
Subject: Re: creating variables in a FOR loop

Posted by [Rohit Deshpande](#) on Thu, 02 Feb 2012 14:57:21 GMT

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Sorry, I mean line 5 and not 6.

Thanks,

On Feb 2, 9:53 am, singlebinary <singlebin...@gmail.com> wrote:

> Hello All,

>

> I would like to read in 6 files and associate 6 variables in which to

> store the information. In the code below, I like to create variables

> which names, "m_0, im_1 and so on. However, I get s 'Syntax error' in

> line 6. Please help! Thanks in advance.

>

> 1 PRO CCFs

> 2 files=file_search('*.fits')

> 3 FOR i = 0, n_elements(files)-1 DO BEGIN

> 4 temp = i

> 5 'im_'+strtrim(temp,2) = mrdfits(files[i],0,h)

> 6 ENDFOR

> 7

> 8 END

Subject: Re: creating variables in a FOR loop

Posted by [David Fanning](#) on Thu, 02 Feb 2012 15:07:34 GMT

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singlebinary writes:

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> 8 END

I know you *think* this is what you want to do,
but I seriously doubt it is *really* what you want

to do. I would probably use a pointer array (or list, if you are using IDL 8) to store the images, especially if they were not all the same size. (If they are the same size, an array would be my first choice.)

FUNCTION CCFs

```
files=file_search('*fits', Count=count)
images = PtrArr(count)
FOR i = 0, count-1 DO BEGIN
    images[i] = Ptr_New(mrdfits(files[i],0,h))
ENDFOR
RETURN, images
END

ptr = CCFS()
cglImage, *ptr[3] ; To display the fourth image.
```

END

Cheers,

David

--

David Fanning, Ph.D.
Fanning Software Consulting, Inc.
Coyote's Guide to IDL Programming: <http://www.idlcoyote.com/>
Sepore ma de ni thui. ("Perhaps thou speakest truth.")

Subject: Re: creating variables in a FOR loop
Posted by [wlandsman](#) on Thu, 02 Feb 2012 15:17:26 GMT
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On Thursday, February 2, 2012 9:53:13 AM UTC-5, singlebinary wrote:

```
> 5 'im_'+strtrim(temp,2) = mrdfits(files[i],0,h)
```

This statement does not create a variable but creates a string containing for example "im_1". You can convert a string to a variable with the execute statement

```
status = execute("im_" + strtrim(temp,2) + "= mrdfits(files[i],0,h)" )
```

--Wayne

Subject: Re: creating variables in a FOR loop
Posted by [lecacheux.alain](#) on Thu, 02 Feb 2012 16:13:01 GMT
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On 2 fév, 16:17, wlandsman <wlands...@gmail.com> wrote:

> On Thursday, February 2, 2012 9:53:13 AM UTC-5, singlebinary wrote:

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>

> status = execute("im_" + strtrim(temp,2) + "= mrdfits(files[i],0,h)")

>

> --Wayne

I rather guess that the compiler simply complains because your left hand side does not contain a named variable. You cannot store in it, whatever 'mrdfits' is doing.

Alx.

Subject: Re: creating variables in a FOR loop
Posted by [JDS](#) on Thu, 02 Feb 2012 20:12:37 GMT
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If you really have a good reason for doing this (and I concur with David that it's probably not what you want), you can:

```
(scope_varfetch('im_'+strtrim(temp,2),/ENTER) = mrdfits(files[i],0,h)
```

This is preferable to using EXECUTE, as it will still work in the IDLVM (and is faster).

JD
