


```

1 0001 0 MODULE BASSFREE ( ! 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  | SWITCHES:
: 57      0056 1  |
: 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  |     BASSFREE : 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

```

BASFREE
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         ISB$B_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

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: 180      1006 2      IF ( NOT .CCB [LUB$V_OPENED]) THEN BASS$STOP_IO (BASSK_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$B_STTM_TYPE] = ISB$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 BASSK_IO_CHANOT

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

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

```

```

083C 00000
53    5D  D0 00002
50    08  CE 00005
52    04  AC  D0 00008
      00  16 0000C
FF4C  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: _BASS\$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
_BASS\$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

