Title

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abs( ) — Absolute value (length)

Syntax Description Conformability Diagnostics Also see

Syntax

real matrix `abs(`*numeric matrix Z*`)`

Description

For Z real, `abs(`Z`)` returns the elementwise absolute values of Z.

For Z complex, `abs(`Z`)` returns the elementwise length of each element. If $Z = a + bi$, returned is `sqrt(`$a^2 + b^2$`)`, although the calculation is not made in that way. The method actually used prevents overflow.

Conformability

`abs(`Z`)`:

Z:	$r \times c$
result:	$r \times c$

Diagnostics

`abs(.)` returns `.` (missing).

Also see

[M-4] **scalar** — Scalar mathematical functions