



```

WW      WW      000000      RRRRRRRR      KK      KK      IIIIII      000000
WW      WW      000000      RRRRRRRR      KK      KK      IIIIII      000000
WW      WW      00      00      RR      RR      KK      KK      II      00      00
WW      WW      00      00      RR      RR      KK      KK      II      00      00
WW      WW      00      00      RR      RR      KK      KK      II      00      00
WW      WW      00      00      RR      RR      KK      KK      II      00      00
WW      WW      00      00      RRRRRRRR      KKKKKK      II      00      00
WW      WW      00      00      RRRRRRRR      KKKKKK      II      00      00
WW      WW      00      00      RR      RR      KK      KK      II      00      00
WW      WW      00      00      RR      RR      KK      KK      II      00      00
WWW      WWW      00      00      RR      RR      KK      KK      II      00      00
WWW      WWW      00      00      RR      RR      KK      KK      II      00      00
WW      WW      000000      RR      RR      KK      KK      IIIIII      000000
WW      WW      000000      RR      RR      KK      KK      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
LLLLLLLLLLLL      IIIIII      SSSSSSSS
LLLLLLLLLLLL      IIIIII      SSSSSSSS

```

....  
....  
....

```

1 0001 0 %TITLE 'WORKIO - module for all i/o to workfile'
2 0002 0 MODULE EDT$WORKIO ( ! Basic work i/o routine for EDT
3 0003 0 IDENT = 'V04-000' ; ! File: WORKIO.BLI Edit: JBS1009
4 0004 0
5 0005 1 BEGIN
6 0006 1
7 0007 1 *****
8 0008 1 *
9 0009 1 * COPYRIGHT (c) 1978, 1980, 1982, 1984 BY *
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11 0011 1 * ALL RIGHTS RESERVED. *
12 0012 1 *
13 0013 1 * THIS SOFTWARE IS FURNISHED UNDER A LICENSE AND MAY BE USED AND COPIED *
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15 0015 1 * INCLUSION OF THE ABOVE COPYRIGHT NOTICE. THIS SOFTWARE OR ANY OTHER *
16 0016 1 * COPIES THEREOF MAY NOT BE PROVIDED OR OTHERWISE MADE AVAILABLE TO ANY *
17 0017 1 * OTHER PERSON. NO TITLE TO AND OWNERSHIP OF THE SOFTWARE IS HEREBY *
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20 0020 1 * THE INFORMATION IN THIS SOFTWARE IS SUBJECT TO CHANGE WITHOUT NOTICE *
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24 0024 1 * DIGITAL ASSUMES NO RESPONSIBILITY FOR THE USE OR RELIABILITY OF ITS *
25 0025 1 * SOFTWARE ON EQUIPMENT WHICH IS NOT SUPPLIED BY DIGITAL. *
26 0026 1 *
27 0027 1 *
28 0028 1 *****
29 0029 1
30 0030 1
31 0031 1 ++
32 0032 1 FACILITY: EDT -- The DEC Standard Editor
33 0033 1
34 0034 1 ABSTRACT:
35 0035 1
36 0036 1 This is the basic file i/o routine used by EDT.
37 0037 1
38 0038 1 ENVIRONMENT: Runs on Vax/Vms
39 0039 1
40 0040 1 AUTHOR: Shelly T. Solomon, CREATION DATE: 29-JAN-1982
41 0041 1
42 0042 1 MODIFIED BY:
43 0043 1
44 0044 1 1-001 - Original. STS 29-Jan-1982
45 0045 1 1-002 - Change parameter passed to edt$wf rd on 11's STS 16-Feb-1982
46 0046 1 1-003 - Pass address of record desc to edt$wf rd. STS 26-Feb-1982
47 0047 1 1-004 - Add literals for callable EDT. STS 08-Mar-1982
48 0048 1 1-005 - Return correct status to caller. STS 10-Mar-1982
49 0049 1 1-006 - Fix module name and standardize appearance. JBS 07-Apr-1982
50 0050 1 1-007 - Return status from closing work file. JBS 12-Apr-1982
51 0051 1 1-008 - Don't use special linkage on 11's. STS 03-Jun-1982
52 0052 1 1-009 - Don't need special linkage on VAX-11 either. JBS 22-Mar-1983
53 0053 1
54 0054 1

```

```
56 0055 1 %SBTTL 'Declarations'  
57 0056 1  
58 0057 1 : TABLE OF CONTENTS:  
59 0058 1 :  
60 0059 1  
61 0060 1 REQUIRE 'EDT$SRC:TRAROUNAM';  
62 0499 1  
63 0500 1 FORWARD ROUTINE  
64 0501 1 EDT$WORKIO;  
65 C 02 1  
66 0503 1  
67 0504 1 : INCLUDE FILES:  
68 0505 1 :  
69 0506 1  
70 0507 1 REQUIRE 'EDT$SRC:EDTREQ';  
71 0642 1  
72 L 0643 1 %IF %BLISS (BLISS32)  
73 0644 1 %THEN  
74 0645 1  
75 0646 1 REQUIRE 'EDT$SRC:SYSSYM';  
76 0676 1  
77 0677 1 %FI  
78 0678 1  
79 0679 1  
80 0680 1 : MACROS:  
81 0681 1  
82 0682 1 : NONE  
83 0683 1 :  
84 0684 1 : EQUATED SYMBOLS:  
85 0685 1 :  
86 0686 1  
87 L 0687 1 %IF %BLISS (BLISS32)  
88 0688 1 %THEN  
89 0689 1  
90 0690 1 LITERAL  
91 0691 1 EDT$K_FAC_NO = 133;  
92 0692 1  
93 0693 1 %FI  
94 0694 1  
95 0695 1 LITERAL  
96 0696 1 EDT$K_OPEN_IN_OUT = '  
97 0697 1 EDT$K_GET = 5;  
98 0698 1 EDT$K_PUT = 6;  
99 0699 1 EDT$K_CLOSE_DEL = 7;  
100 0700 1  
101 0701 1 :  
102 0702 1 :  
103 0703 1 : FIELDS:  
104 0704 1 :  
105 0705 1 : NONE  
106 0706 1 :  
107 0707 1 : PSECTS:  
108 0708 1 :  
109 0709 1 : none  
110 0710 1 :  
111 0711 1 : OWN STORAGE:  
112 0712 1 :
```

EDT\$WORKIO  
V04-000

WORKIO - module for all i/o to workfile  
Declarations

H 2  
16-Sep-1984 02:17:46  
14-Sep-1984 12:25:50

VAX-11 Bliss-32 V4.0-742  
DISK\$VMSMASTER:[EDT.SRC]WORKIO.BLI;1 Page 3 (2)

```
.. 113      0713 1 | in the routine
.. 114      0714 1 |
.. 115      0715 1 | EXTERNAL REFERENCES:
.. 116      0716 1 |
.. 117      0717 1 | in the routine
.. 118      0718 1 |
```

EDT\$  
V04-

.....

```

: 120 0719 1 %SBTTL 'EDT$WORKIO - Basic EDT workfile routine'
: 121 0720 1
: 122 0721 1 GLOBAL ROUTINE EDT$WORKIO (          ! Basic EDT workfile routine
: 123 0722 1     CODE,                          ! Operation to perform
: 124 0723 1     RECORD_NO,                     ! record number to perform it on
: 125 0724 1     RECORD_DESC                   ! Descriptor for the record
: 126 0725 1     ) =
: 127 0726 1
: 128 0727 1 ++
: 129 0728 1 FUNCTIONAL DESCRIPTION:
: 130 0729 1
: 131 0730 1 This is the basic work file i/o routine for EDT. Callable EDT calls this
: 132 0731 1 routine to do any i/o to or from the workfile if this is the routine passed to it by the calling
: 133 0732 1 program. This is the routine passed to callable EDT by the "real" EDT.
: 134 0733 1
: 135 0734 1 CALLING SEQUENCE:
: 136 0735 1
: 137 0736 1     ret_status.wlc.v = EDT$WORKIO (code.rl.r, record_no.rl.r, record_desc.rbu.dx),
: 138 0737 1
: 139 0738 1 FORMAL PARAMETERS:
: 140 0739 1
: 141 0740 1 code = a code specifying what kind of i/o operation on the workfile
: 142 0741 1 is desired
: 143 0742 1
: 144 0743 1 record_no = for gets and puts this is the bucket number
: 145 0744 1
: 146 0745 1 record_desc = for gets and puts a descriptor pointing to the contents
: 147 0746 1 of the bucket
: 148 0747 1
: 149 0748 1 IMPLICIT INPUTS:
: 150 0749 1
: 151 0750 1     NONE
: 152 0751 1
: 153 0752 1 IMPLICIT OUTPUTS:
: 154 0753 1
: 155 0754 1     NONE
: 156 0755 1
: 157 0756 1 COMPLETION STATUS:
: 158 0757 1
: 159 0758 1     Normally $$$_NORMAL
: 160 0759 1
: 161 0760 1 SIDE EFFECTS:
: 162 0761 1
: 163 0762 1     NONE
: 164 0763 1
: 165 0764 1 --
: 166 0765 1
: 167 0766 2 BEGIN
: 168 0767 2
: 169 0768 2 MAP
: 170 0769 2     RECORD_DESC : REF BLOCK [8, BYTE];
: 171 0770 2
: 172 0771 2 EXTERNAL ROUTINE
: 173 0772 2     EDT$$WF_OPN,          ! open the workfile
: 174 0773 2     EDT$$WF_CLS,          ! close the workfile
: 175 0774 2     EDT$$WF_WR,          ! write a record to the work file
: 176 0775 2     EDT$$WF_RD;          ! read a record from the workfile

```

```

177 0776 2
178 0777 22222
179 0778 22222
180 0779 22222
181 0780 22222
182 0781 22222
183 0782 22222
184 0783 22222
185 0784 22222
186 0785 22222
187 0786 22222
188 0787 22222
189 0788 22222
190 0789 22222
191 0790 22222
192 0791 22222
193 0792 22222
194 0793 22222
195 0794 22222
196 0795 22222
197 L 0796 22222
198 0797 22222
199 0798 22222
200 U 0799 22222
201 U 0800 22222
202 0801 22222
203 0802 22222
204 0803 22222
205 0804 22222
206 0805 22222
207 0806 22222
208 0807 22222
209 0808 22222
210 L 0809 22222
211 0810 22222
212 0811 22222
213 U 0812 22222
214 U 0813 22222
215 0814 22222
216 0815 22222
217 0816 22222
218 0817 22222
219 0818 22222
220 0819 22222
221 0820 22222
222 0821 22222
223 0822 22222
224 0823 22222
225 0824 22222
226 0825 22222
227 0826 22222
228 0827 22222
229 0828 22222
230 0829 22222
231 0830 1

```

MESSAGES ((WRKFILOVF, INTERERR, IOERRWRK));  
LOCAL  
STATUS,  
IO\_STS,  
IO\_STV;  
CASE .CODE FROM EDT\$K\_OPEN\_IN\_OUT TO EDT\$K\_CLOSE\_DEL OF  
SET ! over all the code options  
[EDT\$K\_OPEN\_IN\_OUT] : ! open for input and output.  
BEGIN  
STATUS = EDT\$\$WF\_OPN ();  
RETURN (.STATUS);  
END;  
[EDT\$K\_GET] : ! we wish to get a record from a file  
BEGIN  
%IF %BLISS (BLISS32)  
%THEN  
EDT\$\$WF\_RD (.RECORD\_NO, .RECORD\_DESC);  
%ELSE  
EDT\$\$WF\_RD (.RECORD\_NO, RECORD\_DESC [DSC\$A\_POINTER]);  
%FI  
RETURN (1);  
END;  
[EDT\$K\_PUT] : ! we wish to put a record to a file  
BEGIN  
%IF %BLISS (BLISS32)  
%THEN  
EDT\$\$WF\_WR (.RECORD\_NO, .RECORD\_DESC);  
%ELSE  
EDT\$\$WF\_WR (.RECORD\_NO);  
%FI  
RETURN (1);  
END;  
[EDT\$K\_CLOSE\_DEL] :  
BEGIN  
STATUS = EDT\$\$WF\_CLS ();  
RETURN (.STATUS);  
END;  
[INRANGE, OUTRANGE] :  
ASSERT (0);  
TES;  
RETURN (1);  
END; ! End of routine EDT\$WORKIO

:

```

0034          03          04          04
          0027          001A      04 BC 0004 0000
          0011          00002 1$:
                                00007
                                00 FB 0000F
                                2E 11 00016
                                00 FB 00018 2$:
                                21 11 0001F
                                08 AC 7D 00021 3$:
                                02 FB 00025
                                18 11 0002C
                                08 AC 7D 0002E 4$:
                                02 FB 00032
                                0B 11 00039
                                00 FB 0003B 5$:
                                52 50 D0 00042 6$:
                                04 00045
                                50 01 D0 00046 7$:
                                04 00049

```

```

.TITLE EDT$WORKIO WORKIO - module for all i/o to workf
       ile
.IDENT \V04-000\
.EXTRN EDT$$WF_OPN, EDT$$WF_CLS
.EXTRN EDT$$WF_WR, EDT$$WF_RD
.EXTRN EDT$_WRRFILOVF, EDT$ INTERERR
.EXTRN EDT$_IOERRWRK, EDT$$INTER_ERR
.PSECT _EDT$CODE, NOWRT, SHR, PIC, 2
.ENTRY EDT$WORKIO, Save R2
CASEL @CODE, #4, #3
.WORD 2$-1$, -
      3$-1$, -
      4$-1$, -
      5$-1$
CALLS #0, EDT$$INTER_ERR
BRB 7$
CALLS #0, EDT$$WF_OPN
BRB 6$
MOVQ RECORD NO, -(SP)
CALLS #2, EDT$$WF_RD
BRB 7$
MOVQ RECORD NO, -(SP)
CALLS #2, EDT$$WF_WR
BRB 7$
CALLS #0, EDT$$WF_CLS
MOVL R0, STATUS
RET
MOVL #1, R0
RET

```

```

: 0721
: 0784
:
: 0826
: 0784
: 0789
:
: 0798
:
: 0803
: 0811
:
: 0816
: 0821
:
: 0822
: 0829
: 0830

```

: Routine Size: 74 bytes, Routine Base: \_EDT\$CODE + 0000

```

: 232          0831 1
: 233          0832 1 !<BLF/PAGE>

```

.....



EDT\$WORKIO  
V04-000

WORKIO - module for all i/o to workfile  
EDT\$WORKIO - Basic EDT workfile routine

L 2  
16-Sep-1984 02:17:46  
14-Sep-1984 12:25:50

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

Page 7  
(4)

: 235 0833 1 END  
: 236 0834 1  
: 237 0835 0 ELUDOM

End of module EDT\$WORKIO

PSECT SUMMARY

Name	Bytes	Attributes
_EDT\$CODE	74	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	0	0	581	00:04.1

COMMAND QUALIFIERS

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

: Size: 74 code + 0 data bytes  
: Run Time: 00:16.6  
: Elapsed Time: 00:23.3  
: Lines/CPU Min: 3023  
: Lexemes/CPU-Min: 8353  
: Memory Used: 82 pages  
: Compilation Complete

EDT\$  
V04-

