
Subject: running code via cron changes image output size
Posted by [Brian McNoldy](#) on Fri, 02 Jun 2017 13:52:40 GMT
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I have been struggling with a very obscure and odd issue. I have code that utilizes the function graphics (map, scatterplot, colorbar, text... nothing weird). I also use the buffer keyword so no windows open.

When I run the code manually in the DE, the image that gets saved (via "m.save,filename,border=5,resolution=100") is 1295x487 pixels. Fine.

I also have the code set to run via a script that can be called by cron. When I run the script myself (via ./run_script.sh), the image that gets saved is 1295x487 pixels. Great.

But when I allow cron to run the same script, the image that gets saved is 1297x488. Why?? I have literally zero ideas why that would make a difference, and I need them to be the same (aside from brute-forcing a resize after-the-fact).

I'd be happy to provide any other details if they're helpful in solving this.

Cheers,
Brian

Subject: Re: running code via cron changes image output size
Posted by [Markus Schmassmann](#) on Fri, 02 Jun 2017 15:41:01 GMT
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On 06/02/2017 03:52 PM, Brian McNoldy wrote:

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> I'd be happy to provide any other details if they're helpful in

> solving this.

I don't know about CRON, but using the BUFFER keyword can change the size, or rather not using it crops it to display size.

Have you tried fixing the graphic size by using

`m=map(.....,DIMENSIONS=[width, height]);` ?

Probably does not solve the underlying problem, but might be sufficient as a workaround.

Another approach, don't set the BORDER keyword of the SAVE method. If the graphic contains different content, setting the BORDER keyword can result in different output sizes, e.g. if the axis labels take up a different amount of space. The reason for that can be that the labels show different numbers (eg 100 vs 10) or use a different font.

By the way, any chance the different sizes could be caused by an environment variable, that is different depending on whether the script is started as a CRON job or directly in the terminal?

I hope one of the above approaches helps, if not more details might be required so we can help you. Unless someone else has an idea....

Good luck, Markus

Subject: Re: running code via cron changes image output size

Posted by [Brian McNoldy](#) on Fri, 02 Jun 2017 16:59:18 GMT

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On Friday, June 2, 2017 at 11:41:03 AM UTC-4, Markus Schmassmann wrote:

> On 06/02/2017 03:52 PM, Brian McNoldy wrote:

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>> code that utilizes the function graphics (map, scatterplot, colorbar,
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> I hope one of the above approaches helps, if not more details might be
> required so we can help you. Unless someone else has an idea....
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> Good luck, Markus

Markus,

I do have a size specified in the initial call to MAP, so that is a constant among all the methods.

I tried removing "border" from SAVE and that seemed to do the trick. Now the image is created at 1303x488 px if I run the code manually or let cron do it. The positions and fonts of everything are hard-coded, so the image should never need to be a different size when it runs.

I'm happy to have a solution, but frustrated to not understand why! :-)

Thank you, Markus!
