```
RRRRRRRRRRRR    MMM           MMM    SSSSSSSSSSSS
RRRRRRRRRRRR    MMM           MMM    SSSSSSSSSSSS
RRRRRRRRRRRR    MMM           MMM    SSSSSSSSSSSS
RRR        RRR  MMMMMM     MMMMMM    SSS
RRR        RRR  MMMMMM     MMMMMM    SSS
RRR        RRR  MMMMMM     MMMMMM    SSS
RRR        RRR  MMM   MMM   MMM      SSS
RRR        RRR  MMM   MMM   MMM      SSS
RRR        RRR  MMM   MMM   MMM      SSS
RRRRRRRRRRRR    MMM         MMM      SSSSSSSSS
RRRRRRRRRRRR    MMM         MMM      SSSSSSSSS
RRRRRRRRRRRR    MMM         MMM      SSSSSSSSS
RRR    RRR      MMM         MMM               SSS
RRR    RRR      MMM         MMM               SSS
RRR    RRR      MMM         MMM               SSS
RRR      RRR    MMM         MMM               SSS
RRR      RRR    MMM         MMM               SSS
RRR      RRR    MMM         MMM               SSS
RRR        RRR  MMM         MMM      SSSSSSSSSSSS
RRR        RRR  MMM         MMM      SSSSSSSSSSSS
RRR        RRR  MMM         MMM      SSSSSSSSSSSS
```

```
RRRRRRRR    MM      MM   333333    BBBBBBBB    UU      UU   GGGGGGGG
RRRRRRRR    MM      MM   333333    BBBBBBBB    UU      UU   GGGGGGGG
RR      RR  MMMM  MMMM   33    33  BB      BB  UU      UU   GG
RR      RR  MMMM  MMMM   33    33  BB      BB  UU      UU   GG
RR      RR  MM  MM  MM         33  BB      BB  UU      UU   GG
RR      RR  MM  MM  MM         33  BB      BB  UU      UU   GG
RRRRRRRR    MM      MM         33  BBBBBBBB    UU      UU   GG
RRRRRRRR    MM      MM         33  BBBBBBBB    UU      UU   GG
RR  RR      MM      MM         33  BB      BB  UU      UU   GG    GGGGGG
RR  RR      MM      MM         33  BB      BB  UU      UU   GG    GGGGGG
RR      RR  MM      MM   33    33  BB      BB  UU      UU   GG        GG      ....
RR      RR  MM      MM   33    33  BB      BB  UU      UU   GG        GG      ....
RR      RR  MM      MM   333333    BBBBBBBB    UUUUUUUUUU   GGGGGG            ....
RR      RR  MM      MM   333333    BBBBBBBB    UUUUUUUUUU   GGGGGG            ....


LL              IIIIII      SSSSSSSS
LL              IIIIII      SSSSSSSS
LL                II      SS
LL                II      SS
LL                II      SS
LL                II      SS
LL                II        SSSSS
LL                II        SSSSS
LL                II              SS
LL                II              SS
LL                II              SS
LL                II              SS
LLLLLLLLLL      IIIIII      SSSSSSSS
LLLLLLLLLL      IIIIII      SSSSSSSS
```

RM3BUG
V04-000

RMS ISAM BLISS BUG CHECK

L 14

16-SEP-1984 01:06:50   VAX/VMS Macro V04-00
5-SEP-1984 16:24:17   [RMS.SRC]RM3BUG.MAR;1

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```
0000        1              $BEGIN  RM3BUG,000,RM$RMS3,<RMS ISAM BLISS BUG CHECK>-
0000        2                                            <PIC,NOSHR,NOWRT>
0000        3
0000        4      ;
0000        5      ;*******************************************************************************
0000        6      ;*                                                                             *
0000        7      ;*  COPYRIGHT (c) 1978, 1980, 1982, 1984 BY                                    *
0000        8      ;*  DIGITAL EQUIPMENT CORPORATION, MAYNARD, MASSACHUSETTS.                     *
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0000       23      ;*  SOFTWARE ON EQUIPMENT WHICH IS NOT SUPPLIED BY DIGITAL.                    *
0000       24      ;*                                                                             *
0000       25      ;*                                                                             *
0000       26      ;*******************************************************************************
0000       27
0000       28      ;++
0000       29
0000       30      ; Facility:     RMS32 INDEX SEQUENTIAL FILE ORGANIZATION
0000       31      ;
0000       32      ; Abstract: bug check routine for bliss isam modules
0000       33      ;
0000       34      ;
0000       35      ; Environment:
0000       36      ;
0000       37      ;               VAX/VMS OPERATING SYSTEM
0000       38      ;
0000       39      ;
0000       40      ; Author:       Christian Saether     Creation date:    12-july-1978
0000       41      ;
0000       42      ; MODIFIED BY:
0000       43      ;
0000       44      ;      V03-001 KBT0156          Keith B. Thompson        21-Aug-1982
0000       45      ;              Reorganize psects
0000       46      ;
0000       47      ;      V02-002 REFORMAT         P S Knibbe       25-Jul-1980
0000       48      ;
0000       49      ; Revision history
0000       50      ;
0000       51      ;      C Saether,       1-NOV-1978   10:00
0000       52      ;              make bug check non-fatal and delete process
0000       53      ;--
0000       54      ;--
0000       55      ;
0000       56      ;
0000       57      ; Include Files:
```

RM3BUG
V04-000

M 14

RMS ISAM BLISS BUG CHECK

16-SEP-1984 01:06:50   VAX/VMS Macro V04-00
5-SEP-1984 16:24:17   [RMS.SRC]RM3BUG.MAR;1

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```
0000    58  ;
0000    59
0000    60  ;
0000    61  ; Macros:
0000    62  ;
0000    63
0000    64  ;
0000    65  ; Equated Symbols:
0000    66  ;
0000    67
0000    68  ;
0000    69  ; Own Storage:
0000    70  ;
0000    71
```

N 14

RM3BUG   RMS ISAM BLISS BUG CHECK   16-SEP-1984 01:06:50 VAX/VMS Macro V04-00   Page 3
V04-000   5-SEP-1984 16:24:17 [RMS.SRC]RM3BUG.MAR;1   (3)

```
0000    73
0000    74   ;++
0000    75   ;
0000    76   ; BLISS INTERFACE TO BUG CHECK REPORTING
0000    77   ;
0000    78   ; Calling sequence:
0000    79   ;       rm$bug3()
0000    80   ;
0000    81   ; Input Parameters:
0000    82   ;       none
0000    83   ;
0000    84   ; Implicit Inputs:
0000    85   ;       none
0000    86   ;
0000    87   ; Output Parameters:
0000    88   ;       none
0000    89   ;
0000    90   ; Implicit Outputs:
0000    91   ;       none
0000    92   ;
0000    93   ; Routine Value:
0000    94   ;       none
0000    95   ;
0000    96   ; Side Effects:
0000    97   ;       causes bug check reporting to occur
0000    98   ;
0000    99   ;--
0000   100
0000   101   RM$BUG3::
0000   102           BUG_CHECK         RMSBUG,WARN      ; log the bug check
0004   103           $DELPRC_S                          ; and delete the process
000F   104           .END
```

B 15

RM3BUG   RMS ISAM BLISS BUG CHECK   16-SEP-1984 01:06:50   VAX/VMS Macro V04-00   Page   4
Symbol table   5-SEP-1984 16:24:17   [RMS.SRC]RM3BUG.MAR;1   (3)

```
$$.PSECT_EP      = 00000000
$$RMSTEST        = 0000001A
$$RMS_PBUGCHK    = 00000010
$$RMS_TBUGCHK    = 000000??
$$RMS_UMODE      = 00000004
BUG$_RMSBUG        ********  X   01
RM$BUG3          00000000 RG     01
SYS$DELPRC         ********  GX  01
```

```
                        +-------------------+
                        ! Psect synopsis !
                        +-------------------+
```

PSECT name	Allocation		PSECT No.	Attributes									
. ABS .	00000000 (	0.)	00 (0.)	NOPIC	USR	CON	ABS	LCL	NOSHR	NOEXE	NORD	NOWRT NOVEC	BYTE
RM$RMS3	0000000F (	15.)	01 (1.)	PIC	USR	CON	REL	GBL	NOSHR	EXE	RD	NOWRT NOVEC	BYTE

```
                    +-----------------------------+
                    ! Performance indicators !
                    +-----------------------------+
```

Phase	Page faults	CPU Time	Elapsed Time
Initialization	37	00:00:00.09	00:00:00.56
Command processing	138	00:00:00.68	00:00:05.62
Pass 1	117	00:00:00.72	00:00:04.78
Symbol table sort	0	00:00:00.01	00:00:00.01
Pass 2	39	00:00:00.29	00:00:02.01
Symbol table output	3	00:00:00.02	00:00:00.09
Psect synopsis output	1	00:00:00.02	00:00:00.03
Cross-reference output	0	00:00:00.00	00:00:00.00
Assembler run totals	338	00:00:01.83	00:00:13.23

The working set limit was 1200 pages.
1458 bytes (3 pages) of virtual memory were used to buffer the intermediate code.
There were 10 pages of symbol table space allocated to hold 8 non-local and 0 local symbols.
104 source lines were read in Pass 1, producing 11 object records in Pass 2.
5 pages of virtual memory were used to define 5 macros.

```
                    +-----------------------------+
                    ! Macro library statistics !
                    +-----------------------------+
```

Macro library name	Macros defined
_255DUA28:[RMS.OBJ]RMS.MLB;1	1
_255DUA28:[SYS.OBJ]LIB.MLB;1	1
_255DUA28:[SYSLIB]STARLET.MLB;2	2
TOTALS (all libraries)	4

32 GETS were required to define 4 macros.

There were no errors, warnings or information messages.

MACRO/LIS=LIS$:RM3BUG/OBJ=OBJ$:RM3BUG MSRC$:RM3BUG/UPDATE=(ENH$:RM3BUG)+EXECML$/LIB+LIB$:RMS/LIB

RM2UPDDEL
LIS

RM3CLOSE
LIS

RM3ALLBKT
LIS

RM2CREATE
LIS

RM2GET
LIS

RM2PUT
LIS

RM3BKTIO
LIS

RM3BKTSPL
LIS

RM3CMPKEY
LIS

RM3CMPRSS
LIS

RM2EXTEND
LIS

RM2FMTBKT
LIS

RM3BUG
LIS

RM2OPEN
LIS