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0002 C Version: 'V04-000'
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0004 C*****
0005 C*
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0023 C*
0024 C*
0025 C*****
0026 C
0027 C
0028 C
0029 C AUTHOR BRIAN PORTER CREATION DATE 11-OCT-1979
0030 C
0031 C Functional description:
0032 C
0033 C Provides the field width for integers and character strings.
0034 C
0035 C Modified by:
0036 C
0037 C v03-001 BP0001 Brian Porter, 24-AUG-1982
0038 C Made 32 bit unsigned numbers work.
0039 C**
0040 C
0041 C
0042 C
0043 C
0044 C INTEGER FUNCTION COMPRESS4*4 (INTEGER4)
0045 C
0046 C
0047 C
0048 C INTEGER*4 INTEGER4
0049 C
0050 C INTEGER*4 INTEGER
0051 C
0052 C
0053 C
0054 C INTEGER = LIB$EXTZV(0,31,INTEGER4)
0055 C
0056 C COMPRESS4 = 1 + INT(LOG10(REAL(MAX(1,INTEGER))))
0057 C
```

COMPRESS4

I 4  
16-Sep-1984 00:18:58  
5-Sep-1984 13:50:26

VAX-11 FORTRAN V3.4-56  
DISK\$VMSMASTER:[ERF.SRC]COMPRESS.FOR;1

```

0058      IF (INTEGER4 .LT. 0) COMPRESS4 = COMPRESS4 + 1
0059
0060      RETURN
0061
0062      END

```

PROGRAM SECTIONS

Name	Bytes	Attributes
0 \$CODE	63	PIC CON REL LCL SHR EXE RD NOWRT LONG
1 \$PDATA	8	PIC CON REL LCL SHR NOEXE RD NOWRT LONG
2 \$LOCAL	24	PIC CON REL LCL NOSHR NOEXE RD WRT LONG
Total Space Allocated	95	

ENTRY POINTS

Address	Type	Name
0-00000000	I*4	COMPRESS4

VARIABLES

Address	Type	Name	Address	Type	Name
2-00000004	I*4	INTEGER	AP-00000004a	I*4	INTEGER4

FUNCTIONS AND SUBROUTINES REFERENCED

Type	Name	Type	Name
I*4	LIB\$EXTZV	R*4	MTH\$ALOG10

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COMPRESSC

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VAX-11 FORTRAN V3.4-56  
DISK\$VM\$MASTER:[ERF.SRC]COMPRESS.FOR;1

COMMAND QUALIFIERS

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

/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: 1.28 seconds

Elapsed Time: 6.94 seconds

Page Faults: 115

Dynamic Memory: 164 pages

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