



```

BBBBBBBBB      AAAAAA      SSSSSSSS      TTTTTTTTTT      EEEEEEEEEEE      RRRRRRRR      MM      MM      IIIIII      000000
BBBBBBBBB      AAAAAA      SSSSSSSS      TTTTTTTTTT      EEEEEEEEEEE      RRRRRRRR      MM      MM      IIIIII      000000
BG      BB      AA      AA      SS      TT      EE      RR      RR      MMMM      MMMM      II      00      00
BB      BB      AA      AA      SS      TT      EE      RR      RR      MMMM      MMMM      II      00      00
BB      BB      AA      AA      SS      TT      EE      RR      RR      MM      MM      II      00      00
BB      BB      AA      AA      SS      TT      EE      RR      RR      MM      MM      II      00      00
BBBBBBBBB      AA      AA      SSSSSS      TT      EEEEEEEE      RRRRRRRR      MM      MM      II      00      00
BBBBBBBBB      AA      AA      SSSSSS      TT      EEEEEEEE      RRRRRRRR      MM      MM      II      00      00
BB      BB      AAAAAAAAAA      SS      TT      EE      RR      RR      MM      MM      II      00      00
BB      BB      AAAAAAAAAA      SS      TT      EE      RR      RR      MM      MM      II      00      00
BB      BB      AA      AA      SS      TT      EE      RR      RR      MM      MM      II      00      00
BB      BB      AA      AA      SS      TT      EE      RR      RR      MM      MM      II      00      00
BBBBBBBBB      AA      AA      SSSSSSSS      TT      EEEEEEEEEEE      RR      RR      MM      MM      IIIIII      000000
BBBBBBBBB      AA      AA      SSSSSSSS      TT      EEEEEEEEEEE      RR      RR      MM      MM      IIIIII      000000

```

```

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
LLLLLLLLLLL      IIIIII      SSSSSSSS
LLLLLLLLLLL      IIIIII      SSSSSSSS

```

```

1 0001 0 MODULE BASSUPI_TERM_10 (
2 0002 0 IDENT = '1-007'
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
9 0009 1 * DIGITAL EQUIPMENT CORPORATION, MAYNARD, MASSACHUSETTS.
10 0010 1 * ALL RIGHTS RESERVED.
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23 0023 1 * DIGITAL ASSUMES NO RESPONSIBILITY FOR THE USE OR RELIABILITY OF ITS
24 0024 1 * SOFTWARE ON EQUIPMENT WHICH IS NOT SUPPLIED BY DIGITAL.
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 Provides the User Program Interface (UPI) level of support for Basic
36 0036 1 terminal I/O.
37 0037 1
38 0038 1 ENVIRONMENT: User access mode; AST reentrant
39 0039 1
40 0040 1 AUTHOR: Donald G. Petersen, CREATION DATE: 23-Aug-79
41 0041 1
42 0042 1 MODIFIED BY:
43 0043 1
44 0044 1 1-001 - Original done in Macro-32, BASIOELEM.MAR. DGP 20-Mar-78
45 0045 1 1-002 - Rewrite BASIOELEM.MAR in Bliss. DGP 23-Aug-79
46 0046 1 1-003 - Make the BASS$ entry points GLOBAL. JBS 12-SEP-1979
47 0047 1 1-004 - Add BASSIN_W_R. JBS 12-SEP-1979
48 0048 1 1-004 - Add linkages to CALL of UDF routines. DGP 12-Sep-79
49 0049 1 1-005 - BASSOUT_D_V_B incorrectly uses a semicolon format character. DGP
50 0050 1 17-Sep-79
51 0051 1 1-006 - Add support for byte, gfloat, and hfloat. PLL 24-Aug-81
52 0052 1 1-007 - Add support for packed decimal. PLL 5-Oct-81
53 0053 1 --
54 0054 1
55 0055 1 !<BLF/PAGE>
    
```

```

57      0056 1  |
58      0057 1  | SWITCHES
59      0058 1  |
60      0059 1  |
61      0060 1  | SWITCHES ADDRESSING_MODE (EXTERNAL = GENERAL, NONEXTERNAL = WORD_RELATIVE);
62      0061 1  |
63      0062 1  |
64      0063 1  | LINKAGES
65      0064 1  |
66      0065 1  |
67      0066 1  | REQUIRE 'RTLIN:BASLNK';           ! some Basic linkages
68      0143 1  |
69      0144 1  | REQUIRE 'RTLIN:OTSLNK';         ! define all other linkages
70      0573 1  |
71      0574 1  |
72      0575 1  | TABLE OF CONTENTS:
73      0576 1  |
74      0577 1  |
75      0578 1  | FORWARD ROUTINE
76      0579 1  |     BASSIN_L_R : NOVALUE,         ! Input longword by reference
77      0580 1  |     BASSIN_W_R : NOVALUE,         ! Input word by reference
78      0581 1  |     BASSOUT_L_V_S : NOVALUE,      ! output long by value, semi format char
79      0582 1  |     BASSOUT_L_V_C : NOVALUE,      ! output long by val, comma format char
80      0583 1  |     BASSOUT_L_V_B : NOVALUE,      ! output long by val, no format char
81      0584 1  |     BASSIN_F_R : NOVALUE,         ! input single float by ref
82      0585 1  |     BASSOUT_F_V_S : NOVALUE,      ! output float by val, semi format char
83      0586 1  |     BASSOUT_F_V_C : NOVALUE,      ! output float by val, comma format char
84      0587 1  |     BASSOUT_F_V_B : NOVALUE,      ! output float by val, no format char
85      0588 1  |     BASSIN_D_R : NOVALUE,         ! input double float by ref
86      0589 1  |     BASSOUT_D_V_S : NOVALUE,      ! output double by val, semi format char
87      0590 1  |     BASSOUT_D_V_C : NOVALUE,      ! output double by val, comma format char
88      0591 1  |     BASSOUT_D_V_B : NOVALUE,      ! output double by val, no format char
89      0592 1  |     BASSIN_T_DX : NOVALUE,        ! input text by descriptor
90      0593 1  |     BASSOUT_T_DX_S : NOVALUE,     ! output text by desc, semi format char
91      0594 1  |     BASSOUT_T_DX_C : NOVALUE,     ! output text by desc, comma format char
92      0595 1  |     BASSOUT_T_DX_B : NOVALUE,     ! output text by desc, no format char
93      0596 1  |     BASSOUT_G_V_S : NOVALUE,      ! output G by value, semi format
94      0597 1  |     BASSOUT_G_V_C : NOVALUE,      ! output G by value, comma format
95      0598 1  |     BASSOUT_G_V_B : NOVALUE,      ! output G by value, no format
96      0599 1  |     BASSOUT_H_V_S : NOVALUE,      ! output H by value, semi format
97      0600 1  |     BASSOUT_H_V_C : NOVALUE,      ! output H by value, comma format
98      0601 1  |     BASSOUT_H_V_B : NOVALUE,      ! output H by value, no format
99      0602 1  |     BASSOUT_P_DX_S : NOVALUE,     ! output packed by desc, semi format
100     0603 1  |     BASSOUT_P_DX_C : NOVALUE,     ! output packed by desc, comma format
101     0604 1  |     BASSOUT_P_DX_B : NOVALUE,     ! output packed by desc, no format
102     0605 1  |     BASSIN_G_R : NOVALUE,         ! input G by ref
103     0606 1  |     BASSIN_H_R : NOVALUE,         ! input H by ref
104     0607 1  |     BASSIN_B_R : NOVALUE,         ! input byte by ref
105     0608 1  |     BASSIN_P_DX : NOVALUE,        ! input packed by desc
106     0609 1  |
107     0610 1  |
108     0611 1  | INCLUDE FILES:
109     0612 1  |
110     0613 1  |
111     0614 1  | REQUIRE 'RTLIN:RTLPSECT';       ! PSECT macros
112     0709 1  |
113     0710 1  | REQUIRE 'RTLML:BASPAR';         ! Some Basic symbols

```

```

: 114      0732 1
: 115      0733 1 REQUIRE 'RTLML:OTSISB';           ! I/O statement block (ISB)
: 116      0901 1
: 117      0902 1 REQUIRE 'RTLML:OTSLUB';         ! logical unit block (LUB)
: 118      1042 1
: 119      1043 1 LIBRARY 'RTLSTARLE';           ! STARTLET library for macros
: 120      1044 1
: 121      1045 1
: 122      1046 1 : MACROS:
: 123      1047 1
: 124      1048 1     NONE
: 125      1049 1
: 126      1050 1 : PSECT DECLARATIONS:
: 127      1051 1
: 128      1052 1 DECLARE_PSECTS (BAS);           ! PSECTS for BASS facility
: 129      1053 1
: 130      1054 1 : EQUATED SYMBOLS:
: 131      1055 1
: 132      1056 1
: 133      1057 1 LITERAL
: 134      1058 1     K_BYTE_LEN = 1,           ! storage size in bytes of byte
: 135      1059 1     K_WORD_LEN = 2,          ! storage size in bytes of word
: 136      1060 1     K_LONG_LEN = 4,          ! storage size in bytes of longword
: 137      1061 1     K_FLOAT_LEN = 4,         ! storage size in bytes of float
: 138      1062 1     K_DOUBLE_LEN = 8,        ! storage size in bytes of double
: 139      1063 1     K_GFLOAT_LEN = 8,       ! storage size in bytes of gfloat
: 140      1064 1     K_HFLOAT_LEN = 16;      ! storage size in bytes of hfloat
: 141      1065 1
: 142      1066 1 :
: 143      1067 1 : OWN STORAGE:
: 144      1068 1
: 145      1069 1     NONE
: 146      1070 1
: 147      1071 1 : EXTERNAL REFERENCES:
: 148      1072 1
: 149      1073 1
: 150      1074 1 EXTERNAL ROUTINE
: 151      1075 1     BASS$UDF_RL1 : CALL_CCB,      ! UDF level element transmitter - Read
: 152      1076 1                                     ! list directed
: 153      1077 1     BASS$STOP : NOVALUE;       ! signal an error and stop
: 154      1078 1
: 155      1079 1 EXTERNAL LITERAL
: 156      1080 1     BASSK_DATTYPERR;           ! data type error
: 157      1081 1
: 158      1082 1 EXTERNAL
: 159      1083 1     OTSS$A_CUR_LUB,           ! Contains addr. of current LUB/ISB/RAB
: 160      1084 1     BASS$A_UDF_PRI : VECTOR;   ! dispatch vector to UDF element transmitters
: 161      1085 1

```

```

163      1086 1 GLOBAL ROUTINE BASSIN_L_R (
164      1087 1     ELEM
165      1088 1     ) : NOVALUE =
166      1089 1
167      1090 1
168      1091 1
169      1092 1
170      1093 1
171      1094 1
172      1095 1
173      1096 1
174      1097 1
175      1098 1
176      1099 1
177      1100 1
178      1101 1
179      1102 1
180      1103 1
181      1104 1
182      1105 1
183      1106 1
184      1107 1
185      1108 1
186      1109 1
187      1110 1
188      1111 1
189      1112 1
190      1113 1
191      1114 1
192      1115 1
193      1116 1
194      1117 1
195      1118 2
196      1119 2
197      1120 2
198      1121 2
199      1122 2
200      1123 2
201      1124 2
202      1125 2
203      1126 2
204      1127 2
205      1128 2
206      1129 1

GLOBAL ROUTINE BASSIN_L_R (
    ELEM
) : NOVALUE =

++
FUNCTIONAL DESCRIPTION:
    Input a longword, the destination is passed by reference

FORMAL PARAMETERS:
    ELEM.rl.r           where to store the longword input

IMPLICIT INPUTS:
    OTSS$A_CUR_LUB     current Logical Unit Block
    ISB$B_STTM_TYPE    statement type of this I/O statement

IMPLICIT OUTPUTS:
    NONE

COMPLETION CODES:
    NONE

SIDE EFFECTS:
    NONE

--
BEGIN
GLOBAL REGISTER
    CCB = K_CCB_REG : REF BLOCK [, BYTE];

    CCB = .OTSS$A_CUR_LUB;
    BASS$UDF_RL1 TDSC$K_DTYPE_L,
    K_LONG_LEN,
    .ELEM,
    BASS$K_NULL);
RETURN;
END;

!input longword by ref
!element to input by reference

!data type longword
!length of data type
!address of destination
!null format character

!End of BASSIN_L_R

.TITLE BASSUPI_TERM_IO
.IDENT \1-007\

.EXTRN BASS$UDF_RL1, BASS$STOP
.EXTRN BASS$K_DATTYPERR
.EXTRN OTSS$A_CUR_LUB, BASS$AA_UDF_PRI

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

.ENTRY BASSIN_L_R, Save R11
MOVL OTSS$A_CUR_LUB, CCB
    
```

0800 0000  
5B 0000000G 00 00 00002

: 1086  
: 1123

BASSUPI\_TERM\_IO  
1-007

H 6  
16-Sep-1984 01:18:57 YAX-11 Bliss-32 V4.0-742  
14-Sep-1984 11:56:42 [BASRTL.SRC]BASTERMIO.B32;1

Page 5  
(3)

		7E	D4	00009	CLRL	-(SP)	:	1124
	04	AC	DD	0000B	PUSHL	ELEM	:	1126
		04	DD	0000E	PUSHL	#4	:	1124
		08	DD	00010	PUSHL	#8	:	
00000000G	00	04	FB	00012	CALLS	#4, BASS\$UDF_RL1	:	
		04		00019	RET		:	1129

: Routine Size: 26 bytes, Routine Base: \_BAS\$CODE + 0000

: 207 1130 1

```

: 209      1131 1 GLOBAL ROUTINE BASSIN_W_R (      | input word by ref
: 210      1132 1     ELEM                          | element to input by reference
: 211      1133 1     ) : NOVALUE =
: 212      1134 1
: 213      1135 1 ++
: 214      1136 1 | FUNCTIONAL DESCRIPTION:
: 215      1137 1 |
: 216      1138 1 | Input a word, the destination is passed by reference
: 217      1139 1 |
: 218      1140 1 | FORMAL PARAMETERS:
: 219      1141 1 |
: 220      1142 1 |     ELEM.ww.r           where to store the longword input
: 221      1143 1 |
: 222      1144 1 | IMPLICIT INPUTS:
: 223      1145 1 |
: 224      1146 1 |     OTSS$A_CUR_LUB     current Logical Unit Block
: 225      1147 1 |     ISBSB_STTM_TYPE    statement type of this I/O statement
: 226      1148 1 |
: 227      1149 1 | IMPLICIT OUTPUTS:
: 228      1150 1 |
: 229      1151 1 |     NONE
: 230      1152 1 |
: 231      1153 1 | COMPLETION CODES:
: 232      1154 1 |
: 233      1155 1 |     NONE
: 234      1156 1 |
: 235      1157 1 | SIDE EFFECTS:
: 236      1158 1 |
: 237      1159 1 |     NONE
: 238      1160 1 |
: 239      1161 1 | --
: 240      1162 1 |
: 241      1163 2 | BEGIN
: 242      1164 2 |
: 243      1165 2 | GLOBAL REGISTER
: 244      1166 2 |     CCB = K_CCB_REG : REF BLOCK [, BYTE];
: 245      1167 2 |
: 246      1168 2 |     CCB = .OTSS$A_CUR_LUB;
: 247      1169 2 |     BASS$UDF_RL1 TDSC$K_DTYPE_W,      | data type word
: 248      1170 2 |     .K_WORD_LEN,                      | length of data type
: 249      1171 2 |     .ELEM,                             | address of destination
: 250      1172 2 |     BASS$K_NULL);                     | null format character
: 251      1173 2 | RETURN;
: 252      1174 1 | END;                                     !End of BASSIN_W_R

```

```

                                0800 0000      .ENTRY BASSIN_W_R, Save R11
                                5B 0000000G 00 D0 00002  MOVL OTSS$A_CUR_LUB, CCB
                                7E D4 00009  CLRL -(SP)
                                04 AC DD 0000B  PUSHL ELEM
                                02 DD 0000E  PUSHL #2
                                07 DD 00010  PUSHL #7
                                0000000G 00 04 FB 00012  CALLS #4, BASS$UDF_RL1
                                04 00019  RET
: 1131
: 1168
: 1169
: 1171
: 1169
:
: 1174

```

BASSUPI\_TERM\_IO  
1-007

J 6  
16-Sep-1984 01:18:57  
14-Sep-1984 11:56:42

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

Page 7  
(4)

: Routine Size: 26 bytes, Routine Base: \_BAS\$CODE + 001A

: 253 1175 1

```

: 255      1176 1 GLOBAL ROUTINE BASSIN_F_R (          ! input float by ref
: 256      1177 1     ELEM                          ! element to input by reference
: 257      1178 1     ) : NOVALUE =
: 258      1179 1
: 259      1180 1     +-
: 260      1181 1     FUNCTIONAL DESCRIPTION:
: 261      1182 1
: 262      1183 1     Input a single precision floating, the destination is passed by reference
: 263      1184 1
: 264      1185 1     FORMAL PARAMETERS:
: 265      1186 1
: 266      1187 1     ELEM.rf.r                where to store the float input
: 267      1188 1
: 268      1189 1     IMPLICIT INPUTS:
: 269      1190 1
: 270      1191 1     OTSS$A_CUR_LUB          current Logical Unit Block
: 271      1192 1     ISB$B_STM_TYPE         statement type of this I/O statement
: 272      1193 1
: 273      1194 1     IMPLICIT OUTPUTS:
: 274      1195 1
: 275      1196 1     NONE
: 276      1197 1
: 277      1198 1     COMPLETION CODES:
: 278      1199 1
: 279      1200 1     NONE
: 280      1201 1
: 281      1202 1     SIDE EFFECTS:
: 282      1203 1
: 283      1204 1     NONE
: 284      1205 1
: 285      1206 1     --
: 286      1207 1
: 287      1208 2     BEGIN
: 288      1209 2
: 289      1210 2     GLOBAL REGISTER
: 290      1211 2     CCB = K_CCB_REG : REF BLOCK [, BYTE];
: 291      1212 2
: 292      1213 2     CCB = .OTSS$A_CUR_LUB;
: 293      1214 2     BASS$UDF_RL1 TDSC$K_DTYPE_F, ! data type floating
: 294      1215 2     K_FLOAT_LEN,             ! length of data type
: 295      1216 2     .ELEM,                   ! address of destination
: 296      1217 2     BASS$K_NULL);           ! null format character
: 297      1218 2     RETURN;
: 298      1219 1     END;                      !End of BASSIN_F_R

```

```

                                0800 00000          .ENTRY BASSIN_F_R, Save R11          : 1176
                                SB 00000000G 00 D0 00002        MOVL OTSS$A_CUR_LUB, CCB          : 1213
                                7E D4 00009          CLRL -(SP)                      : 1214
                                04 AC DD 0000B        PUSHL ELEM                       : 1216
                                04 DD 0000E          PUSHL #4                         : 1214
                                0A DD 00010          PUSHL #10                        :
                                00000000G 00 04 FB 00012        CALLS #4, BASS$UDF_RL1          :
                                04 00019          RET                               : 1219

```

BASSUPI\_TERM\_IO  
1-007

L 6  
16-Sep-1984 01:18:57  
14-Sep-1984 11:56:42

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

Page 9  
(5)

; Routine Size: 26 bytes, Routine Base: \_BAS\$CODE + 0034

; 299 1220 1

```

: 301      1221 1 GLOBAL ROUTINE BASSIN_D_R (      | input double by ref
: 302      1222 1     ELEM                                | element to input by reference
: 303      1223 1     ) : NOVALUE =
: 304      1224 1
: 305      1225 1 |++
: 306      1226 1 | FUNCTIONAL DESCRIPTION:
: 307      1227 1 |
: 308      1228 1 | Input a double, the destination is passed by reference
: 309      1229 1 |
: 310      1230 1 | FORMAL PARAMETERS:
: 311      1231 1 |
: 312      1232 1 |     ELEM.rd.r                where to store the double input
: 313      1233 1 |
: 314      1234 1 | IMPLICIT INPUTS:
: 315      1235 1 |
: 316      1236 1 |     OTSS$A_CUR_LUB          current Logical Unit Block
: 317      1237 1 |     ISB$B_STM_TYPE         statement type of this I/O statement
: 318      1238 1 |
: 319      1239 1 | IMPLICIT OUTPUTS:
: 320      1240 1 |
: 321      1241 1 |     NONE
: 322      1242 1 |
: 323      1243 1 | COMPLETION CODES:
: 324      1244 1 |
: 325      1245 1 |     NONE
: 326      1246 1 |
: 327      1247 1 | SIDE EFFECTS:
: 328      1248 1 |
: 329      1249 1 |     NONE
: 330      1250 1 |
: 331      1251 1 | --
: 332      1252 1 |
: 333      1253 2 | BEGIN
: 334      1254 2 |
: 335      1255 2 | GLOBAL REGISTER
: 336      1256 2 |     CCB = K_CCB_REG : REF BLOCK [, BYTE];
: 337      1257 2 |
: 338      1258 2 |     CCB = .OTSS$A_CUR_LUB;
: 339      1259 2 |     BASS$UDF_RL1 TDSC$K_DTYPE_D,      | data type
: 340      1260 2 |     K_DOUBLE_LEN,                    | length of data type
: 341      1261 2 |     .ELEM,                            | address of destination
: 342      1262 2 |     BASS$K_NULL);                    | null format character
: 343      1263 2 | RETURN;
: 344      1264 1 | END;                                  |End of BASSIN_D_R

```

```

                                0800 00000      .ENTRY BASSIN_D_R, Save R11      : 1221
                                5B 00000000G 00 D0 00002      MOVL OTSS$A_CUR_LUB, CCB      : 1258
                                7E D4 00009      CLRL -(SP)                    : 1259
                                04 AC DD 0000B      PUSHL ELEM                     : 1261
                                08 DD 0000E      PUSHL #8                       : 1259
                                0B DD 00010      PUSHL #11                      :
                                00000000G 00 04 FB 00012      CALLS #4, BASS$UDF_RL1        :
                                04 00019      RET                             : 1264

```

BASSUPI\_TERM\_10  
1-007

N 6  
16-Sep-1984 01:18:57  
14-Sep-1984 11:56:42

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

Page 11  
(6)

: Routine Size: 26 bytes, Routine Base: \_BASSCODE + 004E

: 345 1265 1

```

: 347      1266  1 GLOBAL ROUTINE BASSIN_T_DX (      | input text by desc.
: 348      1267  1     ELEM                                     | element to input by reference
: 349      1268  1     ) : NOVALUE =
: 350      1269  1
: 351      1270  1     +-+
: 352      1271  1     FUNCTIONAL DESCRIPTION:
: 353      1272  1
: 354      1273  1     Input text, the destination is passed by descriptor
: 355      1274  1
: 356      1275  1     FORMAL PARAMETERS:
: 357      1276  1
: 358      1277  1         ELEM.rt.dx           where to store the text input
: 359      1278  1
: 360      1279  1     IMPLICIT INPUTS:
: 361      1280  1
: 362      1281  1         OTSS$A_CUR_LUB       current Logical Unit Block
: 363      1282  1         ISB$B_STM_TYPE     statement type of this I/O statement
: 364      1283  1
: 365      1284  1     IMPLICIT OUTPUTS:
: 366      1285  1
: 367      1286  1         NONE
: 368      1287  1
: 369      1288  1     COMPLETION CODES:
: 370      1289  1
: 371      1290  1         NONE
: 372      1291  1
: 373      1292  1     SIDE EFFECTS:
: 374      1293  1
: 375      1294  1         NONE
: 376      1295  1
: 377      1296  1     --
: 378      1297  1
: 379      1298  2     BEGIN
: 380      1299  2
: 381      1300  2     GLOBAL REGISTER
: 382      1301  2         CCB = K_CCB_REG : REF BLOCK [, BYTE];
: 383      1302  2
: 384      1303  2     MAP
: 385      1304  2         ELEM : REF BLOCK [8, BYTE];
: 386      1305  2
: 387      1306  2     CCB = .OTSS$A_CUR_LUB;
: 388      1307  2     BASS$UDF_RL1 TDSC$K_DTYPE_T,      | data type
: 389      1308  2         ELEM[DSC$W_LENGTH],          | string length
: 390      1309  2         .ELEM,                          | address of descriptor
: 391      1310  2         BASS$K_NULL);                 | null format character
: 392      1311  2     RETURN;
: 393      1312  1     END;                               |End of BASSIN_T_DX

```

```

                                0800 00000      .ENTRY BASSIN_T_DX, Save R11      : 1266
5B 00000000G 00 D0 00002      MOVL OTSS$A_CUR_LUB, CCB      : 1306
                                7E D4 00009      CLRL -(SP)                    : 1308
                                04 AC DD 0000B     PUSHL ELEM                     : 1309
                                04 AC DD 0000E     PUSHL ELEM                     : 1308

```

BASSUPI\_TERM\_IO  
1-007

C 7  
16-Sep-1984 01:18:57 VAX-11 Bliss-32 V4.0-742  
14-Sep-1984 11:56:42 [BASRTL.SRC]BASTERMIO.B32;1

00000000G 00

OE DD 00011  
04 FB 00013  
04 0001A

PUSHL #14  
CALLS #4, BASS\$UDF\_RL1  
RET

:  
:  
: 1312

: Routine Size: 27 bytes, Routine Base: \_BASS\$CODE + 0068

: 394 1313 1

```

396 1314 1 GLOBAL ROUTINE BASSOUT_L_V_S (
397 1315 1     ELEM
398 1316 1     ) : NOVALUE =
399 1317 1
400 1318 1 ++
401 1319 1 FUNCTIONAL DESCRIPTION:
402 1320 1
403 1321 1 Output a longword, the source is passed by value
404 1322 1
405 1323 1 FORMAL PARAMETERS:
406 1324 1
407 1325 1     ELEM.r.l.v           longword to print
408 1326 1
409 1327 1 IMPLICIT INPUTS:
410 1328 1
411 1329 1     OTSS$A_CUR_LUB       current Logical Unit Block
412 1330 1     ISB$B_STTM_TYPE     statement type of this I/O statement
413 1331 1
414 1332 1 IMPLICIT OUTPUTS:
415 1333 1
416 1334 1     NONE
417 1335 1
418 1336 1 COMPLETION CODES:
419 1337 1
420 1338 1     NONE
421 1339 1
422 1340 1 SIDE EFFECTS:
423 1341 1
424 1342 1     NONE
425 1343 1
426 1344 1 --
427 1345 1
428 1346 2 BEGIN
429 1347 2
430 1348 2 GLOBAL REGISTER
431 1349 2     CCB = K_CCB_REG : REF BLOCK [, BYTE];
432 1350 2
433 1351 2     CCB = .OTSS$A_CUR_LUB;
434 1352 2
435 1353 2 ++
436 1354 2 Dispatch to the UDF level. Dispatching is done because this may be a PRINT
437 1355 2 element transmit for prompting or for printing. Therefore, based on the
438 1356 2 statement type, either the INPUT or the PRINT UDF will be called.
439 1357 2
440 1358 2     (BAS$$AA_UDF_PR1 + .BAS$$AA_UDF_PR1 [.CCB [ISB$B_STTM_TYPE] - ISB$K_BASSTTYLO + 1]) (DSC$K_DTYPE_L,
441 1359 2         K_LONG_LEN,           ! data type
442 1360 2         ELEM,                 ! length of data type
443 1361 2         BAS$K_SEMI_FORM       ! address of value
444 1362 2     );                       ! semicolon format character
445 1363 2 RETURN;
446 1364 1 END;                               !End of BASSOUT_L_V_S

```

0800 0000

.ENTRY BASSOUT\_L\_V\_S, Save R11

: 1314

5B	00000000G	00	D0	00002
50	FF71	CB	9A	00009
50	00000000G0040	01	D0	0000E
		04	AC	9F 00018
		04	DD	0001B
		08	DD	0001D
00000000G0040		04	FB	0001F
		04	04	00027

```

MOVL OTSS$A_CUR_LUB, CCB
MOVZBL -143(CCB), R0
MOVL BAS$AA_UDF_PR1-104[R0], R0
PUSHL #1
PUSHAB ELEM
PUSHL #4
PUSHL #8
CALLS #4, BAS$AA_UDF_PR1[R0]
RET

```

```

: 1351
: 1357
:
:
:
:
: 1364

```

: Routine Size: 40 bytes, Routine Base: \_BAS\$CODE + 0083

: 447 1365 1

```

: 449      1366 1 GLOBAL ROUTINE BASSOUT_L_V_C (           | print a longword by value, comma format character
: 450      1367 1     ELEM                               | element to output by value
: 451      1368 1     ) : NOVALUE =
: 452      1369 1
: 453      1370 1 |++
: 454      1371 1 | FUNCTIONAL DESCRIPTION:
: 455      1372 1 |
: 456      1373 1 | Output a longword, the source is passed by value
: 457      1374 1 |
: 458      1375 1 | FORMAL PARAMETERS:
: 459      1376 1 |
: 460      1377 1 |     ELEM.rl.v           longword to print
: 461      1378 1 |
: 462      1379 1 | IMPLICIT INPUTS:
: 463      1380 1 |
: 464      1381 1 |     OTSS$A_CUR_LUB     current Logical Unit Block
: 465      1382 1 |     ISB$B_STTM_TYPE   statement type of this I/O statement
: 466      1383 1 |
: 467      1384 1 | IMPLICIT OUTPUTS:
: 468      1385 1 |
: 469      1386 1 |     NONE
: 470      1387 1 |
: 471      1388 1 | COMPLETION CODES:
: 472      1389 1 |
: 473      1390 1 |     NONE
: 474      1391 1 |
: 475      1392 1 | SIDE EFFECTS:
: 476      1393 1 |
: 477      1394 1 |     NONE
: 478      1395 1 |
: 479      1396 1 | --
: 480      1397 1 |
: 481      1398 2 | BEGIN
: 482      1399 2 |
: 483      1400 2 | GLOBAL REGISTER
: 484      1401 2 |     CCB = K_CCB_REG : REF BLOCK [, BYTE];
: 485      1402 2 |
: 486      1403 2 |     CCB = .OTSS$A_CUR_LUB;
: 487      1404 2 | |++
: 488      1405 2 | | Dispatch to the UDF level. Dispatching is done because this may be a PRINT
: 489      1406 2 | | element transmit for prompting or for printing. Therefore, based on the
: 490      1407 2 | | statement type, either the INPUT or the PRINT UDF will be called.
: 491      1408 2 | |
: 492      1409 2 | | (BAS$$AA_UDF_PR1 + .BAS$$AA_UDF_PR1 [CCB [ISB$B_STTM_TYPE] - ISB$K_BASSTTYLO + 1]) (DSC$K_DTYPE_L,
: 493      1410 2 | |     data type
: 494      1411 2 | |     K_LONG_LEN,       length of data type
: 495      1412 2 | |     ELEM,             address of value
: 496      1413 2 | |     BASSK_COMMA_FOR   comma format character
: 497      1414 2 | | );
: 498      1415 2 | RETURN;
: 499      1416 1 | END;                               !End of BASSOUT_L_V_C

```

5B 00000000G 00	DO 00002	MOVL	OTSSSA_CUR_LUB, CCB	: 1403
50 FF71 CB	9A 00009	MOVZBL	-143(CCB), R0	: 1409
50 00000000G0040	DO 0000E	MOVL	BASS\$AA_UDF_PR1-104[R0], R0	:
	02 DD 00016	PUSHL	#2	:
04 AC	9F 00018	PUSHAB	ELEM	:
	04 DD 0001B	PUSHL	#4	:
	08 DD 0001D	PUSHL	#8	:
00000000G0040	04 FB 0001F	CALLS	#4, BASS\$AA_UDF_PR1[R0]	:
	04 00027	RET		: 1416

: Routine Size: 40 bytes, Routine Base: \_BAS\$CODE + 00AB

: 500 1417 1

```

502 1418 1 GLOBAL ROUTINE BASSOUT_L_V_B (
503 1419 1     ELEM
504 1420 1     ) : NOVALUE =
505 1421 1
506 1422 1 ++
507 1423 1 FUNCTIONAL DESCRIPTION:
508 1424 1
509 1425 1 Output a longword, the source is passed by value
510 1426 1
511 1427 1 FORMAL PARAMETERS:
512 1428 1
513 1429 1     ELEM.rl.v           longword to print
514 1430 1
515 1431 1 IMPLICIT INPUTS:
516 1432 1
517 1433 1     .OTSS$A_CUR_LUB    current Logical Unit Block
518 1434 1     ISB$B_STTM_TYPE    statement type of this I/O statement
519 1435 1
520 1436 1 IMPLICIT OUTPUTS:
521 1437 1
522 1438 1     NONE
523 1439 1
524 1440 1 COMPLETION CODES:
525 1441 1
526 1442 1     NONE
527 1443 1
528 1444 1 SIDE EFFECTS:
529 1445 1
530 1446 1     NONE
531 1447 1
532 1448 1 --
533 1449 1
534 1450 1 BEGIN
535 1451 1
536 1452 1 GLOBAL REGISTER
537 1453 1     CCB = K_CCB_REG : REF BLOCK [, BYTE];
538 1454 1
539 1455 1     CCB = .OTSS$A_CUR_LUB;
540 1456 1 ++
541 1457 1 Dispatch to the UDF level. Dispatching is done because this may be a PRINT
542 1458 1 element transmit for prompting or for printing. Therefore, based on the
543 1459 1 statement type, either the INPUT or the PRINT UDF will be called.
544 1460 1 --
545 1461 1     (BAS$$AA_UDF_PR1 + .BAS$$AA_UDF_PR1 [CCB [ISB$B_STTM_TYPE] - ISB$K_BASSTTYLO + 1]) (DSC$K_DTYPE_L,
546 1462 1     K_LONG_LEN,           | data type
547 1463 1     ELEM,                 | length of data type
548 1464 1     BAS$K_NO_FORM        | address of value
549 1465 1     );                   | no format character
550 1466 1 );
551 1467 1 RETURN;
552 1468 1 END;

```

!End of BASSOUT\_L\_V\_B

BASSUPI\_TERM\_IO  
1-007

1 7  
16-Sep-1984 01:18:57 VAX-11 Bliss-32 V4.0-742  
14-Sep-1984 11:56:42 [BASRTL.SRC]BASTERMIO.B32;1

Page 19  
(10)

5B 00000000G 00 D0 00002  
50 FF71 CB 9A 00009  
50 00000000G0040 D0 0000E  
03 DD 00016  
04 AC 9F 00018  
04 DD 0001B  
08 DD 0001D  
00000000G0040 04 FB 0001F  
04 00027

MOVL OTSS\$A\_CUR\_LUB, CCB  
MOVZBL -143(CCB), R0  
MOVL BASS\$AA\_UDF\_PR1-104[R0], R0  
PUSHL #3  
PUSHAB ELEM  
PUSHL #4  
PUSHL #8  
CALLS #4, BASS\$AA\_UDF\_PR1[R0]  
RET

: 1455  
: 1461  
:  
:  
:  
:  
:  
:  
: 1468

: Routine Size: 40 bytes, Routine Base: \_BAS\$CODE + 00D3

: 553 1469 1

```

555 1470 1 GLOBAL ROUTINE BASSOUT_F_V_S (
556 1471 1     ELEM
557 1472 1     ) : NOVALUE =
558 1473 1
559 1474 1 ++
560 1475 1 FUNCTIONAL DESCRIPTION:
561 1476 1
562 1477 1 Output a single precision floating, the source is passed by value
563 1478 1
564 1479 1 FORMAL PARAMETERS:
565 1480 1
566 1481 1     ELEM.rf.v           floating to print
567 1482 1
568 1483 1 IMPLICIT INPUTS:
569 1484 1
570 1485 1     OTSS$A_CUR_LUB      current Logical Unit Block
571 1486 1     ISB$B_STTM_TYPE     statement type of this I/O statement
572 1487 1
573 1488 1 IMPLICIT OUTPUTS:
574 1489 1
575 1490 1     NONE
576 1491 1
577 1492 1 COMPLETION CODES:
578 1493 1
579 1494 1     NONE
580 1495 1
581 1496 1 SIDE EFFECTS:
582 1497 1
583 1498 1     NONE
584 1499 1
585 1500 1 --
586 1501 1
587 1502 2 BEGIN
588 1503 2
589 1504 2 GLOBAL REGISTER
590 1505 2     CCB = K_CCB_REG : REF BLOCK [, BYTE];
591 1506 2
592 1507 2     CCB = .OTSS$A_CUR_LUB;
593 1508 2 +
594 1509 2 Dispatch to the UDF level. Dispatching is done because this may be a PRINT
595 1510 2 element transmit for prompting or for printing. Therefore, based on the
596 1511 2 statement type, either the INPUT or the PRINT UDF will be called.
597 1512 2
598 1513 2     (BAS$$AA_UDF_PR1 + .BAS$$AA_UDF_PR1 [.CCB [ISB$B_STTM_TYPE] - ISB$K_BASSTTYLO + 1]) (DSC$K_DTYPE_F,
599 1514 2         data type
600 1515 2         K_FLOAT_LEN,           length of data type
601 1516 2         ELEM,                 address of value
602 1517 2         BAS$K_SEMI_FORM       semicolon format character
603 1518 2     );
604 1519 2 RETURN;
605 1520 1 END;
!End of BASSOUT_F_V_S

```

0800 0000

.ENTRY BASSOUT\_F\_V\_S, Save R11

: 1470



```

608 1522 1 GLOBAL ROUTINE BASSOUT_F_V_C (          | print floating by value, comma format
609 1523 1     ELEM                                     | element to output by value
610 1524 1     ) : NOVALUE =
611 1525 1
612 1526 1 ++
613 1527 1 FUNCTIONAL DESCRIPTION:
614 1528 1
615 1529 1 Output a single precision floating, the source is passed by value
616 1530 1
617 1531 1 FORMAL PARAMETERS:
618 1532 1
619 1533 1     ELEM.rf.v          floating to print
620 1534 1
621 1535 1 IMPLICIT INPUTS:
622 1536 1
623 1537 1     OTSS$A_CUR_LUB    current Logical Unit Block
624 1538 1     ISB$B_STTM_TYPE  statement type of this I/O statement
625 1539 1
626 1540 1 IMPLICIT OUTPUTS:
627 1541 1
628 1542 1     NONE
629 1543 1
630 1544 1 COMPLETION CODES:
631 1545 1
632 1546 1     NONE
633 1547 1
634 1548 1 SIDE EFFECTS:
635 1549 1
636 1550 1     NONE
637 1551 1
638 1552 1 --
639 1553 1
640 1554 2 BEGIN
641 1555 2
642 1556 2 GLOBAL REGISTER
643 1557 2     CCB = K_CCB_REG : REF BLOCK [, BYTE];
644 1558 2
645 1559 2     CCB = .OTSS$A_CUR_LUB;
646 1560 2 ++
647 1561 2 Dispatch to the UDF level. Dispatching is done because this may be a PRINT
648 1562 2 element transmit for prompting or for printing. Therefore, based on the
649 1563 2 statement type, either the INPUT or the PRINT UDF will be called.
650 1564 2 --
651 1565 2     (BASS$AA_UDF_PR1 + .BASS$AA_UDF_PR1 [CCB [ISB$B_STTM_TYPE] - ISB$K_BASSTTYLO + 1]) (DSC$K_DTYPE_F,
652 1566 2     data type
653 1567 2     K_FLOAT_LEN,      | length of data type
654 1568 2     ELEM,             | address of value
655 1569 2     BASS$K_COMMA_FOR  | comma format character
656 1570 2 );
657 1571 2 RETURN;
658 1572 1 END;                                     |End of BASSOUT_F_V_C

```

```
5B 00000000G 00 D0 00002
50 FF71 CB 9A 00009
50 00000000G0040 D0 0000E
      02 DD 00016
      04 AC 9F 00018
      04 DD 0001B
      0A DD 0001D
00000000G0040 04 FB 0001F
      04 00027
```

```
MOVL OTSS$A_CUR_LUB, CCB
MOVZBL -143(CCB), R0
MOVL BASS$AA_UDF_PR1-104[R0], R0
PUSHL #2
PUSHAB ELEM
PUSHL #4
PUSHL #10
CALLS #4, BASS$AA_UDF_PR1[R0]
RET
```

```
: 1559
: 1565
:
:
:
: 1572
```

: Routine Size: 40 bytes, Routine Base: \_BASSCODE + 0123

: 659 1573 1

```

661 1574 1 GLOBAL ROUTINE BASSOUT_F_V_B (
662 1575 1     ELEM
663 1576 1     ) : NOVALUE =
664 1577 1
665 1578 1 |++
666 1579 1 | FUNCTIONAL DESCRIPTION:
667 1580 1 |
668 1581 1 | Output a single precision floating, the source is passed by value
669 1582 1 |
670 1583 1 | FORMAL PARAMETERS:
671 1584 1 |
672 1585 1 |     ELEM.rf.v           floating to print
673 1586 1 |
674 1587 1 | IMPLICIT INPUTS:
675 1588 1 |
676 1589 1 |     OTSS$A_CUR_LUB      current Logical Unit Block
677 1590 1 |     ISB$B_STTM_TYPE     statement type of this I/O statement
678 1591 1 |
679 1592 1 | IMPLICIT OUTPUTS:
680 1593 1 |
681 1594 1 |     NONE
682 1595 1 |
683 1596 1 | COMPLETION CODES:
684 1597 1 |
685 1598 1 |     NONE
686 1599 1 |
687 1600 1 | SIDE EFFECTS:
688 1601 1 |
689 1602 1 |     NONE
690 1603 1 |
691 1604 1 | --
692 1605 1 |
693 1606 2 | BEGIN
694 1607 2 |
695 1608 2 | GLOBAL REGISTER
696 1609 2 |     CCB = K_CCB_REG : REF BLOCK [, BYTE];
697 1610 2 |
698 1611 2 |     CCB = .OTSS$A_CUR_LUB;
699 1612 2 | +
700 1613 2 | Dispatch to the UDF level. Dispatching is done because this may be a PRINT
701 1614 2 | element transmit for prompting or for printing. Therefore, based on the
702 1615 2 | statement type, either the INPUT or the PRINT UDF will be called.
703 1616 2 | -
704 1617 2 |     (BASS$AA_UDF_PR1 + .BASS$AA_UDF_PR1 [.CCB [ISB$B_STTM_TYPE] - ISB$K_BASSTTYLO + 1]) (DSC$K_DTYPE_F,
705 1618 2 |         K_FLOAT_LEN,      | data type
706 1619 2 |         ELEM,             | length of data type
707 1620 2 |         BASS$K_NO_FORM    | address of value
708 1621 2 |     );                   | no format character
709 1622 2 |
710 1623 2 | RETURN;
711 1624 1 | END;

```

!End of BASSOUT\_F\_V\_B

5B 00000000G 00 D0 00002  
50 FF71 CB 9A 00009  
50 00000000G0040 D0 0000E  
03 DD 00016  
04 AC 9F 00018  
04 DD 0001B  
0A CD 0001D  
00000000G0040 04 FB 0001F  
04 00027

MOVL OTSS\$A\_CUR\_LUB, CCB  
MOVZBL -143(CCB), R0  
MOVL BASS\$AA\_UDF\_PR1-104[R0], R0  
PUSHL #3  
PUSHAB ELEM  
PUSHL #4  
PUSHL #10  
CALLS #4, BASS\$AA\_UDF\_PR1[R0]  
RET

: 1611  
: 1617  
:  
:  
:  
:  
:  
:  
: 1624

; Routine Size: 40 bytes, Routine Base: \_BASS\$CODE + 014B

; 712 1625 1

```

: 714      1626 1 GLOBAL ROUTINE BASSOUT_D_V_S (      : print double by value, semicolon format
: 715      1627 1     ELEM      : element to output by value
: 716      1628 1     ) : NOVALUE =
: 717      1629 1
: 718      1630 1
: 719      1631 1 ++
: 720      1632 1 FUNCTIONAL DESCRIPTION:
: 721      1633 1 Output a double precision floating, the source is passed by value
: 722      1634 1
: 723      1635 1 FORMAL PARAMETERS:
: 724      1636 1
: 725      1637 1     ELEM.rd.v      double floating to print
: 726      1638 1
: 727      1639 1 IMPLICIT INPUTS:
: 728      1640 1
: 729      1641 1     OTSS$A_CUR_LUB      current Logical Unit Block
: 730      1642 1     ISB$B_STTM_TYPE      statement type of this I/O statement
: 731      1643 1
: 732      1644 1 IMPLICIT OUTPUTS:
: 733      1645 1
: 734      1646 1     NONE
: 735      1647 1
: 736      1648 1 COMPLETION CODES:
: 737      1649 1
: 738      1650 1     NONE
: 739      1651 1
: 740      1652 1 SIDE EFFECTS:
: 741      1653 1
: 742      1654 1     NONE
: 743      1655 1
: 744      1656 1 --
: 745      1657 1
: 746      1658 2 BEGIN
: 747      1659 2
: 748      1660 2 GLOBAL REGISTER
: 749      1661 2     CCB = K_CCB_REG : REF BLOCK [, BYTE];
: 750      1662 2
: 751      1663 2     CCB = .OTSS$A_CUR_LUB;
: 752      1664 2 ++
: 753      1665 2 Dispatch to the UDF level. Dispatching is done because this may be a PRINT
: 754      1666 2 element transmit for prompting or for printing. Therefore, based on the
: 755      1667 2 statement type, either the INPUT or the PRINT UDF will be called.
: 756      1668 2 --
: 757      1669 2     (BASS$AA_UDF_PR1 + .BASS$AA_UDF_PR1 [.CCB [ISB$B_STTM_TYPE] - ISB$K_BASSTTYLO + 1]) (DSC$K_DTYPE_D,
: 758      1670 2     K_DOUBLE_LEN,      : data type
: 759      1671 2     ELEM,      : length of data type
: 760      1672 2     BASS$K_SEMI_FORM      : address of value
: 761      1673 2     );      : semicolon format character
: 762      1674 2
: 763      1675 2 RETURN;
: 764      1676 1 END;      !End of BASSOUT_D_V_S

```

0800 0000

.ENTRY BASSOUT\_D\_V\_S, Save R11

: 1626

BASSUPI\_TERM\_IO  
1-007

D 8  
16-Sep-1984 01:18:57 VAX-11 Bliss-32 V4.0-742  
14-Sep-1984 11:56:42 [BASRTL.SRC]BASTERMIO.B32;1

Page 27  
(14)

5B 0000000G 00 D0 00002  
50 FF71 CB 9A 00009  
50 0000000G0040 D0 0000E  
04 AC 9F 00018  
08 DD 0001B  
08 DD 0001D  
00000000G0040 04 FB 0001F  
04 00027

MOVL OTSSSA\_CUR\_LUB, CCB  
MOVZBL -143(CCB), R0  
MOVL BASS\$AA\_UDF\_PR1-104[R0], R0  
PUSHL #1  
PUSHAB ELEM  
PUSHL #8  
PUSHL #11  
CALLS #4, BASS\$AA\_UDF\_PR1[R0]  
RET

: 1663  
: 1669  
:  
:  
:  
:  
:  
:  
:  
:  
: 1676

; Routine Size: 40 bytes, Routine Base: \_BAS\$CODE + 0173

; 765 1677 1

```

: 767      1678 1 GLOBAL ROUTINE BASSOUT_D_V_C (           ; print double by value, comma format
: 768      1679 1     ELEM                               ; element to output by value
: 769      1680 1     ) : NOVALUE =
: 770      1681 1
: 771      1682 1     +-
: 772      1683 1     FUNCTIONAL DESCRIPTION:
: 773      1684 1
: 774      1685 1     Output a double precision floating, the source is passed by value
: 775      1686 1
: 776      1687 1     FORMAL PARAMETERS:
: 777      1688 1
: 778      1689 1         ELEM.rd.v                 double floating to print
: 779      1690 1
: 780      1691 1     IMPLICIT INPUTS:
: 781      1692 1
: 782      1693 1         OTSS$A_CUR_LUB             current Logical Unit Block
: 783      1694 1         ISB$B_STM_TYPE            statement type of this I/O statement
: 784      1695 1
: 785      1696 1     IMPLICIT OUTPUTS:
: 786      1697 1
: 787      1698 1         NONE
: 788      1699 1
: 789      1700 1     COMPLETION CODES:
: 790      1701 1
: 791      1702 1         NONE
: 792      1703 1
: 793      1704 1     SIDE EFFECTS:
: 794      1705 1
: 795      1706 1         NONE
: 796      1707 1
: 797      1708 1     --
: 798      1709 1
: 799      1710 2     BEGIN
: 800      1711 2
: 801      1712 2     GLOBAL REGISTER
: 802      1713 2         CCB = K_CCB_REG : REF BLOCK [, BYTE];
: 803      1714 2
: 804      1715 2     CCB = .OTSS$A_CUR_LUB;
: 805      1716 2     +-
: 806      1717 2     Dispatch to the UDF level. Dispatching is done because this may be a PRINT
: 807      1718 2     element transmit for prompting or for printing. Therefore, based on the
: 808      1719 2     statement type, either the INPUT or the PRINT UDF will be called.
: 809      1720 2     -
: 810      1721 2     (BASS$AA_UDF_PRI + .BASS$AA_UDF_PRI [.CCB [ISB$B_STM_TYPE] - ISB$K_BASSTYLO + 1]) (DSC$K_DTYPE_D,
: 811      1722 2         data type
: 812      1723 2         K DOUBLE_LEN,             ! length of data type
: 813      1724 2         ELEM,                   ! address of value
: 814      1725 2         BASS$K_COMMA_FOR        ! comma format character
: 815      1726 2     );
: 816      1727 2     RETURN;
: 817      1728 1     END;                               !End of BASSOUT_D_V_C

```

BASSUPI\_TERM\_IO  
1-007

F 8  
16-Sep-1984 01:18:57 VAX-11 Bliss-32 V4.0-742  
14-Sep-1984 11:56:42 [BASRTL.SRC]BASTERMIO.B32;1

Page 29  
(15)

5B 00000000G 00 D0 00002	MOVL	OTSS\$A_CUR_LUB, CCB	: 1715
50 FF71 CB 9A 00009	MOVZBL	-143(CCB), R0	: 1721
50 00000000G0040 D0 0000E	MOVL	BASS\$AA_UDF_PR1-104[R0], R0	:
	PUSHL	#2	:
04 AC 9F 00018	PUSHAB	ELEM	:
	PUSHL	#8	:
	PUSHL	#11	:
00000000G0040 04 FB 0001F	CALLS	#4, BASS\$AA_UDF_PR1[R0]	:
	RET		: 1728
			:

: Routine Size: 40 bytes, Routine Base: \_BAS\$CODE + 019B

: 818 1729 1

```

820      1730 1 GLOBAL ROUTINE BASSOUT_D_V_B (
821      1731 1     ELEM
822      1732 1     ) : NOVALUE =
823      1733 1
824      1734 1     ++
825      1735 1     FUNCTIONAL DESCRIPTION:
826      1736 1
827      1737 1     Output a double precision floating, the source is passed by value
828      1738 1
829      1739 1     FORMAL PARAMETERS:
830      1740 1
831      1741 1         ELEM.rd.v           double floating to print
832      1742 1
833      1743 1     IMPLICIT INPUTS:
834      1744 1
835      1745 1         OTSS$A_CUR_LUB       current Logical Unit Block
836      1746 1         ISB$B_STM_TYPE      statement type of this I/O statement
837      1747 1
838      1748 1     IMPLICIT OUTPUTS:
839      1749 1
840      1750 1         NONE
841      1751 1
842      1752 1     COMPLETION CODES:
843      1753 1
844      1754 1         NONE
845      1755 1
846      1756 1     SIDE EFFECTS:
847      1757 1
848      1758 1         NONE
849      1759 1
850      1760 1     --
851      1761 1
852      1762 2     BEGIN
853      1763 2
854      1764 2     GLOBAL REGISTER
855      1765 2         CCB = K_CCB_REG : REF BLOCK [, BYTE];
856      1766 2
857      1767 2         CCB = .OTSS$A_CUR_LUB;
858      1768 2     +
859      1769 2     Dispatch to the UDF level. Dispatching is done because this may be a PRINT
860      1770 2     element transmit for prompting or for printing. Therefore, based on the
861      1771 2     statement type, either the INPUT or the PRINT UDF will be called.
862      1772 2     -
863      1773 2         (BASS$AA_UDF_PR1 + .BASS$AA_UDF_PR1 [.CCB [ISB$B_STM_TYPE] - ISB$K_BASSTYLO + 1]) (DSC$K_DTYPE_D,
864      1774 2         K_DOUBLE_LEN,           ! data type
865      1775 2         ELEM,                 ! length of data type
866      1776 2         BAS$K_NO_FORM          ! address of value
867      1777 2         );
868      1778 2     RETURN;
869      1779 2
870      1780 1     END;

```

!End of BASSOUT\_D\_V\_B

5B	00000000G	00	D0	00002	MOVL	OTSS\$A_CUR_LUB, CCB	:	1767
50	FF71	CB	9A	00009	MOVZBL	-143(CCB), R0	:	1773
50	00000000G0040	03	D0	0000E	MOVL	BASS\$AA_UDF_PR1-104[R0], R0	:	
		04	AC	9F 00018	PUSHL	#3	:	
			08	DD 0001B	PUSHAB	ELEM	:	
			0B	DD 0001D	PUSHL	#8	:	
00000000G0040		04	FB	0001F	PUSHL	#11	:	
		04	04	00027	CALLS	#4, BASS\$AA_UDF_PR1[R0]	:	1780
					RET		:	

: Routine Size: 40 bytes, Routine Base: \_BAS\$CODE + 01C3

: 871 1781 1

```

: 873 1782 1 GLOBAL ROUTINE BASSOUT_T_DX_S (
: 874 1783 1     ELEM
: 875 1784 1     ) : NOVALUE =
: 876 1785 1
: 877 1786 1
: 878 1787 1     ++
: 879 1788 1     FUNCTIONAL DESCRIPTION:
: 880 1789 1     Output text, the source is passed by descriptor
: 881 1790 1
: 882 1791 1     FORMAL PARAMETERS:
: 883 1792 1
: 884 1793 1         ELEM.rt.dx             text to print
: 885 1794 1
: 886 1795 1     IMPLICIT INPUTS:
: 887 1796 1
: 888 1797 1         OTSS$A_CUR_LUB         current Logical Unit Block
: 889 1798 1         ISB$B_STM_TYPE       statement type of this I/O statement
: 890 1799 1
: 891 1800 1     IMPLICIT OUTPUTS:
: 892 1801 1
: 893 1802 1         NONE
: 894 1803 1
: 895 1804 1     COMPLETION CODES:
: 896 1805 1
: 897 1806 1         NONE
: 898 1807 1
: 899 1808 1     SIDE EFFECTS:
: 900 1809 1
: 901 1810 1         NONE
: 902 1811 1
: 903 1812 1     --
: 904 1813 1
: 905 1814 2     BEGIN
: 906 1815 2
: 907 1816 2     GLOBAL REGISTER
: 908 1817 2         CCB = K_CCB_REG : REF BLOCK [, BYTE];
: 909 1818 2
: 910 1819 2     MAP
: 911 1820 2         ELEM : REF BLOCK [8, BYTE];
: 912 1821 2
: 913 1822 2         CCB = .OTSS$A_CUR_LUB;
: 914 1823 2
: 915 1824 2     ++
: 916 1825 2     Dispatch to the UDF level. Dispatching is done because this may be a PRINT
: 917 1826 2     element transmit for prompting or for printing. Therefore, based on the
: 918 1827 2     statement type, either the INPUT or the PRINT UDF will be called.
: 919 1828 2     --
: 920 1829 2         (BAS$$AA_UDF_PR1 + .BAS$$AA_UDF_PR1 [.CCB [ISB$B_STM_TYPE] - ISB$K_BASSTYLO + 1]) (DSC$K_DTYPE_T,
: 921 1830 2             .ELEM [DSC$W_LENGTH],
: 922 1831 2             .ELEM,
: 923 1832 2             BAS$K_SEMI_FORM
: 924 1833 2         );
: 925 1834 2     RETURN;
: 926 1835 1     END;

```

!End of BASSOUT\_T\_DX\_S

```
0800 00000
5B 00000000G 00 D0 00002
50 FF71 CB 9A 00009
50 00000000G0040 D0 0000E
01 DD 00016
04 AC DD 00018
7E 04 BC 3C 0001B
0E DD 0001F
00000000G0040 04 FB 00021
04 00029
```

```
.ENTRY BASSOUT T DX S, Save R11 : 1782
MOVL OTSS$A CUR_LOB, CCB : 1822
MOVZBL -143(CCB), R0 : 1828
MOVL BASS$AA_UDF_PR1-104[R0], R0 :
PUSHL #1 :
PUSHL ELEM : 1831
MOVZWL @ELEM, -(SP) : 1830
PUSHL #14 : 1828
CALLS #4, BASS$AA_UDF_PR1[R0] :
RET : 1835
```

: Routine Size: 42 bytes, Routine Base: \_BAS\$CODE + 01EB

: 927 1836 1



```
0800 00000
5B 00000000G 00 D0 00002
50 FF71 CB 9A 00009
50 00000000G0040 D0 0000E
      04 AC DD 00016
7E 04 BC 3C 0001B
      0E DD 0001F
00000000G0040 04 FB 00021
      04 00029
```

```
.ENTRY BASSOUT_T DX C, Save R11 : 1837
MOVL OTSS$A_CUR_LOB, CCB : 1877
MOVZBL -143(CCB), R0 : 1883
MOVL BASS$AA_UDF_PR1-104[R0], R0 :
PUSHL #2 :
PUSHL ELEM : 1886
MOVZWL @ELEM, -(SP) : 1885
PUSHL #14 : 1883
CALLS #4, BASS$AA_UDF_PR1[R0] :
RET : 1890
```

: Routine Size: 42 bytes, Routine Base: \_BAS\$CODE + 0215

: 983 1891 1



```
0800 00000
5B 00000000G 00 D0 00002
50 FF71 CB 9A 00009
50 00000000G0040 D0 0000E
      04 AC DD 00016
7E 04 BC 3C 00018
      0E DD 0001F
00000000G0040 04 FB 00021
      04 00029
```

```
.ENTRY BASSOUT T DX B, Save R11
MOVL OTSSSA CUR_LOB, CCB
MOVZBL -143(CCB), R0
MOVL BASS$AA_UDF_PR1-104[R0], R0
PUSHL #3
PUSHL ELEM
MOVZWL @ELEM, -(SP)
PUSHL #14
CALLS #4, BASS$AA_UDF_PR1[R0]
RET
```

```
: 1892
: 1932
: 1938
:
: 1941
: 1940
: 1938
: 1945
```

: Routine Size: 42 bytes, Routine Base: \_BAS\$CODE + 023F

```

1040 1946 1 GLOBAL ROUTINE BASSOUT_G_V_S (
1041 1947 1     ELEM                               | output G by value, semi format
1042 1948 1     ) : NOVALUE =                       | element to output
1043 1949 1
1044 1950 1 |++
1045 1951 1 | FUNCTIONAL DESCRIPTION:
1046 1952 1 |
1047 1953 1 | Output a g floating number passed by value, with a semi colon terminator
1048 1954 1 |
1049 1955 1 | FORMAL PARAMETERS:
1050 1956 1 |
1051 1957 1 |     ELEM.rg.v                           g float to print
1052 1958 1 |
1053 1959 1 | IMPLICIT INPUTS:
1054 1960 1 |
1055 1961 1 |     OTSS$A_CUR_LUB                       current Logical Unit Block
1056 1962 1 |     ISB$B_STTM_TYPE                     statement type of this I/O statement
1057 1963 1 |
1058 1964 1 | IMPLICIT OUTPUTS:
1059 1965 1 |
1060 1966 1 |     NONE
1061 1967 1 |
1062 1968 1 | COMPLETION CODES:
1063 1969 1 |
1064 1970 1 |     NONE
1065 1971 1 |
1066 1972 1 | SIDE EFFECTS:
1067 1973 1 |
1068 1974 1 |     NONE
1069 1975 1 |
1070 1976 1 | --
1071 1977 1 |
1072 1978 2 | BEGIN
1073 1979 2 |
1074 1980 2 | GLOBAL REGISTER
1075 1981 2 |     CCB = K_CCB_REG : REF BLOCK [, BYTE];
1076 1982 2 |
1077 1983 2 |     CCB = .OTSS$A_CUR_LUB;
1078 1984 2 | +
1079 1985 2 | Dispatch to the UDF level. Dispatching is done because this may be a PRINT
1080 1986 2 | element transmit for prompting or for printing. Therefore, based on the
1081 1987 2 | statement type, either the INPUT or the PRINT UDF will be called.
1082 1988 2 | -
1083 1989 2 |     (BAS$$AA_UDF_PRI < .BAS$$AA_UDF_PRI [CCB [ISB$B_STTM_TYPE] - ISB$K_BASSTTYLO + 1]) (DSC$K_DTYPE_G,
1084 1990 2 |         data type
1085 1991 2 |         K_GFLOAT_LEN,           | length of data type
1086 1992 2 |         ELEM,                   | address of value
1087 1993 2 |         BASS$K_SEMI_FORM        | semicolor format character
1088 1994 2 |     );
1089 1995 2 | RETURN;
1090 1996 1 | END;                               !End of BASSOUT_G_V_S

```

0800 00000

.ENTRY BASSOUT\_G\_V\_S, Save R11

; 1946

```
5B 00000000G 00 DO 00002
50 FF71 CB 9A 00009
50 00000000G0040 DO 0000E
      01 DD 00016
      04 AC 9F 00018
      08 DD 0001B
      1B DD 0001D
00000000G0040 04 FB 0001F
      04 00027
```

```
MOVL OTSS$A_CUR_LUB, CCB
MOVZBL -143(CCB), R0
MOVL BAS$AA_UDF_PR1-104[R0], R0
PUSHL #1
PUSHAB ELEM
FUSHL #8
PUSHL #27
CALLS #4, BAS$AA_UDF_PR1[R0]
RET
```

```
: 1983
: 1989
:
:
: 1996
```

; Routine Size: 40 bytes, Routine Base: \_BAS\$CODE + 0269

```

: 1092 1997 1 GLOBAL ROUTINE BASSOUT_G_V_C (          | output g float by value, comma format
: 1093 1998 1   ELEM                                     | element to print
: 1094 1999 1   ) : NOVALUE =
: 1095 2000 1
: 1096 2001 1 !++
: 1097 2002 1 FUNCTIONAL DESCRIPTION:
: 1098 2003 1
: 1099 2004 1 Print a gfloat number passed by value, with comma format
: 1100 2005 1
: 1101 2006 1 FORMAL PARAMETERS:
: 1102 2007 1
: 1103 2008 1     ELEM.rg.v                gfloat to print
: 1104 2009 1
: 1105 2010 1 IMPLICIT INPUTS:
: 1106 2011 1
: 1107 2012 1     OTSS$A_CUR_LUB          current Logical Unit Block
: 1108 2013 1     ISB$B_STM_TYPE        statement type of this I/O statement
: 1109 2014 1
: 1110 2015 1 IMPLICIT OUTPUTS:
: 1111 2016 1
: 1112 2017 1     NONE
: 1113 2018 1
: 1114 2019 1 COMPLETION CODES:
: 1115 2020 1
: 1116 2021 1     NONE
: 1117 2022 1
: 1118 2023 1 SIDE EFFECTS:
: 1119 2024 1
: 1120 2025 1     NONE
: 1121 2026 1
: 1122 2027 1 --
: 1123 2028 1
: 1124 2029 2 BEGIN
: 1125 2030 2
: 1126 2031 2 GLOBAL REGISTER
: 1127 2032 2   CCB = K_CCB_REG : REF BLOCK [, BYTE];
: 1128 2033 2
: 1129 2034 2   CCB = .OTSS$A_CUR_LUB;
: 1130 2035 2 !+
: 1131 2036 2 Dispatch to the UDF level. Dispatching is done because this may be a PRINT
: 1132 2037 2 element transmit for prompting or for printing. Therefore, based on the
: 1133 2038 2 statement type, either the INPUT or the PRINT UDF will be called.
: 1134 2039 2 --
: 1135 2040 2   (BAS$$AA_UDF_PR1 + .BAS$$AA_UDF_PR1 [CCB [ISB$B_STM_TYPE] - ISB$K_BASSTYLO + 1]) (DSC$K_DTYPE_G,
: 1136 2041 2     data type
: 1137 2042 2     K GFLOAT_LEN,          length of data type
: 1138 2043 2     ELEM,                    address of value
: 1139 2044 2     BAS$K_COMMA_FOR         comma format character
: 1140 2045 2   );
: 1141 2046 2 RETURN;
: 1142 2047 1 END;                                     !End of BASSOUT_G_V_C

```

0800 00000

.ENTRY BASSOUT\_G\_V\_C, Save R11

: 1997

BASSUPI\_TERM\_10  
1-007

E 9  
16-Sep-1984 01:18:57 VAX-11 Bliss-32 V4.0-742  
14-Sep-1984 11:56:42 [BASRTL.SRC]BASTERMIO.B32;1

Page 41  
(21)

```
5B 00000000G 00 D0 00002
50 FF71 CB 9A 00009
50 00000000G0040 D0 0000E
      02 DD 00016
      04 AC 9F 00018
      08 DD 0001B
      1B DD 0001D
00000000G0040 04 FB 0001F
      04 00027
```

```
MOVL OTSS$A_CUR_LUB, CCB
MOVZBL -143(CCB), R0
MOVL BASS$AA_UDF_PRI-104[R0], R0
PUSHL #2
PUSHAB ELEM
PUSHL #8
PUSHL #27
CALLS #4, BASS$AA_UDF_PRI[R0]
RET
```

```
: 2034
: 2040
:
:
:
:
: 2047
```

; Routine Size: 40 bytes, Routine Base: \_BAS\$CODE + 0291

```

: 1144      2048 1 GLOBAL ROUTINE BASSOUT_G_V_B (           | print gfloat, blank format
: 1145      2049 1     ELEM                               | element to print
: 1146      2050 1     ) : NOVALUE =
: 1147      2051 1
: 1148      2052 1     +-+
: 1149      2053 1     FUNCTIONAL DESCRIPTION:
: 1150      2054 1
: 1151      2055 1     Print a gfloat number passed by value, with a blank terminator
: 1152      2056 1
: 1153      2057 1     FORMAL PARAMETERS:
: 1154      2058 1
: 1155      2059 1         ELEM.rg.v                gfloat to print
: 1156      2060 1
: 1157      2061 1     IMPLICIT INPUTS:
: 1158      2062 1
: 1159      2063 1         OTSS$A_CUR_LUB            current Logical Unit Block
: 1160      2064 1         ISB$B_STTM_TYPE          statement type of this I/O statement
: 1161      2065 1
: 1162      2066 1     IMPLICIT OUTPUTS:
: 1163      2067 1
: 1164      2068 1         NONE
: 1165      2069 1
: 1166      2070 1     COMPLETION CODES:
: 1167      2071 1
: 1168      2072 1         NONE
: 1169      2073 1
: 1170      2074 1     SIDE EFFECTS:
: 1171      2075 1
: 1172      2076 1         NONE
: 1173      2077 1
: 1174      2078 1     --
: 1175      2079 1
: 1176      2080 2     BEGIN
: 1177      2081 2
: 1178      2082 2     GLOBAL REGISTER
: 1179      2083 2         CCB = K_CCB_REG : REF BLOCK [, BYTE];
: 1180      2084 2
: 1181      2085 2     CCB = .OTSS$A_CUR_LUB;
: 1182      2086 2     +-+
: 1183      2087 2     Dispatch to the UDF level. Dispatching is done because this may be a PRINT
: 1184      2088 2     element transmit for prompting or for printing. Therefore, based on the
: 1185      2089 2     statement type, either the INPUT or the PRINT UDF will be called.
: 1186      2090 2     -
: 1187      2091 2         (BASS$AA_UDF_PR1 + .BASS$AA_UDF_PR1 [.CCB [ISB$B_STTM_TYPE] - ISB$K_BASSTYLO + 1]) (DSC$K_DTYPE_G,
: 1188      2092 2         K_GFLOAT_LEN,                | data type
: 1189      2093 2         ELEM,                        | length of data type
: 1190      2094 2         BASS$K_NO_FORM              | address of value
: 1191      2095 2         );                          | no format character
: 1192      2096 2     );
: 1193      2097 2     RETURN;
: 1194      2098 1     END;                               !End of BASSOUT_G_V_B

```

BASSUPI\_TERM\_IO  
1-007

G 9  
16-Sep-1984 01:18:57 VAX-11 Bliss-32 V4.0-742  
14-Sep-1984 11:56:42 [BASRTL.SRC]BASTERMIO.B32;1

Page 43  
(22)

```
5B 00000000G 00 D0 00002
50 FF71 CB 9A 00009
50 00000000G0040 D0 0000E
      03 DD 00016
      04 AC 9F 00018
      08 DD 0001B
      1B DD 0001D
0000J0000G0040 04 FB 0001F
      04 00027
```

```
MOVL OTSS$A_CUR_LUB, CCB
MOVZBL -143(CCB), R0
MOVL BAS$$AA_UDF_PR1-104[R0], R0
PUSHL #J
PUSHAB ELEM
PUSHL #B
PUSHL #27
CALLS #4, BAS$$AA_UDF_PR1[R0]
RET
```

```
: 2085
: 2091
:
:
:
:
: 2098
```

; Routine Size: 40 bytes, Routine Base: \_BAS\$CODE + 02B9

```

: 1196      2099 1 GLOBAL ROUTINE BASSIN_B_R (           ! input byte by ref
: 1197      2100 1     ELEM                          ! element to input by reference
: 1198      2101 1     ) : NOVALUE =
: 1199      2102 1
: 1200      2103 1     ++
: 1201      2104 1     FUNCTIONAL DESCRIPTION:
: 1202      2105 1
: 1203      2106 1     Input a byte, the destination is passed by reference
: 1204      2107 1
: 1205      2108 1     FORMAL PARAMETERS:
: 1206      2109 1
: 1207      2110 1     ELEM.rb.r                       where to store the byte input
: 1208      2111 1
: 1209      2112 1     IMPLICIT INPUTS:
: 1210      2113 1
: 1211      2114 1     OTSS$A_CUR_LUB                   current Logical Unit Block
: 1212      2115 1     ISB$B_STTM_TYPE                 statement type of this I/O statement
: 1213      2116 1
: 1214      2117 1     IMPLICIT OUTPUTS:
: 1215      2118 1
: 1216      2119 1     NONE
: 1217      2120 1
: 1218      2121 1     COMPLETION CODES:
: 1219      2122 1
: 1220      2123 1     NONE
: 1221      2124 1
: 1222      2125 1     SIDE EFFECTS:
: 1223      2126 1
: 1224      2127 1     NONE
: 1225      2128 1
: 1226      2129 1     --
: 1227      2130 1
: 1228      2131 2     BEGIN
: 1229      2132 2
: 1230      2133 2     GLOBAL REGISTER
: 1231      2134 2     CCB = K_CCB_REG : REF BLOCK [, BYTE];
: 1232      2135 2
: 1233      2136 2     CCB = .OTSS$A_CUR_LUB;
: 1234      2137 2     BASS$UDF_RL1 TDSC$K_DTYPE_B,      ! data type byte
: 1235      2138 2     K_GF[OAT_LEN,                    ! length of data type
: 1236      2139 2     .ELEM,                            ! address of destination
: 1237      2140 2     BASS$K_NULL);                    ! null format character
: 1238      2141 2     RETURN;
: 1239      2142 1     END;                               !End of BASSIN_B_R

```

		0800 0000	.ENTRY	BASSIN_B_R, Save R11	: 2099
5B 0000000G	00	D0 00002	MOVL	OTSS\$A_CUR_LUB, CCB	: 2136
		7E D4 00009	CLRL	-(SP)	: 2137
	04	AC DD 0000B	PUSHL	ELEM	: 2139
		08 DD 0000E	PUSHL	#8	: 2137
		06 DD 00010	PUSHL	#6	:
0000000G 00	04	FB 00012	CALLS	#4, BASS\$UDF_RL1	:
		04 00019	RET		: 2142

BASSUPI\_TERM\_IO  
1-007

1 9  
16-Sep-1984 01:18:57  
14-Sep-1984 11:56:42

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

Page 45  
(23)

: Routine Size: 26 bytes, Routine Base: \_BAS\$CODE + 02E1

```

: 1241      2143  1 GLOBAL ROUTINE BASSOUT_H_V_S (          ! print hfloat with semi format
: 1242      2144  1     ELEM                               ! element to print
: 1243      2145  1     ) : NOVALUE =
: 1244      2146  1
: 1245      2147  1     +-+
: 1246      2148  1     FUNCTIONAL DESCRIPTION:
: 1247      2149  1
: 1248      2150  1     Print an hfloat number passed by value, with semi colon format
: 1249      2151  1
: 1250      2152  1     FORMAL PARAMETERS:
: 1251      2153  1
: 1252      2154  1         ELEM.rh.v                hfloat to print
: 1253      2155  1
: 1254      2156  1     IMPLICIT INPUTS:
: 1255      2157  1
: 1256      2158  1         OTSS$A_CUR_LUB           current Logical Unit Block
: 1257      2159  1         ISB$B_STTM_TYPE         statement type of this I/O statement
: 1258      2160  1
: 1259      2161  1     IMPLICIT OUTPUTS:
: 1260      2162  1
: 1261      2163  1         NONE
: 1262      2164  1
: 1263      2165  1     COMPLETION CODES:
: 1264      2166  1
: 1265      2167  1         NONE
: 1266      2168  1
: 1267      2169  1     SIDE EFFECTS:
: 1268      2170  1
: 1269      2171  1         NONE
: 1270      2172  1
: 1271      2173  1     --
: 1272      2174  1
: 1273      2175  2     BEGIN
: 1274      2176  2
: 1275      2177  2     GLOBAL REGISTER
: 1276      2178  2         CCB = K_CCB_REG : REF BLOCK [, BYTE];
: 1277      2179  2
: 1278      2180  2         CCB = .OTSS$A_CUR_LUB;
: 1279      2181  2     +-+
: 1280      2182  2     Dispatch to the UDF level. Dispatching is done because this may be a PRINT
: 1281      2183  2     element transmit for prompting or for printing. Therefore, based on the
: 1282      2184  2     statement type, either the INPUT or the PRINT UDF will be called.
: 1283      2185  2     -
: 1284      2186  2         (BASS$AA_UDF_PR1 + .BASS$AA_UDF_PR1 [.CCB [ISB$B_STTM_TYPE] - ISB$K_BASSTYLO + 1]) (DSC$K_DTYPE_H,
: 1285      2187  2             data type
: 1286      2188  2             K HFLOAT_LEN,           length of data type
: 1287      2189  2             ELEM,                address of value
: 1288      2190  2             BASS$K_SEMI_FORM      semicolon format character
: 1289      2191  2         );
: 1290      2192  2     RETURN;
: 1291      2193  1     END;                               !End of BASSOUT_H_V_S

```

0800 0000

.ENTRY BASSOUT\_H\_V\_S, Save R11

: 2143

BASSUPI\_TERM\_IO  
1-007

K 9  
16-Sep-1984 01:18:57 VAX-11 Bliss-32 V4.0-742  
14-Sep-1984 11:56:42 [BASRTL.SRC]BASTERMIO.B32;1

Page 47  
(24)

5B	00000000G	00	D0	00002	MOVL	OTSSSA_CUR_LUB, CCB	:	2180
50	FF71	CB	9A	00009	MOVZBL	-143(CCB), R0	:	2186
50	00000000G0040	D0	D0	0000E	MOVL	BASSAA_UDF_PR1-104[R0], R0	:	
		01	DD	00016	PUSHL	#1	:	
	04	AC	9F	00018	PUSHAB	ELEM	:	
		10	DD	0001B	PUSHL	#16	:	
		1C	DD	0001D	PUSHL	#28	:	
00000000G0040		04	FB	0001F	CALLS	#4, BASSAA_UDF_PR1[R0]	:	
		04	04	00027	RET		:	2193

: Routine Size: 40 bytes. Routine Base: \_BAS\$CODE + 02FB

```

: 1293      2194 1 GLOBAL PROCEDURE BASSOUT_H_V_C (          ! print hfloat with comma format
: 1294      2195 1     ELEM                     ! element to print
: 1295      2196 1     ) : NO VALUE =
: 1296      2197 1
: 1297      2198 1
: 1298      2199 1 !++
: 1299      2200 1 ! FUNCTIONAL DESCRIPTION:
: 1300      2201 1 ! Print an hfloat number passed by value, with comma format
: 1301      2202 1
: 1302      2203 1 ! FORMAL PARAMETERS:
: 1303      2204 1
: 1304      2205 1     ELEM.rh.v             hfloat to print
: 1305      2206 1
: 1306      2207 1 ! IMPLICIT INPUTS:
: 1307      2208 1
: 1308      2209 1     OTSS$A_CUR_LUB       current Logical Unit Block
: 1309      2210 1     ISB$B_STM_TYPE     statement type of this I/O statement
: 1310      2211 1
: 1311      2212 1 ! IMPLICIT OUTPUTS:
: 1312      2213 1
: 1313      2214 1     NONE
: 1314      2215 1
: 1315      2216 1 ! COMPLETION CODES:
: 1316      2217 1
: 1317      2218 1     NONE
: 1318      2219 1
: 1319      2220 1 ! SIDE EFFECTS:
: 1320      2221 1
: 1321      2222 1     NONE
: 1322      2223 1
: 1323      2224 1 !--
: 1324      2225 1
: 1325      2226 2     BEGIN
: 1326      2227 2
: 1327      2228 2     GLOBAL REGISTER
: 1328      2229 2     CCB = K_CCB_REG : REF BLOCK [, BYTE];
: 1329      2230 2
: 1330      2231 2     CCB = .OTSS$A_CUR_LUB;
: 1331      2232 2 !+
: 1332      2233 2 ! Dispatch to the UDF level. Dispatching is done because this may be a PRINT
: 1333      2234 2 ! element transmit for prompting or for printing. Therefore, based on the
: 1334      2235 2 ! statement type, either the INPUT or the PRINT UDF will be called.
: 1335      2236 2 !-
: 1336      2237 2     (BASS$AA_UDF_PR1 + .BASS$AA_UDF_PR1 [CCB [ISB$B_STM_TYPE] - ISB$K_BASSTYLO + 1]) (DSC$K_DTYPE_H,
: 1337      2238 2     K_HFLOAT_LEN,           ! data type
: 1338      2239 2     ELEM,                 ! length of data type
: 1339      2240 2     BASS$K_COMMA_FOR     ! address of value
: 1340      2241 2     );                   ! comma format character
: 1341      2242 2
: 1342      2243 2     RETURN;
: 1343      2244 1     END;

```

0800 0000

.ENTRY BASSOUT\_H\_V\_C, Save R11

; 2194

BASSUPI\_TERM\_IO  
1-007

M 9  
16-Sep-1984 01:18:57 VAX-11 Bliss-32 V4.0-742  
14-Sep-1984 11:56:42 [BASRTL.SRC]BASTERMIO.B32;1

Page 49  
(25)

```
5B 00000000G 00 D0 00002
50 FF71 CB 9A 00009
50 00000000G0040 D0 0000E
      02 DD 00016
      04 AC 9F 00018
      10 DD 0001B
      1C DD 0001D
00000000G0040 04 FB 0001F
      04 00027
```

```
MOVL OTSS$A_CUR_LUB, CCB
MOVZBL -143(CCB), R0
MOVL BASS$AA_UDF_PR1-104[R0], R0
PUSHL #2
PUSHAB ELEM
PUSHL #16
PUSHL #28
CALLS #4, BASS$AA_UDF_PR1[R0]
RET
```

```
: 2231
: 2237
:
:
:
:
: 2244
```

; Routine Size: 40 bytes, Routine Base: \_BAS\$CODE + 0323

```

: 1345      2245 1 GLOBAL ROUTINE BASSOUT_H_V_B (           | print hfloat with blank format
: 1346      2246 1     ELEM                                           | element to print
: 1347      2247 1     ) : NOVALUE =
: 1348      2248 1
: 1349      2249 1 ++
: 1350      2250 1 FUNCTIONAL DESCRIPTION:
: 1351      2251 1
: 1352      2252 1 Print an hfloat number passed by value, with blank format
: 1353      2253 1
: 1354      2254 1 FORMAL PARAMETERS:
: 1355      2255 1
: 1356      2256 1     ELEM.rh.v           hfloat to print
: 1357      2257 1
: 1358      2258 1 IMPLICIT INPUTS:
: 1359      2259 1
: 1360      2260 1     OTSS$A_CUR_LUB     current Logical Unit Block
: 1361      2261 1     ISB$B_STTM_TYPE    statement type of this I/O statement
: 1362      2262 1
: 1363      2263 1 IMPLICIT OUTPUTS:
: 1364      2264 1
: 1365      2265 1     NONE
: 1366      2266 1
: 1367      2267 1 COMPLETION CODES:
: 1368      2268 1
: 1369      2269 1     NONE
: 1370      2270 1
: 1371      2271 1 SIDE EFFECTS:
: 1372      2272 1
: 1373      2273 1     NONE
: 1374      2274 1
: 1375      2275 1 --
: 1376      2276 1
: 1377      2277 2 BEGIN
: 1378      2278 2
: 1379      2279 2 GLOBAL REGISTER
: 1380      2280 2     CCB = K_CCB_REG : REF BLOCK [, BYTE];
: 1381      2281 2
: 1382      2282 2     CCB = .OTSS$A_CUR_LUB;
: 1383      2283 2 ++
: 1384      2284 2 Dispatch to the UDF level. Dispatching is done because this may be a PRINT
: 1385      2285 2 element transmit for prompting or for printing. Therefore, based on the
: 1386      2286 2 statement type, either the INPUT or the PRINT UDF will be called.
: 1387      2287 2 --
: 1388      2288 2     (BAS$$AA_UDF_PR1 + .BAS$$AA_UDF_PR1 [.CCB [ISB$B_STTM_TYPE] - ISB$K_BASSTTYLO + 1]) (DSC$K_DTYPE_H,
: 1389      2289 2         | data type
: 1390      2290 2         K_HFLOAT_LEN,   | length of data type
: 1391      2291 2         ELEM,           | address of value
: 1392      2292 2         BAS$K_NO_FORM    | no format character
: 1393      2293 2     );
: 1394      2294 2 RETURN;
: 1395      2295 1 END;                                     !End of BASSOUT_H_DX_B

```

0800 0000

.ENTRY BASSOUT\_H\_V\_B, Save R11

: 2245

5B 00000000G 00 D0 00002  
50 FF71 CB 9A 00009  
50 00000000G0040 D0 0000E  
04 AC 03 DD 00016  
10 DD 00018  
1C DD 0001D  
04 FB 0001F  
04 00027  
00000000G0040

MOVL OTSS\$A\_CUR\_LUB, CCB  
MOVZBL -143(CCB), R0  
MOVL BASS\$AA\_UDF\_PR1-104[R0], R0  
PUSHL #3  
PUSHAB ELEM  
PUSHL #16  
PUSHL #28  
CALLS #4, BASS\$AA\_UDF\_PR1[R0]  
RET

: 2282  
: 2288  
:  
:  
:  
:  
:  
:  
:  
: 2295

; Routine Size: 40 bytes, Routine Base: \_BASS\$CODE + 034B

```

: 1397      2296 1 GLOBAL ROUTINE BASSOUT_P_DX_S (           | print packed with semi format
: 1398      2297 1     ELEM                                           | element to print
: 1399      2298 1     ) : NOVALUE =
: 1400      2299 1
: 1401      2300 1
: 1402      2301 1 ++
: 1403      2302 1 FUNCTIONAL DESCRIPTION:
: 1404      2303 1 Print a packed decimal value passed by desc, with semi colon format
: 1405      2304 1
: 1406      2305 1 FORMAL PARAMETERS:
: 1407      2306 1
: 1408      2307 1     ELEM.rp.dx           packed to print
: 1409      2308 1
: 1410      2309 1 IMPLICIT INPUTS:
: 1411      2310 1
: 1412      2311 1     OTSS$A_CUR_LUB       current Logical Unit Block
: 1413      2312 1     ISB$B_STM_TYPE    statement type of this I/O statement
: 1414      2313 1
: 1415      2314 1 IMPLICIT OUTPUTS:
: 1416      2315 1
: 1417      2316 1     NONE
: 1418      2317 1
: 1419      2318 1 COMPLETION CODES:
: 1420      2319 1
: 1421      2320 1     NONE
: 1422      2321 1
: 1423      2322 1 SIDE EFFECTS:
: 1424      2323 1
: 1425      2324 1     NONE
: 1426      2325 1
: 1427      2326 1 --
: 1428      2327 1
: 1429      2328 2 BEGIN
: 1430      2329 2
: 1431      2330 2 GLOBAL REGISTER
: 1432      2331 2     CCB = K_CCB_REG : REF BLOCK [, BYTE];
: 1433      2332 2
: 1434      2333 2 MAP
: 1435      2334 2     ELEM : REF BLOCK [8,BYTE];
: 1436      2335 2
: 1437      2336 2     CCB = .OTSS$A_CUR_LUB;
: 1438      2337 2
: 1439      2338 2 +
: 1440      2339 2 Dispatch to the UDF level. Dispatching is done because this may be a PRINT
: 1441      2340 2 element transmit for prompting or for printing. Therefore, based on the
: 1442      2341 2 statement type, either the INPUT or the PRINT UDF will be called.
: 1443      2342 2
: 1444      2343 2     (BASS$AA_UDF_PR1 + .BASS$AA_UDF_PR1 [.CCB [ISB$B_STM_TYPE] - ISB$K_BASSTYLO + 1]) (DSC$K_DTYPE_P,
: 1445      2344 2     .ELEM [DSC$W_LENGTH],           | data type
: 1446      2345 2     .ELEM,                       | length of data type
: 1447      2346 2     BASS$K_SEMI_FORM           | address of value
: 1448      2347 2     );                               | semicolon format character
: 1449      2348 2 RETURN;
: 1450      2349 1 END;

```

!End of BASSOUT\_B\_V\_S

```
0800 00000
5B 00000000G 00 D0 00002
50 FF71 CB 9A 00009
50 00000000G0040 D0 0000E
      04 01 DD 00016
      04 AC DD 00018
7E      04 BC 3C 0001B
      15 DD 0001F
00000000G0040 04 FB 00021
      04 00029
```

```
.ENTRY BASSOUT_P_DX_S, Save R11 : 2296
MOVL OTSSSA_CUR_LOB, CCB : 2336
MOVZBL -143(CCB), R0 : 2342
MOVL BASS$AA_UDF_PRI-104[R0], R0 :
PUSHL #1 :
PUSHL ELEM : 2345
MOVZWL @ELEM, -(SP) : 2344
PUSHL #21 : 2342
CALLS #4, BASS$AA_UDF_PRI[R0] :
RET : 2349
```

; Routine Size: 42 bytes, Routine Base: \_BAS\$CODE + 0373



			0800 00000	.ENTRY	BASSOUT P DX C, Save R11	: 2350
5B	00000000G	00	D0 00002	MOVL	OTSS\$A CUR_LOB, CCB	: 2390
50	FF71	CB	9A 00009	MOVZBL	-143(CCB), R0	: 2396
50	00000000G0040	D0	0000E	MOVL	BASS\$AA_UDF_PR1-104[R0], R0	: .....
		02	DD 00016	PUSHL	#2	: .....
	04	AC	DD 00018	PUSHL	ELEM	: 2399
7E	04	BC	3C 0001B	MOVZWL	@ELEM, -(SP)	: 2398
		15	DD 0001F	PUSHL	#21	: 2396
00000000G0040		04	FB 00021	CALLS	#4, BASS\$AA_UDF_PR1[R0]	: .....
		04	00029	RET		: 2403

: Routine Size: 42 bytes, Routine Base: \_BAS\$CODE + 039D



			0800 00000	.ENTRY	BASSOUT_P DX B, Save R11	:	2404
5B	00000000G	00	DO 00002	MOVL	OTSS\$A_CUR_LOB, CCB	:	2444
50	FF71	CB	9A 00009	MOVZBL	-143(CCB), R0	:	2450
50	00000000G0040	03	DO 0000E	MOVL	BASS\$AA_UDF_PR1-104[R0], R0	:	
		04	DD 00016	PUSHL	#3	:	
		04	AC DD 00018	PUSHL	ELEM	:	2453
7E		04	BC 3C 0001B	MOVZWL	@ELEM, -(SP)	:	2452
		15	DD 0001F	PUSHL	#21	:	2450
	00000000G0040	04	FB 00021	CALLS	#4, BASS\$AA_UDF_PR1[R0]	:	
		04	00029	RET		:	2457

; Routine Size: 42 bytes, Routine Base: \_BAS\$CODE + 03C7

```

: 1562      2458 1 GLOBAL ROUTINE BASSIN_G_R (      | input gfloat by ref
: 1563      2459 1     ELEM      | element to input by reference
: 1564      2460 1     ) : NOVALUE =      |
: 1565      2461 1
: 1566      2462 1 |++
: 1567      2463 1 | FUNCTIONAL DESCRIPTION:
: 1568      2464 1 |
: 1569      2465 1 | Input a gfloat, the destination is passed by reference
: 1570      2466 1 |
: 1571      2467 1 | FORMAL PARAMETERS:
: 1572      2468 1 |
: 1573      2469 1 |     ELEM.rg.r      where to store the gfloat input
: 1574      2470 1 |
: 1575      2471 1 | IMPLICIT INPUTS:
: 1576      2472 1 |
: 1577      2473 1 |     OTSS$A_CUR_LUB      current Logical Unit Block
: 1578      2474 1 |     ISB$B_STTM_TYPE     statement type of this I/O statement
: 1579      2475 1 |
: 1580      2476 1 | IMPLICIT OUTPUTS:
: 1581      2477 1 |
: 1582      2478 1 |     NONE
: 1583      2479 1 |
: 1584      2480 1 | COMPLETION CODES:
: 1585      2481 1 |
: 1586      2482 1 |     NONE
: 1587      2483 1 |
: 1588      2484 1 | SIDE EFFECTS:
: 1589      2485 1 |
: 1590      2486 1 |     NONE
: 1591      2487 1 |
: 1592      2488 1 | --
: 1593      2489 1 |
: 1594      2490 2 | BEGIN
: 1595      2491 2 |
: 1596      2492 2 | GLOBAL REGISTER
: 1597      2493 2 |     CCB = K_CCB_REG : REF BLOCK [, BYTE];
: 1598      2494 2 |
: 1599      2495 2 |     CCB = .OTSS$A_CUR_LUB;
: 1600      2496 2 |     BASS$UDF_RL1 TDSC$K_DTYPE_G,      | data type gfloat
: 1601      2497 2 |     K_GFLOAT_LEN,      | length of data type
: 1602      2498 2 |     .ELEM,      | address of destination
: 1603      2499 2 |     BASS$K_NULL);      | null format character
: 1604      2500 1 | RETURN;
: 1605      2501 1 | END;      |End of BASSIN_G_R

```

```

          SB 00000000G      0800 00000      .ENTRY BASSIN_G_R, Save R11      : 2458
          00 00000000G      00 D0 00002      MOVL OTSS$A_CUR_LUB, CCB      : 2495
          04 00000000G      7E D4 00009      CLRL -(SP)      : 2496
          04 00000000G      AC DD 0000B      PUSHL ELEM      : 2498
          08 00000000G      08 DD 0000E      PUSHL #8      : 2496
          1B 00000000G      1B DD 00010      PUSHL #27      :
          04 00000000G      04 FB 00012      CALLS #4, BASS$UDF_RL1      :
          04 00019      04 00019      RET      : 2501

```

BASSUPI\_TERM\_IO  
1-007

J 10  
16-Sep-1984 01:18:57  
14-Sep-1984 11:56:42

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

Page 59  
(30)

; Routine Size: 26 bytes, Routine Base: \_BASSCODE + 03F1

```

: 1607      2502 1 GLOBAL ROUTINE BASSIN_H_R (          | input hfloat by ref
: 1608      2503 1     ELEM                          | element to input by reference
: 1609      2504 1     ) : NOVALUE =                    |
: 1610      2505 1
: 1611      2506 1     ++
: 1612      2507 1     FUNCTIONAL DESCRIPTION:
: 1613      2508 1
: 1614      2509 1     Input an hfloat, the destination is passed by reference
: 1615      2510 1
: 1616      2511 1     FORMAL PARAMETERS:
: 1617      2512 1
: 1618      2513 1         ELEM.rh.r                    where to store the hfloat input
: 1619      2514 1
: 1620      2515 1     IMPLICIT INPUTS:
: 1621      2516 1
: 1622      2517 1         OTSS$A_CUR_LUB                current Logical Unit Block
: 1623      2518 1         ISB$B_STTM_TYPE                statement type of this I/O statement
: 1624      2519 1
: 1625      2520 1     IMPLICIT OUTPUTS:
: 1626      2521 1
: 1627      2522 1         NONE
: 1628      2523 1
: 1629      2524 1     COMPLETION CODES:
: 1630      2525 1
: 1631      2526 1         NONE
: 1632      2527 1
: 1633      2528 1     SIDE EFFECTS:
: 1634      2529 1
: 1635      2530 1         NONE
: 1636      2531 1
: 1637      2532 1     --
: 1638      2533 1
: 1639      2534 2     BEGIN
: 1640      2535 2
: 1641      2536 2     GLOBAL REGISTER
: 1642      2537 2         CCB = K_CCB_REG : REF BLOCK [, BYTE];
: 1643      2538 2
: 1644      2539 2         CCB = .OTSS$A_CUR_LUB;
: 1645      2540 2         BASS$UDF_RL1 7DSC$K_DTYPE_H,      | data type hfloat
: 1646      2541 2         K_HFLOAT_LEN,                    | length of data type
: 1647      2542 2         .ELEM,                            | address of destination
: 1648      2543 2         BASS$K_NULL);                    | null format character
: 1649      2544 2     RETURN;
: 1650      2545 1     END;                                  !End of BASSIN_H_R

```

```

                                0800 00000          .ENTRY BASSIN_H_R, Save R11
                                5B 00000000G 00 D0 00002          MOVL OTSS$A_CUR_LUB, CCB
                                7E D4 00009          CLRL -(SP)
                                04 AC DD 0000B          PUSHL ELEM
                                10 DD 0000E          PUSHL #16
                                1C DD 00010          PUSHL #28
                                00000000G 00 04 FB 00012          CALLS #4, BASS$UDF_RL1
                                04 00019          RET
: 2502
: 2539
: 2540
: 2542
: 2540
:
: 2545

```

BASSUPI\_TERM\_IO  
1-007

L 10  
16-Sep-1984 01:18:57  
14-Sep-1984 11:56:42

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

Page 6'  
(31)

: Routine Size: 26 bytes,      Routine Base: \_BASSCODE + 040B

: 1651                    2546 1

```

: 1653      2547 1 GLOBAL ROUTINE BASSIN_P_DX (           | input packed decimal by desc.
: 1654      2548 1     ELEM                               | element to input by reference
: 1655      2549 1     ) : NOVALUE =
: 1656      2550 1
: 1657      2551 1 |++
: 1658      2552 1 | FUNCTIONAL DESCRIPTION:
: 1659      2553 1 |
: 1660      2554 1 | Input packed decimal, the destination is passed by descriptor
: 1661      2555 1 |
: 1662      2556 1 | FORMAL PARAMETERS:
: 1663      2557 1 |
: 1664      2558 1 |     ELEM.rp.dx           where to store the packed input
: 1665      2559 1 |
: 1666      2560 1 | IMPLICIT INPUTS:
: 1667      2561 1 |
: 1668      2562 1 |     OTSS$A_CUR_LUB      current Logical Unit Block
: 1669      2563 1 |     ISB$B_STTM_TYPE    statement type of this I/O statement
: 1670      2564 1 |
: 1671      2565 1 | IMPLICIT OUTPUTS:
: 1672      2566 1 |
: 1673      2567 1 |     NONE
: 1674      2568 1 |
: 1675      2569 1 | COMPLETION CODES:
: 1676      2570 1 |
: 1677      2571 1 |     NONE
: 1678      2572 1 |
: 1679      2573 1 | SIDE EFFECTS:
: 1680      2574 1 |
: 1681      2575 1 |     NONE
: 1682      2576 1 |
: 1683      2577 1 | --
: 1684      2578 1 |
: 1685      2579 2 | BEGIN
: 1686      2580 2 |
: 1687      2581 2 | GLOBAL REGISTER
: 1688      2582 2 |     CCB = K_CCB_REG : REF BLOCK [, BYTE];
: 1689      2583 2 |
: 1690      2584 2 | MAP
: 1691      2585 2 |     ELEM : REF BLOCK [8, BYTE];
: 1692      2586 2 |
: 1693      2587 2 |     CCB = .OTSS$A_CUR_LUB;
: 1694      2588 2 |     BASS$UDF_RL1 (DSC$K_DTYPE_P,           | data type
: 1695      2589 2 |     ELEM [DSC$W_LENGTH],                 | string length
: 1696      2590 2 |     .ELEM,                                | address of descriptor
: 1697      2591 2 |     BASS$K_NULL);                         | null format character
: 1698      2592 2 | RETURN;
: 1699      2593 1 | END;                                     !End of BASSIN_P_DX

```

```

                                0800 00000      .ENTRY BASSIN_P_DX, Save R11      : 2547
5B 00000000G 00 D0 00002      MOVL OTSS$A_CUR_LUB, CCB      : 2587
                                7E D4 00009      CLRL -(SP)                    : 2589
                                04 AC DD 0000B     PUSHL ELEM                    : 2590
                                04 AC DD 0000E     PUSHL ELEM                    : 2589

```

BASSUPI\_TERM\_IO  
1-007

N 10  
16-Sep-1984 01:18:57  
14-Sep-1984 11:56:42

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

Page 63  
(32)

00000000G 00

15 DD 00011  
04 FB 00013  
04 0001A

PUSHL #21  
CALLS #4, BASS\$UDF\_RL1  
RET

:  
:  
: 2593

: Routine Size: 27 bytes, Routine Base: \_BASS\$CODE + 0425

: 1700 2594 1  
: 1701 2595 1

BASSUPI\_TERM\_IO  
1-007

B 11  
16-Sep-1984 01:18:57 VAX-11 Bliss-32 V4.0-742  
14-Sep-1984 11:56:42 [BASRTL.SRC]BASTERMIO.B32;1

: 1703 2596 1 END  
: 1704 2597 1  
: 1705 2598 0 ELUDOM

!End of module - BASSUPI\_TERM\_IO

PSECT SUMMARY

Name Bytes Attributes  
:\_BASSCODE 1088 NOVEC,NOWRT, RD , EXE, SHR, LCL, REL, CON, PIC,ALIGN(2)

Library Statistics

File	Total	Symbols Loaded	Percent	Pages Mapped	Processing Time
_\$255\$DUA28:[SYSLIB]STARLET.L32;1	9776	10	0	581	00:01.2

COMMAND QUALIFIERS

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

: Size: 1088 code + 0 data bytes  
: Run Time: 00:27.5  
: Elapsed Time: 01:10.3  
: Lines/CPU Min: 5676  
: Lexemes/CPU-Min: 22450  
: Memory Used: 130 pages  
: Compilation Complete

The image displays a grid of 100 terminal windows, arranged in 10 rows and 10 columns. Each window shows a different terminal session, likely from a VAX/VMS system. The sessions are labeled with various system utilities and data, including:

- BASSTR LIS
- BASSYS LIS
- BASTAB LIS
- BASTERMIO LIS
- BASTRM LIS
- BASUDFR LIS
- BASUDFW LIS
- BASUDFRM LIS

Each window contains a mix of text, numbers, and graphical elements like bar charts and histograms, representing the output of these utilities. The text is in a monospaced font, typical of early computer terminals.