Title

sizeof( ) — Number of bytes consumed by object

Syntax   Description   Remarks and examples   Conformability
Diagnostics   Also see

Syntax

>   *real scalar*   sizeof(*transmorphic matrix A*)

Description

sizeof(*A*) returns the number of bytes consumed by *A*.

Remarks and examples

sizeof(*A*) returns the same number as shown by mata describe; see [M-3] **mata describe**.

A 500 × 5 real matrix consumes 20,000 bytes:

```
: sizeof(mymatrix)
  20000
```

A 500 × 5 view matrix, however, consumes only 24 bytes:

```
: sizeof(myview)
  24
```

To obtain the number of bytes consumed by a function, pass a dereferenced function pointer:

```
: sizeof(*&myfcn())
  320
```

Conformability

sizeof(*A*):
>   *A*:   *r* × *c*
>   *result*:   1 × 1

Diagnostics

The number returned by sizeof(*A*) does not include any overhead, which usually amounts to 64 bytes, but can be less (as small as zero in the case of recently used scalars).

If *A* is a pointer matrix, the number returned reflects the amount of memory required to store *A* itself and does not include the memory consumed by its siblings.

Also see

[M-4] **programming** — Programming functions