# QGIS Application - Bug report #7900 Mass vertex removal with node tool leaks memory

2013-05-25 05:45 AM - Sandro Santilli

Status:	Closed		
Priority:	Normal		
Assignee:			
Category:	Digitising		
Affected QGIS	version:master	Regression?:	No
Operating Syste	em:	Easy fix?:	No
Pull Request or	Patch sulopplied:	Resolution:	fixed
Crashes QGIS of	or corru <b>ptis</b> data:	Copied to github as	<b>#:</b> 16772
Description			
• •	gis to simplify test cases by dropping ver : click on a feature, shift-click-and-drag to		
The procedure is Doing so, I've not The memory grow	click on a feature, shift-click-and-drag to ticed that the memory used by qgis grows ws again as you delete the next chunk of	o select all vertices within an exter s incrementally to the number of ve vertices.	nt, hit the DEL key.
The procedure is Doing so, I've not The memory grow When exiting edit	click on a feature, shift-click-and-drag to	o select all vertices within an exter s incrementally to the number of ve vertices.	nt, hit the DEL key.
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## History

## #1 - 2013-05-28 09:22 AM - Sandro Santilli

Gave valgrind a shot. This time I exited edit mode without saving.

- 11261 789,971 (32 direct, 789,939 indirect) bytes in 1 blocks are definitely lost in loss record 10,522 of 10,523
- 11261 at 0x4C2B1C7: operator new(unsigned long) (in /usr/lib/valgrind/vgpreload\_memcheck-amd64-linux.so)
- 11261 by 0x6E1424: QgsSelectedFeature::updateGeometry(QgsGeometry\*) (qgsselectedfeature.cpp:83)
- 11261 by 0x6E18D1: QgsSelectedFeature::geometryChanged(long long, QgsGeometry&) (qgsselectedfeature.cpp:157)
- 11261 by 0x897D0B: QgsSelectedFeature::qt\_static\_metacall(QObject\*, QMetaObject::Call, int, void\*\*) (moc\_qgsselectedfeature.cxx:64)
- 11261 by 0x972D280: QMetaObject::activate(QObject\*, QMetaObject const\*, int, void\*\*) (in /usr/lib/x86 64-linux-gnu/libQtCore.so.4.8.1)
- 11261 by 0x8544610: QgsVectorLayer::geometryChanged(long long, QgsGeometry&) (moc\_qgsvectorlayer.cxx:337)
- 11261 by 0x8543E7A: QgsVectorLayer::qt\_static\_metacall(QObject\*, QMetaObject::Call, int, void\*\*) (moc\_qgsvectorlayer.cxx:185)
- 11261 by 0x972D280: QMetaObject::activate(QObject\*, QMetaObject const\*, int, void\*\*) (in /usr/lib/x86\_64-linux-gnu/libQtCore.so.4.8.1)
- 11261 by 0x8544D52: QgsVectorLayerEditBuffer::geometryChanged(long long, QgsGeometry&) (moc\_ggsvectorlayereditbuffer.cxx:164)
- 11261 by 0x81C52AA: QgsVectorLayerUndoCommandChangeGeometry::undo() (qgsvectorlayerundocommand.cpp:169)
- 11261 by 0xA2B05B0: QUndoCommand::undo() (in /usr/lib/x86\_64-linux-gnu/libQtGui.so.4.8.1)
- 11261 by 0xA2B0EBE: QUndoStack::setIndex(int) (in /usr/lib/x86\_64-linux-gnu/libQtGui.so.4.8.1)

### #2 - 2013-05-28 09:37 AM - Sandro Santilli

The leak seems unrelated. Instead I found out that if you change selected tool before exiting edit mode, then the leak goes away (but only after exiting edit mode)

### #3 - 2013-05-28 09:38 AM - Sandro Santilli

Nope, I take it back, there's no direct corrispondence between deselecting the nodetool and the leak. It still sometimes happen and sometime not.

# #4 - 2013-05-29 07:10 AM - Sandro Santilli

I believe the memory is used by the undo stack as QgsVectorLayerEditUtils only exposes a function to delete a single vertex so it makes a geometry clone for each removed vertex.

#### #5 - 2013-05-29 07:49 AM - Jürgen Fischer

Sandro Santilli wrote:

I believe the memory is used by the undo stack as QgsVectorLayerEditUtils only exposes a function to delete a single vertex so it makes a geometry clone for each removed vertex.

On rollback it just reverses each operation on the undo stack one by one - and each vertex removal is one geometry change (QgsVectorLayerUndoCommandChangeGeometry). There doesn't seem to be any rollback optimization for consecutive geometry changes.

# #6 - 2013-05-29 07:52 AM - Sandro Santilli

Yep, that's what I figured. Let's leave optimization (making multiple-vertices removal a single operation) for ticket #7929. This ticket remains for the memory leak. Haven't checked if the memory in use is still in the undo stack or where else...

#### #7 - 2013-05-30 12:15 AM - Sandro Santilli

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

commit:59788cb8fcbe86a71397c3046981d00f06c40b00 made this unperceptible (can't see memory growing). So, good job !