

NAME

IFLOR – Return the highest INTEGER*4 not greater than a given REAL*8.

SYNOPSIS

RESULT=IFLOR(R)

RESULT is the INTEGER*4 floor of R
R is the REAL*8 value whose floor is to be found

DESCRIPTION

This routine truncates the floating-point argument value to an integer. If that value is greater than R, it subtracts 1 from the integer to ensure that it is not greater than R.

SEE ALSO

ICEIL, which returns the INTEGER*4 ceiling of a REAL*8
IROUND, which returns the INTEGER*4 closest to a REAL*8

LINKAGE

gfortran source.f -L\${HOME}/lib -lmisc

AUTHOR

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EXAMPLE

```
REAL*8 R/3.7D0/  
I=IFLOR(R)  
WRITE(6,901) R,I  
I=IFLOR(-R)  
WRITE(6,901) -R,I  
901 FORMAT(' floor( ',F4.1,' ) = ',I2)  
STOP  
END
```

This example produced the following output:

```
unix[1] a.out  
floor( 3.7)= 3  
floor(-3.7)=-4  
unix[2]
```