			2A	13	00033		BEQL	7\$	
	50	08	AC	D0	00035	3\$:	MOVL	FCB, R0	1133
			06	13	00039		BEQL	4\$	
	50	0C	A0	D0	0003B		MOVL	12(R0), EXT_FCB	1134
			02	11	0003F		BRB	5\$	
			50	D4	00041	4\$:	CLRL	EXT_FCB	1133
			50	DD	00043	5\$:	PUSHL	EXT_FCB	1137
		04	AE	9F	00045		PUSHAB	FILE_ID	
0000G	CF		02	FB	00048		CALLS	#2, READ HEADER	
	51		50	D0	0004D		MOVL	R0, NEW_HEADER	
	04	A1	52	B1	00050		CMPW	SEG_NUMBER, 4(NEW_HEADER)	1142
			05	13	00054		BEQL	6\$	
		0810	8F	BF	00056		CHMU	#2064	1143
				04	0005A		RET		
	50		51	D0	0005B	6\$:	MOVL	NEW_HEADER, R0	1145
				04	0005E		RET		
			50	D4	0005F	7\$:	CLRL	R0	1147
				04	00061		RET		

: Routine Size: 98 bytes, Routine Base: \$CODE\$ + 0000

```
: 159      1148  1
: 160      1149  1 END
: 161      1150  0 ELUDOM
```

PSECT SUMMARY

Name	Bytes	Attributes
\$CODE\$	98	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	24	0	1000	00:02.0

NXTHDR
V04-000

E 14
16-Sep-1984 00:48:15
14-Sep-1984 12:30:39

VAX-11 Bliss-32 V4.0-742
DISK\$VMSMASTER:[F11X.SRC]NXTHDR.B32;1 Page 6 (2)

PM
V04

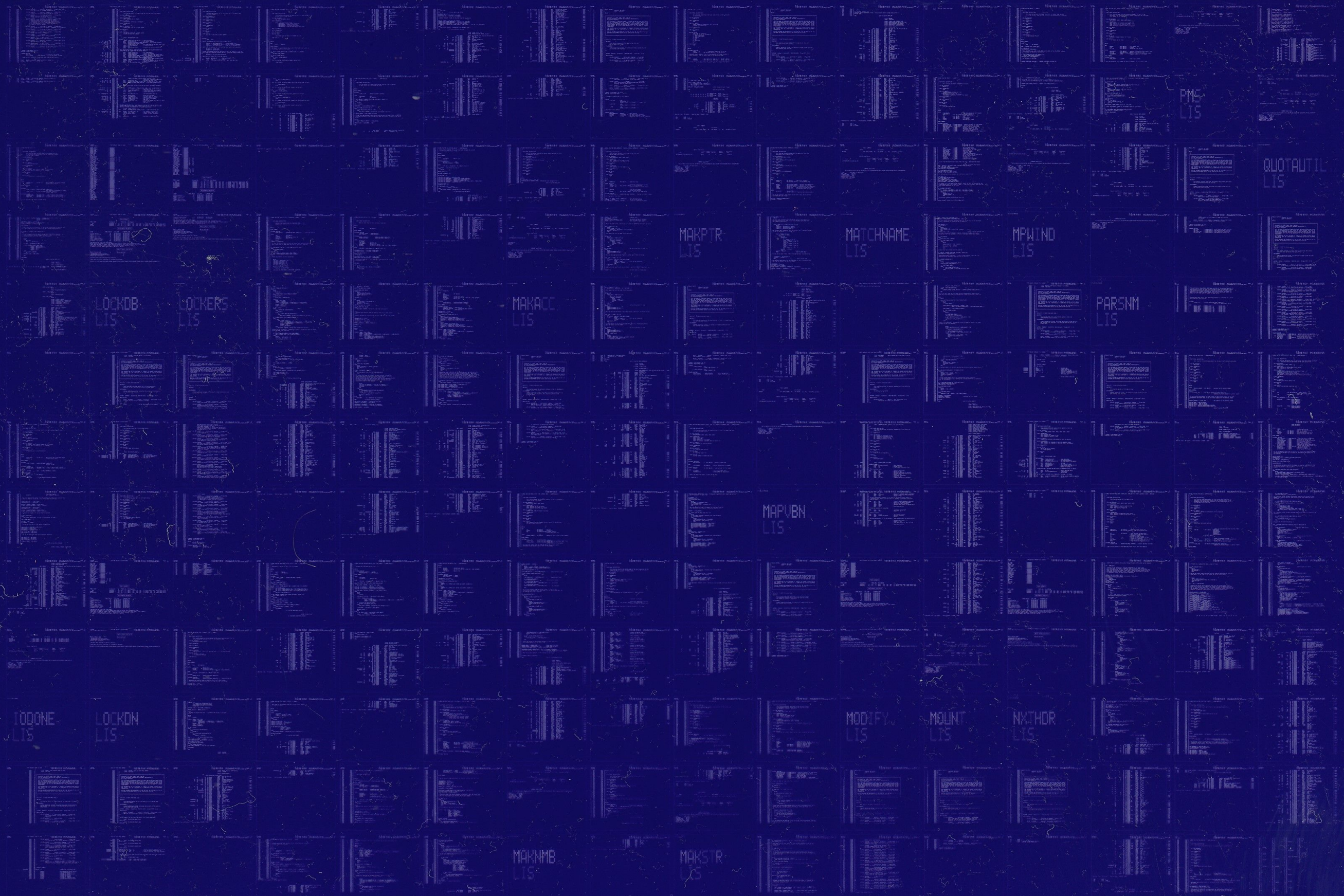
COMMAND QUALIFIERS

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

: Size: 98 code + 0 data bytes
: Run Time: 00:15.8
: Elapsed Time: 00:36.5
: Lines/CPU Min: 4364
: Lexemes/CPU-Min: 53214
: Memory Used: 198 pages
: Compilation Complete

0171 AH-BT13A-SE
VAX/VMS V4.0

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LOCKERS
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MAKACC
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