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SUBROUTINE VAXPSL (LUN,ERROR_PSL)

```
C  
C Version: 'V04-000'  
C  
C*****  
C*  
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C*  
C*****  
C  
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C  
C AUTHOR BRIAN PORTER CREATION DATE 24-JUL-1979  
C  
C Functional description:  
C  
C This module is called to display the vax psl.  
C  
C Modified by:  
C  
C V03-001 SAR0107 Sharon A. Reynolds, 20-Jun-1983  
C Changed the carriage control in the 'format' statements  
C for use with ERF.  
C  
C V02-002 BP0002 Brian Porter 11-MAY-1981  
C Added include statement and modified necessary code  
C to enable its use.  
C  
C V02-001 BP0001 Brian Porter 11-FEB-1981  
C Removed call to UNUSED_BITS. Added code to print a 32-bit  
C psl image.  
C**
```

include 'src\$:modes.for /nolist'

BYTE LUN

```
0095
0096     INTEGER*4     FIELD
0097
0098     INTEGER*4     COMPRESSC
0099
0100     INTEGER*4     ERROR_PSL
0101
0102     CHARACTER*31   V1PSL(0:7)
0103     CHARACTER*16   V2PSL(26:27)
0104     CHARACTER*19   V3PSL(30:31)
0105
0106
0107
0108
0109     DATA  V1PSL(0)      /'C-BIT*'/
0110
0111     DATA  V1PSL(1)      /'V-BIT*'/
0112
0113     DATA  V1PSL(2)      /'Z-BIT*'/
0114
0115     DATA  V1PSL(3)      /'N-BIT*'/
0116
0117     DATA  V1PSL(4)      /'T-BIT*'/
0118
0119     DATA  V1PSL(5)      /'INTEGER OVERFLOW TRAP ENABLE*'/
0120
0121     DATA  V1PSL(6)      /'FLOATING UNDERFLOW TRAP ENABLE*'/
0122
0123     DATA  V1PSL(7)      /'DECIMAL OVERFLOW TRAP ENABLE*'/
0124
0125
0126
0127
0128     DATA  V2PSL(26)     /'INTERRUPT STACK*'/
0129
0130     DATA  V2PSL(27)     /'FIRST PART DONE*'/
0131
0132
0133
0134
0135     DATA  V3PSL(30)     /'TRACE PENDING*'/
0136
0137     DATA  V3PSL(31)     /'COMPATABILITY MODE*'/
0138
0139
0140
0141
0142     CALL LINCHK (LUN,2)
0143
0144     WRITE(LUN,50) ERROR_PSL
50     FORMAT(/' ',T8,'ERROR_PSL',T24,Z8.8)
0145
0146     CALL OUTPUT (LUN,ERROR_PSL,V1PSL,0,0,7,'0')
0147
0148     FIELD = LIB$EXTZV(16,5,ERROR_PSL)
0149
0150     CALL LINCHK (LUN,1)
0151
```

```

0152
0153
0154 100 WRITE(LUN,100) FIELD
0155      FORMAT(' ',T40,'INTERRUPT PRIORITY LEVEL = ',I2.2,'.')
0156      FIELD = LIB$EXTZV(22,2,ERROR_PSL)
0157
0158      CALL LINCHK (LUN,1)
0159
0160 125 WRITE(LUN,125) modes(FIELD)
0161      FORMAT(' ',T40,'PREVIOUS MODE = ',
0162            1 A<COMPRESSC (modes(FIELD))>>)
0163
0164      FIELD = LIB$EXTZV(24,2,ERROR_PSL)
0165
0166      CALL LINCHK (LUN,1)
0167
0168 150 WRITE(LUN,150) modes(FIELD)
0169      FORMAT(' ',T40,'CURRENT MODE = ',
0170            1 A<COMPRESSC (modes(FIELD))>>)
0171
0172      CALL OUTPUT (LUN,ERROR_PSL,V2PSL,26,26,27,'0')
0173
0174      CALL OUTPUT (LUN,ERROR_PSL,V3PSL,30,30,31,'0')
0175
0176      RETURN
0177
0178      END
    
```

Mod

ERR
SYS
SYS
LIB
LIB
SYS
LIB
LIB

PROGRAM SECTIONS

Name	Bytes	Attributes
0 \$CODE	426	PIC CON REL LCL SHR EXE RD NOWRT LONG
1 \$PDATA	174	PIC CON REL LCL SHR NOEXE RD NOWRT LONG
2 \$LOCAL	620	PIC CON REL LCL NOSHR NOEXE RD WRT LONG
3 MODE	55	PIC OVR REL GBL SHR NOEXE RD WRT LONG
Total Space Allocated	1275	

ENTRY POINTS

Address	Type	Name
0-00000000		VAXPSL

VARIABLES

Address	Type	Name	Address	Type	Name	Address	Type	Name
AP-00000008	1*4	ERROR_PSL	2-00000140	1*4	FIELD	AP-00000004	L*1	LUN

ARRAYS

Address	Type	Name	Bytes	Dimensions
3-00000000	CHAR	MODES	55	(0:4)
2-00000000	CHAR	V1PSL	248	(0:7)
2-000000F8	CHAR	V2PSL	32	(26:27)
2-00000118	CHAR	V3PSL	38	(30:31)

DEF

LABELS

Address	Label	Address	Label	Address	Label	Address	Label
1-00000032	50'	1-00000049	100'	1-00000072	125'	1-00000090	150'

FUNCTIONS AND SUBROUTINES REFERENCED

Type	Name	Type	Name	Type	Name	Type	Name
I*4	COMPRESSC	I*4	LIB\$EXTZV		LINCHK		OUTPUT

COMMAND QUALIFIERS

FORTRAN /LIS=LIS\$:VAXPSL/OBJ=OBJ\$:VAXPSL MSRC\$:VAXPSL

/CHECK=(NOBOUNDS,OVERFLOW,NOUNDERFLOW)

/DEBUG=(NOSYMBOLS,TRACEBACK)

/STANDARD=(NOSYNTAX,NOSOURCE_FORM)

/SHOW=(NOPREPROCESSOR,NOINCLUDE,MAP)

/F77 /NOG_FLOATING /I4 /OPTIMIZE /WARNINGS /NOD_LINES /NOCROSS_REFERENCE /NOMACHINE_CODE /CONTINUATIONS=19

COMPILATION STATISTICS

Run Time: 1.88 seconds
 Elapsed Time: 6.89 seconds
 Page Faults: 131
 Dynamic Memory: 171 pages

