


```

RRRRRRRR  MM      MM      SSSSSSSS  000000  SSSSSSSS  DDDDDDDD  FFFFFFFF  PPPPPPPP
RRRRRRRR  MM      MM      SSSSSSSS  000000  SSSSSSSS  DDDDDDDD  FFFFFFFF  PPPPPPPP
RR      RR  MMMM  MMMM  SS      00      00  SS      DD      DD  FF      PP      PP
RR      RR  MMMM  MMMM  SS      00      00  SS      DD      DD  FF      PP      PP
RR      RR  MM  MM  MM  SS      00      0000  SS      DD      DD  FF      PP      PP
RR      RR  MM  MM  SS      00      0000  SS      DD      DD  FF      PP      PP
RRRRRRRR  MM      MM      SSSSSS  00  00  00  SSSSSS  DD      DD  FFFFFFFF  PPPPPPPP
RRRRRRRR  MM      MM      SSSSSS  00  00  00  SSSSSS  DD      DD  FFFFFFFF  PPPPPPPP
RR  RR      MM      MM      SS  0000  00  SS      DD      DD  FF      PP
RR  RR      MM      MM      SS  0000  00  SS      DD      DD  FF      PP
RR      RR      MM      MM      SS  00      00  SS      DD      DD  FF      PP
RR      RR      MM      MM      SS  00      00  SS      DD      DD  FF      PP
RR      RR  MM      MM      SSSSSSSS  000000  SSSSSSSS  DDDDDDDD  FF      PP
RR      RR  MM      MM      SSSSSSSS  000000  SSSSSSSS  DDDDDDDD  FF      PP

```

```

LL      IIIIII  SSSSSSSS
LL      IIIIII  SSSSSSSS
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

```



```

0000 1          $BEGIN RMSOSDFP,000,RMSRMS,<SET DEFAULT FILE PROTECTION>
0000 2
0000 3
0000 4 :*****
0000 5 :*
0000 6 :*  COPYRIGHT (c) 1978, 1980, 1982, 1984 BY
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0000 21 :*  DIGITAL ASSUMES NO RESPONSIBILITY FOR THE USE OR RELIABILITY OF ITS
0000 22 :*  SOFTWARE ON EQUIPMENT WHICH IS NOT SUPPLIED BY DIGITAL.
0000 23 :*
0000 24 :*
0000 25 :*****
0000 26
0000 27 ++
0000 28 : Facility: rms32
0000 29
0000 30 : Abstract:
0000 31 :           this routine sets the default file protection in
0000 32 :           the process i/o control page.
0000 33
0000 34 : Environment:
0000 35 :           star processor running starlet exec.
0000 36
0000 37 : Author: l f laverdure,           creation date: 22-APR-1977
0000 38
0000 39 : Modified By:
0000 40
0000 41 :           V03-003 RAS0237           Ron Schaefer           16-Jan-1984
0000 42 :           Change LMP0133 to use CTL$GL_PCB, instead of SCH$GL_CURPCB
0000 43 :           so this code works on the secondary of a dual processor.
0000 44
0000 45 :           V03-002 LMP0133           L. Mark Pilant,           3-Aug-1983 15:05
0000 46 :           Get default protection from PCB instead of P1 space.
0000 47
0000 48 :           V03-001 KBT0192           Keith B. Thompson           23-Aug-1982
0000 49 :           Reorganize psects and rename entry point to single '$'
0000 50
0000 51 :           V02-006 REFORMAT           P S Knibbe           25-Jul-1980
0000 52
0000 53 :           V005 RAN0002           R A Newell           18-SEP-1978 09:19
0000 54 :           rms32 isam modification. redefinition of entry point to
0000 55 :           resolve out of range branches.
0000 56
0000 57 : 01 -

```

RMSOSDFP
V04-000

SET DEFAULT FILE PROTECTION

C 16

16-SEP-1984 01:30:52 VAX/VMS Macro V04-00
5-SEP-1984 16:25:29 [RMS.SRC]RMSOSDFP.MAR;1

Page 2
(1)

0000 28 :--
0000 59

```
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      $PSLDEF
0000 72      $RMSDEF
0000 73      $PCBDEF
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$SETDFPROT - SET DEFAULT FILE PROTECTION ROUTINE
0000 85
0000 86 :++
0000 87 : RMS$SETDFPROT - Set default file protection
0000 88 :
0000 89 :   this routine optionally returns and/or sets the value of the
0000 90 :   default file protection word in the process i/o control page.
0000 91 :
0000 92 : Calling sequence:
0000 93 :
0000 94 :   entered from exec as a result of user's calling sys$setdfprot
0000 95 :
0000 96 : Input Parameters:
0000 97 :
0000 98 :   ap      user's argument list addr
0000 99 :           first argument gives the address of the new default file
0000 100 :           protection word if any, else 0.
0000 101 :           contains a second argument optionally giving the address of
0000 102 :           a word in which the current default protection may be returned.
0000 103 :
0000 104 : Implicit Inputs:
0000 105 :
0000 106 :
0000 107 : Output Parameters:
0000 108 :
0000 109 :   r1      destroyed
0000 110 :   r0      status code
0000 111 :   (note: this routine uses r0-r3 as saved in the system vector entry mask)
0000 112 :
0000 113 : Implicit Outputs:
0000 114 :
0000 115 :   optionally, pio$gw_dfprot set to the value of the input word
0000 116 :   and/or the current default protection is returned to the caller
0000 117 :
0000 118 : Completion Codes:
0000 119 :
0000 120 :   standard rms, in particular, suc and ial.
0000 121 :
0000 122 : Side Effects:
0000 123 :
0000 124 :   none
0000 125 :
0000 126 :--
0000 127
```

```

0000 129          $ENTRY RMS$SETDFPROT
0000 130          $TSTPT SETDFPROT
0006 131
0006 132 :
0006 133 : see if the caller wants the protection returned
0006 134 :
0006 135
0006 136          RMSERR IAL ; anticipate error
52 04 AC D0 000B 137          MOVL 4(AP),R2 ; get 1st argument
09 13 000F 138          BEQL 3$ ; branch if no value to set
0011 139          IFNORD #2,(R2),EXIT ; is the word readable?
51 53 62 B0 0017 140          MOVW (R2),R3 ; save new value
08 AC D0 001A 141 3$:          MOVL 8(AP),R1 ; possible address of return length
12 13 001E 142          BEQL 5$ ; if caller doesn't want it, o.k.
50 00000000'GF D0 0020 143          IFNOWRT #2,(R1),EXIT ; writeable?
61 0114 C0 B0 0026 144          MOVL G^CTL$GL_PCB,R0 ; get current process PCB address
52 D5 0032 145          MOVW PCB$L_DEFPROT(R0),(R1) ; yes, so return it to the caller
OF 13 0034 146 5$:          TSTL R2 ; was there a new value?
0036 147          BEQL 7$ ; branch if not
0045 148          $CMKRNL_S SETPROT ; else copy it over
0048 149 7$:          RMSSUC
0048 150 EXIT:
04 0048 151          SSB #16,R0
004C 152          RET
004D 153
004D 154 SETPROT:
50 00000000'GF 0000 004D 155          .WORD 0
0114 C0 53 D0 004F 156          MOVL G^CTL$GL_PCB,R0 ; get current process PCB address
04 B0 0056 157          MOVW R3,PCB$L_DEFPROT(R0) ; else copy it over
005B 158          RET
005C 159
005C 160          .END

```



```

SS.PSECT_EP      = 00000000
SSRMSTEST       = 0000001A
SSRMS_PBUGCHK   = 00000010
SSRMS_TBUGCHK   = 00000008
SSRMS_UMODE     = 00000004
CTL$GC_PCB      ***** X 01
EXIT            = 00000048 R 01
PCBSL_DEFPROT   = 00000114
PIOSA_TRACE     ***** X 01
RMS$SETDFPROT  = FFFFFFFE RG 01
RMS$IAL         = 0001854C
SETPROT         0000004D R 01
SYSSCMKRN      ***** GX 01
TPT$SL_SETDFPROT ***** 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	0000005C (92.)	01 (1.)	PIC USR CON REL GBL NOSHR EXE RD NOWRT NOVEC BYTE
\$ABS\$	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	00:00:00.09	00:00:00.48
Command processing	142	00:00:00.68	00:00:05.95
Pass 1	204	00:00:04.36	00:00:16.35
Symbol table sort	0	00:00:00.41	00:00:00.57
Pass 2	44	00:00:00.84	00:00:02.96
Symbol table output	3	00:00:00.03	00:00:00.16
Psect synopsis output	1	00:00:00.02	00:00:00.17
Cross-reference output	0	00:00:00.00	00:00:00.00
Assembler run totals	432	00:00:06.45	00:00:26.70

The working set limit was 1350 pages.
 21484 bytes (42 pages) of virtual memory were used to buffer the intermediate code.
 There were 20 pages of symbol table space allocated to hold 403 non-local and 4 local symbols.
 160 source lines were read in Pass 1, producing 13 object records in Pass 2.
 22 pages of virtual memory were used to define 21 macros.

! Macro library statistics !

Macro library name	Macros defined
-----	-----
_\$255\$DUA28:[RMS.OBJ]RMS.MLB;1	8
_\$255\$DUA28:[SYS.OBJ]LIB.MLB;1	3
_\$255\$DUA28:[SYSLIB]STARLET.MLB;2	6
TOTALS (all libraries)	17

539 GETS were required to define 17 macrcs.

There were no errors, warnings or information messages.

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

0330 AH-BT13A-SE
VAX/VMS V4.0

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