dsign() — FORTRAN-like DSIGN() function

Description Syntax Conformability Diagnostics Also see

# Description

dsign(a, b) returns a with the sign of b, defined as |a| if  $b \ge 0$  and -|a| otherwise.

This function is useful when translating FORTRAN programs.

The in-line construction

 $(b \ge 0 ? abs(a) : -abs(a))$ 

is clearer. Also, differentiate carefully between what dsign() returns (equivalent to the above construction) and signum(b)\*abs(a), which is almost equivalent but returns 0 when b is 0 rather than abs(a). (Message: dsign() is not one of our favorite functions.)

## Syntax

real scalar dsign(real scalar a, real scalar b)

## Conformability

dsign(a, b):

<i>a</i> :	$1 \times 1$
b:	$1 \times 1$
result:	$1 \times 1$

## Diagnostics

dsign(., b) returns . for all b.

dsign(a, .) returns abs(a) for all a.

#### Also see

[M-5] sign() — Sign and complex quadrant functions

[M-4] Scalar — Scalar mathematical functions

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