


```

BBBBBBBB      AAAAAA      SSSSSSSS      IIIIII      000000      EEEEEEEEEE      NN      NN      DDDDDDDD
BBBBBBBB      AAAAAA      SSSSSSSS      IIIIII      000000      EEEEEEEEEE      NN      NN      DDDDDDDD
BB      BB      AA      AA      SS      II      00      00      FF      NN      NN      DD      DD
BB      BB      AA      AA      SS      II      00      00      FF      NN      NN      DD      DD
BB      BB      AA      AA      SS      II      00      00      FF      NNNN      NN      DD      DD
BBBBBBBB      AA      AA      SSSSSS      II      00      00      FEEEEEEEE      NN      NN      DD      DD
BBBBBBBB      AA      AA      SSSSSS      II      00      00      FEEEEEEEE      NN      NN      DD      DD
BB      BB      AAAAAAAAAA      SS      II      00      00      FF      NN      NNNN      DD      DD
BB      BB      AAAAAAAAAA      SS      II      00      00      FF      NN      NNNN      DD      DD
BB      BB      AA      AA      SS      II      00      00      FF      NN      NN      DD      DD
BB      BB      AA      AA      SS      II      00      00      FF      NN      NN      DD      DD
BBBBBBBB      AA      AA      SSSSSSSS      IIIIII      000000      EEEEEEEEEE      NN      NN      DDDDDDDD
BBBBBBBB      AA      AA      SSSSSSSS      IIIIII      000000      EEEEEEEEEE      NN      NN      DDDDDDDD

```

```

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 BASSIO_END (
2 0002 0 IDENT = '1-028'
3 0003 0 ) =
4 0004 1 BEGIN
5 0005 1
6 0006 1 *****
7 0007 1 *
8 0008 1 * COPYRIGHT (c) 1978, 1980, 1982, 1984 BY
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25 0025 1 *
26 0026 1 *
27 0027 1 *****
28 0028 1
29 0029 1
30 0030 1 ++
31 0031 1 FACILITY: BASIC Support Library - user callable
32 0032 1
33 0033 1 ABSTRACT:
34 0034 1
35 0035 1 This module terminates a BASIC I/O statement, writes
36 0036 1 last record if output, and pops up the I/O system to
37 0037 1 a previously active I/O statement if any.
38 0038 1
39 0039 1 ENVIRONMENT: User access mode; mixture of AST level or not
40 0040 1
41 0041 1 AUTHOR: Donald G. Petersen, CREATION DATE: 19-Mar-78
42 0042 1
43 0043 1 MODIFIED BY:
44 0044 1
45 0045 1 0-14 - If ISB$B_ERR_NO is non-zero, SIGNAL its contents. JMT
46 0046 1 14-Jan-78
47 0047 1 Donald G. Petersen, 19-Mar-78 : VERSION 1-01
48 0048 1 1-01 - original BASIC
49 0049 1 1-02 - debugging. DGP 07-Jun-78
50 0050 1 1-03 - debug. DGP 07-Jun-78
51 0051 1 1-05 - If there is a Prompt outstanding at I/O end, make it a Print.
52 0052 1 DGP 28-Sep-78
53 0053 1 1-06 - Change declaration of CCB from EXTERNAL to GLOBAL
54 0054 1 DGP 09-Nov-78
55 0055 1 1-07 - Change to JSB linkage. DGP 14-Nov-78
56 0056 1 1-009 - Add device names to REQUIRE files and update copyright
57 0057 1 notice. JBS 29-NOV-78

```

```
58 0058 1 1-010 - Change LUB$B_LUN to LUB$W_LUN. JBS 05-DEC-78
59 0059 1 1-011 - Change REQUIRE file names from FOR... to OTS... JBS 06-DEC-78
60 0060 1 1-012 - Change dispatch table references to longword. DGP 11-Dec-78
61 0061 1 1-013 - Change calls to FOR$$CB_POP to BASS$$CB_POP. JBS 29-DEC-78
62 0062 1 1-014 - Change reference to FOR$$FREE_VM to LIB$FREE_VM. DGP 16-Jan-79
63 0063 1 1-015 - Use 32 bit addresses for externals. JBS 27-JAN-1979
64 0064 1 1-016 - If ISB$W_FMT_LEN is zero, don't try to free any object
65 0065 1 time format. JBS 12-MAR-1979
66 0066 1 1-017 - Change PRINT_POS to longword. DGP 19-Mar-79
67 0067 1 1-018 - Clear ISB$W_FMT_LEN before calling CB_POP. DGP 29-May-79
68 0068 1 1-019 - Don't actually deallocate the format string. DGP 30-May-79
69 0069 1 1-020 - Use language-specific dispatch tables. JBS 26-JUN-1979
70 0070 1 1-021 - Use ISB symbols for dispatching. JBS 12-JUL-1979
71 0071 1 1-022 - Set up ISB$A_USER_FP. JBS 27-JUL-1979
72 0072 1 1-023 - Reset LUB$V_FORM_CHAR (format character pending flag) if ISB$V_PRINT_INI
73 0073 1 is still set indicating that there were no element transmitters. DGP
74 0074 1 07-Mar-80
75 0075 1 1-024 - Add BASS$ANSI_IO_END entry point. PLL 30-Jul-81
76 0076 1 1-025 - Modify BASS$ANSI_IO_END to return a status. PLL 22-Jul-1982
77 0077 1 1-026 - BASS$ANSI_IO_END always returns failure - fix this! PLL 10-Aug-1982
78 0078 1 1-027 - TOOMUCDAT should be signalled via SIGNAL_IO, not SIGNAL.
79 0079 1 MDL 22-Nov-1982
80 0080 1 1-028 - TOOMUCDAT should only be signalled if the buffer pointer
81 0081 1 is less than the end of the buffer rather than simply not
82 0082 1 equal to the end. MDL 30-Nov-1982
83 0083 1 --
84 0084 1
85 0085 1 !<BLF/PAGE>
```

```
87 0086 1 |  
88 0087 1 | SWITCHES:  
89 0088 1 |  
90 0089 1 |  
91 0090 1 | SWITCHES ADDRESSING_MODE (EXTERNAL = GENERAL, NONEXTERNAL = WORD_RELATIVE);  
92 0091 1 |  
93 0092 1 |  
94 0093 1 | LINKAGES  
95 0094 1 |  
96 0095 1 |  
97 0096 1 | REQUIRE 'RTLIN:OTSLNK'; ! Initialize all linkages  
98 0525 1 |  
99 0526 1 |  
100 0527 1 | TABLE OF CONTENTS:  
101 0528 1 |  
102 0529 1 |  
103 0530 1 | FORWARD ROUTINE  
104 0531 1 | BASSANSI IO_END, ! ANSI entry point (for INPUT)  
105 0532 1 | BASSIO_END : NOVALUE; ! End I/O statement  
106 0533 1 |  
107 0534 1 |  
108 0535 1 | INCLUDE FILES:  
109 0536 1 |  
110 0537 1 |  
111 0538 1 | REQUIRE 'RTLML:OTSISB'; ! I/O statement block (ISB)  
112 0706 1 |  
113 0707 1 | REQUIRE 'RTLML:OTSLUB'; ! needed only for LUB length  
114 0847 1 |  
115 0848 1 | REQUIRE 'RTLIN:OTSMAC'; ! macros  
116 1042 1 |  
117 1043 1 | REQUIRE 'RTLIN:RTLPSECT'; ! Define DECLARE_PSECTS macro  
118 1138 1 |  
119 1139 1 | REQUIRE 'RTLML:BASPAR'; ! BASIC inter-module parameters  
120 1161 1 |  
121 1162 1 | LIBRARY 'RTLSTARLE'; ! STARLET library for macros and symbols  
122 1163 1 |  
123 1164 1 |  
124 1165 1 | MACROS:  
125 1166 1 |  
126 1167 1 | NONE  
127 1168 1 |  
128 1169 1 | EQUATED SYMBOLS:  
129 1170 1 |  
130 1171 1 | NONE  
131 1172 1 |  
132 1173 1 | PSECT DECLARATIONS:  
133 1174 1 |  
134 1175 1 | DECLARE_PSECTS (BAS); ! declare PSECTs for BASS facility  
135 1176 1 |  
136 1177 1 | OWN STORAGE:  
137 1178 1 |  
138 1179 1 | NONE  
139 1180 1 |  
140 1181 1 | EXTERNAL REFERENCES:  
141 1182 1 |  
142 1183 1 |  
143 1184 1 | EXTERNAL LITERAL
```

```
144 1185 1 BASSK_TOOMUCDAT, ! BAS Too much data in record
145 1186 1 OTSS_FATINTERR; ! OTS Fatal Internal error
146 1187 1
147 1188 1 EXTERNAL
148 1189 1 OTSS$A_CUR_LUB : ADDRESSING_MODE (GENERAL), ! Adr of current LUB/ISB/RAB
149 1190 1 !+
150 1191 1 ! Array of user data formatter (UDF) level of abstraction.
151 1192 1 !-
152 1193 1 BASS$AA_UDF_PR9 : VECTOR;
153 1194 1
154 1195 1 EXTERNAL ROUTINE
155 1196 1 BASSPRINT, ! BASIC Print initialize
156 1197 1 BASSOUT_T_DX_S, ! BASIC output text element transmitter
157 1198 1 BASSOUT_T_DX_C, ! BASIC output text element transmitter
158 1199 1 BASSOUT_T_DX_B, ! BASIC output text element transmitter
159 1200 1 LIB$FREE_VM, ! Return dynamically allocated virtual memory
160 1201 1 BASS$CB_POP : JSB CB_POP NOVALUE, ! Pop entire I/O system back to previous LUB/ISB/RAB
161 1202 1 LIB$STOP : NOVALUE, ! Signal OTS errors
162 1203 1 BASS$SIGNAL_IO : NOVALUE; ! Signal an error with a small error number
163 1204 1
```

```

165 1205 1 GLOBAL ROUTINE BASSANSI_IO_END = .
166 1206 1
167 1207 1
168 1208 1  ++
169 1209 1  FUNCTIONAL DESCRIPTION:
170 1210 1      This entr, point is used to implement Minimal ANSI INPUT only.
171 1211 1      If the user entered more data than requested, signal a
172 1212 1      warning message.
173 1213 1
174 1214 1  FORMAL PARAMETERS:
175 1215 1      NONE
176 1216 1
177 1217 1  IMPLICIT INPUTS:
178 1218 1
179 1219 1
180 1220 1      OTSS$A_CUR_LUB      current I/O control block
181 1221 1      ISB$B_STM_TYPE      I/O statement type code
182 1222 1      LUB$A_BUF_PTR      addr of next byte in buffer
183 1223 1      LUB$A_BUF_END      addr+1 of last byte in buffer
184 1224 1
185 1225 1  IMPLICIT OUTPUTS:
186 1226 1
187 1227 1      NONE
188 1228 1
189 1229 1  ROUTINE VALUE:
190 1230 1
191 1231 1      NONE
192 1232 1
193 1233 1  SIDE EFFECTS:
194 1234 1
195 1235 1      Signals 'too much data in record' if the user enters more data
196 1236 1      than requested by the INPUT statement.
197 1237 1
198 1238 1  --
199 1239 1
200 1240 2  BEGIN
201 1241 2
202 1242 2  GLOBAL REGISTER
203 1243 2      CCB = K_CCB_REG : REF BLOCK [,BYTE];      ! current control block
204 1244 2
205 1245 2  CCB = .OTSS$A_CUR_LUB;
206 1246 2
207 1247 2  ++
208 1248 2  Don't do anything if this isn't an INPUT statement.
209 1249 2  --
210 1250 2
211 1251 3  IF (.CCB [ISB$B_STM_TYPE] EQL ISB$K_ST_TY_INP)
212 1252 2      THEN
213 1253 2
214 1254 2      ++
215 1255 2      ANSI semantics demand that the INPUT statement be
216 1256 2      restarted from the beginning if any error occurs.
217 1257 2      Most errors have already been detected by now -
218 1258 2      BASS$RESTART_IO is called in those cases. Here it
219 1259 2      doesn't make sense for the RTL to restart the
220 1260 2      statement, since we are at the end rather than in the
221 1261 2      middle. So just return a status to the compiler and
      let Basic re-execute its INPUT calls.

```

BASSIO_END
1-028

F 11
16-Sep-1984 00:40:38
14-Sep-1984 11:55:11

VAX-11 Bliss-32 V4.0-742
[BASRTL.SRC]BASIOEND.B32;1

Page 6
(3)

```

: 222      1262      2
: 223      1263      3
: 224      1264      4
: 225      1265      5
: 226      1266      6
: 227      1267      7
: 228      1268      8
: 229      1269      9
: 230      1270     10
: 231      1271     11
: 232      1272     12
: 233      1273     13
: 234      1274     14
: 235      1275     15
: 236      1276     16
: 237      1277     17
: 238      1278     18
: 239      1279     19

```

```

      IF (.CCB [LUB$A_BUF_PTR] LSSA .CCB [LUB$A_BUF_END])
      THEN
      BEGIN
      BASS$SIGNAL_IO (BASS$K_TOOMUCDAT);
      RETURN 1;
      END;

```

ANSI INPUT processing is the same as all other I/O statements from this point on.

```

      BASSIO_END ();
      RETURN 1;
      END;

```

```

.TITLE BASSIO_END
.IDENT \1-028\

.EXTRN BASS$K_TOOMUCDAT
.EXTRN OTSS$FATINTERR, OTSS$A_CUR_LUB
.EXTRN BASS$AA_UDF_PRO
.EXTRN BASS$PRINT, BASS$OUT_T_DX_S
.EXTRN BASS$OUT_T_DX_C, BASS$OUT_T_DX_B
.EXTRN LIB$FREE_VM, BASS$CB_POP
.EXTRN LIB$STOP, BASS$SIGNAL_IO

```

```

.PSECT _BAS$CODE, NOWRT, SHR, PIC, 2

```

```

      0800 00000
      5B 0000000G 00 D0 00002
      1E FF71 CB 91 00009
      B4 AB B0 AB D1 00010
      0F 1E 00015
      0000000G 00 8F DD 00017
      05 11 00024
      0000V CF 00 FB 00026 1$:
      50 01 D0 0002B 2$:
      04 0002E

```

```

.ENTRY BASSANSI_IO_END, Save R11 : 1205
MOVL OTSS$A_CUR_LUB, CCB : 1245
CMPB -143(CCB), #30 : 1251
BNEQ 1$ :
CML -80(CCB), -76(CCB) : 1263
BGEQU 1$ :
PUSHL #BASS$K_TOOMUCDAT : 1266
CALLS #1, BASS$SIGNAL_IO :
BRB 2$ : 1267
CALLS #0, BASSIO_END : 1275
MOVL #1, R0 : 1277
RET : 1279

```

: Routine Size: 47 bytes, Routine Base: _BAS\$CODE + 0000

```

241 1280 1 GLOBAL ROUTINE BASSIO_END : NOVALUE =      !
242 1281 1
243 1282 1  !
244 1283 1  !
245 1284 1  !
246 1285 1  !
247 1286 1  !
248 1287 1  !
249 1288 1  !
250 1289 1  !
251 1290 1  !
252 1291 1  !
253 1292 1  !
254 1293 1  !
255 1294 1  !
256 1295 1  !
257 1296 1  !
258 1297 1  !
259 1298 1  !
260 1299 1  !
261 1300 1  !
262 1301 1  !
263 1302 1  !
264 1303 1  !
265 1304 1  !
266 1305 1  !
267 1306 1  !
268 1307 1  !
269 1308 1  !
270 1309 1  !
271 1310 1  !
272 1311 1  !
273 1312 1  !
274 1313 1  !
275 1314 1  !
276 1315 1  !
277 1316 1  !
278 1317 1  !
279 1318 1  !
280 1319 1  !
281 1320 1  !
282 1321 1  !
283 1322 1  !
284 1323 1  !
285 1324 1  !
286 1325 1  !
287 1326 1  !
288 1327 1  !
289 1328 1  !
290 1329 2  !
291 1330 2  !
292 1331 2  !
293 1332 2  !
294 1333 2  !
295 1334 2  !
296 1335 2  !
297 1336 2  !

```

GLOBAL ROUTINE BASSIO_END : NOVALUE = !

++
FUNCTIONAL DESCRIPTION:
Complete the processing of a BASIC I/O statement. Any prompt which has not been shown on the terminal (because it was not followed by an input element) is turned into a PRINT.

FORMAL PARAMETERS:
NONE

IMPLICIT INPUTS:
OTSS\$A_CUR_LUB current I/O control block
ISBSV_PRINT_INI a Print statement was initialized
ISBSB_STTM_TYPE I/O statement type code - index to
 dispatch table entry.
FORSA_UDF_PR1 Array of user data formatters
 (UDF level of abstraction).
ISBSW_FMT_LEN No. of char. allocated to object-time format or 0
ISBSA_FMT_BEG Adr. of dynamically allocated object-time
ISBSB_ERR_NO Last continuable error to occur in the state-
 ment or 0. SIGNAL if non-zero!
 format array or 0 if none.
LUBSV_TERM_DEV Indicates that the current device is a terminal.
LUBSL_PRINT_POS Current cursor position.
ISBSV_P_FORM_CH The format character that followed the last prompt
RABSB_PSZ Prompt buffer size
RABSL_PBF Address of the Prompt buffer

IMPLICIT OUTPUTS:
ISBSW_FMT_LEN Set to 0
ISBSA_FMT_BEG Set to 0
LUBSV_FORM_CHAR flag indicating a format character
RABSB_PSZ Prompt buffer size

ROUTINE VALUE:
NONE

SIDE EFFECTS:
NONE

--

BEGIN

GLOBAL REGISTER
CCB = K_CCB_REG : REF BLOCK [, BYTE]; ! current control block

CCB = .OTSS\$A_CUR_LUB;

! If the print initialized flag is still set then there were no element transmitters

```

298 1337 2 and the format flag ought to be turned off before doing the PUT.
299 1338 2
300 1339 2 IF .CCB [ISB$V_PRINT_INI] AND (.CCB [ISB$B_STTM_TYPE] EQL ISB$K_ST_TY_PRI)
301 1340 2 THEN
302 1341 2 CCB [LUB$V_FORM_CHAR] = 0;
303 1342 2
304 1343 2 + Call appropriate UDF termination routine
305 1344 2
306 1345 2 JSB_UDF9 (BAS$$AA_UDF_PR9 + .BAS$$AA_UDF_PR9 [.CCB [ISB$B_STTM_TYPE] - ISB$K_BASSTTYLO + 1]);
307 1346 2
308 1347 2 + If this statement has an object-time format array allocated,
309 1348 2 set the length and address fields back to zero so CB_POP works correctly.
310 1349 2
311 1350 2
312 1351 2 IF (.CCB [ISB$W_FMT_LEN] NEQ 0)
313 1352 2 THEN
314 1353 2 BEGIN
315 1354 2 CCB [ISB$W_FMT_LEN] = 0;
316 1355 2 CCB [ISB$A_FMT_BEG] = 0;
317 1356 2 END;
318 1357 2
319 1358 2 +
320 1359 2 Check to see if there is an outstanding Prompt. If there is and this
321 1360 2 is a terminal device, this means that
322 1361 2 an Input with a Prompt and no element transmitter was just processed.
323 1362 2 Do a PRINT of the prompt buffer. This is a case of recursive I/O.
324 1363 2
325 1364 2
326 1365 2 IF ((.CCB [RAB$B_PSZ] NEQU 0) AND .CCB [LUB$V_TERM_DEV])
327 1366 2 THEN
328 1367 2 BEGIN
329 1368 2
330 1369 2 LOCAL
331 1370 2 T_CCB, ! temp for CCB-needed because CCB is a
332 1371 2 T_UNIT_NO, ! REF BLOCK
333 1372 2 T_FORM_CHAR, ! Unit on which the Prompt is pending
334 1373 2 T_DESC: BLOCK [8, BYTE], ! temporary format char. from Prompt
335 1374 2 T_PRINT_POS; ! temporary desc. for Print string
336 1375 2 ! temporary storage for print position
337 1376 2
338 1377 2 T_UNIT_NO = (IF .CCB [LUB$W_LUN] LSS 0 THEN 0 ! Unit 0 which is -1 or -2 internally
339 1378 2 ELSE .CCB [LUB$W_LUN]);
340 1379 2 T_DESC [DSC$B_LENGTH] = .CCB [RAB$B_PSZ];
341 1380 2 T_DESC [DSC$B_DTYPE] = DSC$K_DTYPE_T;
342 1381 2 T_DESC [DSC$B_CLASS] = DSC$K_CLASS_S;
343 1382 2 T_DESC [DSC$A_POINTER] = .CCB [RAB$L_PBF];
344 1383 2 T_FORM_CHAR = .CCB [ISB$V_P_FORM_CH];
345 1384 2 T_PRINT_POS = .CCB [LUB$L_PRINT_POS] - .CCB [RAB$B_PSZ];
346 1385 2 CCB [RAB$B_PSZ] = 0;
347 1386 2
348 1387 2 + Initialize the Print of the outstanding Prompt.
349 1388 2
350 1389 2 BAS$PRINT (.T_UNIT_NO);
351 1390 2 T_CCB = .OT$$A_CUR_LUB;
352 1391 2 BEGIN
353 1392 2
354 1393 2 BUILTIN

```

```

355      1394 4          FP;
356      1395 4
357      1396 4      LOCAL
358      1397 4          FMP : REF BLOCK [, BYTE];
359      1398 4
360      1399 4      MAP
361      1400 4          T_CCB : REF BLOCK [, BYTE];
362      1401 4
363      1402 4          FMP = .FP;
364      1403 4          T_CCB [ISB$A_USER_FP] = .FMP [SF$L_SAVE_FP];
365      1404 4          T_CCB [LUB$B_PRINT_POS] = .T_PRINT_POS;
366      1405 4          END;
367      1406 4
368      1407 4          CASE .T_FORM_CHAR FROM BAS$K_SEMI_FORM TO BAS$K_NO_FORM OF
369      1408 4              SET
370      1409 4
371      1410 4          [BAS$K_SEMI_FORM, BAS$K_COMMA_FOR] :
372      1411 4
373      1412 4          + The dangling Prompt ended in a semicolon or a comma format char.
374      1413 4          + Note that all processing associated with comma format character
375      1414 4          + has already been done by the Prompt handler so we will make this
376      1415 4          + look like a semicolon format character.
377      1416 4          -
378      1417 4              BASSOUT_T_DX_S (T_DESC);
379      1418 4
380      1419 4              [BAS$K_NO_FORM] :
381      1420 4          +
382      1421 4          + Prompt ended with no format character.
383      1422 4          + Carriage control for Prompts is contained explicitly in the Prompt
384      1423 4          + buffer. This Print will now be done using VFC so we must subtract
385      1424 4          + two from the length for the carriage control already in the buffer.
386      1425 4          -
387      1426 4              BEGIN
388      1427 4              T_DESC [DSC$W_LENGTH] = .T_DESC [DSC$W_LENGTH] - 2;
389      1428 4              BASSOUT_T_DX_B (T_DESC);
390      1429 4              END;
391      1430 4          TES;
392      1431 4
393      1432 4          BAS$IO_END ();
394      1433 4          END
395      1434 4      ELSE
396      1435 4          +
397      1436 4          + Otherwise, just discard any prompt that may be left. Prompting is
398      1437 4          + not defined on non-terminal devices, anyway.
399      1438 4          -
400      1439 4              CCB [RAB$B_PSZ] = 0;
401      1440 4
402      1441 4          +
403      1442 4          + Indicate that we are done with this I/O statement. If we are the last
404      1443 4          + user of this LUB, it will be deallocated. If we are doing recursive
405      1444 4          + I/O, the I/O system is restored to the unit we interrupted.
406      1445 4          + Clear ISB$W_FMT_LEN so that CB_POP doesn't try to deallocate the format
407      1446 4          + string.
408      1447 4          -
409      1448 4              CCB [ISB$W_FMT_LEN] = 0;
410      1449 4              BASS$CB_POP ();
411      1450 4          RETURN;

```

: 412 1451 1 END;

! End of routine

Label	Address	OpCode	Operand 1	Operand 2	Instruction	Address
		083C	00000		.ENTRY	1280
		55	00000000G	00 9E	MOVAB	1280
		5E		08 C2	OTSS\$A_CUR_LUB, R5	
		5B		65 D0	SUBL2	
OB	97	AB		03 E1	#8, SP	1334
		1B	FF71	91 00014	MOVL	1339
				04 12	OTSS\$A_CUR_LUB, CCB	
		FE		04 8A	BBC	
		50	FF71	9A 0001F	#3, -105(CCB), 1\$	1341
		50	00000000G0040	D0 00024	-143(CCB), #27	1345
			00000000G0040	16 0002C	1\$:	
		54	FF72	9E 00033	MOVZBL	
				64 B5	BAS\$AA_UDF-PR9-104[R0], R0	
				06 13	JSB	
				64 B4	BAS\$AA_UDF-PR9[R0]	
				06 13	MOVAB	1351
				64 B4	-142(CCB), R4	
		51	FF7C	D4 0003E	TSTW	
			34	9A 00042	(R4)	
6A	FE	AB		6F 13	BEQL	1354
				05 E1	2\$:	
				04 18	MOVZBL	1365
				50 D4	52(CCB), R1	
				04 11	BEQL	
				50 D4	9\$	
				04 11	BBC	
				50 D4	#5, -2(CCB), 9\$	
				04 11	TSTW	1377
				50 D4	-58(CCB)	
				04 11	BGEQ	
				50 D4	3\$	
				04 11	CLRL	
				50 D4	T_UNIT_NO	
				04 11	BRB	
				50 D4	4\$	
				04 11	CVTWL	
				50 D4	-58(CCB), T_UNIT_NO	1378
				04 11	MOVW	1379
				50 D4	R1, T_DESC	
				04 11	MOVW	
				50 D4	#270, T_DESC+2	1380
53	96	AB	010E	8F B0	MOVW	1382
			30	D0 00063	MOVW	1383
				00 EF	48(CCB), T_DESC+4	
				51 C3	EXTZV	1384
				34 AB	#0, #2, -106(CCB), T_FORM_CHAR	
				50 DD	SUBL3	1385
				01 FB	R1, -56(CCB), T_PRINT_POS	
				65 D0	CLRB	1389
				51 D0	52(CCB)	
				50 DD	PUSHL	
				01 FB	T_UNIT_NO	
				51 D0	CALLS	
				50 DD	#T, BASSPRINT	
				01 FB	OTSS\$A_CUR_LUB, T_CCB	1390
				51 D0	FP, FMP	1402
				50 DD	MOVL	
				01 FB	12(FMP), -180(T_CCB)	1403
				51 D0	MOVL	
				50 DD	T_PRINT_POS, -58(T_CCB)	1404
				01 FB	MOVL	
				51 D0	T_FORM_CHAR, #1, #2	1407
				50 DD	CASEL	
				01 FB	6\$-5\$, =	
				51 D0	6\$-5\$, =	
				50 DD	7\$-5\$	
				01 FB	PUSHL	1417
				51 D0	SP	
				50 DD	CALLS	
				01 FB	#1, BASSOUT_T_DX_S	
				51 D0	BRB	
				50 DD	8\$	
				01 FB	SUBW2	1427
				51 D0	#2, T_DESC	
				50 DD	PUSHL	1428
				01 FB	SP	
				51 D0	CALLS	
				50 DD	#1, BASSOUT_T_DX_B	
				01 FB	CALLS	
				51 D0	#0, BASSIO_END	1432
				50 DD	BRB	1365
				01 FB	10\$	
				51 D0	CLRB	1439
				50 DD	52(CCB)	
				01 FB	(R4)	1448
				51 D0	CLRW	
				50 DD	JSB	1449
				01 FB	BAS\$CB_POP	
				51 D0		
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BASSIO_END
1-028

K 11
16-Sep-1984 00:40:38
14-Sep-1984 11:55:11

VAX-11 Bliss-32 V4.0-742
[BASRTL.SRC]BASIOEND.B32;1

Page 11
(4)

04 000C2 RET

; 1451

; Routine Size: 195 bytes, Routine Base: _BASSCODE + 002F

```
: 413            1452 1  
: 414            1453 1 END                    !End of module BASSIO_END  
: 415            1454 1  
: 416            1455 0 ELUDOM
```

PSECT SUMMARY

```
:  
:            Name                            Bytes                            Attributes  
:            _BASSCODE                    242    NOVEC, NOWRT, RD ,    EXE,   SHR,   LCL,   REL,   CON,   PIC, ALIGN(2)
```

Library Statistics

```
:  
:            File                            -----    Symbols    -----            Pages            Processing  
:                                            Total    Loaded    Percent            Mapped            Time  
:            _$255$DUA28:[SYSLIB]STARLET.L32;1            9776            9            0            581            00:01.1
```

COMMAND QUALIFIERS

; BLISS/(CHECK=(FIELD, INITIAL, OPTIMIZE)/NOTRACE/LIS=LIS\$:BASIOEND/OBJ=OBJ\$:BASIOEND MSRC\$:BASIOEND/UPDATE=(ENHS\$:BASIOEND)

```
: Size:            242 code + 0 data bytes  
: Run Time:            00:12.8  
: Elapsed Time:        00:28.4  
: Lines/CPU Min:        6836  
: Lexemes/CPU-Min:     39406  
: Memory Used:        166 pages  
: Compilation Complete
```

