Subject: Re: Multiple values from a function? Posted by meron on Tue, 04 Jul 2000 07:00:00 GMT

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In article <3961EFA8.49657FB6@mathstat.dal.ca>, Simon de Vet <simon@mathstat.dal.ca> writes:

- > I have a function that does a whole lot (it started out as an
- > independent program). It works very well when returning one of it's
- > calculated arrays.

>

- > It also produces a number of other arrays which I'd like to have access
- > to. Unfortunately, I have discovered that a function can only return
- > one value.

>

- > How can I get the other arrays out of it? The code is intertwined, so it
- > would be hard to break into 2 or 3 independent functions.

>

You can easily return them using keyword parameters. Lets say that your function FUN calculates 3 arrays (internally known as XARR, YARR and ZARR) and returns XARR. Then, modify the definition of the function to something like

```
Fuction FUN, ..., second = yarr, third = zarr
```

....

return, xarr end

Now, if you'll issue a call like

```
u = Fun(...., second = v, third = w)
```

then after the call U will contain the calculated XARR, V will contain YARR, w will contain ZARR. This can be extended indefinitely. Note that neither U not V or W need to be defined at all, prior to the call.

Mati Meron | "When you argue with a fool, meron@cars.uchicago.edu | chances are he is doing just the same"