Chandra X-ray Center

AHELP for CIAO 3.4   **_reshape**   Context: slangrtl

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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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See Also