



*AHELP for CIAO 3.4*

## sum

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## Synopsis

Sum over the elements of an array

## Syntax

```
result = sum (Array_Type a [, Int_Type dim])
```

## Description

The sum function sums over the elements of a numeric array and returns its result. If a second argument is given, then it specifies the dimension of the array to be summed over. In this case, an array of dimension one less than that of the input array will be returned.

If the input array is an integer type, then the resulting value will be a Double\_Type. If the input array is a Float\_Type, then the result will be a Float\_Type.

## Example

The mean of an array a of numbers is

```
sum(a)/length(a)
```

## See Also

*slangrtl*

[reshape](#), [array\\_info](#), [cumsum](#), [max](#), [min](#), [reshape](#), [shift](#), [transpose](#)

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