Subject: Re: Looping over parameters without EXECUTE() Posted by R.Bauer on Mon, 02 May 2005 20:19:18 GMT

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## Dear Wayne

you should have a look on this. Probably you need to add an error handler by catch if not all arguments are used. Or you write a CASE with all tested against n elements.

```
pro doit,p1,p2,p3,p4,p5,p6,p7,p8,p9,p10,p11
 v=ROUTINE info('doit',/param)
 for i=0,v.num_args do $
 print,scope_varfetch(v.args[i])
end
```

The scop varfetch routine was new in 6.1.

cheers

Reimar

Wayne Landsman wrote:

- > The one case where I haven't figured out how to remove EXECUTE() from a
- > program (to allow use with the Virtual Machine) is where one wants to
- > loop over supplied parameters. For example, to apply the procedure
- > 'myproc' to each supplied parameter (which may have different data

```
> types) one can use EXECUTE() to write each parameter to a temporary
> variable:
  **************
 pro doit,p1,p2,p3,p4,p5,p6,p7,p8,p9,p10,p11
>
> :Loop over input parameters
> Np = N_params()
> colname = 'p' + strtrim(indgen(Np)+1,2)
>
> for i=0,Np-1 do begin
    result = execute('p=' + colname[i])
>
    myproc,p
 endfor
  ************
> Is there a way to avoid EXECUTE() here -- say to identify the 4th
> parameter as e.g., $4?
                        Of course, one can always avoid the loop and
> explicitly write out the call for each parameter:
>
```

- > myproc,p1
- > myproc,p2
- > but this probably becomes unreasonable at around 20 parameters.

>

- > One solution is to have the program read an array of pointers rather
- > than multiple parameters. But this has the disadvantages of losing
- > backwards compatibility, as well as making the program somewhat more
- My current default solution is to make a pointer > complicated to use.
- > keyword available and say that data must be passed this way instead of
- > via parameters, if the user wants to use the VM.

> Thanks, --Wayne

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