
Subject: Re: allocating data to different array on each loop step
Posted by [Richard French](#) on Mon, 14 Nov 2005 02:02:34 GMT
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On 11/13/05 8:50 PM, in article
1131933033.894813.142800@z14g2000cwz.googlegroups.com, "snfinder@naver.com"
<snfinder@naver.com> wrote:

```
> Thank you Coyote~ ^^
>
> But If the number of loop step is so large,
>   array1 = *arrays[0]
>   array2 = *arrays[1]
>   ...
>   array24 = *arrays[23]
> this is very unefficient.
>
> I want to excute this automatically.
>
> And I can't know the number of loop step before end of all steps.
> um...ok can find out it if I excute loop twice.....ok..
>
> Thank you ~
>
```

Well, you can use the EXECUTE command if you want to define the variables on the fly:

```
pro arrays
for n=1L,10 do begin
;create arrays of different sizes
    array=findgen(n)#findgen(10*n)
; construct a command to execute, defining the new variable name
    cmd=string(n,format=('"array",10,"=array"'))
    print,cmd
    result=execute(cmd)
endfor
help
end
```

```
IDL> arrays
array1=array
array2=array
array3=array
array4=array
```

```

array5=array
array6=array
array7=array
array8=array
array9=array
array10=array
% At ARRAYS      8 /Users/rfrench/arrays.pro
% $MAIN$
ARRAY      FLOAT   = Array[10, 100]
ARRAY1     FLOAT   = Array[1, 10]
ARRAY10    FLOAT   = Array[10, 100]
ARRAY2     FLOAT   = Array[2, 20]
ARRAY3     FLOAT   = Array[3, 30]
ARRAY4     FLOAT   = Array[4, 40]
ARRAY5     FLOAT   = Array[5, 50]
ARRAY6     FLOAT   = Array[6, 60]
ARRAY7     FLOAT   = Array[7, 70]
ARRAY8     FLOAT   = Array[8, 80]
ARRAY9     FLOAT   = Array[9, 90]
CMD        STRING  = 'array10=array'
N          LONG    =      11
RESULT     INT     =      1

```

Dick French
