



AHELP for CIAO 3.4

`_reshape`

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Synopsis

Copy an array to a new shape

Syntax

```
Array_Type _reshape (Array_Type A, Array_Type I)
```

Description

The `_reshape` function creates a copy of an array `A`, reshapes it to the form specified by `I` and returns the result. The elements of `I` specify the new dimensions of the copy of `A` and must be consistent with the number of elements `A`.

Example

If `A` is a 100 element 1-d array, a new array 2-d array of size 20 by 5 may be created from the elements of `A` by

```
A = _reshape (A, [20, 5]);
```

In this example, the original array was no longer needed. Hence, it is preferable to make use of the `__tmp` operator to avoid the creation of a new array, i.e.,

```
A = _reshape (__tmp(A), [20,5]);
```

The reshape function performs a similar function to `_reshape`. In fact, the `_reshape` function could have been implemented via:

```
define _reshape (a, i)
{
  a = @a;      % Make a new copy
  reshape (a, i);
  return a;
}
```

See Also

slangrtl

[typeof](#), [array_info](#), [array_map](#), [get_struct_field](#), [length](#), [max](#), [min](#), [reshape](#), [set_struct_field](#), [sum](#),
[transpose](#), [typeof](#), [where](#)

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