
Subject: Re: write plots alternately to two postscripts files
Posted by [Kenneth P. Bowman](#) on Tue, 19 Oct 2010 15:40:30 GMT
[View Forum Message](#) <> [Reply to Message](#)

In article <coednS_IB9t6JCDRnZ2dnUVZ_tWdnZ2d@giganews.com>,
Simon <user@compgroups.net/> wrote:

- > The problem sounds easy, but I do not know where to find the solution.
- > I want to write a program which should create two different postscript files, each having 100+ pages.
- > However I don't want to open, create and close them one after another.
- > It should work like this:
- >
- > Read and process a chunk of data.
- > Add a plot to file 1
- > Add a plot to file 2
- > Read and process new chunk of data
- > add a plot to file 1
- > Add a plot to file 2
- > and so on
- >
- > As the processed data is really large it is not possible to keep it all in memory. So first finish file1 and then create file2 is not an option.
- >
- > Is there any chance to switch between to output files?
- > Any help is appreciated!
- > Simon

Because of the way direct graphics talks to devices, I don't believe that this is possible. If I'm wrong, I expect someone will correct me!

I suggest that you create individual pages as separate files, convert them to PDF, then use an external utility to merge the files into a single PDF.

Unfortunately this does not allow for alternating plots at the individual plot level when you have multiple plots on a page.

Ken Bowman

Subject: Re: write plots alternately to two postscripts files
Posted by [Norbert Hahn](#) on Tue, 19 Oct 2010 16:23:58 GMT
[View Forum Message](#) <> [Reply to Message](#)

"Kenneth P. Bowman" <k-bowman@null.edu> wrote:

- > In article <coednS_IB9t6JCDRnZ2dnUVZ_tWdnZ2d@giganews.com>,
- > Simon <user@compgroups.net/> wrote:

>
>> The problem sounds easy, but I do not know where to find the solution.
>> I want to write a program which should create two different postscript files, each having 100+ pages.
>> However I don't want to open, create and close them one after another.
>> It should work like this:
>>
>> Read and process a chunk of data.
>> Add a plot to file 1
>> Add a plot to file 2
>> Read and process new chunk of data
>> add a plot to file 1
>> Add a plot to file 2
>> and so on
>>
>> As the processed data is really large it is not possible to keep it all in memory. So first finish file1 and then create file2 is not an option.
>>
>> Is there any chance to switch between to output files?
>> Any help is appreciated!
>> Simon
>
> Because of the way direct graphics talks to devices, I don't believe
> that this is possible. If I'm wrong, I expect someone will correct me!

I think you are right.

> I suggest that you create individual pages as separate files, convert them to PDF,
> then use an external utility to merge the files into a single PDF.

Fortunately there is no need to convert PS pages to PDF as you can concatenate them to many jobs in a single file. Usually a PS job starts with %! and ends with ^D (CTRL-D). However, if a printer flushes the input after it encounters ^D, this end-of-job characters have to be deleted in the concatenated file.

Norbert

Subject: Re: write plots alternately to two postscripts files
Posted by [R.G.Stockwell](#) on Thu, 21 Oct 2010 16:25:34 GMT
[View Forum Message](#) <> [Reply to Message](#)

"Kenneth P. Bowman" <k-bowman@null.edu> wrote in message
news:k-bowman-82E27C.10403019102010@news.tamu.edu...
> In article <coednS_IB9t6JCDRnZ2dnUVZ_tWdnZ2d@giganews.com>,
> Simon <user@compgroups.net/> wrote:
>
>> The problem sounds easy, but I do not know where to find the solution.

>> I want to write a program which should create two different postscript
>> files, each having 100+ pages.
>> However I don't want to open, create and close them one after another.
>> It should work like this:
>>
>> Read and process a chunk of data.
>> Add a plot to file 1
>> Add a plot to file 2
>> Read and process new chunk of data
>> add a plot to file 1
>> Add a plot to file 2
>> and so on
>>
>> As the processed data is really large it is not possible to keep it all
>> in memory. So first finish file1 and then create file2 is not an option.
>>
>> Is there any chance to switch between to output files?
>> Any help is appreciated!
>> Simon
>
> Because of the way direct graphics talks to devices, I don't believe
> that this is possible. If I'm wrong, I expect someone will correct me!
>
> I suggest that you create individual pages as separate files, convert them
> to PDF,
> then use an external utility to merge the files into a single PDF.
>
> Unfortunately this does not allow for alternating plots at the individual
> plot level when you have multiple plots on a page.
>
> Ken Bowman

An old fashion way of doing this is to create many single PS files (one for each figure) then create a one page latex file that includes the many PS graphics, and that can be arranged on the page in any way you want, with captions and other annotations.

and, it will create that final combined PS file, if that is required.

cheers,
bob
