

QGIS Application - Bug report #19857

Processing models containing other processing models (aka nested models) cannot be run

2018-09-17 02:25 AM - Olivier Dalang

Status: Closed	
Priority: Normal	
Assignee:	
Category: Processing/Modeller	
Affected QGIS version: 3.3(master)	Regression?: No
Operating System: Windows 10	Easy fix?: No
Pull Request or Patch supplied: No	Resolution:
Crashes QGIS or corrupts data: No	Copied to github as #: 27681
Description	
<p>Hi !</p> <p>When adding a processing model as an algorithm inside another processing model, the parent algorithm cannot be run. This is a shame, as nesting algorithm is a really neat way to break down complex models to more manageable units.</p> <p>The following message appears when trying to execute the algorithm :</p> <p style="padding-left: 40px;">This algorithm cannot be run :-(The model you are trying to run contains an algorithm that is not available: model:A</p> <p>Steps to reproduce</p> <ol style="list-style-type: none">1. Create a processing model (with a vector layer input and layer output)2. Save it.3. Create a second processing model (with a vector layer input, the first algorithm, a layer output)4. Save it.5. Double click on the second processing model from the toolbox. <p>You get the error message.</p> <p>Cheers,</p> <p>Olivier</p>	

Associated revisions

Revision 17326541 - 2018-09-18 09:04 PM - Nyal Dawson

[processing] Add method to attempt to reattach model children to linked algorithms

Refs #19857

Revision cdd72e51 - 2018-09-18 09:04 PM - Nyal Dawson

[processing] Fix use of models as child algorithms in other models

History

#1 - 2018-09-17 09:12 AM - Giovanni Manghi

- *Regression?* changed from *No* to *Yes*
- *Priority* changed from *Normal* to *High*

This works on 2.18, so regression.

#2 - 2018-09-17 02:30 PM - Olivier Dalang

- *Status* changed from *Open* to *Closed*

Hmm testing again, I can't reproduce with the steps described above...

It seemed triggered by saving two models with the same name (which is obviously a bad idea but is doable). I'll try to come up with exact steps to reproduce tomorrow.

#3 - 2018-09-18 02:22 AM - Olivier Dalang

- *Status* changed from *Closed* to *Reopened*

Ok here are the steps to reproduce :

1. Create a processing model
2. Save it with name "test" group "group-1".
3. Create a second processing model (add "test" to the model)
4. Save it.
5. Create a third processing model.
6. Save it with name "test" group "group-2"
5. Double click on the second processing model from the toolbox.

You get the error message.

So it looks like the cause is name clashes in processing models.

Those name clashes are very easy to make, as the group isn't taken into account to set the algorithm id. Adding the group in the id wouldn't be enough, as it's still possible to have two models with same group/name in different files.

Suggested fixes :

- 1/ use group:name as algorithm id instead of just name
- 2/ check before saving if the model id doesn't exist already in an other file
- 3/ when loading algs, display an error message if there is a name clash (showing which file was ignored)

#4 - 2018-09-18 04:05 AM - Nyal Dawson

- *Status* changed from *Reopened* to *In Progress*
- *Regression?* changed from *Yes* to *No*

- Priority changed from High to Normal

#5 - 2018-09-18 09:03 PM - Nyal Dawson

- % Done changed from 0 to 100

- Status changed from In Progress to Closed

Applied in changeset commit:qgis|cdd72e51e5c177093a9060b450599ef5efe7a9fd.