
Subject: Re: simple query: including loop variable in filename?

Posted by [Spon](#) on Fri, 14 Sep 2007 11:13:00 GMT

[View Forum Message](#) <> [Reply to Message](#)

On Sep 14, 11:34 am, id6...@googlemail.com wrote:

> Hello Folks,
>
> I'm stranded with server downtime (thankfully with net access!) and
> looking to prepare a start on some IDL; can someone tell me please if
> it's possible to include from a FOR loop the variable we are looping
> over in the filename of some kind of file?
>
> eg;
>
> FOR i=0,1 DO BEGIN
> device, filename='i.jpg'
> plot_image, A
> ENDFOR
>
> so that I can produce filenames 0,1,2..etc.
>
> Thanks,
>
> David.

```
j=STRING(i)+'.jpg'  
DEVICE, FILENAME=j
```

should do the trick

Chris

Subject: Re: simple query: including loop variable in filename?

Posted by [Brian Larsen](#) on Fri, 14 Sep 2007 13:00:59 GMT

[View Forum Message](#) <> [Reply to Message](#)

```
> j=STRING(i)+'.jpg'  
> DEVICE, FILENAME=j
```

This is the right track but not quite what you want. Doing this has a bunch of spaces in the front of the name...

```
IDL> print, string(1)+'.jpg'  
1.jpg
```

I do this all the time but you need to use trim.pro

```
IDL> print, trim(1)+ '.jpg'  
1.jpg
```

You can get it here:

<http://sohowwww.nascom.nasa.gov/solarsoft/gen/idl/string/trim.pro>

Cheers,

Brian

Brian Larsen
Boston University
Center for Space Physics

Subject: Re: simple query: including loop variable in filename?

Posted by [David Fanning](#) on Fri, 14 Sep 2007 13:26:19 GMT

[View Forum Message](#) <> [Reply to Message](#)

Brian Larsen writes:

```
> This is the right track but not quite what you want. Doing this has  
> a bunch of spaces in the front of the name...  
> IDL> print, string(1)+'jpg'  
>    1.jpg  
>  
> I do this all the time but you need to use trim.pro  
> IDL> print, trim(1)+ 'jpg'  
> 1.jpg  
>  
> You can get it here:  
> http://sohowwww.nascom.nasa.gov/solarsoft/gen/idl/string/trim.pro
```

Or...

```
IDL> Print, StrTrim(j,2) + 'jpg'
```

if you just want to do it in IDL with what's under
the hood. :-)

Cheers,

David

--

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

Subject: Re: simple query: including loop variable in filename?

Posted by [David Fanning](#) on Fri, 14 Sep 2007 13:29:54 GMT

[View Forum Message](#) <> [Reply to Message](#)

David Fanning writes:

```
> Or...
>
> IDL> Print, StrTrim(j,2) + '.jpg'
>
> if you just want to do it in IDL with what's under
> the hood. :-)
```

Whoops! That article escaped too soon. Here is an article that goes into more depth on this topic:

http://www.dfanning.com/code_tips/seqfiles.html

Cheers,

David

--

David Fanning, Ph.D.

Fanning Software Consulting, Inc.

Coyote's Guide to IDL Programming: <http://www.dfanning.com/>

Sepore ma de ni thui. ("Perhaps thou speakest truth.")

Subject: Re: simple query: including loop variable in filename?

Posted by [R.G.Stockwell](#) on Fri, 14 Sep 2007 15:32:19 GMT

[View Forum Message](#) <> [Reply to Message](#)

<id6684@googlemail.com> wrote in message
news:1189766081.164014.99750@19g2000hsx.googlegroups.com...

```
>
> Hello Folks,
>
> I'm stranded with server downtime (thankfully with net access!) and
> looking to prepare a start on some IDL; can someone tell me please if
> it's possible to include from a FOR loop the variable we are looping
> over in the filename of some kind of file?
>
> eg;
>
> FOR i=0,1 DO BEGIN
> device, filename='i.jpg'
> plot_image, A
> ENDFOR
```

Others have answered, I just thought I'd add a tip to include a `format='(i3.3)'` command in your string commands, so that you print out the numbers as 001 002 003. That makes alphabetical listings go in order, and a bit more convenient to browse through the files.

Cheers,
bob
