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RRRRRRRR      WW      WW      VV      VV      BBBB8888
RRRRRRRR      WW      WW      VV      VV      BPP88888
RR      RR      WW      WW      VV      VV      BB      BB
RR      RR      WW      WW      VV      VV      BB      BB
RR      RR      WW      WW      VV      VV      BB      BB
RR      RR      WW      WW      VV      VV      BB      BB
RRRRRRRR      WW      WW      VV      VV      88888888
RRRRRRRR      WW      WW      VV      VV      88888888
RR      RR      WW      WW      VV      VV      BB      BB
RR      RR      WW      WW      VV      VV      BB      BB
RR      RR      WWW      WWW      VV      VV      BB      BB
RR      RR      WWW      WWW      VV      VV      BB      BB
RR      RR      WW      WW      VV      VV      88888888
RR      RR      WW      WW      VV      VV      88888888

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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 RWVB (
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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0012 1 *  ALL RIGHTS RESERVED.
0013 1 *
0014 1 *  THIS SOFTWARE IS FURNISHED UNDER A LICENSE AND MAY BE USED AND COPIED
0015 1 *  ONLY IN ACCORDANCE WITH THE TERMS OF SUCH LICENSE AND WITH THE
0016 1 *  INCLUSION OF THE ABOVE COPYRIGHT NOTICE. THIS SOFTWARE OR ANY OTHER
0017 1 *  COPIES THEREOF MAY NOT BE PROVIDED OR OTHERWISE MADE AVAILABLE TO ANY
0018 1 *  OTHER PERSON. NO TITLE TO AND OWNERSHIP OF THE SOFTWARE IS HEREBY
0019 1 *  TRANSFERRED.
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0021 1 *  THE INFORMATION IN THIS SOFTWARE IS SUBJECT TO CHANGE WITHOUT NOTICE
0022 1 *  AND SHOULD NOT BE CONSTRUED AS A COMMITMENT BY DIGITAL EQUIPMENT
0023 1 *  CORPORATION.
0024 1 *
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 1
0034 1
0035 1 ABSTRACT:
0036 1
0037 1     This routine performs the window turn necessary to map a
0038 1     virtual I/O transfer which is not mapped by the current
0039 1     window. It also receives virtual I/O errors for bad block
0040 1     processing.
0041 1
0042 1 ENVIRONMENT:
0043 1
0044 1     STARLET operating system, including privileged system services
0045 1     and internal exec routines.
0046 1
0047 1 --
0048 1
0049 1
0050 1 AUTHOP:  Andrew C. Goldstein,  CREATION DATE:  7-Jan-1977  00:48
0051 1
0052 1 MODIFIED BY:
0053 1
0054 1     V03-006 CDS0005      Christian D. Saether      2-Mar-1984
0055 1     Add support for WRITE_TURN trapping.
0056 1
0057 1     V03-005 CDS0004      Christian D. Saether      26-Feb-1984

```

```
58 0058 1 | Call UNLOCK_XQP before requeueing the packet.
59 0059 1 |
60 0060 1 | V03-004 CDS0003 Christian D. Saether 30-Dec-1983
61 0061 1 | Use L_NORM linkage and BIND_COMMON macro.
62 0062 1 |
63 0063 1 | V03-003 CDS0002 Christian D. Saether 14-Sep-1983
64 0064 1 | Modify SERIAL_FILE interface.
65 0065 1 |
66 0066 1 | V03-002 CDS0001 Christian D. Saether 5-May-1983
67 0067 1 | Add SERIAL_FILE cali to synchronize xqp operations.
68 0068 1 |
69 0069 1 | V03-001 ACG0320 Andrew C. Goldstein, 22-Mar-1983 12:44
70 0070 1 | Change byte count handling to track changes in IOPOST
71 0071 1 |
72 0072 1 | V02-002 ACG0192 Andrew C. Goldstein, 18-Feb-1981 20:44
73 0073 1 | Fix attempt at bad block handling on write locked disk
74 0074 1 |
75 0075 1 | V02-001 ACG0167 Andrew C. Goldstein, 16-Apr-1980 19:27
76 0076 1 | Previous revision history moved to F11B.REV
77 0077 1 | **
78 0078 1 |
79 0079 1 |
80 0080 1 | LIBRARY 'SYSS$LIBRARY:LIB.L32';
81 0081 1 | REQUIRE 'SRCS:F11BDEF.B32';
82 1072 1 |
83 1073 1 |
84 1074 1 | FORWARD ROUTINE
85 1075 1 | READ WRITEVB : L_NORM, ! main read/write virtual handling
86 1076 1 | MARKBAD_FCB; ! mark bad block in FCB
```

```

88 1077 1 GLOBAL ROUTINE READ_WRITEVB : L_NORM =
89 1078 1
90 1079 1  +-+
91 1080 1
92 1081 1 FUNCTIONAL DESCRIPTION:
93 1082 1
94 1083 1     This routine performs the window turn necessary to map a
95 1084 1     virtual I/O transfer which is not mapped by the current
96 1085 1     window. It also receives virtual I/O errors for bad block
97 1086 1     processing. These are presently simply returned to the user.
98 1087 1
99 1088 1 CALLING SEQUENCE:
100 1089 1     READ_WRITEVB ( )
101 1090 1
102 1091 1 INPUT PARAMETERS:
103 1092 1     NONE
104 1093 1
105 1094 1 IMPLICIT INPUTS:
106 1095 1     IO_PACKET: I/O packet of request
107 1096 1
108 1097 1 OUTPUT PARAMETERS:
109 1098 1     NONE
110 1099 1
111 1100 1 IMPLICIT OUTPUTS:
112 1101 1     NONE
113 1102 1
114 1103 1 ROUTINE VALUE:
115 1104 1     1 if request queued to driver
116 1105 1     0 if error
117 1106 1
118 1107 1 SIDE EFFECTS:
119 1108 1     window turned
120 1109 1     request queued to driver if mapped
121 1110 1
122 1111 1 --
123 1112 1
124 1113 2 BEGIN
125 1114 2
126 1115 2 LOCAL
127 1116 2     PACKET           : REF BBLOCK,      ! pointer to I/O packet
128 1117 2     WINDOW           : REF BBLOCK,      ! file window
129 1118 2     FCB              : REF BBLOCK,      ! file FCB
130 1119 2     BLOCK_COUNT,    ! number of blocks in transfer
131 1120 2     UNMAPPED,      ! number of blocks not mapped
132 1121 2     MODE,          ! mode (read/write) of transfer
133 1122 2     VBN,           ! starting VBN of transfer
134 1123 2     LBN,           ! translated LBN
135 1124 2     LAST_LBN;      ! highest LBN touched by operation
136 1125 2
137 1126 2 BIND_COMMON;
138 1127 2
139 1128 2 EXTERNAL ROUTINE
140 1129 2     UNLOCK_XQP      : L_NORM,          ! unlock xqp and release cache
141 1130 2     SERIAL_FILE     : L_NORM,          ! serialize file operations
142 1131 2     ALLOCATION_LOCK  : L_NORM,          ! get volume allocation lock
143 1132 2     MAP_VBN        : L_NORM,          ! map and turn window
144 1133 2     REQDEUE_REQ    : L_NORM,          ! requeue request to driver

```

```
145 1134 2          SCAN_BADLOG      : L_NORM;          ! scan bad block log file
146 1135 2
147 1136 2
148 1137 2 ! Extract the request parameters from the I/O packet. Compute VBN and LBN
149 1138 2 ! of the next block to be transferred.
150 1139 2
151 1140 2
152 1141 2 PACKET = .IO PACKET;
153 1142 2 WINDOW = .PACKET[IRPSL_WIND];
154 1143 2 BLOCK_COUNT = (.PACKET[IRPSW_BCNT]+511) / 512;
155 1144 2 VBN = .PACKET[IRPSL_SEGVBN];
156 1145 2
157 1146 2 IF .VBN EQL 0 THEN ERR_EXIT (SS$_BADPARAM);
158 1147 2
159 1148 2 FCB = .WINDOW[WCBSL_FCB];
160 1149 2
161 1150 2 ! Serialize further processing on this file.
162 1151 2
163 1152 2
164 1153 2 PRIM_LCKINDX = SERIAL_FILE (FCB [FCBSW_FID]);
165 1154 2
166 1155 2 ! Attempt to map the request. If the map fails, report
167 1156 2 ! failure. Else requeue the request to the driver.
168 1157 2
169 1158 2
170 1159 2 LBN = MAP VBN (.VBN, .WINDOW, .BLOCK_COUNT, UNMAPPED);
171 1160 2 IF .LBN EQL -1 THEN ERR_EXIT (SS$_ENDOFFILE);
172 1161 2
173 1162 2 IF .PACKET[IRPSV_VIRTUAL]
174 1163 2 THEN
175 1164 2 BEGIN
176 1165 2 LAST_LBN = .LBN + (.BLOCK_COUNT - .UNMAPPED - 1);
177 1166 2 IF .LBN GEQU .CURRENT_UCB[UCBSL_MAXBLOCK]
178 1167 2 OR .LAST_LBN GEQU .CURRENT_UCB[UCBSL_MAXBLOCK]
179 1168 2 THEN ERR_EXIT (SS$_ILLBLKNOM);
180 1169 2
181 1170 2 IF .WINDOW [WCBSV_WRITE_TURN]
182 1171 2 THEN
183 1172 2 IF .FCB [FCBSB_FID_NMX] NEQ 0
184 1173 2 OR .FCB [FCBSW_FID_NUM] GTRU 2
185 1174 2 THEN
186 1175 2
187 1176 2 ! This is not the index file or bitmap file, so we assume it
188 1177 2 ! is a directory. Simply bump the data sequence number. The
189 1178 2 ! unlock_xqp will store the updated value block.
190 1179 2
191 1180 2
192 1181 2 LB_DATASEQ [.PRIM_LCKINDX] = .LB_DATASEQ [.PRIM_LCKINDX] + 1
193 1182 2 ELSE
194 1183 2 BEGIN
195 1184 2 IF .FCB [FCBSW_FID_NUM] EQL 1
196 1185 2 THEN
197 1186 2
198 1187 2 ! This is the index file. Determine if the VBN being written is within
199 1188 2 ! the index file bitmap or in the header area, and increment the appropriate
200 1189 2 ! sequence number to invalidate cached buffers.
201 1190 2
```

```
202 1191 4
203 1192 5 BEGIN
204 1193 5 LOCAL
205 1194 5 HDRBASE;
206 1195 5
207 1196 5 HDRBASE = .CURRENT_VCB [VCBSW_CLUSTER]*4
208 1197 5 + .CURRENT_VCB [VCBSB_IBMAPSIZE];
209 1198 5
210 1199 5 ! Loop for all blocks being written.
211 1200 5 !
212 1201 5
213 1202 6 INCR I FROM 0 TO (.BLOCK_COUNT - 1)
214 1203 5 DO
215 1204 6 BEGIN
216 1205 6 LOCAL
217 1206 6 FID : BBLOCK [6];
218 1207 6
219 1208 6 UNLOCK_XQP ();
220 1209 6
221 1210 6 FID = .VBN + .I;
222 1211 6
223 1212 6 IF .FID LEQU .HDRBASE
224 1213 6 THEN
225 1214 6
226 1215 6 ! This is not within the header area. Assume it is the index file bitmap.
227 1216 6 !
228 1217 6
229 1218 7 BEGIN
230 1219 7 ALLOCATION_LOCK ();
231 1220 7 (LB_DATASEQ [0])<16,16> = .(LB_DATASEQ [0])<16,16> + 1;
232 1221 7 END
233 1222 6 ELSE
234 1223 6
235 1224 6 ! This is within the header area. Calculate the file number and bump
236 1225 6 ! it's sequence number. Note that extension headers are locked under
237 1226 6 ! the primary header's file number, and hence this does not directly
238 1227 6 ! invalidate them. However, we will assume that whatever is out there
239 1228 6 ! mucking with headers in the first place will know enough to rewrite
240 1229 6 ! the primary header when screwing with extension headers and get them
241 1230 6 ! in that fashion.
242 1231 6 !
243 1232 6
244 1233 7 BEGIN
245 1234 7 LOCAL
246 1235 7 LCKINDX;
247 1236 7
248 1237 7 FID = .FID - .HDRBASE;
249 1238 7 FID [FIDSB_NMX] = .FID<16,8>;
250 1239 7 FID [FIDSB_RVN] = .CURRENT_RVN;
251 1240 7 LCKINDX = SERIAL_FILE (FID);
252 1241 7 LB_HDRSEQ [.LCKINDX] = .LB_HDRSEQ [.LCKINDX] + 1;
253 1242 6 END;
254 1243 5 END; ! of loop through all blocks
255 1244 5 ELSE END ! of this is file number 1
256 1245 4
257 1246 4
258 1247 4 ! This is for file number 2, which is the storage bitmap. Invalidate
```

```

259 1248 4 ! entries cached for it.
260 1249 4 !
261 1250 4 !
262 1251 5 BEGIN
263 1252 5 ALLOCATION_LOCK ();
264 1253 5 (LB_DATASEQ [0])<0,16> = .(LB_DATASEQ [0])<0,16> + 1;
265 1254 4 END;
266 1255 3 END; ! of either file 1 or 2.
267 1256 3
268 1257 3 UNLOCK_XQP ();
269 1258 3 KERNEL_CALL (REQUEUE_REQ, .PACKET, .LBN, .UNMAPPED);
270 1259 3 RETURN 1;
271 1260 3 END
272 1261 3
273 1262 3 ! If the virtual bit is not set, this is an I/O error on a file sent here
274 1263 3 ! for bad block processing. If the error is a parity, format, or datacheck
275 1264 3 ! error, we set the bad block bit in the FCB of the file and enter the
276 1265 3 ! block in question into the volume's bad block log. Note that we do not
277 1266 3 ! do this on errors on the volume's reserved files, which are not subject
278 1267 3 ! to dynamic bad block processing.
279 1268 3 !
280 1269 3
281 1270 2 ELSE
282 1271 3 BEGIN
283 1272 3 USER_STATUS[0] = .PACKET[IRPSL_IOST1]; ! get status to return to user
284 1273 3 USER_STATUS[1] = .PACKET[IRPSL_IOST2];
285 1274 3
286 1275 3 IF
287 1276 3 NOT .BBLOCK [CURRENT_UCB[UCBSL_DEVCHAR], DEV$V_SWL]
288 1277 4 AND (
289 1278 4 .(PACKET[IRPSL_IOST1])<0,16> EQL SSS_PARITY
290 1279 4 OR .(PACKET[IRPSL_IOST1])<0,16> EQL SSS_DATACHECK
291 1280 4 OR .(PACKET[IRPSL_IOST1])<0,16> EQL SSS_FORMAT
292 1281 4 )
293 1282 4 AND (
294 1283 4 .FCB[FCBSW_FID_NUM] GTRU .CURRENT_VCB[VCBSB_RESFILES]
295 1284 5 OR (.CURRENT_VCB[VCBSV_EXTFID]
296 1285 5 AND .FCB[FCBSB_FID_NMX] NEQ 0)
297 1286 4 )
298 1287 3 THEN
299 1288 4 BEGIN
300 1289 4 KERNEL_CALL (MARKBAD_FCB, .FCB);
301 1290 4 MODE = ENTER_READERR; ! assume read
302 1291 4 IF .PACKET[IRPSV_FCODE] EQL IOS_WRITEPBLK
303 1292 4 THEN MODE = ENTER_WRITERR;
304 1293 4 SCAN_BADLOG (FCB[FCBSW_FID], .VBN, .LBN, .MODE, 0);
305 1294 3 END;
306 1295 3 RETURN 0;
307 1296 2 END;
308 1297 2
309 1298 1 END; ! end of routine READ_WRITEVB
```

```
.TITLE RWVB
.IDENT \V04-000\
.EXTRN UNLOCK_XQP, SERIAL_FILE
```


				.EXTRN	ALLOCATION LOCK		
				.EXTRN	MAP_VBN, REQUEUE_REQ		
				.EXTRN	SCAN_BADLOG		
				.PSECT	\$CODE\$,NOWRT,2		
			03FC	00000	.ENTRY	READ_WRITEVB, Save R2,R3,R4,R5,R6,R7,R8,R9	: 1077
	5E		OC	C2 00002	SUBL2	#12, SP	:
	59	80	AA	9E 00005	MOVAB	-128(BASE), R9	: 1124
	57	00A8	CA	9E 00009	MOVAB	168(BASE), R7	:
	54	90	AA	D0 0000E	MOVL	-112(BASE), PACKET	: 1141
	56	18	A4	D0 00012	MOVL	24(PACKET), WINDOW	: 1142
	50	32	A4	3C 00016	MOVZWL	50(PACKET), R0	: 1143
	50	01FF	C0	9E 0001A	MOVAB	511(R0), R0	:
52	50	00000200	8F	C7 0001F	DIVL3	#512, R0, BLOCK_COUNT	:
	58	48	A4	D0 00027	MOVL	72(PACKET), VBN	: 1144
			03	12 0002B	BNEQ	1\$: 1146
			14	BF 0002D	CHMU	#20	:
			04	0002F	RET		:
	53	18	A6	D0 00030	1\$: MOVL	24(WINDOW), FCB	: 1148
		24	A3	9F 00034	PUSHAB	36(FCB)	: 1153
	0000G	CF	01	FB 00037	CALLS	#1, SERIAL FILE	:
	18	AA	50	D0 0003C	MOVL	R0, 24(BASE)	:
			4004	8F BB 00040	PUSHR	#*M<R2,SP>	: 1159
			56	DD 00044	PUSHL	WINDOW	:
	0000G	CF	58	DD 00046	PUSHL	VBN	:
		55	04	FB 00048	CALLS	#4, MAP_VBN	:
	FFFFFFFF	8F	50	D0 0004D	MOVL	R0, LBN	:
			55	D1 00050	CMPL	LBN, #-1	: 1160
			0870	05 12 00057	BNEQ	2\$:
			8F	BF 00059	CHMU	#2160	:
			04	0005D	RET		:
03	2A	A4	04	E0 0005E	2\$: BBS	#4, 42(PACKET), 3\$: 1162
			0CAB	31 00063	BRW	13\$:
50		52	6E	C3 00066	3\$: SUBL3	UNMAPPED, BLOCK_COUNT, R0	: 1165
		51	FF	A045 9E 0006A	MOVAB	-1(R0)[LBN], LAST_LBN	:
		50	94	AA D0 0006F	MOVL	-108(BASE), R0	: 1166
	00B0	C0	55	D1 00073	CMPL	LBN, 176(R0)	:
			07	1E 00078	BGEQU	4\$:
	00B0	C0	51	D1 0007A	CMPL	LAST_LBN, 176(F	: 1167
			00DC	05 1F 0007F	BLSSU	5\$:
			8F	BF 00081	4\$: CHMU	#220	: 1168
			04	00085	RET		:
71	15	A6	04	E1 00086	5\$: BBC	#4, 21(WINDOW), 12\$: 1170
			29	A3 95 0008B	TSTB	41(F'B)	: 1172
			06	12 0008E	BNEQ	6\$:
	02	24	A3	B1 00090	CMPW	36(FCB), #2	: 1173
			09	1B 00094	BLEQU	7\$:
	5C	18	AA	D0 00096	6\$: MOVL	24(BASE), R0	: 1181
			6740	D6 0009A	INCL	(R7)[R0]	:
			5D	11 0009D	BRB	12\$:
	01	24	A3	B1 0009F	7\$: CMPW	36(FCB), #1	: 1184
			50	12 000A3	BNEQ	11\$:
	50	98	AA	D0 000A5	MOVL	-104(BASE), R0	: 1196
	51	3C	A0	3C 000A9	MOVZWL	60(R0), R1	:
	50	38	A0	9A 000AD	MOVZBL	56(R0), R0	: 1197
	56		6041	DE 000B1	MOVAL	(R0)[R1], HDRBASE	:

RWVB
V04-000

K 16
16-Sep-1984 01:07:50
14-Sep-1984 12:30:45

VAX-11 Bliss-32 V4.0-742
DISK\$VMSMASTER:[FIX.SRC]RWVB.B32;1 Page 9 (2)

```

: 311      1299 1 GLOBAL ROUTINE MARKBAD_FCB (FCB) =
: 312      1300 1
: 313      1301 1 ++
: 314      1302 1
: 315      1303 1 FUNCTIONAL DESCRIPTION:
: 316      1304 1
: 317      1305 1     This routine set the bad block bit in the indicated FCB.
: 318      1306 1
: 319      1307 1
: 320      1308 1 CALLING SEQUENCE:
: 321      1309 1     MARKBAD_FCB (ARG1)
: 322      1310 1
: 323      1311 1 INPUT PARAMETERS:
: 324      1312 1     ARG1: address of FCB
: 325      1313 1
: 326      1314 1 IMPLICIT INPUTS:
: 327      1315 1     NONE
: 328      1316 1
: 329      1317 1 OUTPUT PARAMETERS:
: 330      1318 1     NONE
: 331      1319 1
: 332      1320 1 IMPLICIT OUTPUTS:
: 333      1321 1     NONE
: 334      1322 1
: 335      1323 1 ROUTINE VALUE:
: 336      1324 1     1
: 337      1325 1
: 338      1326 1 SIDE EFFECTS:
: 339      1327 1     bad bit set in FCB
: 340      1328 1
: 341      1329 1 --
: 342      1330 1
: 343      1331 2 BEGIN
: 344      1332 2
: 345      1333 2 MAP
: 346      1334 2     FCB          : REF BBLOCK;    ! FCB argument
: 347      1335 2
: 348      1336 2
: 349      1337 2 FCB[FCB$V_BADBLK] = 1;
: 350      1338 2
: 351      1339 2 RETURN 1;
: 352      1340 2
: 353      1341 1 END;                                ! end of routine MARKBAD_FCB

```

```

                0000 0000      .ENTRY MARKBAD_FCB, Save nothing      : 1299
                22  50      04  AC  D0 00002      MOVL   FCB, R0              : 1337
                22  A0      04  88 00006      BISB2  #4, 34(R0)          :
                22  50      01  D0 0000A      MOVL   #1, R0             : 1339
                22      04 0000D      RET                                : 1341

```

; Routine Size: 14 bytes, Routine Base: \$CODE\$ + 0173

RWVB
V04-000

M 16
16-Sep-1984 01:07:50
14-Sep-1984 12:30:45

VAX-11 Bliss-32 V4.0-742
DISK\$VMMASTER:[F11X.SRC]RWVB.B32;1 Page 11
(3)

: 354 1342 1
: 355 1343 1 END
: 356 1344 0 ELUDOM

PSECT SUMMARY

Name Bytes Attributes
\$CODE\$ 385 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	43	0	1000	00:02.0

COMMAND QUALIFIERS

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

: Size: 385 code + 0 data bytes
: Run Time: 00:21.2
: Elapsed Time: 00:47.6
: Lines/CPU Min: 3805
: Lexemes/CPU-Min: 44304
: Memory Used: 269 pages
: Compilation Complete

Terminal 01	Terminal 02	Terminal 03	Terminal 04	Terminal 05	Terminal 06	Terminal 07	Terminal 08	Terminal 09	Terminal 10
Terminal 11	Terminal 12	Terminal 13	Terminal 14	Terminal 15	Terminal 16	Terminal 17	Terminal 18	Terminal 19	Terminal 20
Terminal 21	Terminal 22	Terminal 23	Terminal 24	Terminal 25	Terminal 26	Terminal 27	Terminal 28	Terminal 29	Terminal 30
Terminal 31	Terminal 32	Terminal 33	Terminal 34	Terminal 35	Terminal 36	Terminal 37	Terminal 38	Terminal 39	Terminal 40
Terminal 41	Terminal 42	Terminal 43	Terminal 44	Terminal 45	Terminal 46	Terminal 47	Terminal 48	Terminal 49	Terminal 50
Terminal 51	Terminal 52	Terminal 53	Terminal 54	Terminal 55	Terminal 56	Terminal 57	Terminal 58	Terminal 59	Terminal 60
Terminal 61	Terminal 62	Terminal 63	Terminal 64	Terminal 65	Terminal 66	Terminal 67	Terminal 68	Terminal 69	Terminal 70
Terminal 71	Terminal 72	Terminal 73	Terminal 74	Terminal 75	Terminal 76	Terminal 77	Terminal 78	Terminal 79	Terminal 80
Terminal 81	Terminal 82	Terminal 83	Terminal 84	Terminal 85	Terminal 86	Terminal 87	Terminal 88	Terminal 89	Terminal 90
Terminal 91	Terminal 92	Terminal 93	Terminal 94	Terminal 95	Terminal 96	Terminal 97	Terminal 98	Terminal 99	Terminal 100