

QGIS Application - Bug report #7708

Union produces the wrong output (plus progress bar does not move, too big output, error messages in log)

2013-04-25 12:42 PM - Giovanni Manghi

Status:	Closed	Regression?: Easy fix?: Resolution: fixed Copied to github as #: 16619
Priority:	Severe/Regression	
Assignee:		
Category:	Processing/QGIS	
Affected QGIS version:	master	
Operating System:		
Pull Request or Patch supplied:		
Crashes QGIS or corrupts data:		
Description		
<p>Use the "union" with the two attached shapes "inputA" and "inputB".</p> <p>On master the operation will return a warning</p> <p>Warnings:</p> <p>Feature geometry error: One or more output features ignored due to invalid geometry.</p> <p>GEOS geoprocessing error: One or more input features have invalid geometry.</p> <p>Some output geometries may be missing or invalid.</p> <p>Would you like to add the new layer anyway?</p> <p>even if the two input shapefiles do not have any kind of invalid geometries.</p> <p>The output is missing a whole part belonging to one of the two inputs.</p> <p>This warning does not show on 1.8 and the output <u>seems</u> (I underline the word seems) correct, but I have doubts about it. At least makes more sense than the result obtained on master.</p> <p>On the attributes side the results is wrong since a long ago, see #4567</p>		
Related issues:		
Related to QGIS Application - Bug report # 7823: Vector\\Data management\\Mer...		Closed 2013-05-14
Related to QGIS Application - Bug report # 7428: union progress bar does not ...		Closed 2013-03-24
Related to QGIS Application - Bug report # 4567: Ftools - Union returns Wrong...		Closed 2011-11-25
Related to QGIS Application - Bug report # 8456: Union tool produces wrong re...		Closed 2013-08-12

Associated revisions

Revision 0523e898 - 2013-07-23 03:20 AM - Daniel Vaz

Partial fix #7708

History

#1 - 2013-05-10 03:25 AM - vinayan Parameswaran

some discussions on user mailing list

<http://osgeo-org.1560.x6.nabble.com/Union-Tool-Ftools-Sextante-How-should-the-real-result-be-tp5051653.html>

#2 - 2013-07-15 11:34 AM - Giovanni Manghi

Done again a round of tests, using the attached dataset, on the geometry side:

- the result in master is (still) completely wrong
- in QGIS 1.8 the result is also wrong, but less evident: have a look to a an accepted definition of "union"

<http://resources.arcgis.com/en/help/main/10.1/index.html#//000800000010000000>

and you will see that where features are overlapping, then in the union it is expected to have duplicated feature. In the attached result "union18", produced by QGIS 1.8, there areas where it is supposed to have overlapped/repeated features originating from overlapped parts in the input layers.

#3 - 2013-07-15 11:39 AM - Giovanni Manghi

See this #4567 and #4567-30 for a discussion about the resulting attributes.

#4 - 2013-07-15 11:45 AM - Giovanni Manghi

- *Subject changed from union produces the wrong output on master to Union produces the wrong output (plus progress bar does not move, too big output, error messages in log)*

Files attached to #7428 do show also other issues:

the progress bar does not move, the log full of messages like

Feature geometry not imported (OGR error:)

Feature creation error (OGR error: Pointer 'hFeat' is NULL in 'OGR_L_SetFeature'.
)

and a way too big output, 282MB for 2MB worth of inputs.

See also #7428

#5 - 2013-07-22 06:26 PM - Daniel Vaz

Please see: <https://github.com/qgis/Quantum-GIS/pull/760>

It fix partially this issue

#6 - 2013-07-23 02:27 AM - Giovanni Manghi

Daniel Vaz wrote:

Please see: <https://github.com/qgis/Quantum-GIS/pull/760>

It fix partially this issue

Olá Daniel,
many thanks for your work!

I will test the patch, anyway the result of the union operation is (was) wrong also on qgis 1.8. The the above link (from an esri manual, but it could be other software/gis manual) about a common accepted definition of what the result should be.

#7 - 2013-07-23 08:51 AM - Daniel Vaz

Hi Giovanni, I am glad, in trying to help the QGIS community, in fixing bugs.
Thanks for the link, I need some time to read, comprehend and try to implement a good solution.
I hope that partial fix, may help QGIS users.

Thanks in advance

#8 - 2013-08-08 02:41 AM - Alexander Bruy

Merged. Thanks, Daniel!

BTW, maybe it is better to close this ticket and open another one about incorrect union results?

#9 - 2013-08-08 03:07 AM - Daniel Vaz

Yes, probably it is a good thing open a specific ticket about wrong union results and cite this ticket or move a test data set to the new one.

Thanks in advance

#10 - 2013-08-12 04:26 AM - Alexander Bruy

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

Closing this issue because commit:3e25f11845 "fixes" this tool (it produces now same result as 1.8 and progressbar works fine). New issue about union results is open, see #8456

#11 - 2017-05-01 01:21 AM - Giovanni Manghi

The "ftools" category is being removed from the tracker, changing the category of this ticket to "Processing/QGIS" to not leave the category orphaned.

Files			
union.zip	231 KB	2013-04-25	Giovanni Manghi