

QGIS Application - Feature request #2271  
print composer large format A0

2009-12-11 02:28 PM - Gerhard Spieles

Status:	Closed	
Priority:	Low	
Assignee:	ersts -	
Category:		
Pull Request or Patch supplied:		Resolution: fixed
Easy fix?:	No	Copied to github as #: 12331
Description		
<p>Print composers behavior seems to have a memory lack when printing large format A0.</p> <p>Only part of objects (p.e aerial photos) will be print.</p> <p>If the the amount of data grow up (data intensive raster layers, qgis crash</p>		

History

#1 - 2009-12-12 02:22 AM - Giovanni Manghi

Would you mind give a try to the composer in the developer version of qgis (you can install it trough the osgeo4w installer, is labelled "qgis-dev")? There were major updates in the composer since 1.3 and in the tests I made with a few aerial photos I'm not seeing the same problem. Please leave further feedback, thanks.

#2 - 2009-12-12 05:57 AM - Marco Hugentobler

This is a known problem. It is because rasterlayer keeps the whole image that is printed in virtual memory. In case of A0 and a high resolution, this can be too much (even without leak).

#3 - 2009-12-14 12:11 AM - Horst Düster

Maybe an other option could be to check the "Print as raster" option in the Composer General Tab. Some PS-Printers with limited memory have problems to plot complex PS-Files ( Orthofoto with transparent overlays etc..). With the "Print as Raster" optition your map will be rendered as an image before it is embedded into the PS-File.

#4 - 2009-12-14 12:55 AM - Giovanni Manghi

How big images are we speaking before the composer starts giving problems? I just printed in A0 a 7.5GB image and it worked fine (under linux, qgis trunk).

#5 - 2009-12-22 07:37 AM - Marco Hugentobler

Attached is a work-in-progress patch that draws rasters in tiles of appr. 200 MByte (this can be configured in `[[QgRasterImageBuffer]]::reset()`). It adds a new class `[[QgsRasterImageBuffer]]` that takes care of partitioning the image and the requests to retrieve data from GDAL. So all the partitioning happens transparent to `[[QgsRasterLayer]]`.

In the patch, `[[QgsRasterImageBuffer]]` is only applied in the method `[[QgsRasterLayer]]::drawPalettedSingleBandColor`. But I'm going to change the other ones too once the raster team reviewed the patch (and thinks the approach is ok).

**#6 - 2009-12-26 01:12 PM - Gerhard Spieles**

Hello,  
have installed version 1.4.0 commit:6a4fbd78 (SVN r12620).  
Printing a large format A0 with spatial images and reducing the print quality to 200dpi shows the complete spatial images. The document produced with "Freepdf" printer has 35MB.  
220dpi brings a pdf document with 73MB.  
At 250dpi, nearly 66% of the spatial image are lost.  
At 300 dpi, the complete spatial images are missing.

In all produced pdf-documents, a part of a vector layer is also not printed.(It begins near 1/3 left of the right margin in the pdf-document.)  
A screenshot is attached.

**#7 - 2009-12-28 02:57 AM - Giovanni Manghi**

Replying to [comment:8 gespiel]:

*Hello,  
have installed version 1.4.0 commit:6a4fbd78 (SVN r12620).  
Printing a large format A0 with spatial images and reducing the print quality to 200dpi shows the complete spatial images. The document produced with "Freepdf" printer*

Have you tested a different pdf printer? I cannot replicate your problems under linux as I regularly create 300dpi pdfs with a lot of heavy data.

**#8 - 2010-01-04 02:48 PM - Gerhard Spieles**

Replying to [comment:10 lutra]:

*Replying to [comment:8 gespiel]:  
  
Hello,  
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Printing a large format A0 with spatial images and reducing the print quality to 200dpi shows the complete spatial images. The document produced with "Freepdf" printer  
  
Have you tested a different pdf printer? I cannot replicate your problems under linux as I regularly create 300dpi pdfs with a lot of heavy data.*

Hello,  
I tried it with dopdf v7 also (this printer don't use ghost script) with the same result.

**#9 - 2010-01-05 01:37 PM - Giovanni Manghi**

I just tested one of my big projects (a couple of hundred mb of vectors plus 3/4 gb of rasters) under windows xp sp3 and qgis 1.4. Printed a A0 at 300 dpi with the "primo pdf" driver produced a 50mb pdf file that shows perfectly the print layout.

**#10 - 2010-01-06 11:21 AM - Gerhard Spieles**

Hello,

have tested it again. It seems, that the problem depends what map scale is used.

Attached are jpg-images with the results of two A0 prints. The only difference is the choosen mapscale in the composers item, Map, Scale.

At scale of 1:2500, the complete spatial images are printed. At scale of 1:600, only a part of the spatial images is printed.

**#11 - 2010-01-06 05:48 PM - Giovanni Manghi**

I still see no problems even at very high scales, at least with my data.

**#12 - 2010-01-08 01:59 AM - Marco Hugentobler**

Hi gespiel

Did you work with or without the patch applied?

If without patch: I think it is because current svn version keeps all the image data in virtual memory.

Also: instead of using the PDF printer, you could use the (platform independent) pdf export in composer. Maybe the results are better reproducible on other systems like that.

Marco

**#13 - 2010-01-08 10:48 AM - Gerhard Spieles**

Hi Marco,

have tested the pdf-print icon in the composer.

Using A0-Format, Qgis crashes. (see attached jpg)

I Use qgis 1.5.0-dev, rel. 12704 installed by OS4GeoW.

Does this release contain your patch?

If not, how can I install the patch?

**#14 - 2010-01-21 02:48 AM - Giovanni Manghi**

Replying to [comment:16 gespiel]:

*Hi Marco,*

*have tested the pdf-print icon in the composer.*

*Using A0-Format, Qgis crashes. (see attached jpg)*

*I Use qgis 1.5.0-dev, rel. 12704 installed by OS4GeoW.*

*Does this release contain your patch?*

*If not, how can I install the patch?*

It seems that in commit:6d4e233b (SVN r12810) changes have been made that can help solve your issues. In the next days (maybe already tomorrow) you should be able to install qgis-dev with osgeo4w including this code update. Please give it a try and leave feedback.

#15 - 2010-01-22 11:55 AM - Gerhard Spieles

Replying to [comment:17 lutra]:

Replying to [comment:16 gespiel]:

Hi Marco,

have tested the pdf-print icon in the composer.  
Using A0-Format, Qgis crashes. (see attached jpg)  
I Use qgis 1.5.0-dev, rel. 12704 installed by OS4GeoW.  
Does this release content your patch?  
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It seems that in commit:6d4e233b (SVN r12810) changes have been made that can help solve your issues. In the next days (maybe already tomorrow) you should be able to install qgis-dev with osgeo4w including this code update. Please give it a try and leave feedback.

Hello,

have just installed r1281M and all is good. The pdf-print content the complete spatial images.  
Thank you verry much!!

Gerhard

#16 - 2010-01-22 11:57 AM - Giovanni Manghi

- Status changed from Open to Closed
- Resolution set to fixed

Files

a0printcomposer4.jpg	160 KB	2009-12-11	Gerhard Spieles
091222_raster_patch.diff	13.4 KB	2009-12-22	Marco Hugentobler
091223_qgis_raster.diff	22.4 KB	2009-12-23	Marco Hugentobler
printa0partofvectorlayerismissing.jpg	90.5 KB	2009-12-26	Gerhard Spieles
print_a0_scale-1_2500.jpg	123 KB	2010-01-06	Gerhard Spieles
print_a0_scale-1_600.jpg	107 KB	2010-01-06	Gerhard Spieles
largeprintformat_a0_use_pdf_icon_in_composer.jpg	122 KB	2010-01-08	Gerhard Spieles