
Subject: Re: Writing formatted text files

Posted by [John-David T. Smith](#) on Fri, 11 Feb 2000 08:00:00 GMT

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

Liam Gumley wrote:

>

> Bernard Puc <bpuc@va.aetc.com> wrote in message

> news:38A47BCA.884D0CC@va.aetc.com...

>> I'd like to speed-up the following code. I'm writing comma delimited

>> text files, I'm eliminating whitespace by using strtrim, and am

>> explicitly formatting the string using a format keyword. Any ideas how

>> to improve this? I've been playing with various ways of formatting

>> without using a FOR loop but either don't get the desired output or the

>> error message telling me the output string has been truncated to 1024

>> lines.

>>

>> data_to_write = fltarr(3, 100000)

>> FOR j=0, 99999 DO BEGIN

>> PRINTF,Lun,\$

>> strtrim(string(data_to_write[0,j],format='(f10.3)'),2),',',\$

>> strtrim(string(data_to_write[1,j],format='(f10.3)'),2),',',\$

>> strtrim(string(data_to_write[2,j],format='(f10.3)'),2),\$

>> FORMAT = "(a,a,a,a,a)"

>> ENDFOR

>>

>> Output should look like this:

>>

>> 278.980,-232.018,258.090

>> 278.926,-231.974,258.360

>> 278.889,-231.944,241.240

>> 278.852,-231.913,206.900

>> 278.814,-231.883,156.390

>> 278.776,-231.852,93.680

>> 278.739,-231.821,27.799

>> 278.702,-231.791,-33.771

>> 278.664,-231.760,-84.551

>> 278.626,-231.729,-121.161

>

> This doesn't get rid of all the whitespace, but it's simple and quick, and

> the output is easy to read:

>

> arr = findgen(3, 1000) * 0.1

> print, arr, format='(2(f8.3, ","),f8.3)'

>

Try

```
print,FORMAT='(2(f0, ","),f0)',arr
```

It eliminates the whitespace, although you can't control the precision generated (6 digits after the decimal, by default). This "natural width" format isn't documented.

JD

--

J.D. Smith |*| WORK: (607) 255-5842
Cornell University Dept. of Astronomy |*| (607) 255-6263
304 Space Sciences Bldg. |*| FAX: (607) 255-5875
Ithaca, NY 14853 |*|

Subject: Re: Writing formatted text files

Posted by [Liam E. Gumley](#) on Fri, 11 Feb 2000 08:00:00 GMT

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

Bernard Puc <bpuc@va.aetc.com> wrote in message
news:38A47BCA.884D0CC@va.aetc.com...

> I'd like to speed-up the following code. I'm writing comma delimited
> text files, I'm eliminating whitespace by using strtrim, and am
> explicitly formatting the string using a format keyword. Any ideas how
> to improve this? I've been playing with various ways of formatting
> without using a FOR loop but either don't get the desired output or the
> error message telling me the output string has been truncated to 1024
> lines.

>
> data_to_write = fltarr(3, 100000)
> FOR j=0, 99999 DO BEGIN
> PRINTF,Lun,\$
> strtrim(string(data_to_write[0,j],format='(f10.3)'),2),',',\$
> strtrim(string(data_to_write[1,j],format='(f10.3)'),2),',',\$
> strtrim(string(data_to_write[2,j],format='(f10.3)'),2),\$
> FORMAT = "(a,a,a,a,a)"
> ENDFOR

>
> Output should look like this:

>
> 278.980,-232.018,258.090
> 278.926,-231.974,258.360
> 278.889,-231.944,241.240
> 278.852,-231.913,206.900
> 278.814,-231.883,156.390
> 278.776,-231.852,93.680
> 278.739,-231.821,27.799
> 278.702,-231.791,-33.771
> 278.664,-231.760,-84.551

```
> 278.626,-231.729,-121.161
```

This doesn't get rid of all the whitespace, but it's simple and quick, and the output is easy to read:

```
arr = findgen(3, 1000) * 0.1  
print, arr, format='(2(f8.3, ","),f8.3)'
```

Cheers,

Liam.

<http://cimss.ssec.wisc.edu/~gumley>
