

## 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

```
colnonmissing( $X$ ) = rows( $X$ ) :- colmissing( $X$ )
```

```
rownonmissing( $X$ ) = cols( $X$ ) :- rowmissing( $X$ )
```

```
nonmissing( $X$ ) = rows( $X$ )*cols( $X$ ) - 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*:  $1 \times 1$

## Diagnostics

None.

## Also see

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

[M-4] [Utility](#) — Matrix utility functions

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