


```

CCCCCCCC  AAAAAA  LL      LL      FFFFFFFF  IIIIII  000000
CCCCCCCC  AAAAAA  LL      LL      FFFFFFFF  IIIIII  000000
CC        AA      AA  LL      LL      FF        II      00      00
CC        AA      AA  LL      LL      FF        II      00      00
CC        AA      AA  LL      LL      FF        II      00      00
CC        AA      AA  LL      LL      FF        II      00      00
CC        AA      AA  LL      LL      FFFFFFFF  II      00      00
CC        AA      AA  LL      LL      FFFFFFFF  II      00      00
CC        AAAAAAAAAA LL      LL      FF        II      00      00
CC        AAAAAAAAAA LL      LL      FF        II      00      00
CC        AA      AA  LL      LL      FF        II      00      00
CC        AA      AA  LL      LL      FF        II      00      00
CCCCCCCC  AA      AA  LLLLLLLLLL LLLLLLLLLL FF        FF        00      00
CCCCCCCC  AA      AA  LLLLLLLLLL LLLLLLLLLL FF        FF        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
LLLLLLLLLL IIIIII  SSSSSSSS
LLLLLLLLLL IIIIII  SSSSSSSS

```

```

1 0001 0 XTITLE 'EDT$CALLFIO - calls fileio routine'
2 0002 0 MODULE EDT$CALLFIO ( ! Calls file I/O routine for EDT
3 0003 0 IDENT = 'V04-000' ! File: CALLFIO.BLI Edit: JBS1008
4 0004 0 ) =
5 0005 1 BEGIN
6 0006 1
7 0007 1 *****
8 0008 1 *
9 0009 1 * COPYRIGHT (c) 1978, 1980, 1982, 1984 BY *
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26 0026 1 *
27 0027 1 *
28 0028 1 *****
29 0029 1
30 0030 1
31 0031 1 ++
32 0032 1 FACILITY: EDT -- The DEC Standard Editor
33 0033 1
34 0034 1 ABSTRACT:
35 0035 1
36 0036 1 This routine calls the basic file i/o routine used by EDT.
37 0037 1
38 0038 1 ENVIRONMENT: Runs on Vax/Vms
39 0039 1
40 0040 1 AUTHOR: Shelly T. Solomon, CREATION DATE: 03-Jan-1982
41 0041 1
42 0042 1 MODIFIED BY:
43 0043 1
44 0044 1 1-001 - Original. STS 03-Jan-1982
45 0045 1 1-002 - Add fcode to the enabled parameters. STS 25-Feb-1982
46 0046 1 1-003 - Signal if bad status returned on VMS. STS 09-Mar-1982
47 0047 1 1-003 - Deallocate everything you can if unwinding. STS 09-Mar-1982
48 0048 1 1-004 - Clear EDT$SG_IOFI_NFND before calling file I/O. JBS 26-Mar-1982
49 0049 1 1-006 - Take out reference to edt$$a file rout on 11's. STS 02-Jun-1982
50 0050 1 1-007 - Don't try to deallocate strings which may not be there. JBS 22-Feb-1983
51 0051 1 1-008 - Improve the appearance of the listing. JBS 13-Jun-1983
52 0052 1 --
53 0053 1

```

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: 55 0054 1 %SBTTL 'Declarations'
: 56 0055 1
: 57 0056 1 : TABLE OF CONTENTS:
: 58 0057 1 :
: 59 0058 1
: 60 0059 1 REQUIRE 'EDT$SRC:TRAROUNAM';
: 61 0498 1
: 62 0499 1 FORWARD ROUTINE
: 63 0500 1     EDT$CALLFIO;
: 64 0501 1
: 65 0502 1 :
: 66 0503 1 : LINKAGES
: 67 0504 1 :
: 68 0505 1
: 69 0506 1 LINKAGE
: 70 0507 1     IOCALL = CALL (REGISTER = 1);           ! special linkage for file routine
: 71 0508 1
: 72 0509 1 :
: 73 0510 1 : INCLUDE FILES:
: 74 0511 1 :
: 75 0512 1
: 76 0513 1 REQUIRE 'EDT$SRC:EDTREQ';
: 77 0648 1
: 78 L 0649 1 %IF %BLISS (BLISS32)
: 79 0650 1 %THEN
: 80 0651 1
: 81 0652 1 REQUIRE 'EDT$SRC:SYSSYM';
: 82 0682 1
: 83 0683 1 %FI
: 84 0684 1
: 85 0685 1 :
: 86 0686 1 : MACROS:
: 87 0687 1 :
: 88 0688 1 :     NONE
: 89 0689 1 :
: 90 0690 1 : EQUATED SYMBOLS:
: 91 0691 1 :
: 92 0692 1
: 93 0693 1 EXTERNAL LITERAL
: 94 0694 1     EDT$K_GET;
: 95 0695 1
: 96 0696 1 :
: 97 0697 1 : OWN STORAGE:
: 98 0698 1 :
: 99 0699 1 :     NONE
100 0700 1 :
101 0701 1 : EXTERNAL REFERENCES:
102 0702 1 :
103 0703 1 : in the routine
104 0704 1 :

```

6

```

106 0705 1 %SBTTL 'EDT$CALLFIO - Calls EDT file routine'
107 0706 1
108 0707 1 GLOBAL ROUTINE EDT$CALLFIO (
109 0708 1     FILECODE,           ! Calls EDT file routine
110 0709 1     FILESTRM,       ! Function code
111 0710 1     FILE_REC,       ! Stream identification
112 0711 1     FILE_RHB,       ! File name or record descriptor
113 0712 1     ) : =           ! Default name or record header descriptor
114 0713 1
115 0714 1 !++
116 0715 1 !FUNCTIONAL DESCRIPTION:
117 0716 1
118 0717 1 !This routine sets up a condition handler and then calls the designated
119 0718 1 !file I/O routine.
120 0719 1
121 0720 1 !FORMAL PARAMETERS:
122 0721 1
123 0722 1 !filecode = function code defining type of I/O operation to be performed
124 0723 1 !filestream = stream identifier
125 0724 1 !file_rec = address of string descriptor, i.e. the file name or place to store
126 0725 1 !record read or place to fetch record to be written
127 0726 1 !file_rhb = address of string descriptor for any record prefixes
128 0727 1
129 0728 1 !IMPLICIT INPUTS:
130 0729 1
131 0730 1     NONE
132 0731 1
133 0732 1 !IMPLICIT OUTPUTS:
134 0733 1
135 0734 1     EDT$$G_IOFI_NFND      1 = file not found on open
136 0735 1
137 0736 1 !COMPLETION STATUS:
138 0737 1
139 0738 1     Same as the file I/O routine
140 0739 1
141 0740 1 !SIDE EFFECTS:
142 0741 1
143 0742 1     NONE
144 0743 1
145 0744 1 !--
146 0745 1
147 0746 2     BEGIN
148 0747 2
149 L 0748 2 %IF %BLISS (BLISS32)
150 0749 2 %THEN
151 0750 2
152 0751 2     EXTERNAL ROUTINE
153 0752 2     STR$FREE1 DX,
154 0753 2     EDT$$SC RESET,
155 0754 2     EDT$$DEX ALLHEAP,
156 0755 2     EDT$$FIOANDLR;
157 0756 2
158 0757 2     EXTERNAL
159 0758 2     EDT$$A_FILE_ROUT,      ! address of routine for file I/O
160 0759 2     EDT$$G_FILE_ENV,      ! file routine environment word
161 0760 2     EDT$$G_EDIT_MOD;
162 0761 2

```

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: 163 U 0762 2 %ELSE
: 164 U 0763 2
: 165 U 0764 2 EXTERNAL ROUTINE
: 166 U 0765 2 EDT$FILEIO;
: 167 U 0766 2
: 168 0767 2 %FI
: 169 0768 2
: 170 0769 2 EXTERNAL
: 171 0770 2 EDT$$G_IOFI_NFND; ! 1 = file not found (set by handler)
: 172 0771 2
: 173 0772 2 MESSAGES ((PASSTATUS));
: 174 0773 2
: 175 0774 2 LOCAL
: 176 0775 2 STATUS;
: 177 0776 2
: 178 L 0777 2 %IF %BLISS (BLISS32)
: 179 0778 2 %THEN
: 180 0779 2
: 181 0780 2 LOCAL
: 182 0781 2 FCODE : VOLATILE,
: 183 0782 2 STREAM : VOLATILE;
: 184 0783 2
: 185 0784 2 ENABLE
: 186 0785 2 EDT$$FIOHDLR (STREAM, FCODE); ! on VAX enable a handler for error processing
: 187 0786 2
: 188 0787 2 STREAM = .FILESTRM;
: 189 0788 2 FCODE = .FILECODE;
: 190 0789 2 %FI
: 191 0790 2
: 192 0791 2 EDT$$G_IOFI_NFND = 0;
: 193 0792 2
: 194 0793 2 !+
: 195 0794 2 ! The following call is a general routine call using the linkage defined
: 196 0795 2 ! as iocall. i.e. what is happening is that a call is being made to the
: 197 0796 2 ! routine whose address is contained in the variable EDT$$A_FILE_ROUT.
: 198 0797 2 ! The contents of the variable EDT$$G_FILE_ENV is first put into register 1
: 199 0798 2 ! for the call. (This is done because of the requirements of callable EDT
: 200 0799 2 ! where the user can specify his own file routine and some high-level
: 201 0800 2 ! languages require an environment word to be passed in register 0.)
: 202 0801 2 ! The remaining four parameters in the list are the actual parameters
: 203 0802 2 ! passed to the file I/O routine.
: 204 0803 2 !-
: 205 L 0804 2 %IF %BLISS (BLISS32)
: 206 0805 2 %THEN
: 207 0806 2 STATUS = IOCALL (.EDT$$A_FILE_ROUT, .EDT$$G_FILE_ENV, %REF (.FILECODE), %REF (.FILESTRM), .FILE_REC,
: 208 0807 2 .FILE_RHB);
: 209 U 0808 2 %ELSE
: 210 U 0809 2 STATUS = EDT$FILEIO (%REF (.FILECODE), %REF (.FILESTRM), .FILE_REC, .FILE_RHB);
: 211 0810 2 %FI
: 212 0811 2
: 213 L 0812 2 %IF %BLISS (BLISS32)
: 214 0813 2 %THEN ! on VMS signal any bad status returned
: 215 0814 2
: 216 0815 2 IF ( NOT .STATUS)
: 217 0816 2 THEN
: 218 0817 2
: 219 0818 2 IF ((.STATUS NEQ RMSS_EOF) OR (.FILECODE NEQ EDT$K_GET))

```

```

: 220 0819 2 THEN
: 221 0820 2 BEGIN
: 222 0821 2
: 223 0822 2 Deallocate as much as you can - this is going to be an
: 224 0823 2 exit from EDT.
: 225 0824 2
: 226 0825 2
: 227 0826 2 IF (.EDT$$G_EDIT_MOD EQL CHANGE_MODE) THEN EDT$$$SC_RESET ();
: 228 0827 2
: 229 0828 2 EDT$$DEA_ALLHEAP ();
: 230 0829 2 SIGNAL_STOP (EDT$_PASSTATUS, 0, .STATUS, 0);
: 231 0830 2 END;
: 232 0831 2
: 233 0832 2 XFI
: 234 0833 2
: 235 0834 2 RETURN (.STATUS);
: 236 0835 2 END;

```

! End of routine CALLFIO

```

.TITLE EDT$CALLFIO EDT$CALLFIO - calls fileio routine
.IDENT \V04-000\

```

```

.EXTRN EDT$K_GET, STR$FREE1 DX
.EXTRN EDT$$$SC_RESET, EDT$$DEA_ALLHEAP
.EXTRN EDT$$FIOHNDLR, EDT$$A_FILE_ROUT
.EXTRN EDT$$G_FILE_ENV
.EXTRN EDT$$G_EDIT_MOD
.EXTRN EDT$$G_IOFI_NFND
.EXTRN EDT$_PASSTATUS

```

```

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

```

				0004 0000	.ENTRY EDT\$CALLFIO, Save R2	: 0707
	5E		10	C2 00002	SUBL2 #16, SP	
		08	AE	7C 00005	CLRQ STREAM	: 0746
	6D	007C	CF	DE 00008	MOVAL 4\$, (FP)	
08	AE	08	AC	D0 0000D	MOVL FILESTRM, STREAM	: 0787
0C	AE	04	AC	D0 00012	MOVL FILECODE, FCODE	: 0788
		00000000G	00	D4 00017	CLRL EDT\$\$G_IOFI_NFND	: 0791
	50	00000000G	00	D0 0001D	MOVL EDT\$\$A_FILE_ROUT, R0	: 0806
	7E	0C	AC	7D 00024	MOVQ FILE_REC, -TSP)	
0C	AE	08	AC	D0 00028	MOVL FILESTRM, 12(SP)	
		0C	AE	9F 0002D	PUSHAB 12(SP)	
0C	AE	04	AC	D0 00030	MOVL FILECODE, 12(SP)	
		0C	AE	9F 00035	PUSHAB 12(SP)	
	51	00000000G	00	D0 00038	MOVL EDT\$\$G_FILE_ENV, R1	
	60		04	FB 0003F	CALLS #4, (R0)	
	52		50	D0 00042	MOVL R0, STATUS	
	3C		52	E8 00045	BLBS STATUS, 3\$: 0815
0001827A	8F		52	D1 00048	CMPD STATUS, #98938	: 0818
			0A	12 0004F	BNEQ 1\$	
00000000G	8F	04	AC	D1 00051	CMPD FILECODE, #EDT\$K_GET	
			29	13 00059	BEQL 3\$	
		000U0000G	00	D5 0005B 1\$:	TSTL EDT\$\$G_EDIT_MOD	: 0826
			07	12 00061	BNEQ 2\$	
00000000G	00		00	FB 00063	CALLS #0, EDT\$\$\$SC_RESET	: 0828
00000000G	00		00	FB 0006A 2\$:	CALLS #0, EDT\$\$DEA_ALLHEAP	

EDT\$CALLFIO
V04-000

EDT\$CALLFIO - calls fileio routine
EDT\$CALLFIO - Calls EDT file routine

8
15-Sep-1984 23:42:58
14-Sep-1984 12:22:17

VAX-11 Bliss-32 V4.0-742
DISK\$VMMASTER:[EDT.SRC]CALLFIO.BLI;1

Page 6
(3)

ED
VO

			7E	D4	00071		CLRL	-(SP)	:	0829
			52	DD	00073		PUSHL	STATUS	:	
			7E	D4	00075		CLRL	-(SP)	:	
00000000G	00	00000000G	8F	DD	00077		PUSHL	#EDT\$ PASSTATUS	:	
	50		04	FB	0007D		CALLS	#4, LIB\$STOP	:	
			52	DO	00084	3\$:	MOVL	STATUS, R0	:	0834
				04	00087		RET		:	0835
				0000	00088	4\$:	.WORD	Save nothing	:	0746
	50	08	AC	DO	0008A		MOVL	8(AP), R0	:	
	50	04	A0	DO	0008E		MOVL	4(R0), R0	:	
		FC	A0	9F	00092		PUSHAB	FCODE	:	
		F8	A0	9F	00095		PUSHAB	STREAM	:	
			02	DD	00098		PUSHL	#2	:	
			5E	DD	0009A		PUSHL	SP	:	
	7E	04	AC	7D	0009C		MOVQ	4(AP), -(SP)	:	
00000000G	00		03	FB	000A0		CALLS	#3, EDT\$\$FIOHDLR	:	
				04	000A7		RET		:	

; Routine Size: 168 bytes, Routine Base: _EDT\$CODE + 0000

: 237 0836 1
: 238 0837 1 !<BLF/PAGE>

EDT\$CALLFIO
V04-000

EDT\$CALLFIO - calls fileio routine
EDT\$CALLFIO - calls EDT file routine

D 8
15-Sep-1984 23:42:58
14-Sep-1984 12:22:17

VAX-11 Bliss-32 V4.0-742
DISK\$VMSMASTER:[EDT.SRC]CALLFIO.BLI;1
Page 7
(4)

ED
VO

: 240 0838 1 END
: 241 0839 1
: 242 0840 0 ELUDOM

! End of module CALLFIO

.EXTRN LIB\$STOP

PSECT SUMMARY

Name	Bytes	Attributes
_EDT\$CODE	168	NOVEC,NOWRT, RD, EXE, SHR, LCL, REL, CON, PIC,ALIGN(2)

Library Statistics

file	----- Total	Symbols Loaded	----- Percent	Pages Mapped	Processing Time
-\$255\$DUA28:[EDT.SRC]EDT.L32;1	377	2	0	40	00:00.2
-\$255\$DUA28:[EDT.SRC]PSECTS.L32;1	2	1	50	7	00:00.1
-\$255\$DUA28:[SYSLIB]STARLET.L32;1	9776	1	0	581	00:04.1

COMMAND QUALIFIERS

BLISS/CHECK=(FIELD,INITIAL,OPTIMIZE)/NOTRACEBACK/LIS=LISS:CALLFIO/OBJ=OBJ\$:CALLFIO MSRC\$:CALLFIO.BLI/UPDATE=(ENHS:CALLFIO)

: Size: 168 code + 0 data bytes
: Run Time: 00:18.2
: Elapsed Time: 00:28.5
: Lines/CPU Min: 2763
: Lexemes/CPU-Min: 7394
: Memory Used: 90 pages
: Compilation Complete

