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RRRRRRRRRRRRRRR      MMM      MMM      SSSSSSSSSSSSSS
RRRRRRRRRRRRRRR      MMM      MMM      SSSSSSSSSSSSSS
RRRRRRRRRRRRRRR      MMM      MMM      SSSSSSSSSSSSSS
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
RRRRRRRRRRRRRRR      MMM      MMM      SSSSSSSSSS
RRRRRRRRRRRRRRR      MMM      MMM      SSSSSSSSSS
RRRRRRRRRRRRRRR      MMM      MMM      SSSSSSSSSS
RRR      RRR      MMM      MMM      MMM      SSS
RRR      RRR      MMM      MMM      MMM      SSS
RRR      RRR      MMM      MMM      MMM      SSS
RRR      RRR      MMM      MMM      MMM      SSS
RRR      RRR      MMM      MMM      MMM      SSS
RRR      RRR      MMM      MMM      SSSSSSSSSSSSSS
RRR      RRR      MMM      MMM      SSSSSSSSSSSSSS
RRR      RRR      MMM      MMM      SSSSSSSSSSSSSS

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RRRRRRRR      MM      MM      SSSSSSSS      000000      GGGGGGGG      EEEEEEEEEEE      TTTTTTTTTT
RRRRRRRR      MM      MM      SSSSSSSS      000000      GGGGGGGG      EEEEEEEEEEE      TTTTTTTTTT
RR      RR      MMM      MMM      SS      00      00      GG      EE      TT
RR      RR      MMM      MMM      SS      00      00      GG      EE      TT
RR      RR      MM      MM      SS      00      0000      GG      EE      TT
RR      RR      MM      MM      SS      00      0000      GG      EE      TT
RRRRRRRR      MM      MM      SSSSSS      00      00      00      GG      EEEEEEEE      TT
RRRRRRRR      MM      MM      SSSSSS      00      00      00      GG      EEEEEEEE      TT
RR      RR      MM      MM      SS      0000      00      GG      GG      EE      TT
RR      RR      MM      MM      SS      0000      00      GG      GG      EE      TT
RR      RR      MM      MM      SS      00      00      GG      GG      EE      TT
RR      RR      MM      MM      SSSSSSSS      000000      GGGGGG      EEEEEEEEEEE      TT
RR      RR      MM      MM      SSSSSSSS      000000      GGGGGG      EEEEEEEEEEE      TT
                                         ....
                                         ....
                                         ....
                                         ....

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
```


(2) 61
(3) 84

DECLARATIONS
RMS\$GET - COMMON \$GET SETUP AND DISPATCH ROUTINE


```
0000 1          $BEGIN RMSOGET,000,RM$RMS,<DISPATCH FOR GET OPERATION>,<NOWRT,QUAD>
0000 2
0000 3
0000 4 *****
0000 5 *****
0000 6 *  COPYRIGHT (c) 1978, 1980, 1982, 1984 BY
0000 7 *  DIGITAL EQUIPMENT CORPORATION, MAYNARD, MASSACHUSETTS.
0000 8 *  ALL RIGHTS RESERVED.
0000 9
0000 10 *  THIS SOFTWARE IS FURNISHED UNDER A LICENSE AND MAY BE USED AND COPIED
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0000 13 *  COPIES THEREOF MAY NOT BE PROVIDED OR OTHERWISE MADE AVAILABLE TO ANY
0000 14 *  OTHER PERSON. NO TITLE TO AND OWNERSHIP OF THE SOFTWARE IS HEREBY
0000 15 *  TRANSFERRED.
0000 16
0000 17 *  THE INFORMATION IN THIS SOFTWARE IS SUBJECT TO CHANGE WITHOUT NOTICE
0000 18 *  AND SHOULD NOT BE CONSTRUED AS A COMMITMENT BY DIGITAL EQUIPMENT
0000 19 *  CORPORATION.
0000 20
0000 21 *  DIGITAL ASSUMES NO RESPONSIBILITY FOR THE USE OR RELIABILITY OF ITS
0000 22 *  SOFTWARE ON EQUIPMENT WHICH IS NOT SUPPLIED BY DIGITAL.
0000 23
0000 24 *****
0000 25 *****
0000 26
0000 27 ++
0000 28 Facility: RMS32
0000 29
0000 30 Abstract:
0000 31 this routine is the highest level control
0000 32 routine to perform the $get function.
0000 33
0000 34
0000 35
0000 36 Environment:
0000 37 star processor running starlet exec.
0000 38
0000 39 Author: L F Laverdure, creation date: 3-FEB-1977
0000 40
0000 41 Modified By:
0000 42
0000 43 V03-004 DGB0034 Donald G. Blair 16-Mar-1984
0000 44 Fix broken CASE branch.
0000 45
0000 46 V03-003 KPL0002 Peter Lieberwirth 26-Jul-1983
0000 47 AT journaling operations identify themselves in RJR.
0000 48
0000 49 V03-002 KPL0001 Peter Lieberwirth 24-Jul-1983
0000 50 If AT journaling, get RAB data that describes user's request.
0000 51
0000 52 V03-001 KBT0183 Keith B. Thompson 23-Aug-1982
0000 53 Reorganize psects
0000 54
0000 55 V02-006 REFORMAT Keith B. Thompson 29-Jul-1980
0000 56
0000 57 --
```


RMSOGET
V04-000

DISPATCH FOR GET OPERATION

C 1

16-SEP-1984 01:20:08 VAX/VMS Macro V04-00
5-SEP-1984 16:25:01 [RMS.SRC]RMSOGET.MAR;1

Page 2
(1)

0000 58 ;
0000 59

RMSO
V04-


```
0000 61      .SBTTL DECLARATIONS
0000 62
0000 63 :
0000 64 : Include Files:
0000 65 :
0000 66 :
0000 67 :
0000 68 : Macros:
0000 69 :
0000 70
0000 71      $IFBDEF
0000 72      $DPSECT
0000 73      $RJRDEF
0000 74
0000 75 :
0000 76 : Equated Symbols:
0000 77 :
0000 78 :
0000 79 :
0000 80 : Own Storage:
0000 81 :
0000 82
```



```
0000 84      .SBTTL  RMS$GET - COMMON $GET SETUP AND DISPATCH ROUTINE
0000 85
0000 86      :++
0000 87      :
0000 88      : $GET
0000 89      :
0000 90      : this routine performs common rab function setup followed
0000 91      : by dispatch to organization-dependent $get code
0000 92      :
0000 93      : Calling sequence:
0000 94      :
0000 95      :     entered from exec as a result of user's calling sys$get
0000 96      :     (e.g., by using the $get macro)
0000 97      :
0000 98      : Input Parameters:
0000 99      :
0000 100     :     AP      user's argument list addr
0000 101     :
0000 102     : Implicit Inputs:
0000 103     :
0000 104     :     the contents of the rab and related irab and ifab.
0000 105     :
0000 106     : Output Parameters:
0000 107     :
0000 108     :     R1      destroyed
0000 109     :     R0      status code
0000 110     :
0000 111     : Implicit Outputs:
0000 112     :
0000 113     :     various fields of the rab are filled in to reflect
0000 114     :     the status of the $get operation. (see rms functional
0000 115     :     spec for a complete list.)
0000 116     :
0000 117     :     the irab is similarly updated.
0000 118     :
0000 119     :     a completion ast is queued if specified in the user arglist.
0000 120     :
0000 121     : Completion Codes:
0000 122     :
0000 123     :     standard rms (see functional spec for list).
0000 124     :
0000 125     : Side Effects:
0000 126     :
0000 127     :     none
0000 128     :
0000 129     :--
0000 130     :
0000 131     : $ENTRY  RMS$GET
0000 132     : $STPT  GET
0000 133     : $RABSET FAC=IFB$V_GET      ; do common setup
0000 134     :
0000 135     :
0000 136     : If AT journaling, get some information from RAB.
0000 137     :
0000 138     : BBC      #IFB$V_AT,IFB$B_JNLFLG(R10),10$ ; skip if not AT jnlng
0000 139     : MOVL    #RJR$_GET,R1      ; this is a GET
0000 140     : JSB     RMS$AT_COM_RAB    ; get RAB data into RJR
```

09 00A0 CA 04 E1 000A BBC #IFB\$V_AT,IFB\$B_JNLFLG(R10),10\$; skip if not AT jnlng
51 OE DO 0010 MOVL #RJR\$_GET,R1 ; this is a GET
00000000*EF 16 0013 JSB RMS\$AT_COM_RAB ; get RAB data into RJR


```
0019 141 10$:
0019 142
0019 143 ;
0019 144 ; returns to user on error
0019 145 ;
0019 146 ; dispatch to org-dependent code
0019 147 ;
0019 148 CASE TYPE=B,-
0019 149 SRC=IFB$B ORGCASE(R10),-
0019 150 DISPLIST=ZRM$GET1,GET2_INDIRECT,RM$GET3> ; seq,rel,idx routines
00000008 0024 151 .IF NE $$RMSTEST&$$RMS_TBUGCHK
FFD9' 31 0024 152 BRW RM$ERRORG
0027 153 .ENDC
0027 154
0027 155 ;
0027 156 ; Cannot dispatch directly to rm$get2 because a case statement cannot
0027 157 ; handle branches with longword offsets.
0027 158 ;
0027 159
00000000'EF 17 0027 160 GET2_INDIRECT:
0027 161 JMP RM$GET2
002D 162
002D 163 .END
```


RMSOGET
Symbol table

DISPATCH FOR GET OPERATION

G 1

16-SEP-1984 01:20:08 VAX/VMS Macro V04-00
5-SEP-1984 16:25:01 [RMS.SRC]RMSOGET.MAR;1

Page 6
(3)

\$\$PSECT EP	= 00000000		
\$\$RMSTEST	= 0000001A		
\$\$RMS_PBUGCHK	= 00000010		
\$\$RMS_TBUGCHK	= 00000008		
\$\$RMS_UMODE	= 00000004		
GET2 INDIRECT	00000027	R	01
IFB\$B_JNLFLG	= 000000A0		
IFB\$B_ORGCASE	= 00000023		
IFB\$V_AT	= 00000004		
IFB\$V_GET	= 00000001		
PIOSA-TRACE	*****	X	01
RJRS GET	= 0000000E		
RMSAT_COM_RAB	*****	X	01
RMSERRORG	*****	X	01
RMSGET1	*****	X	01
RMSGET2	*****	X	01
RMSGET3	*****	X	01
RMSRSET	*****	X	01
RMS\$GET	= FFFFFFFE	RG	01
TPT\$\$_GET	*****	X	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				
RMSRMS	0000002D (45.)	01 (1.)	PIC	USR	CON	REL	GBL	NOSHR	EXE	RD	NOWRT	NOVEC	QUAD				
\$AB\$	00000000 (0.)	02 (2.)	NOPIC	USR	CON	ABS	LCL	NOSHR	EXE	RD	WRT	NOVEC	BYTE				

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

Phase	Page faults	CPU Time	Elapsed Time
Initialization	36	00:00:00.11	00:00:00.91
Command processing	137	00:00:00.74	00:00:05.71
Pass 1	190	00:00:03.66	00:00:12.01
Symbol table sort	0	00:00:00.47	00:00:00.52
Pass 2	43	00:00:00.77	00:00:02.40
Symbol table output	4	00:00:00.04	00:00:00.04
Psect synopsis output	2	00:00:00.02	00:00:00.02
Cross-reference output	0	00:00:00.00	00:00:00.00
Assembler run totals	414	00:00:05.82	00:00:21.64

The working set limit was 1200 pages.
18565 bytes (37 pages) of virtual memory were used to buffer the intermediate code.
There were 20 pages of symbol table space allocated to hold 363 non-local and 3 local symbols.
163 source lines were read in Pass 1, producing 13 object records in Pass 2.
15 pages of virtual memory were used to define 14 macros.

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

Macro library name	Macros defined
-----	-----
\$255\$DUA28:[RMS.OBJ]RMS.MLB;1	6
\$255\$DUA28:[SYS.OBJ]LIB.MLB;1	1
\$255\$DUA28:[SYSLIB]STARLET.MLB;2	3
TOTALS (all libraries)	10

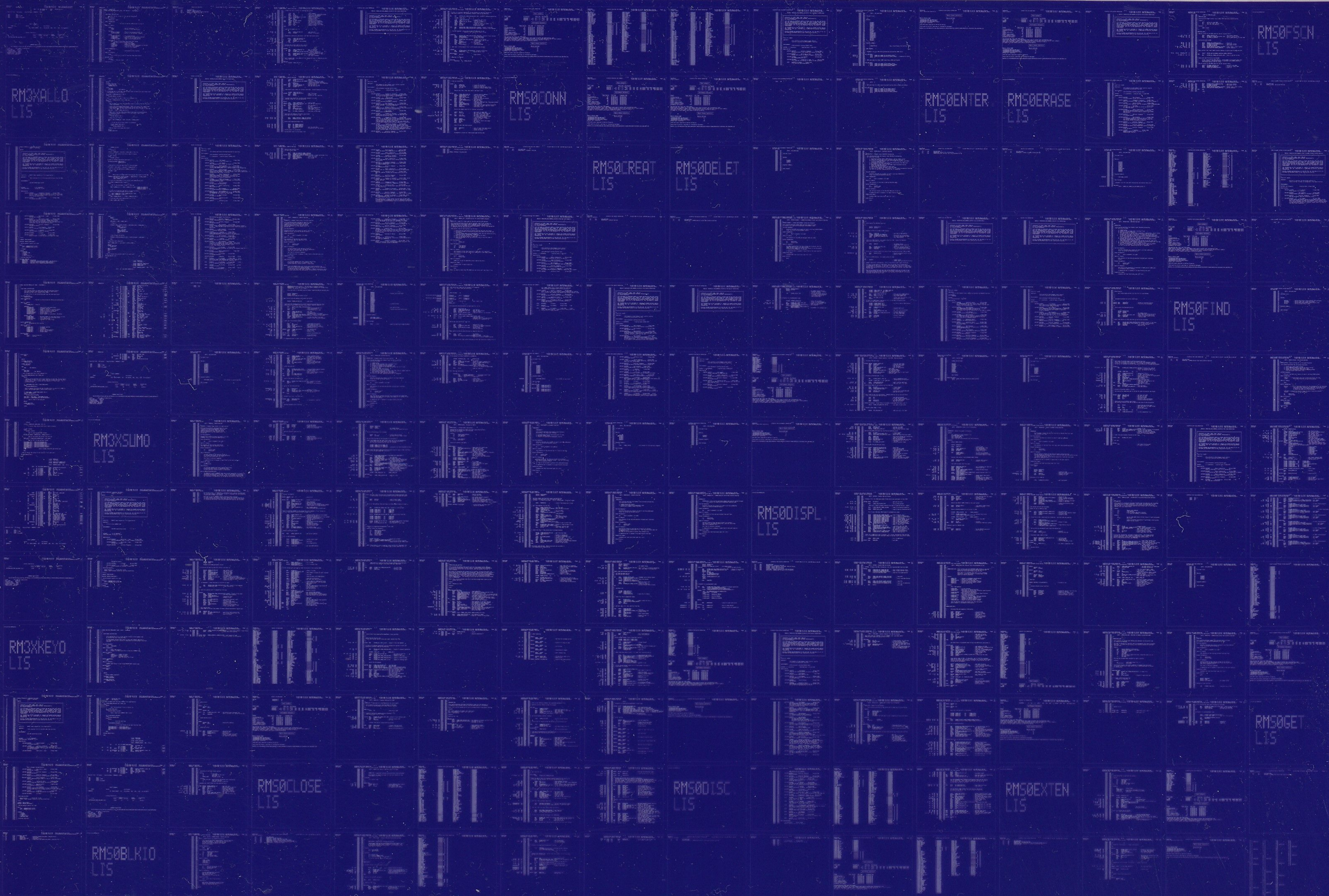
454 GETS were required to define 10 macros.

There were no errors, warnings or information messages.

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

0329 AH-BT13A-SE
VAX/VMS V4.0

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0330 AH-BT13A-SE
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