

sizeof() — Number of bytes consumed by object

Description
Diagnostics

Syntax
Also see

Remarks and examples

Conformability

Description

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

Syntax

real scalar `sizeof(transmorphic matrix A)`

Remarks and examples

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`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

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