missing( ) — Count missing and nonmissing values

Description

These functions return the indicated count of missing or nonmissing values.

colmissing(X) returns the count of missing values of each column of X, rowmissing(X) returns the count of missing values of each row, and missing(X) returns the overall count.

colnonmissing(X) returns the count of nonmissing values of each column of X, rownonmissing(X) returns the count of nonmissing values of each row, and nonmissing(X) returns the overall count.

hasmissing(X) returns 1 if X has a missing value or 0 if X does not have a missing value.

Syntax

real rowvector	colmissing(*numeric matrix X*)
real colvector	rowmissing(*numeric matrix X*)
real scalar	missing(*numeric matrix X*)
real rowvector	colnonmissing(*numeric matrix X*)
real colvector	rownonmissing(*numeric matrix X*)
real scalar	nonmissing(*numeric matrix X*)
real scalar	hasmissing(*numeric matrix X*)

Remarks and examples

$$\text{colnonmissing}(X) = \text{rows}(X) \; :- \; \text{colmissing}(X)$$

$$\text{rownonmissing}(X) = \text{cols}(X) \; :- \; \text{rowmissing}(X)$$

$$\text{nonmissing}(X) = \text{rows}(X)*\text{cols}(X) - \text{missing}(X)$$

Conformability

colmissing(X), colnonmissing(X):
          X: $r \times c$
    result: $1 \times c$

rowmissing(X), rownonmissing(X):
          X: $r \times c$
    result: $r \times 1$

missing(X), nonmissing(X), hasmissing(X):
          X: $r \times c$
    result: 1×1

Diagnostics

None.

Also see

[M-5] **editmissing( )** — Edit matrix for missing values

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