
Subject: Re: Writing to Multiple txt file with different names
Posted by [Jim Pendleton](#) on Tue, 18 Jul 2017 13:40:21 GMT
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On Tuesday, July 18, 2017 at 7:12:18 AM UTC-6, thtr...@gmail.com wrote:

> Hello everybody,
>
> I need to write my data to a bunch of different files, ideally with 'consecutive' names, such as
File 1, File 2, File 3, .. so on (up to thousands of text files)
>
> Here's my attempt:
>
> get_lun, unit
> for i = 1,1000 do begin
> openw, unit, 'File_' + i + '.dat', /get_lun
> printf, unit, 'my data will go in here'
> endfor
>
> IDL keeps saying filename argument must be a scalar string.
> Any help would be appreciated.
>
> Thank you.

Try

```
openw, unit, 'File_' + i.toString() + '.dat', /get_lun
```

or if you're using an older version of IDL,

```
openw, unit, 'File_' + strtrim(i, 2) + '.dat', /get_lun
```

The reason is that when the interpreter sees the "+" and a number, it will up-cast the other arguments in the expression to the highest precedence, rather than converting integers to strings.

Compare and contrast:

```
IDL> i = 10 & help, 'file_' + i + '.dat'
```

```
% Type conversion error: Unable to convert given STRING to Integer.
```

```
% Detected at: $MAIN$
```

```
% Type conversion error: Unable to convert given STRING to Integer.
```

```
% Detected at: $MAIN$
```

```
<Expression>  INT      =      10
```

```
IDL> i = 10 & help, '1' + i + '3'
```

```
<Expression>  INT      =      14
```

```
IDL> i = 10 & help, '1' + i + 30.0
```

```
<Expression>  FLOAT    =    41.0000
```

Jim P
