isdiagonal() –	 Whether matrix is diagonal 	

Description Syntax Remarks and examples Conformability Diagnostics Also see

Description

isdiagonal(A) returns 1 if A has only zeros off the principal diagonal and returns 0 otherwise. isdiagonal() may be used with either real or complex matrices.

Syntax

real scalar isdiagonal(numeric matrix A)

Remarks and examples

See [M-5] **diag()** for making diagonal matrices out of vectors or out of nondiagonal matrices; see [M-5] **diagonal()** for extracting the diagonal of a matrix into a vector.

Conformability

```
isdiagonal(A):

A: r \times c

result: 1 \times 1
```

Diagnostics

isdiagonal(A) returns 1 if A is void.

Also see

[M-5] diag() — Create diagonal matrix

[M-5] diagonal() — Extract diagonal into column vector

[M-4] Utility — Matrix utility functions

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