## Title

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## 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

stata.com
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

[^0]

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