QGIS Application - Bug report #19785
[processing] Scripts with QgsProcessingParameterRange can't be added to Model

2018-09-06 01:36 PM - Luigi Pirelli

Status:	Closed		
Priority:	Normal		
Assignee:			
Category:	Processing/Modeller		
Affected QGIS version:	3.3(master)	Regression?:	No
Operating System:	Linux	Easy fix?:	No
Pull Request or Patch supplied:	Yes	Resolution:	
Crashes QGIS or corrupts data:	No	Copied to github as #:	27610

Description

Any processing script having defined a QgsProcessingParameterRange,
rise exception adding the script to the modeler.

Have this issue to be assigned to Arnoud or Nyall or whatelse?
No idea if this works on previous to Master versions.

premise
The only way I found to setp the range (reversing the code) is defining the parameter in this way:
QgsProcessingParameterRange(
        name=self.INPUT_PCL_S1_INTENSITY_RANGE,
        description=self.tr('PCL intensity range to extract street signs (Strip1)'),
        type=QgsProcessingParameterNumber.Double,
        defaultValue="3000,3200",   <----------
        optional=True
)

  - the exception *******

2018-09-06T13:29:40   WARNING   Traceback (most recent call last):
        File "/home/ginetto/PROGRAMMING/QGIS/QGIS-master/build/output/python/plugins/processing/modeler/ModelerDialog.py",
line 319, in _dropEvent
        self._addAlgorithm(alg, event.pos())
        File "/home/ginetto/PROGRAMMING/QGIS/QGIS-master/build/output/python/plugins/processing/modeler/ModelerDialog.py",
line 783, in _addAlgorithm
        dlg = ModelerParametersDialog(alg, self.model)
        File
"/home/ginetto/PROGRAMMING/QGIS/QGIS-master/build/output/python/plugins/processing/modeler/ModelerParametersDialog.py", line
81, in *init*
        self.setupUi()
        File
"/home/ginetto/PROGRAMMING/QGIS/QGIS-master/build/output/python/plugins/processing/modeler/ModelerParametersDialog.py", line
146, in setupUi
        wrapper = WidgetWrapperFactory.create_wrapper(param, self)
        File "/home/ginetto/PROGRAMMING/QGIS/QGIS-master/build/output/python/plugins/processing/gui/wrappers.py", line 1795, in
create_wrapper
        return WidgetWrapperFactory.create_wrapper_from_class(param, dialog, row, col)
        File "/home/ginetto/PROGRAMMING/QGIS/QGIS-master/build/output/python/plugins/processing/gui/wrappers.py", line 1859, in
create_wrapper_from_class
        return wrapper(param, dialog, row, col)

File "/home/ginetto/PROGRAMMING/QGIS/QGIS-master/build/output/python/plugins/processing/gui/wrappers.py", line 166, in *init*

self.setValue(param.defaultValue())

File "/home/ginetto/PROGRAMMING/QGIS/QGIS-master/build/output/python/plugins/processing/gui/wrappers.py", line 826, in setValue

self.widget.setValue(value)

AttributeError: 'NoneType' object has no attribute 'setValue'

Associated revisions

Revision 1ec36544 - 2018-09-21 09:26 PM - Nyall Dawson

[processing] Port Range parameter widget to new API

Fixes use of range parameters inside models, allowing range
inputs to be used for range parameter values.

Fixes #19785

History

#1 - 2018-09-06 02:13 PM - Luigi Pirelli

can be related to this control?
https://github.com/qgis/QGIS/blob/master/python/plugins/processing/gui/wrappers.py#L815 and following commented lines?

#2 - 2018-09-06 03:51 PM - Luigi Pirelli

Luigi Pirelli wrote:

> *can be related to this control?*
> *https://github.com/qgis/QGIS/blob/master/python/plugins/processing/gui/wrappers.py#L815 and following commented lines?*

seems that only setting:
    def createWidget(self):
        widget = RangePanel(self.parameterDefinition())
        widget.hasChanged.connect(lambda: self.widgetValueHasChanged.emit(self))
        return widget

in wrappers.py solve the problem...

#3 - 2018-09-07 02:10 AM - Nyall Dawson

It seems range parameters have never been supported in models (I gather they aren't widely used yet).

I'd be tempted to defer fixing this until range widget is ported to the newer c++ wrapper API.

#4 - 2018-09-07 09:44 AM - Luigi Pirelli

Nyall Dawson wrote:

> *It seems range parameters have never been supported in models (I gather they aren't widely used yet).*
>
> *I'd be tempted to defer fixing this until range widget is ported to the newer c++ wrapper API.*

Ho my god, I doing the effort to avoid to go back to 2.18 because all have to move to 3.x. And if we do not start, we'll face more issues later than before. My struggle is that I've limited time and I've to process data and in the mean time fix issue... I can see that implementation of range in model is not hard, but it's a matter of time. Other problem is that probably I don't have the general architectural vision of processing classes and I can't figure out why just using the rangewidget shouldn't work in all context... I just tried and it seems working, but I dint't wrote any test...

So your suggestion is to use the two Number parameters instead of range in my algorithms.... I'll try to simplify in this way.

tnx for you suggestion

#5 - 2018-09-07 09:46 AM - Luigi Pirelli

lesson learned... never be core developer in a project that involve you as user... or plan 100% more project time ;)

#6 - 2018-09-07 10:28 AM - Luigi Pirelli

Nyall Dawson wrote:

> *It seems range parameters have never been supported in models (I gather they aren't widely used yet).*
>
> *I'd be tempted to defer fixing this until range widget is ported to the newer c++ wrapper API.*

I'm temped too... the proposed fix above just allow setting parameter in modeler, but does not expose the parameter as possible input in the modeler. Can be considered a "preliminary fix"? I'll move discussion in a PR eventually that can be closed.

#7 - 2018-09-07 02:01 PM - Luigi Pirelli
- Pull Request or Patch supplied changed from No to Yes

prposed PR https://github.com/qgis/QGIS/pull/7825

#8 - 2018-09-07 11:40 PM - Nyall Dawson

Sorry, I wasn't implying that you should do the port (that's my responsibility). I was instead just conveying that it's not a regression in that it's always been broken!

#9 - 2018-09-21 08:19 AM - Nyall Dawson

https://github.com/qgis/QGIS/pull/7972 fixes this, by porting the range wrapper to the new api it correctly allows range inputs to be used for range parameters

#10 - 2018-09-21 08:21 AM - Nyall Dawson

Oops, one last thing -- while https://github.com/qgis/QGIS/pull/7972 fixes most of the issues here, I've noticed that the range parameter widget doesn't correctly allow for optional range parameters. There's no way to set the widget to a "not set" state, so effectively there's no such thing as an optional range parameter. We'll need to address that at some later stage, but I'm not suite sure what a nice way to expose this in the widget itself is....

4/4

#11 - 2018-09-21 09:25 PM - Nyall Dawson

- % Done changed from 0 to 100

- Status changed from Open to Closed

Applied in changeset commit:qgis|1ec365445bd9868391b03e8a3c9ffb48d3653e17.