


```

BBBBBBBB      AAAAAA      DDDDDDDD      SSSSSSSS      CCCCCCCC      NN      NN
BBBBBBBB      AAAAAA      DDDDDDDD      SSSSSSSS      CCCCCCCC      NN      NN
BB      BB      AA      AA      DD      DD      SS      CC      NN      NN
BB      BB      AA      AA      DD      DD      SS      CC      NN      NN
BB      BB      AA      AA      DD      DD      SS      CC      NNNN      NN
BB      BB      AA      AA      DD      DD      SS      CC      NNNN      NN
BBBBBBBB      AA      AA      DD      DD      SSSSSS      CC      NN      NN      NN
BBBBBBBB      AA      AA      DD      DD      SSSSSS      CC      NN      NN      NN
BB      BB      AAAAAAAAAA      DD      DD      SS      CC      NN      NNNN
BB      BB      AAAAAAAAAA      DD      DD      SS      CC      NN      NNNN
BB      BB      AA      AA      DD      DD      SS      CC      NN      NN
BB      BB      AA      AA      DD      DD      SS      CC      NN      NN
BBBBBBBB      AA      AA      DDDDDDDD      SSSSSSSS      CCCCCCCC      NN      NN
BBBBBBBB      AA      AA      DDDDDDDD      SSSSSSSS      CCCCCCCC      NN      NN

```

```

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 BADSCN (
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 *
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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 scans the pending bad block list and enters or removes
38 0038 1 entries.
39 0039 1
40 0040 1 ENVIRONMENT:
41 0041 1
42 0042 1 STARLET operating system, including privileged system services
43 0043 1 and internal exec routines.
44 0044 1
45 0045 1 --
46 0046 1
47 0047 1
48 0048 1 AUTHOR: Andrew C. Goldstein, CREATION DATE: 22-May-1978 10:33
49 0049 1
50 0050 1 MODIFIED BY:
51 0051 1
52 0052 1 V03-003 CDS0001 Christian D. Saether 29-Dec-1983
53 0053 1 Use L_NORM linkage and BIND_COMMON macro.
54 0054 1
55 0055 1 V03-002 ACG0367 Andrew C. Goldstein, 26-Oct-1983 19:48
56 0056 1 Update highwater mark in BADLOG.SYS when extending
57 0057 1

```

```

: 58 0058 1 : V3-001 STJ0312 Steven T. Jeffreys, 2-Jun-1982
: 59 0059 1 : Fix addressing mode to fix out-of-range reference.
: 60 0060 1 :
: 61 0061 1 : B0101 ACG0121 Andrew C. Goldstein, 16-Jan-1980 21:36
: 62 0062 1 : Make context save and restore into subroutines
: 63 0063 1 :
: 64 0064 1 : B0100 ACG00001 Andrew C. Goldstein, 10-Oct-1978 19:59
: 65 0065 1 : Previous revision history moved to [F11B.SRC]F11B.REV
: 66 0066 1 : **
: 67 0067 1 :
: 68 0068 1 :
: 69 0069 1 LIBRARY 'SYSSLIBRARY:LIB.L32';
: 70 0070 1 REQUIRE 'SRCS:FCPDEF.B32';

```

```

72 1061 1 GLOBAL ROUTINE SCAN_BADLOG (FID, BASE_VBN, BASE_LBN, MODE, BLOCK_COUNT) : L_NORM NOVALUE =
73 1062 1
74 1063 1 +-
75 1064 1
76 1065 1 FUNCTIONAL DESCRIPTION:
77 1066 1
78 1067 1 This routine scans the volume bad block log for the specified block(s)
79 1068 1 and enters or removes them, depending on the mode.
80 1069 1
81 1070 1
82 1071 1 CALLING SEQUENCE:
83 1072 1 SCAN_BADLOG (ARG1, ARG2, ARG3, ARG4, ARG5)
84 1073 1
85 1074 1 INPUT PARAMETERS:
86 1075 1 ARG1: file ID of file containing bad block
87 1076 1 ARG2: VBN in file of bad block
88 1077 1 ARG3: LBN of bad block
89 1078 1 ARG4: mode of operation
90 1079 1 REMOVE_BADBLOCK = 0
91 1080 1 ENTER_READERR = 1
92 1081 1 ENTER_WRITERR = 2
93 1082 1 ARG5: count of blocks to process (remove only)
94 1083 1
95 1084 1 IMPLICIT INPUTS:
96 1085 1 NONE
97 1086 1
98 1087 1 OUTPUT PARAMETERS:
99 1088 1 NONE
100 1089 1
101 1090 1 IMPLICIT OUTPUTS:
102 1091 1 NONE
103 1092 1
104 1093 1 ROUTINE VALUE:
105 1094 1 NONE
106 1095 1
107 1096 1 SIDE EFFECTS:
108 1097 1 volume bad block list file altered
109 1098 1
110 1099 1 --
111 1100 1
112 1101 2 BEGIN
113 1102 2
114 1103 2 MAP
115 1104 2 FID : REF BBLOCK; ! file ID argument
116 1105 2
117 1106 2 LABEL
118 1107 2 SEARCH_LOOP; ! bad block list search
119 1108 2
120 1109 2 LOCAL
121 1110 2 VBN, ! VBN of current block of file
122 1111 2 LBN, ! LBN of current block
123 1112 2 FIRST_FREE, ! VBN containing first free slot
124 1113 2 FREE_OFFSET, ! byte offset in block of free slot
125 1114 2 P : REF BBLOCK, ! record pointer
126 1115 2 FIB : REF BBLOCK, ! local pointer to secondary FIB
127 1116 2 WINDOW : REF BBLOCK, ! address of bad block file window
128 1117 2 FCB : REF BBLOCK, ! address of bad block file FCB

```

; R

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129 1113 2          HEADER          : REF BBLOCK; . address of bad block file header
130 1119 2
131 1120 2 BIND_COMMON;
132 1121 2
133 1122 2 EXTERNAL ROUTINE
134 1123 2     SAVE_CONTEXT      : L_NORM,      : save reentrant context area
135 1124 2     RESTORE_CONTEXT : L_NORM,      : restore reentrant context area
136 1125 2     OPEN_FILE       : L_NORM,      : open a data file
137 1126 2     READ_DATA        : L_NORM,      : read a file block
138 1127 2     CLOSE_FILE      : L_NORM,      : close the data file
139 1128 2     CREATE_BLOCK    : L_NORM,      : fabricate a block buffer
140 1129 2     MARK_DIRTY      : L_NORM,      : mark buffer dirty
141 1130 2     READ_HEADER     : L_NORM,      : read file header
142 1131 2     EXTEND           : L_NORM,      : extend a file
143 1132 2     CHECKSUM        : L_NORM,      : checksum file header
144 1133 2     WRITE_HEADER    : L_NORM,      : write a file header
145 1134 2     MAP_VBN         : L_NORM;      : map virtual to logical
146 1135 2
147 1136 2
148 1137 2 ! Check the reserved file count to see if there is a bad block list file.
149 1138 2 ! If not, forget the whole thing. If there is, set up secondary context and
150 1139 2 ! open the file.
151 1140 2
152 1141 2
153 1142 2 IF .CURRENT_VCB[VCB$B_RESFILES] LSSU BADLOG_FID THEN RETURN;
154 1143 2
155 1144 2 SAVE_CONTEXT ();
156 1145 2 FIB = SECOND FIB;
157 1146 2 FIB[FIB$W_FID_NUM] = BADLOG_FID;
158 1147 2 FIB[FIB$W_FID_SEQ] = BADLOG_FID;
159 1148 2
160 1149 2 WINDOW = OPEN_FILE (FIB[FIB$W_FID], 1);
161 1150 2
162 1151 2 ! Scan the pending bad block file for a match on the given LBN (in remove mode,
163 1152 2 ! scan for the given range). Also look for the first available free space.
164 1153 2
165 1154 2
166 1155 2 FIRST_FREE = 0;
167 1156 2 VBN = 0;
168 1157 2
169 1158 2 SEARCH_LOOP: BEGIN
170 1159 3 WHILE T DO
171 1160 4     BEGIN
172 1161 4         VBN = .VBN + 1;
173 1162 4         P = READ_DATA (.WINDOW, .VBN, 1);
174 1163 4         IF .P EQ 0 THEN EXITLOOP;
175 1164 4
176 1165 4         INCR J FROM 0 TO 512/PBB$C_LENGTH - 1
177 1166 4         DO
178 1167 5             BEGIN
179 1168 5                 IF .MODE EQL REMOVE_BADBLOCK
180 1169 5                 THEN
181 1170 6                     BEGIN
182 1171 6                         IF .P[PBB$L_LBN] GEQU .BASE_LBN
183 1172 6                         AND .P[PBB$L_LBN] LSSU .BASE_LBN + .BLOCK_COUNT
184 1173 6                         THEN
185 1174 7                             BEGIN

```

```
186 1175 7          CH$FILL (0, PBB$C_LENGTH, .P);
187 1176 7          MARK_DIRTY (.P);
188 1177 6          END;
189 1178 6          END
190 1179 5      ELSE
191 1180 6          BEGIN
192 1181 6          IF .P[PBB$B_FLAGS] EQL 0
193 1182 6          AND .FIRST_FREE EQL 0
194 1183 6          THEN
195 1184 7              BEGIN
196 1185 7              FIRST_FREE = .VBN;
197 1186 7              FREE_OFFSET = .J * PBB$C_LENGTH;
198 1187 6              END;
199 1188 6          IF .P[PBB$L_LBN] EQL .BASE_LBN
200 1189 6          THEN
201 1190 7              BEGIN
202 1191 7              IF .P[PBB$B_COUNT] LSSU 255
203 1192 7              THEN P[PBB$B_COUNT] = .P[PBB$B_COUNT] + 1;
204 1193 7              IF .MODE EQL ENTER_READERR
205 1194 7              THEN P[PBB$V_READERR] = 1
206 1195 7              ELSE P[PBB$V_WRITERR] = 1;
207 1196 7              MARK_DIRTY (.P);
208 1197 7              LEAVE SEARCH_LOOP;
209 1198 6              END;
210 1199 5          END;
211 1200 5          P = .P + PBB$C_LENGTH;
212 1201 5          END;
213 1202 4          ! end of loop within block
214 1203 3      END;
215 1204 3          ! end of loop scanning blocks
216 1205 3      ! We get here if we fail to match on the block (or were scanning to remove).
217 1206 3      ! On a remove, we are now done. For an enter, take the first free slot found.
218 1207 3      ! If there was none, we have to extend the file.
219 1208 3      !
220 1209 3      !
221 1210 3      IF .MODE EQL REMOVE_BADBLOCK THEN LEAVE SEARCH_LOOP;
222 1211 3      !
223 1212 3      IF .FIRST_FREE EQL 0
224 1213 3      THEN
225 1214 4          BEGIN
226 1215 4          FCB = .WINDOW[WCB$L_FCB];
227 1216 4          HEADER = READ_HEADER (0, .FCB);
228 1217 4          !
229 1218 4          IF .FCB[FCB$L_EFBLK] GEQU .FCB[FCB$L_FILESIZE]
230 1219 4          THEN
231 1220 5              BEGIN
232 1221 5              FIB[FIB$L_EXSZ] = 1;
233 1222 5              FIB[FIB$V_NOHDREXT] = 1;
234 1223 5              EXTEND (.FIB, .HEADER);
235 1224 4              END;
236 1225 4          !
237 1226 4          BBLOCK [HEADER[FH2$W_RECATTR], FAT$W_EFBLKL] =
238 1227 4          .BBLOCK [HEADER[FH2$W_RECATTR], FAT$W_EFBLKL] + 1;
239 1228 4          !
240 1229 4          ! If this file header supports it, stuff the high water field to
241 1230 4          ! be the allocated size.
242 1231 4          !
```

```

243 1232 4
244 1233 4 IF .HEADER [FH2$B_IDOFFSET] GEQU ($BYTEOFFSET (FH2$L_HIGHWATER)+4)/2
245 1234 4 THEN
246 1235 4     HEADER[FH2$L_HIGHWATER] = .BBLOCK [HEADER[FH2$W_RECATTR], FAT$W_EFBLKL];
247 1236 4
248 1237 4 CHECKSUM (.HEADER);
249 1238 4 WRITE_HEADER ();
250 1239 4
251 1240 4 LBN = MAP_VBN (.VBN, .WINDOW);
252 1241 4 IF .LBN EQL -1
253 1242 4 THEN BUG_CHECK (HDRNOTMAP, FATAL, 'Block just created not mapped');
254 1243 4 P = CREATE_BLOCK (.LBN, 1, DATA_TYPE);
255 1244 4 FREE_OFFSET = 0;
256 1245 4 END
257 1246 4
258 1247 4 ELSE
259 1248 3     P = READ_DATA (.WINDOW, .FIRST_FREE, 1);
260 1249 3
261 1250 3 ! Now build the new bad block list entry.
262 1251 3 !
263 1252 3
264 1253 3 P = .P + .FREE_OFFSET;
265 1254 3
266 1255 3 CH$COPY (FID$C_LENGTH, .FID, 0, PBB$C_LENGTH, P[PBB$W_FID]);
267 1256 3 P[PBB$L_VBN] = .BASE_VBN;
268 1257 3 P[PBB$L_LBN] = .BASE_LBN;
269 1258 3 P[PBB$B_COUNT] = .P[PBB$B_COUNT] + 1;
270 1259 3 IF .MODE EQL ENTER_READERR
271 1260 3 THEN P[PBB$V_READERR] = 1
272 1261 3 ELSE P[PBB$V_WRITERR] = 1;
273 1262 3
274 1263 3 MARK_DIRTY (.P);
275 1264 3
276 1265 2 END;           ! end of block SEARCH_LOOP
277 1266 2
278 1267 2 CLOSE_FILE (.WINDOW); ! close the bad block list file
279 1268 2 RESTORE_CONTEXT ();
280 1269 2
281 1270 1 END;           ! end of routine SCAN_BADLOG

```

```

.TITLE  BADSCN
.IDENT  \V04-000\

.EXTRN  SAVE_CONTEXT, RESTORE_CONTEXT
.EXTRN  OPEN_FILE, READ_DATA
.EXTRN  CLOSE_FILE, CREATE_BLOCK
.EXTRN  MARK_DIRTY, READ_HEADER
.EXTRN  EXTEND, CHECKSUM
.EXTRN  WRITE_HEADER, MAP_VBN
.EXTRN  BUG$_HDRNOTMAP

.PSECT  $CODE$,NOWRT,2

.ENTRY  SCAN_BADLOG, Save R2,R3,R4,R5,R6,R7,R8,R9,- ; 1061
        R11
        #8, SP

```

5E

OBFC 0000
08 C2 0002

	50		98	AA	D0	00005		MOVL	-104(BASE), R0	1142
	09		4F	A0	91	00009		CMPB	79(R0), #9	
				01	1E	0000D		BGEQU	1\$	
				04	00	0000F		RET		
	0000G	CF		00	FB	00010	1\$:	CALLS	#0, SAVE_CONTEXT	1144
		57	0244	CA	9E	00015		MOVAB	580(BASE), FIB	1145
	04	A7	00090009	8F	D0	0001A		MOVL	#589833, 4(FIB)	1146
				01	DD	00022		PUSHL	#1	1149
			04	A7	9F	00024		PUSHAB	4(FIB)	
	0000G	CF		02	FB	00027		CALLS	#2, OPEN_FILE	
		5B		50	D0	0002C		MOVL	R0, WINDOW	
				59	D4	0002F		CLRL	FIRST_FREE	1155
				6E	D4	00031		CLRL	VBN	1156
				6E	D6	00033	2\$:	INCL	VBN	1161
				01	DD	00035		PUSHL	#1	1162
			04	AE	DD	00037		PUSHL	VBN	
				5B	DD	0003A		PUSHL	WINDOW	
	0000G	CF		03	FB	0003C		CALLS	#3, READ_DATA	
		56		50	D0	00041		MOVL	R0, P	
				57	13	00044		BEQL	8\$	1163
				58	D4	00046		CLRL	J	1165
			10	AC	D5	00048	3\$:	TSTL	MODE	1168
				22	12	0004B		BNEQ	4\$	
	OC	AC	OC	A6	D1	0004D		CMP	12(P), BASE_LBN	1171
				40	1F	00052		BLSSU	7\$	
	50	OC	AC	14	AC	00054		ADDL3	BLOCK_COUNT, BASE_LBN, R0	1172
		50	OC	A6	D1	0005A		CMP	12(P), R0	
				34	1E	0005E		BGEQU	7\$	
10		00	6E	00	2C	00060		MOVCS	#0, (SP), #0, #16, (P)	1175
				66		00065				
				56	DD	00066		PUSHL	P	1176
	0000G	CF		01	FB	00068		CALLS	#1, MARK_DIRTY	
				25	11	0006D		BRB	7\$	1168
			06	A6	95	0006F	4\$:	TSTB	6(P)	1181
				0C	12	00072		BNEQ	5\$	
				59	D5	00074		TSTL	FIRST_FREE	1182
				08	12	00076		BNEQ	5\$	
		59		6E	D0	00078		MOVL	VBN, FIRST_FREE	1185
	04	AE		04	78	0007B		ASHL	#4, J, FREE_OFFSET	1186
		OC	AC	0C	A6	00080	5\$:	CMP	12(P), BASE_LBN	1188
				0D	12	00085		BNEQ	7\$	
		FF	8F	07	A6	00087		CMPB	7(P), #255	1191
				03	1F	0008C		BLSSU	6\$	
				00A4	31	0008E		BRW	16\$	
				009E	31	00091	6\$:	BRW	15\$	
		56		10	C0	00094	7\$:	ADDL2	#16, P	1201
	AD	58		1F	F3	00097		AOBLEQ	#31, J, 3\$	1165
				96	11	0009B		BRB	2\$	1159
			10	AC	D5	0009D	8\$:	TSTL	MODE	1210
				03	12	000A0		BNEQ	9\$	
				00A7	31	000A2		BRW	19\$	
				59	D5	000A5	9\$:	TSTL	FIRST_FREE	1212
				6B	12	000A7		BNEQ	13\$	
		53	18	AB	D0	000A9		MOVL	24(WINDOW), FCB	1215
				53	DD	000AD		PUSHL	FCB	1216
				7E	D4	000AF		CLRL	-(SP)	
	0000G	CF		02	FB	000B1		CALLS	#2, READ_HEADER	

	38	52 A3	3C	50 A3 11	DO D1 1F	000B6 000B9 000BE	MOVL CML BLSSU	R0, HEADER 60(FCB), 56(FCB) 10\$	1218
	18 17	A7 A7		01 02 52 57	DO 88 DD DD	000C0 000C4 000C8 000CA	MOVL BISB2 PUSHL PUSHL	#1, 24(FIB) #2, 23(FIB) HEADER FIB	1221 1222 1223
	0000G	CF	1E	02 A2 62	FB B6 91	000CC 000D1 000D4	CALLS INCB CMPB	#2, EXTEND 30(HEADER) (HEADER), #40	1227 1233
		28		05 A2	1F 3C	000D7 000D9	BLSSU MOVZWL	11\$ 30(HEADER), 76(HEADER)	1235
	4C	A2	1E	52	DD	000DE	PUSHL	HEADER	1237
	0000G	CF		01	FB	000E0	CALLS	#1, CHECKSUM	
	0000G	CF		00	FB	000E5	CALLS	#0, WRITE_HEADER	1238
			04	5B	DD	000EA	PUSHL	WINDOW	1240
	0000G	CF		AE	DD	000EC	PUSHL	VBN	
	FFFFFFFF	8F		02	FB	000EF	CALLS	#2, MAP_VBN	
				50	D1	000F4	CML	LBN, #-T	1241
				04	12	000FB	BNEQ	12\$	
					FEFF	000FD	BUGW		1242
					0000*	000FF	.WORD	<BUG\$_HDRNOTMAP!4>	
				04	DD	00101	PUSHL	#4	1243
				01	DD	00103	PUSHL	#1	
				50	DD	00105	PUSHL	LBN	
	0000G	CF		03	FB	00107	CALLS	#3, CREATE_BLOCK	
		56		50	DO	0010C	MOVL	R0, P	
			04	AE	D4	0010F	CLRL	FREE_OFFSET	1244
				0E	11	00112	BRB	14\$	1212
				01	DD	00114	PUSHL	#1	1248
				59	DD	00116	PUSHL	FIRST_FREE	
	0000G	CF		5B	DD	00118	PUSHL	WINDOW	
		56		03	FB	0011A	CALLS	#3, READ_DATA	
		56		50	DO	0011F	MOVL	R0, P	
10			04	AE	C0	00122	ADDL2	FREE_OFFSET, P	1253
	00	04		06	2C	00126	MOVCS	#6, FID, #0, #16, (P)	1255
				66		0012C			
	08	A6	08	AC	7D	0012D	MOVQ	BASE_VBN, 8(P)	1256
			07	A6	96	00132	INCB	7(P)	1258
		01	10	AC	D1	00135	CML	MODE, #1	1259
				06	12	00139	BNEQ	17\$	
	06	A6		01	88	0013B	BISB2	#1, 6(P)	1260
				04	11	0013F	BRB	18\$	
	06	A6		02	88	00141	BISB2	#2, 6(P)	1261
				56	DD	00145	PUSHL	P	1263
	0000G	CF		01	FB	00147	CALLS	#1, MARK_DIRTY	
				5B	DD	0014C	PUSHL	WINDOW	1267
	0000G	CF		01	FB	0014E	CALLS	#1, CLOSE_FILE	
	0000G	CF		00	FB	00153	CALLS	#0, RESTORE_CONTEXT	1268
				04		00158	RET		1270

; Routine Size: 345 bytes, Routine Base: \$CODE\$ + 0000

```

: 282      1271  1
: 283      1272  1 END
: 284      1273  0 ELUDOM

```

PSECT SUMMARY

```
Name          Bytes          Attributes
SCODES        345 NOVEC,NOWRT, RD , EXE,NOSHR, LCL, REL, CON,NOPIC,ALIGN(2)
```

Library Statistics

File	Symbols		Pages Mapped	Processing Time
	Total	Loaded Percent		
_\$255\$DUA28:[SYSLIB]LIB.L32;1	18619	39 0	1000	00:02.0

COMMAND QUALIFIERS

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

: Size: 345 code + 0 data bytes
: Run Time: 00:21.3
: Elapsed Time: 00:49.9
: Lines/CPU Min: 3589
: Lexemes/CPU-Min: 43192
: Memory Used: 278 pages
: Compilation Complete

0168 AH-BT13A-SE
VAX/VMS V4.0

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The image displays a grid of 144 terminal windows, arranged in 12 rows and 12 columns. Each window contains text, likely representing the help text or usage instructions for a specific system utility. The text is dense and small, typical of a terminal display from the VAX/VMS era. Several windows are highlighted with larger, bolded text labels in the center of the grid, indicating specific utilities:

- CHKDMO LIS
- CLEUP LIS
- CHKPRO LIS
- CHARGO LIS
- COMMON LIS
- CREATE LIS
- BADSCR LIS
- ALLOCB LIS
- CHKHD2 LIS
- CHKSUM LIS