
Subject: Re: [question] on adding strings when reading file names

Posted by [Pepijn Kenter](#) on Tue, 11 Nov 2003 18:31:42 GMT

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cmin wrote:

```
> Hi,
>
> I am new to this IDL group.
> I am trying to read multiple tiff images into my program.
>
> It was quite easy using C. But, since I am new to IDL, I am suffering.
>
> In C, it was something like the following:
> If I was reading frame0.tif, frame1.tif, frame2 ... frame9.tif
> I could run something like "read_frame frame%d.tif " and
> was able to read multiple frames.
>
> /*****
>  read_frame.c
> *****/
> int l, frames;
> char *ifile, ifile1[80];
> FILE *fpr;
>
> for(l=1; l<=9; l++){
>     sprintf(ifile1, ifile, l);
> }
> if(!(fpr=fopen(ifile1, "r"))){
>     printf("cannot open file: %s\n", ifile1);
>     exit(1);
> }
>
> .....
>
>
> I would like to do a similar stuff using IDL, but not quite sure
> how to concatenate the strings.
>
> I hope some one can give me some help.
>
> Thanx.
```

You can use c-style formats in IDL, the syntax is a bit awkward. Try something like this:

```
for i = 1, 10 do begin
    filename=string(format=('%"frame%d.tif"', i)
    print, filename
```

```
    openr, lun, filename, /get_lun
    ; read stuff
    free_lun, lun ; close the file
endfor
```

Pepijn Kenter.

Subject: Re: [question] on adding strings when reading file names
Posted by [Rick Towler](#) on Wed, 12 Nov 2003 18:09:09 GMT
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"Pepijn Kenter" wrote...

> cmin wrote:

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> for i = 1, 10 do begin

> filename=string(format=('%"frame%d.tif"), i)

> print, filename

>

> openr, lun, filename, /get_lun

> ; read stuff

> free_lun, lun ; close the file

> endfor

If you are reading uncompressed TIFF images I suggest using READ_TIFF()
instead of doing it the hard way:

```
for i = 1, 10 do begin
```

```
    filename=string(format=('%"frame%d.tif"), i)
```

```
    print, filename
```

```
    imageData = READ_TIFF(filename)
```

```
endfor
```

-Rick

Subject: Re: [question] on adding strings when reading file names

Posted by [James Kuyper](#) on Wed, 12 Nov 2003 18:40:09 GMT

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Pepijn Kenter wrote:

```
...  
>      filename=string(format=('%"frame%d.tif"', i)
```

I'm a big fan of C, but a more IDLish way of doing the same thing would be:

```
filename = 'frame'+STRTRIM(i,1)+'.tif'
```

Subject: Re: [question] on adding strings when reading file names

Posted by [tianyf_cn](#) on Thu, 13 Nov 2003 01:39:13 GMT

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You can also get a file unit for each tiff file.

```
for i=1, count do begin  
    fname=frame+STRTRIM(i,2)+'.tif'  
    cmdstr='openr, lun'+STRTRIM(i,2)+', fname,/get_lun'  
    isok=execute(cmdstr)  
    ...  
endfor
```

Tian.

James Kuyper <kuyper@saicmodis.com> wrote in message
news:<3FB27E89.A638E8A2@saicmodis.com>...

> Pepijn Kenter wrote:

> ...

>> filename=string(format=('%"frame%d.tif"', i)

>

> I'm a big fan of C, but a more IDLish way of doing the same thing would
> be:

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> filename = 'frame'+STRTRIM(i,1)+'.tif'
