


```

RRRRRRRR  MM      MM      333333  CCCCCCCC  LL      000000  SSSSSSSS  EEEEEEEEE
RRRRRRRR  MM      MM      333333  CCCCCCCC  LL      000000  SSSSSSSS  EEEEEEEEE
RR      RR  MMMM  MMMM  33      33  CC      LL      00      00  SS      EE
RR      RR  MMMM  MMMM  33      33  CC      LL      00      00  SS      EE
RR      RR  MM    MM    33      33  CC      LL      00      00  SS      EE
RR      RR  MM    MM    33      33  CC      LL      00      00  SS      EE
RRRRRRRR  MM      MM      33      CC      LL      00      00  SSSSSS  EEEEEEEEE
RRRRRRRR  MM      MM      33      CC      LL      00      00  SSSSSS  EEEEEEEEE
RR  RR    MM      MM      33      CC      LL      00      00  SS      EE
RR  RR    MM      MM      33      CC      LL      00      00  SS      EE
RR  RR    MM      MM      33      CC      LL      00      00  SS      EE
RR  RR    MM      MM      33      CC      LL      00      00  SS      EE
RR      RR  MM      MM      333333  CCCCCCCC  LLLLLLLLLL  000000  SSSSSSSS  EEEEEEEEE
RR      RR  MM      MM      333333  CCCCCCCC  LLLLLLLLLL  000000  SSSSSSSS  EEEEEEEEE

```

```

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
2 0002 0 MODULE RM3CLOSE (LANGUAGE (BLISS32) ,
3 0003 0 IDENT = 'V04-000'
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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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: RMS32 INDEX SEQUENTIAL FILE ORGANIZATION
33 0033 1
34 0034 1 ABSTRACT:
35 0035 1 INDEXED SPECIFIC CODE FOR $CLOSE
36 0036 1
37 0037 1
38 0038 1 ENVIRONMENT:
39 0039 1
40 0040 1 VAX/VMS OPERATING SYSTEM
41 0041 1
42 0042 1 --
43 0043 1
44 0044 1
45 0045 1 AUTHOR: Wendy Koenig CREATION DATE: 11-APR-78 13:39
46 0046 1
47 0047 1
48 0048 1 MODIFIED BY:
49 0049 1
50 0050 1 V03-004 MCN0003 Maria del C. Nasr 15-Mar-1983
51 0051 1 More linkages reorganization
52 0052 1
53 0053 1 V03-003 MCN0002 Maria del C. Nasr 24-Feb-1983
54 0054 1 Reorganize linkages.
55 0055 1
56 0056 1 V03-002 MCN0001 Maria del C. Nasr 08-Nov-1982
57 0057 1 Return any index descriptors if file opened for block
```

```

: 58      0058 1  I/O since now the prologue and all descriptors are
: 59      0059 1  processed during create with BIO set.
: 60      0060 1
: 61      0061 1  V03-001 KBT0157      Keith B. Thompson      21-Aug-1982
: 62      0062 1  Reorganize psects
: 63      0063 1
: 64      0064 1  V02-005 CDS0002      C D Saether      06-Aug-1981
: 65      0065 1  Change linkage to only use ifab and impure area.
: 66      0066 1
: 67      0067 1  V02-004 CDS0001      C D Saether      16-Jul-1981
: 68      0068 1  Do not deallocate nrp on indirect close.
: 69      0069 1
: 70      0070 1  V02-099 REFORMAT      Ken Henderson      29-Jul-1980
: 71      0071 1  The code was reformatted.
: 72      0072 1
: 73      0073 1  REVISION HISTORY:
: 74      0074 1
: 75      0075 1  Wendy Koenig,      24-OCT-78  14:01
: 76      0076 1  X0002 - make changes caused by sharing conventions
: 77      0077 1
: 78      0078 1  !*****
: 79      0079 1
: 80      0080 1  LIBRARY 'RMSLIB:RMS';
: 81      0081 1
: 82      0082 1  REQUIRE 'RMSSRC:RMSIDXDEF';
: 83      0147 1
: 84      0148 1  !
: 85      0149 1  ! define default psects for code
: 86      0150 1  !
: 87      0151 1
: 88      0152 1  PSECT
: 89      0153 1  CODE = RMSRMS3(PSECT_ATTR),
: 90      0154 1  PLIT = RMSRMS3(PSECT_ATTR);
: 91      0155 1
: 92      0156 1  !
: 93      0157 1  ! Linkages
: 94      0158 1  !
: 95      0159 1
: 96      0160 1  LINKAGE
: 97      0161 1  L_LINK 7_10_11,
: 98      0162 1  L_RETSPC;
: 99      0163 1
: 100     0164 1  !
: 101     0165 1  ! External Routines
: 102     0166 1  !
: 103     0167 1
: 104     0168 1  EXTERNAL ROUTINE
: 105     0169 1  RMSRETBLK : RL$RETSPC;
: 106     0170 1

```

```

: 108      0171  1 GLOBAL ROUTINE RM$CLOSE3 : RL$LINK_7_10_11 =
: 109      0172  1
: 110      0173  1 !++
: 111      0174  1
: 112      0175  1 FUNCTIONAL DESCRIPTION:
: 113      0176  1
: 114      0177  1     If this is the last accessor of the file, deallocate all of the index
: 115      0178  1     descriptors ( off the IFAB) and zero the pointer.
: 116      0179  1
: 117      0180  1 CALLING SEQUENCE:
: 118      0181  1     BSBW    RM$CLOSE3
: 119      0182  1     entered via branch from RM$CLOSE and will RSB back to CLSDLT
: 120      0183  1
: 121      0184  1 INPUT PARAMETERS:
: 122      0185  1     NONE
: 123      0186  1
: 124      0187  1 IMPLICIT INPUTS:
: 125      0188  1     R10 -- IFAB address
: 126      0189  1     R11 -- IMPURE AREA address
: 127      0190  1
: 128      0191  1 OUTPUT PARAMETERS:
: 129      0192  1     NONE
: 130      0193  1
: 131      0194  1 IMPLICIT OUTPUTS:
: 132      0195  1     NONE
: 133      0196  1
: 134      0197  1 ROUTINE VALUE:
: 135      0198  1     usual RMS status codes, especially SUC
: 136      0199  1
: 137      0200  1 SIDE EFFECTS:
: 138      0201  1     if they existed, the index descriptors will be deallocated
: 139      0202  1
: 140      0203  1 !--
: 141      0204  1
: 142      0205  1 ! ***** right now there is no way of telling if this is the last user
: 143      0206  1 ! ***** has to be taken care of when files are done     if this is the
: 144      0207  1 ! last accessor of the file, deallocate all of the index   descriptors ( off
: 145      0208  1 ! the IFAB) and zero the pointer. *****
: 146      0209  1
: 147      0210  2 BEGIN
: 148      0211  2
: 149      0212  2 EXTERNAL REGISTER
: 150      0213  2     R_IFAB STR,
: 151      0214  2     R_IMPURE;
: 152      0215  2
: 153      0216  2 LOCAL
: 154      0217  2     PTR : REF BBLOCK,
: 155      0218  2     NEXT;
: 156      0219  2
: 157      0220  2 ! Return on indirect close.
: 158      0221  2 !
: 159      0222  2
: 160      0223  2 IF .IFAB[IFB$V_PPF_IMAGE]
: 161      0224  2 THEN
: 162      0225  2     RETURN RMSSUC();
: 163      0226  2
: 164      0227  2     PTR = .IFAB[IFB$L_IDX_PTR];

```

RM3CLOSE
V04-000

G 15
16-Sep-1984 01:38:30
14-Sep-1984 13:01:15

VAX-11 Bliss-32 V4.0-742
DISK\$VMSMASTER:[RMS.SRC]RM3CLOSE.B32;1 Page 4 (2)

```

: 165      0228 2
: 166      0229 2
: 167      0230 2
: 168      0231 2
: 169      0232 2
: 170      0233 2
: 171      0234 2
: 172      0235 2
: 173      0236 2
: 174      0237 2
: 175      0238 2
: 176      0239 2
: 177      0240 1

```

```

      WHILE .PTR NEQ 0
      DO
      BEGIN
      NEXT = .PTR[IDX$ , IDXFL];
      RMS$RETBK ( 0, .IFAB, .PTR );
      PTR = .NEXT;
      END;
      IFAB[IFB$ , IDX , PTR] = 0;
      RETURN RMSSUC( )
      END;

```

```

.TITLE RM3CLOSE
.IDENT \V04-000\
.EXTRN RMS$RETBK
.PSECT RM$RMS3,NOWRT, GBL, PIC,2

```

			007C	8F	BB	00000	RM\$CLOSE3::			
							PUSHR	#*M<R2,R3,R4,R5,R6>		: 0171
1B	04	AA		02	E0	00004	BBS	#2, 4(IFAB), 3\$: 0223
		54	00AC	CA	D0	00009	MOVL	172(IFAB), PTR		: 0227
				10	13	0000E	1\$: BEQL	2\$: 0229
		56		64	D0	00010	MOVL	(PTR), NEXT		: 0232
		53		5A	D0	00013	MOVL	IFAB, R3		: 0233
				52	D4	00016	CLRL	R2		: 0234
				0000G	30	00018	BSBW	RMS\$RETBK		: 0229
		54		56	D0	0001B	MOVL	NEXT, PTR		: 0237
				EE	11	0001E	BRB	1\$: 0238
			00AC	CA	D4	00020	2\$: CLRL	172(IFAB)		: 0240
		50		01	D0	00024	3\$: MOVL	#1, R0		: 0238
			007C	8F	BA	00027	POPR	#*M<R2,R3,R4,R5,R6>		: 0240
				05	0002B		RSB			: 0240

: Routine Size: 44 bytes, Routine Base: RM\$RMS3 + 0000

```

: 178      0241 1
: 179      0242 1 END
: 180      0243 1
: 181      0244 0 ELUDOM

```

PSECT SUMMARY

Name	Bytes	Attributes
RM\$RMS3	44	NOVEC,NOWRT, RD, EXE,NOSHR, GBL, REL, CON, PIC,ALIGN(2)

RM3CLOSE
V04-000

H 15
16-Sep-1984 01:38:30
14-Sep-1984 13:01:15

VAX-11 Bliss-32 V4.0-742
DISK\$VMSMASTER:[RMS.SRC]RM3CLOSE.B32;1 Page 5 (2)

Library Statistics

File	----- Total	Symbols Loaded	----- Percent	Pages Mapped	Processing Time
:_\$255\$DUA28:[RMS.OBJ]RMS.L32;1	3109	12	0	154	00:00.4

COMMAND QUALIFIERS

BLISS/CHECK=(FIELD,INITIAL,OPTIMIZE)/LIS=LIS\$:RM3CLOSE/OBJ=OBJ\$:RM3CLOSE MSRC\$:RM3CLOSE/UPDATE=(ENH\$:RM3CLOSE)

: Size: 44 code + 0 data bytes
: Run Time: 00:02.8
: Elapsed Time: 00:12.2
: Lines/CPU Min: 5228
: Lexemes/CPU-Min: 10264
: Memory Used: 32 pages
: Compilation Complete

RM2CREATE LIS	RM2GET LIS	RM2PUT LIS	RM2EXTEND LIS	RM2MTBKT LIS	RM2OPEN LIS	RM2UPDEL LIS	RM3ALLBKT LIS	RM3BKTIO LIS	RM3BKT SPL LIS	RM3CLOSE LIS	RM3CMPKEY LIS	RM3CMPRSS LIS	RM3BUG LIS
---------------	------------	------------	---------------	--------------	-------------	--------------	---------------	--------------	----------------	--------------	---------------	---------------	------------