
Subject: Re: How to create a varying variable?

Posted by [Paul Van Delst\[1\]](#) on Mon, 06 Oct 2014 15:26:43 GMT

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On 10/06/14 10:13, Madhavan Bomidi wrote:

```
> Hello,  
>  
> I want to create a varying variable, 'varJJJ' as below:  
>  
> varJJJ = FLTARR(nc,nr)  
>  
> Here JJJ = STRING(indgen(101),FORMAT='(I03)')  
>  
> Is this possible? Can anyone have a better suggestion?  
>  
> Thanks in advance,  
> Madhavan
```

First thing that occurs to me is: why?

I'm not trying to be obstreperous, just asking for some context since this sort of request is usually more of a design issue than a language one.

cheers,

paulv

p.s. And, FWIW, Matthew's suggestion using a hash is what I would recommend since you can use the dynamic "JJJ" to access the particular value that you want. E.g.

```
IDL> h=hash()
```

Use string of number:

```
IDL> jjj='101'  
IDL> h[jjj] = findgen(20,10)  
IDL> help, h['101']  
<Expression>  FLOAT    = Array[20, 10]
```

Or use actual number (why convert to string?):

```
IDL> nnn=101  
IDL> h[nnn] = dindgen(14)  
IDL> help, h[101]  
<Expression>  DOUBLE   = Array[14]
```

where, as you can see, `h['101']` and `h[101]` reference different values in the hash.

If you have an older version of IDL (i.e. no hashes) then you could put together something similar using pointer arrays.

All of the plumbing (for either methodology) could then be wrapped up into "Init", "Set" and "Get" functions so your code is protected from the implementation details.
