Title

Re( ) — Extract real or imaginary part

Description   Syntax   Conformability   Diagnostics   Also see

Description

Re(Z) returns a real matrix containing the real part of Z. Z may be real or complex.

Im(Z) returns a real matrix containing the imaginary part of Z. Z may be a real or complex. If Z is real, Im(Z) returns a matrix of zeros.

Syntax

> *real matrix*   Re(*numeric matrix Z*)

> *real matrix*   Im(*numeric matrix Z*)

Conformability

Re(Z), Im(Z):
$$Z: \quad r \times c$$
$$result: \quad r \times c$$

Diagnostics

Re(Z), if Z is real, literally returns Z and not a copy of Z. This makes execution of Re( ) applied to real arguments instant.

Also see

[M-5] **[C( )](C( ))** — Make complex

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

[M-4] **Utility** — Matrix utility functions

For suggested citations, see the FAQ on citing Stata documentation.