



AHELP for CIAO 3.4

## \_\_pop\_args

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## Synopsis

Remove n function arguments from the stack

## Syntax

```
variable args = __pop_args(Integer_Type n);
```

## Description

This function together with the companion function `__push_args` is useful for passing the arguments of a function to another function. `__pop_args` returns an array of n structures with a single structure field called `value`, which represents the value of the argument.

## Example

Consider the following print function. It prints all its arguments to stdout separated by spaces:

```
define print ()
{
  variable i;
  variable args = __pop_args (_NARGS);

  for (i = 0; i < _NARGS; i++)
  {
    () = fputs (string (args[i].value), stdout);
    () = fputs (" ", stdout);
  }
  () = fputs ("\n", stdout);
  () = fflush (stdout);
}
```

Now consider the problem of defining a function called `ones` that returns a multi-dimensional array with all the elements set to 1. For example, `ones(10)` should return a 1-d array of ones, whereas `ones(10,20)` should return a 10x20 array.

```
define ones ()
{
  !if (_NARGS) return 1;
  variable a;
```

```
a = __pop_args (_NARGS);
return @Array_Type (Integer_Type, [__push_args (a)] + 1;
}
```

Here, \_\_push\_args was used to push on the arguments passed to the ones function onto the stack to be used when dereferencing Array\_Type.

## See Also

*slangrtl*

[\\_\\_class\\_id](#), [\\_\\_class\\_type](#), [\\_\\_eqs](#), [\\_\\_get\\_reference](#), [\\_\\_is\\_initialized](#), [\\_\\_push\\_args](#), [\\_\\_nargs](#), [\\_\\_pop\\_n](#),  
[\\_\\_stk\\_roll](#), [\\_\\_typeof](#), [array\\_info](#), [dup](#), [is\\_defined](#), [is\\_struct\\_type](#), [length](#), [pop](#), [typecast](#), [typeof](#)

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[http://cxc.harvard.edu/ciao3.4/\\_pop\\_args.tm.html](http://cxc.harvard.edu/ciao3.4/_pop_args.tm.html)  
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