





```

1 0001 0 MODULE BAS$FREE ( ! Basic FREE construct
2 0002 0 IDENT = '1-003' ! File: BASFREE.B32
3 0003 0 ) =
4 0004 1 BEGIN
5 0005 1
6 0006 1 *****
7 0007 1 *
8 0008 1 * COPYRIGHT (c) 1978, 1980, 1982, 1984 BY *
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25 0025 1 *
26 0026 1 *
27 0027 1 *****
28 0028 1
29 0029 1
30 0030 1 **
31 0031 1 FACILITY:
32 0032 1 Basic support library - user callable
33 0033 1
34 0034 1 ABSTRACT:
35 0035 1 This module is the UPI level of the Basic FREE construct.
36 0036 1 This module will setup the I/O data base for the LUN and go directly to
37 0037 1 the REC level.
38 0038 1
39 0039 1
40 0040 1 ENVIRONMENT:
41 0041 1 User access mode - AST reentrant.
42 0042 1
43 0043 1 AUTHOR: Donald G. Petersen, CREATION DATE: 28-Feb-79
44 0044 1
45 0045 1 MODIFIED BY:
46 0046 1
47 0047 1 DGP, 28-Feb-79 : VERSION 01
48 0048 1 1-001 - original. DGP 28-Feb-79
49 0049 1 1-002 - Change the name of the REC level to FEE due to conflict with
50 0050 1 FIND relative. DGP 02-Mar-79
51 0051 1 1-003 - Set up ISB$A_USER_FP. JBS 25-JUL-1979
52 0052 1 --
53 0053 1
54 0054 1 !<BLF/PAGE>

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56      0055 1 |
57      0056 1 | SWITCHES:
58      0057 1 |
59      0058 1 |
60      0059 1 | SWITCHES ADDRESSING_MODE (EXTERNAL = GENERAL, NONEXTERNAL = WORD_RELATIVE);
61      0060 1 |
62      0061 1 |
63      0062 1 | LINKAGES
64      0063 1 |
65      0064 1 |
66      0065 1 | REQUIRE 'RTLIN:OTSLNK';           ! Define all linkages
67      0494 1 |
68      0495 1 |
69      0496 1 | TABLE OF CONTENTS:
70      0497 1 |
71      0498 1 |
72      0499 1 | FORWARD ROUTINE
73      0500 1 |     BAS$FREE : NOVALUE;           ! UPI level Sequential FREE
74      0501 1 |
75      0502 1 |
76      0503 1 | INCLUDE FILES:
77      0504 1 |
78      0505 1 |
79      0506 1 | REQUIRE 'RTLML:OTISISB';         ! ISB definitions
80      0674 1 |
81      0675 1 | REQUIRE 'RTLML:OTSLUB';         ! LUB definitions
82      0815 1 |
83      0816 1 | REQUIRE 'RTLIN:RTLPSECT';       ! Define DECLARE_PSECTS macro
84      0911 1 |
85      0912 1 | LIBRARY 'RTLSTARLE';           ! Starlet system macros
86      0913 1 |
87      0914 1 |
88      0915 1 | MACROS:
89      0916 1 |
90      0917 1 |     NONE
91      0918 1 |
92      0919 1 | EQUATED SYMBOLS:
93      0920 1 |
94      0921 1 |     NONE
95      0922 1 |
96      0923 1 |
97      0924 1 | PSECT DECLARATIONS:
98      0925 1 |
99      0926 1 | DECLARE_PSECTS (BAS);
100     0927 1 |
101     0928 1 | OWN STORAGE:
102     0929 1 |
103     0930 1 |     NONE
104     0931 1 |
105     0932 1 | EXTERNAL REFERENCES:
106     0933 1 |
107     0934 1 |
108     0935 1 | EXTERNAL ROUTINE
109     0936 1 |     BAS$$STOP_IO : NOVALUE,       ! Signal fatal BASIC I/O error
110     0937 1 |     BAS$$REC_FEE : JSB_REC0 NOVALUE, ! REC level processing - RMS interface
111     0938 1 |     FREE
112     0939 1 |     BAS$$CB_PUSH : JSB_CB_PUSH NOVALUE, ! Load register CCB

```

BAS\$FREE  
1-003

E 13  
16-Sep-1984 00:32:58 VAX-11 Bliss-32 V4.0-742  
14-Sep-1984 11:55:00 [BASRTL.SRC]BASFREE.B32;1

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: 113      0940 1      BAS$$CB_POP : JSB_CB_POP NOVALUE;          ! Done with register CCB
: 114      0941 1
: 115      0942 1 !+
: 116      0943 1 !- The following are the error codes used in this module.
: 117      0944 1 !-
: 118      0945 1
: 119      0946 1 EXTERNAL LITERAL
: 120      0947 1      BAS$K_IO_CHANOT : UNSIGNED (8);          ! I/O channel not open
: 121      0948 1
```

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123 0949 1 GLOBAL ROUTINE BASSFREE (          ! FREE sequential
124 0950 1     UNIT                          ! logical unit number
125 0951 1     ) : NOVALUE =
126 0952 1
127 0953 1  !++
128 0954 1  ! FUNCTIONAL DESCRIPTION:
129 0955 1
130 0956 1     This routine will set up the I/O data base for this LUN if necessary
131 0957 1     and then go directly to the REC level.  When control is returned to
132 0958 1     this routine, it pops the CCB off of the I/O system.  The actual inter-
133 0959 1     face to RMS is done at the REC level.  All locked records are unlocked.
134 0960 1
135 0961 1  ! FORMAL PARAMETERS:
136 0962 1
137 0963 1     UNIT.rlu.v      logical unit number
138 0964 1
139 0965 1  ! IMPLICIT INPUTS:
140 0966 1
141 0967 1     NONE
142 0968 1
143 0969 1  ! IMPLICIT OUTPUTS:
144 0970 1
145 0971 1     ISBSB_STTM_TYPE      the statement type
146 0972 1
147 0973 1  ! COMPLETION CODES:
148 0974 1
149 0975 1     NONE
150 0976 1
151 0977 1  ! SIDE EFFECTS:
152 0978 1
153 0979 1     NONE
154 0980 1
155 0981 1  ! --
156 0982 1
157 0983 2     BEGIN
158 0984 2
159 0985 2     BUILTIN
160 0986 2     FP;
161 0987 2
162 0988 2     GLOBAL REGISTER
163 0989 2     CCB = K_CCB_REG : REF BLOCK [, BYTE];
164 0990 2
165 0991 2     LOCAL
166 0992 2     FMP : REF BLOCK [, BYTE];
167 0993 2
168 0994 2     FMP = .FP;
169 0995 2  !+
170 0996 2  ! Allocate the LUB/ISB/RAB for this unit if necessary.  Store new CB (con-
171 0997 2  ! trol block) in OTS$$A_CUR_LUB.  Store signed unit number in LUB$W_LUN.
172 0998 2  ! -
173 0999 2     BASS$CB_PUSH (.UNIT, LUB$K_ILUN MIN);
174 1000 2     CCB [ISB$A_USER_FP] = .FMP-[SF$_SAVE_FP];
175 1001 2  !+
176 1002 2  ! If the channel is not open, give an error message.
177 1003 2  ! FREE is not permitted on channel 0.
178 1004 2  ! -
179 1005 2

```

```

: 180      1006 2      IF ( NOT .CCB [LUB$V_OPENED]) THEN BASS$STOP_IO (BASS$K_IO_CHANOT);
: 181      1007 2
: 182      1008 2
: 183      1009 2      +
: 184      1010 2      Now that the data base is in place, store the statement type and go
: 185      1011 2      directly to the REC level.
: 186      1012 2      -
: 187      1013 2      CCB [ISB$B_STM_TYPE] = ISB$K_ST_TY_FEE;
: 188      1014 2      BASS$REC_FEE ();
: 189      1015 2      +
: 190      1016 2      Now that the FREE has been done, pop the CCB off the I/O system.
: 191      1017 2      -
: 192      1018 1      BASS$CB_POP ();
:          END;

```

!End of BASSFREE

```

.TITLE BASSFREE
.IDENT \1-003\

.EXTRN BASS$STOP_IO, BASS$REC_FEE
.EXTRN BASS$CB_PUSH, BASS$CB_POP
.EXTRN BASS$K_IO_CHANOT

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

.ENTRY BASSFREE, Save R2,R3,R4,R5,R11
MOV#L  FP, FMP
MNEGL  #8, R0
MOV#L  UNIT, R2
JSB    BASS$CB_PUSH
MOV#L  12(FMP), -180(CCB)
BLBS   -4(CCB), 1$
MOV#ZBL #BASS$K_IO_CHANOT, -(SP)
CALLS  #1, BASS$STOP_IO
MOV#B  #43, -143(CCB)
JSB    BASS$REC_FEE
JSB    BASS$CB_POP
RET

```

```

083C 00000
53    5D  D0 00002
50    0B  CE 00005
52    04  AC  D0 00008
      00  16 0000C
rF4C CB  0C  A3  D0 00012
      0B  FC  AB  E8 00018
      7E  00G 8F  9A 0001C
00000000G 00 01  FB 00020
      FF71 CB  2B  90 00027 1$:
      00  16 0002C
      00  16 00032
      04 00038

```

```

: 0949
: 0994
: 0999
: 1000
: 1006
: 1012
: 1013
: 1017
: 1018

```

: Routine Size: 57 bytes, Routine Base: \_BAS\$CODE + 0000

```

: 193      1019 1
: 194      1020 1 END
: 195      1021 1
: 196      1022 0 ELUDOM

```

! End of module BASSFREE

PSECT SUMMARY

Name	Bytes	Attributes
_BAS\$CODE	57	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	1	0	581	00:01.1

COMMAND QUALIFIERS

:  
: BLISS/CHECK=(FIELD,INITIAL,OPTIMIZE)/NOTRACE/LIS=LIS\$:BASFREE/OBJ=OBJ\$:BASFREE MSRC\$:BASFREE/UPDATE=(ENH\$:BASFREE)  
: Size: 57 code + 0 data bytes  
: Run Time: 00:08.2  
: Elapsed Time: 00:17.0  
: Lines/CPU Min: 7514  
: Lexemes/CPU-Min: 44683  
: Memory Used: 108 pages  
: Compilation Complete



