

`_transpose()` — Transposition in place

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Description

`_transpose(A)` replaces A with A' . Coding `_transpose(A)` is equivalent to coding $A = A'$, except that execution can take a little longer and less memory is used. When A is complex, A is replaced with its conjugate transpose; see [M-5] [transposeonly\(\)](#) if transposition without conjugation is desired.

Syntax

```
void _transpose(numeric matrix A)
```

Remarks and examples

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In some calculation, you need A'

```
X = ... calculation using A' ...
```

If A is large, you can save considerable memory by coding

```
_transpose(A)
X = ... calculation using A ...
_transpose(A)
```

Conformability

```
_transpose(A):
```

input:

```
A:    r × c
```

output:

```
A:    c × r
```

Diagnostics

`_transpose(A)` aborts with error if A is a view.

Also see

[M-2] [op_transpose](#) — Conjugate transpose operator

[M-5] [transposeonly\(\)](#) — Transposition without conjugation

[M-5] [conj\(\)](#) — Complex conjugate

[M-4] [manipulation](#) — Matrix manipulation