Description   Syntax   Remarks and examples   Conformability   Diagnostics   Also see

Description

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

Syntax

> *real scalar*   sizeof(*transmorphic matrix 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):
$$A: \quad r \times c$$
$$result: \quad 1 \times 1$$

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.

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Also see

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