

## QGIS Application - Bug report #120

### Click a shape in a shapefile, QGIS crashes

2006-05-18 10:53 PM - acarr-sasktel-net -

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| <b>Status:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Closed            |                                     |
| <b>Priority:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Low               |                                     |
| <b>Assignee:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Marco Hugentobler |                                     |
| <b>Category:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Data Provider     |                                     |
| <b>Affected QGIS version:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                   | <b>Regression?:</b> No              |
| <b>Operating System:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Fedora            | <b>Easy fix?:</b> No                |
| <b>Pull Request or Patch supplied:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                   | <b>Resolution:</b> fixed            |
| <b>Crashes QGIS or corrupts data:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                   | <b>Copied to github as #:</b> 10179 |
| <b>Description</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                   |                                     |
| <p>Computer: Fedora Core 5, 64bit<br/>QGIS from svn, May 12ish<br/>proj and GEOS from repository, GDAL locally compiled, all 64 bit.<br/>QT4 from source<br/>Compilation of QGIS using GCC 3.x, but some libraries used GCC4 (the default).<br/>Steps:<br/>1) Load QGIS<br/>2) Add Vector Layer (choose a shapefile - doesn't seem to matter which, although I was only using polygons...), layer shows on screen.<br/>3) Choose the identify tool, Click on a shape.<br/>4) QGIS crashes:</p> <p>*** glibc detected *** qgis: munmap_chunk(): invalid pointer: 0x0000000000ba4b50 ***</p> <p>h7. Backtrace:</p> <p>/lib64/libc.so.6(+libc_free+0x17a)[0x395d66da1a]<br/>/usr/lib64/libgeos.so.2(_ZN4geos16TopologyLocationD0Ev+0x39)[0x36666931a9]<br/>/usr/lib64/libgeos.so.2(_ZN4geos5LabelD0Ev+0x21)[0x366668de21]<br/>/usr/lib64/libgeos.so.2(_ZN4geos7EdgeEndD2Ev+0x21)[0x3666687011]<br/>/usr/lib64/libgeos.so.2(_ZN4geos13EdgeEndBundleD0Ev+0x75)[0x36666bf295]<br/>/usr/lib64/libgeos.so.2(_ZN4geos17EdgeEndBundleStarD0Ev+0x37)[0x36666bf897]<br/>/usr/lib64/libgeos.so.2(_ZN4geos4NodeD2Ev+0x2e)[0x366668f98e]<br/>/usr/lib64/libgeos.so.2(_ZN4geos10RelateNodeD0Ev+0x17)[0x36666c1157]<br/>/usr/lib64/libgeos.so.2(_ZN4geos7NodeMapD0Ev+0x35)[0x366668fe15]<br/>/usr/lib64/libgeos.so.2(_ZN4geos14RelateComputerD1Ev+0x2e)[0x36666c06ee]<br/>/usr/lib64/libgeos.so.2(_ZN4geos8RelateOpD1Ev+0x28)[0x36666c1878]<br/>/usr/lib64/libgeos.so.2(_ZN4geos8RelateOp6relateEPKNS_8GeometryES3_+0x2f)[0x3666 6c199f]<br/>/usr/lib64/libgeos.so.2(_ZNK4geos8Geometry6relateEPKS0_+0x57)[0x3666668497]<br/>/usr/lib64/libgeos.so.2(_ZNK4geos8Geometry10intersectsEPKS0_+0x70)[0x3666666e00]<br/>/usr/lib/qgis/ogrprovider.so(_ZN14QgsOgrProvider14getNextFeatureEb+0x1cc)[0x2aaa b13d811c]<br/>/usr/lib/libqgis_gui.so.0(_ZN18QgsMapToolIdentify19identifyVectorLayerEP14QgsVectorLayerRK8QgsPoint+0x34d)[0x2aaaaad3a47d]<br/>/usr/lib/libqgis_gui.so.0(_ZN18QgsMapToolIdentify18canvasReleaseEventEP11QMouseEvent+0x9a)[0x2aaaaad3979a]<br/>/usr/lib/libqgis_gui.so.0(_ZN12QgsMapCanvas25contentsMouseEventEP11QMouseEvent+0x3c)[0x2aaaaad200ec]<br/>/usr/local/Trolltech/Qt-4.1.2/lib/libQt3Support.so.4(_ZN12Q3ScrollView25viewport[[MouseEventEP]]11QMouseEvent+0x69)[0x2aaaab846cc9]<br/>/usr/local/Trolltech/Qt-4.1.2/lib/libQt3Support.so.4(_ZN12Q3ScrollView11eventFilterEP7QObjectP6QEvent+0x200)[0x2aaaab848110]<br/>/usr/local/Trolltech/Qt-4.1.2/lib/libQtGui.so.4(_ZN19QApplicationPrivate13notify</p> |                   |                                     |

```
_helperEP7QObjectP6QEvent+0xb6)[0x2aaaac12c736]
/usr/local/Trolltech/Qt-4.1.2/lib/libQtGui.so.4(_ZN12QApplication6notifyEP7QObjectP6QEvent+0x524)[0x2aaaac12dee4]
/usr/local/Trolltech/Qt-4.1.2/lib/libQtGui.so.4[0x2aaaac17b5b2]
/usr/local/Trolltech/Qt-4.1.2/lib/libQtGui.so.4(_ZN12QApplication15x11ProcessEventEP7_XEvent+0x981)[0x2aaaac17a751]
/usr/local/Trolltech/Qt-4.1.2/lib/libQtGui.so.4[0x2aaaac18a98d]
/usr/local/Trolltech/Qt-4.1.2/lib/libQtCore.so.4(_ZN10QEventLoop13processEventsE6QFlagsINS_17ProcessEventFlagEE+0x30)[0x2aaaac833e50]
/usr/local/Trolltech/Qt-4.1.2/lib/libQtCore.so.4(_ZN10QEventLoop4execE6QFlagsINS_17ProcessEventFlagEE+0xa7)[0x2aaaac834157]
/usr/local/Trolltech/Qt-4.1.2/lib/libQtCore.so.4(_ZN16QCoreApplication4execEv+0xbb)[0x2aaaac8362bb]
qgis(main+0x17ab)[0x404d9b]
/lib64/libc.so.6(+libc_start_main+0xf4)[0x395d61d084]
qgis[0x4031a9]
```

h7. Memory map:

|                       |         |          |       |         |                                |
|-----------------------|---------|----------|-------|---------|--------------------------------|
| 00400000-00408000     | r-xp    | 00000000 | 08:01 | 4537304 | /usr/bin/qgis                  |
| 00508000-00509000     | rw-p    | 00008000 | 08:01 | 4537304 | /usr/bin/qgis                  |
| 00509000-00bcb000     | rw-p    | 00509000 | 00:00 | 0       | [heap]                         |
| 3666000000-3666008000 | r-xp    | 00000000 | 08:01 | 794150  | /usr/lib64/libgif.so.4.1.3     |
| 3666008000-3666108000 | ---p    | 00008000 | 08:01 | 794150  | /usr/lib64/libgif.so.4.1.3     |
| 3666108000-3666109000 | rw-p    | 00008000 | 08:01 | 794150  | /usr/lib64/libgif.so.4.1.3     |
| 3666200000-366621f000 | r-xp    | 00000000 | 08:01 | 795733  | /usr/lib64/libpq.so.4.1        |
| 366621f000-366631f000 | ---p    | 0001f000 | 08:01 | 795733  | /usr/lib64/libpq.so.4.1        |
| 366631f000-3666321000 | rw-p    | 0001f000 | 08:01 | 795733  | /usr/lib64/libpq.so.4.1        |
| 3666400000-3666457000 | r-xp    | 00000000 | 08:01 | 791192  | /usr/lib64/libsqlite3.so.0.8.6 |
| 3666457000-3666557000 | ---p    | 00057000 | 08:01 | 791192  | /usr/lib64/libsqlite3.so.0.8.6 |
| 3666557000-3666559000 | rw-p    | 00057000 | 08:01 | 791192  | /usr/lib64/libsqlite3.so.0.8.6 |
| 3666600000-3666706000 | r-xp    | 00000000 | 08:01 | 794950  | /usr/lib64/libgeos.so.2.2.1    |
| 3666706000-3666806000 | ---p    | 00106000 | 08:01 | 794950  | /usr/lib64/libgeos.so.2.2.1    |
| 3666806000-366680f000 | rw-p    | 00106000 | 08:01 | 794950  | /usr/lib64/libgeos.so.2.2.1    |
| 3666f00000-3666f68000 | Aborted |          |       |         |                                |

## History

**#1 - 2006-05-18 11:50 PM - Marco Hugentobler**

My feeling is that this is a 64-bit problem in `[[QgsGeometry]]::geosGeometry()`

**#2 - 2006-08-16 07:16 AM - Tim Sutton**

I have had the same problem before on 32 bit platform. I believe its an issue with GEOS. Which exact version of GEOS was QGIS compiled against?

**#3 - 2006-08-16 11:52 AM - acarr-sasktel-net -**

- Resolution set to fixed

- Status changed from Open to Closed

RPM version. rpm -q returns:  
geos-2.2.1-4.fc5

Obviously, I have the devel package, too, same version.

Could it be derived from a compiler mismatch? I had to use the gcc-compat compiler for QGIS, because the main FC5 compiler failed.

I believe there is a patch floating around. I will retest with the GCC 4 compiler and the current libraries.

It seems to be working now, although I'm not sure on the details of why. The two possibilities which present themselves are:

- 1) Compiler issues between the RPM library (GCC 4.1) and QGIS (GCC 3.x). I can now compile in GCC 4.1, so I have, and it works.
- 2) Some change within QGIS which has corrected the problem by itself.

Thanks for looking into it.

Angus Carr.

**#4 - 2009-08-22 12:46 AM - Anonymous**

Milestone Version 0.8 deleted