

## QGIS Application - Bug report #13439

### QGIS crashes when expanding the home node (gdb debug details provided)

2015-09-27 09:57 PM - Mathieu Pellerin - nIRV

<b>Status:</b> Closed	
<b>Priority:</b> Severe/Regression	
<b>Assignee:</b> Radim Blazek	
<b>Category:</b> Browser	
<b>Affected QGIS version:</b> master	<b>Regression?:</b> No
<b>Operating System:</b> Ubuntu 14.04 LTS	<b>Easy fix?:</b> No
<b>Pull Request or Patch supplied:</b> No	<b>Resolution:</b> Not fixed
<b>Crashes QGIS or corrupts data:</b> Yes	<b>Copied to github as #:</b> 21486

#### Description

Under QGIS master build, the application crashes when trying to expand the home node in the browser panel.

#### Steps to reproduce:

1. Launch QGIS
2. Open the Browser panel
3. Click on the arrow to expand the home node
4. **boom** QGIS dies

#### GDB debug details:

```
#0 0x00007ffffe98eb03d in PDFDoc::isLinearized(bool) () from /usr/lib/x86_64-linux-gnu/libpoppler.so.52
#1 0x00007ffffe98ef58b in PDFDoc::getNumPages() () from /usr/lib/x86_64-linux-gnu/libpoppler.so.52
#2 0x00007ffffe98ef601 in PDFDoc::~PDFDoc() () from /usr/lib/x86_64-linux-gnu/libpoppler.so.52
#3 0x00007ffff1117c38 in ?? () from /usr/lib/libgdal.so.1
#4 0x00007ffff111b1d6 in ?? () from /usr/lib/libgdal.so.1
#5 0x00007ffff111b5a9 in ?? () from /usr/lib/libgdal.so.1
#6 0x00007ffff120bd0c in GDALClose () from /usr/lib/libgdal.so.1
#7 0x00007fff70fb4ec6 in QgsGdalLayerItem::QgsGdalLayerItem (this=0x7fff4005ed50, parent=0x4893510, name=..., path=...,
uri=...,
theSublayers=0x7fff453c3080) at /home/webmaster/dev/cpp/QGIS/src/providers/gdal/qgsgdaldataitems.cpp:48
#8 0x00007fff70fb6843 in dataItem (thePath=..., parentItem=0x4893510)
at /home/webmaster/dev/cpp/QGIS/src/providers/gdal/qgsgdaldataitems.cpp:271
#9 0x00007ffff6385c51 in QgsDataItemProviderFromPlugin::createDataItem (this=0x4952ff0, path=..., parentItem=0x4893510)
at /home/webmaster/dev/cpp/QGIS/src/core/qgsdataitemproviderregistry.cpp:45
#10 0x00007ffff637deb4 in QgsDirectoryItem::createChildren (this=0x4893510) at
/home/webmaster/dev/cpp/QGIS/src/core/qgsdataitem.cpp:833
#11 0x00007ffff637baac in QgsDataItem::runCreateChildren (item=0x4893510) at
/home/webmaster/dev/cpp/QGIS/src/core/qgsdataitem.cpp:385
#12 0x00007ffff6385368 in QtConcurrent::StoredFunctorCall1<QVector<QgsDataItem*>, QVector<QgsDataItem*>
*(QgsDataItem*), QgsDataItem*>::runFunctor (this=0x48da9c0) at /usr/include/qt4/QtCore/qtconcurrentstoredfunctioncall.h:267
#13 0x00007ffff6385237 in QtConcurrent::RunFunctionTask<QVector<QgsDataItem*> >::run (this=0x48da9c0)
at /usr/include/qt4/QtCore/qtconcurrentrunbase.h:106
#14 0x00007ffff5be1dba in ?? () from /usr/lib/x86_64-linux-gnu/libQtCore.so.4
#15 0x00007ffff5beed1c in ?? () from /usr/lib/x86_64-linux-gnu/libQtCore.so.4
#16 0x00007fffedd676aa in start_thread (arg=0x7fff453c4700) at pthread_create.c:333
#17 0x00007ffff4627eed in clone () at ../sysdeps/unix/sysv/linux/x86_64/clone.S:109
```

## History

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### #1 - 2015-09-27 10:03 PM - Mathieu Pellerin - nIRV

Note: as the debug details indicate, the crash has to do with gdal trying to open PDFs. None of the PDFs I have in my home folder are georeferenced. **If I remove all PDFs from my home folder, the crash is gone.**

### #2 - 2015-09-28 11:46 PM - Radim Blazek

Poppler library was not thread safe, it should be fixed, see [https://bugs.freedesktop.org/show\\_bug.cgi?id=50992](https://bugs.freedesktop.org/show_bug.cgi?id=50992).

Can you verify if your version of poppler lib is a fixed and thread safe?

### #3 - 2015-09-29 12:02 AM - Mathieu Pellerin - nIRV

I'm running on Ubuntu Wily, and the libpoppler52 version is 0.33.0-0ubuntu3. Looking at the bug, the fix was merged back in 2013, I'd expect the package in ubuntu circa 2015 to include that fix.

Weird.

### #4 - 2015-09-29 05:25 AM - Radim Blazek

The problems with GDAL/OGR thread safety may appear with various drivers. We should probably add mutex lock to QgsGdalLayerItem and QgsOgrLayerItem.

### #5 - 2015-10-08 03:17 AM - Jürgen Fischer

- Subject changed from browser: *QGIS crashes when expanding the home node (gdb debug details provided)* to *QGIS crashes when expanding the home node (gdb debug details provided)*

### #6 - 2015-11-07 11:26 AM - Giovanni Manghi

- Target version deleted (Version 2.12)

### #7 - 2016-04-07 05:05 AM - Even Rouault

- Status changed from Open to Closed

This is not a problem of thread-safety, but Ubuntu having picked up only one of 2 patches to have support for Poppler  $\geq$  0.31.0 in the GDAL 1.11.X series. See <https://trac.osgeo.org/gdal/ticket/6118> and today <https://trac.osgeo.org/gdal/ticket/6446>

Closing as not a QGIS bug.

### #8 - 2016-04-07 06:52 AM - Piers van der Torren

I experience the same problem, it seems really gdal/libpoppler related, as the gdalinfo also crashes on the same pdf files.

Reported to gdal (with example file): <https://trac.osgeo.org/gdal/ticket/6446>

This bug is solved in GDAL 1.11.3, but not yet in Ubuntu 15.10 packaging. It should be fixed in Ubuntu 16.04.

