Chandra X-ray Center

AHELP for CIAO 3.4   # reshape   Context: slangrtl

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Synopsis

Reshape an array

Syntax

```
reshape (Array_Type A, Array_Type I)
```

Description

The reshape function changes the size of A to have the size specified by the 1−d integer array I. The elements of I specify the new dimensions of A and must be consistent with the number of elements A.

Example

If A is a 100 element 1−d array, it can be changed to a 2−d 20 by 5 array via

```
reshape (A, [20, 5]);
```

However, reshape(A, [11,5]) will result in an error because the [11,5] array specifies 55 elements.

Since reshape modifies the shape of an array, and arrays are treated as references, then all references to the array will reference the new shape. If this effect is unwanted, then use the _reshape function instead.

See Also

slangrtl

_reshape, _typeof, array_info, array_map, get_struct_field, length, max, min, set_struct_field, sum, transpose, typeof, where