
Subject: using Make_Array in Execute() call

Posted by [Martha-Kusterer-S1C](#) on Fri, 14 Jul 1995 07:00:00 GMT

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Has anyone had experience with calling Make_Array inside an execute call? I am currently forced to use IDL 3.5.1 and need to create a variable containing a variable number of variable sized arrays for which the sizes are not known until run time. I decided to create a structure with a variable number of tags, each of which references a different sized 2-d array. I decided to create the tags using a string and the execute call. I got the call to work when the routines are compiled and run normally, but when I create *.sav file of the compiled routines and try to restore it later, it doesn't work. I will someday update to IDL 4.0 and I will change the code to use handles but that option is not yet open to me.

I have included an example program of how I am creating the structure. I get the feeling that I am doing something illegal in IDL by dynamically creating variables using execute but I thought by calling Make_Array it would be ok.

```
pro arr,varname,typearr
```

```
varname = 'plt_data'  
typearr = '/float'  
ntraces = [14,14,7,3,3]  
npts = [100,100,40,40,40]  
npanels = 5
```

```
ending = strarr(npanels)  
ending(*) = ','  
ending(npanels-1) = '}}'  
t = 'temp'
```

```
arrstr = varname+'={'  
for n=0,npanels-1 do begin  
    num = strtrim(string(n,format="(I2)"),2)  
    ttra = strtrim(string(ntraces(n),format="(I3)"),2)  
    tn = strtrim(string(npts(n),format="(I8)"),2)
```

```
    arrstr = arrstr+'P'+num+':'+make_array(''+ttra+','+tn+typearr+ending( n)
```

```
endfor
```

```
print,'arrstr',arrstr  
status = execute(arrstr)  
help,plt_data,/struct
```

```
print,plt_data.(1)(0,0)
```

RETURN
eND

--More--(93%)

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