
Subject: Re: assign an array to an element in another array

Posted by [Russell\[1\]](#) on Fri, 20 Mar 2015 18:01:13 GMT

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I third the suggestions. There are very few instances where you *actually* want to create a variable dynamically, everything else is where you're doing it wrong. Dick's suggestion of a hash is good if you have the modern versions of IDL (>8) and Matt's is good if you're ok with all the data being the same type. But my suggestion is to make an array of structures.

(1) prototype your data with a structure. Just making it up, I'd say it's like this:

```
foo={FOO,name:0,x:0,y:0,z:0,val:0d,nx:0,ny:0}
```

(2) then make this an array:

```
data=replicate({foo},n)
```

where n is the number of rows in your data set

(3) fill your dataset:

```
openr,lun,'myfile',/get_lun
for i=0,n-1 do begin

    readf,lun,ind,x,y,z,val,nx,ny,f=format

    data(i)={foo,ind,x,y,z,val,nx,ny}
endfor
free_lun,pun
```

you'll need to set the variable "FORMAT" in the readf line to be what you need, but that should be pretty easy.

Now you can access the data like...

```
plot,data.x,data.y,ps=6
```

or some such stuff.

-Russell

On Thursday, March 19, 2015 at 7:37:29 PM UTC-4, luc...@gmail.com wrote:

> Hello

> This is problem I have now,

```

> my data now looks like this
> 10 94 30 63 0.248019426 240 75
> 91 29 24 74 0.177277796 418 98
> 129 27 25 86 0.959739977 268 92
> 140 17 26 85 0.812485863 457 84
> 152 71 20 55 0.384820239 369 83
> 176 68 27 104 0.295040055 211 57
> 196 89 21 79 0.841609784 278 89
> 292 100 28 87 0.547060688 309 96
> 420 58 24 99 0.21125357 311 77
> 459 17 24 84 0.687962261 229 65
> 478 79 23 73 0.811294052 219 96
> 498 65 27 79 0.869434322 447 59
> 573 65 23 89 0.009937773 209 67
> 585 54 21 95 0.074036581 283 103
> 627 76 30 104 0.444237881 275 77
> 636 32 24 93 0.588080971 232 74
> 646 18 20 74 0.206121808 278 104
> 759 23 20 102 0.799160185 276 77
> 763 16 20 81 0.427796559 226 93
> 783 59 30 101 0.416701726 255 79
> 801 66 20 86 0.60898004 346 93
> 832 84 29 58 0.160208725 219 55
> 900 8 23 67 0.872238518 411 92
> 949 91 20 91 0.393444055 490 66
> 997 15 27 82 0.058078121 399 60
>
> I want to create 25 seprate vectors naming them with the forst element of each row... like this
>
> vec10= [94 30 63 0.248019426 240 75]
>
> vec91= [29 24 74 0.177277796 418 98]
>
> vec129= [27 25 86 0.959739977 268 92]
>
> vec140= [17 26 85 0.812485863 457 84]
>
> vec152= [71 20 55 0.384820239 369 83]
>
> vec176= [68 27 104 0.295040055 211 57]
>
> vec196= [89 21 79 0.841609784 278 89]
>
> vec292= [100 28 87 0.547060688 309 96]
>
> vec420= [58 24 99 0.21125357 311 77]
> ...
>

```

> how can I extract this values individually and then add the "VEC" portion to the name?
>
> I have tried "foreach" , I have try to convert them to strings and add them together, and nothing yet.
>
>
> Thank you
>
> -LM*M
