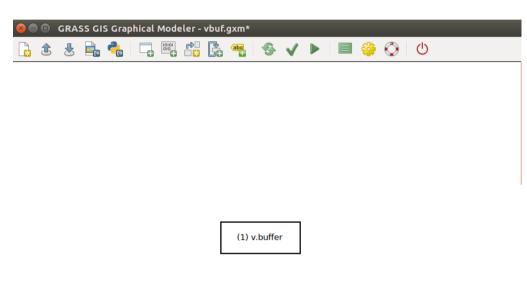
Rozšíření GRASS modeláře

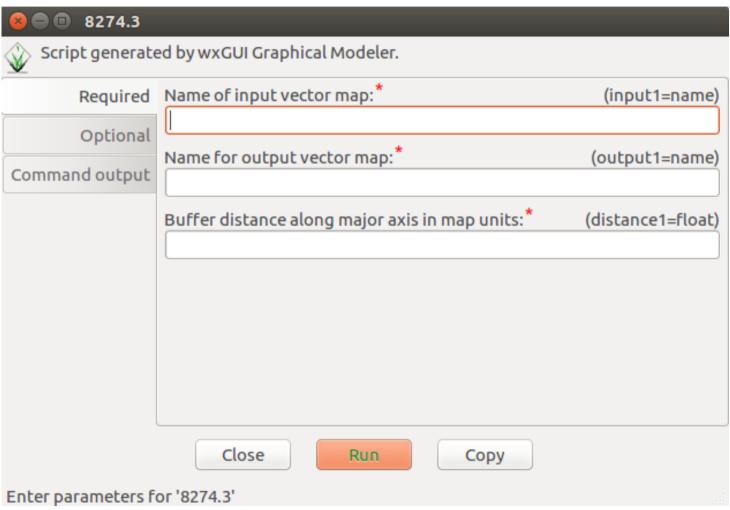
Ondřej Pešek



Model Items | Variables | Python editor | PyWPS editor | Command output |

```
#%module
#% description: Script generated by wxGUI Graphical Modeler.
#%flag
#% key: t1
#% description: Transfer categories and attributes
#%end
#%option
#% key: input1
#% description: Name of input vector map
#% required: yes
#% type: string
#% key desc: name
#%end
#%option
#% kev: output1
#% description: Name for output vector map
#% required: yes
#% type: string
#% key desc: name
#%end
#%option
#% key: distancel
#% description: Buffer distance along major axis in map units
#% required: ves
#% type: double
#%end
```

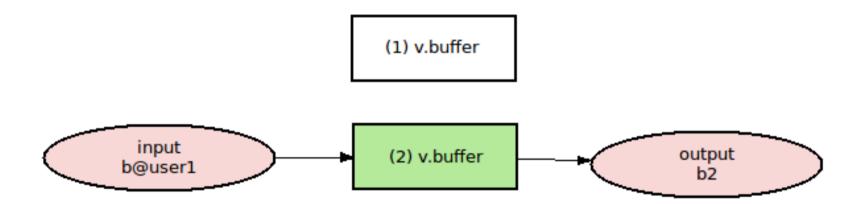
```
□def cleanup():
Learpass
□def main(options, flags):
     run command("v.buffer".
                flags = 's' + getParameterizedFlags(flags, ["t1"]),
                overwrite = True,
                input = options["input1"],
                laver = "-1",
                type = "point, line, area",
                output = options["output1"],
                distance = options["distancel"],
                angle = 0,
                 scale = 1.0,
                 tolerance = 0.01)
     return 0
□def getParameterizedFlags(flags, itemFlags):
 ----fl =-''
  for i in [key for key, value in flags.iteritems() if value == True]:
  if i in itemFlags:
□if name == " main ":
 options, flags = parser()
 atexit.register(cleanup)
     sys.exit(main(options, flags))
```



PyWPS export

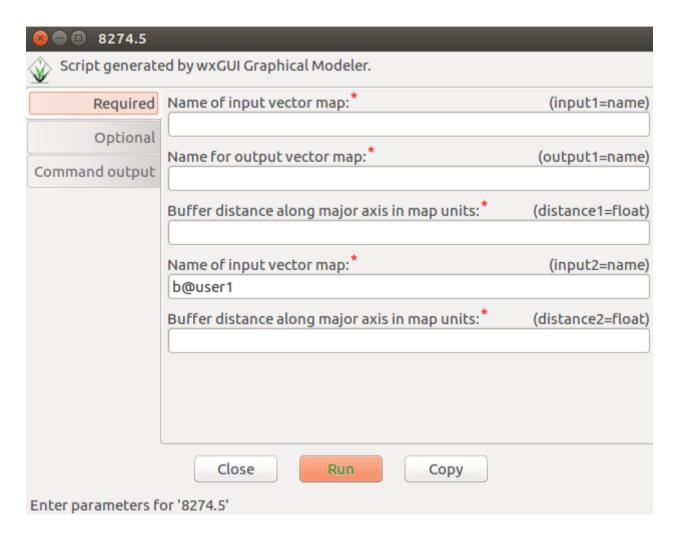
```
PyWPS script
      #!/usr/bin/env.python3
      import sys
      import os
import atexit
      import atexit
from grass.script import parser, run_command
from pywps import Process, LiteralInput, ComplexInput, ComplexOutput
from grass.pygrass.modules import Module
      from pywps.app.Service import Service
    class Model(Process):
def __init__(self):
    inputs = list()
               outputs = list()
               inputs.append(LiteralInput(identifier="tl",
....title="Transfer categories and attributes"
inputs.append(ComplexInput(identifier="input1",
                   title="Name of input vector map"))
               data_type="float")
               title='model'.
                    inputs=inputs.
                    outputs=outputs,
                   abstract='Script generated by wxGUI Graphical Modeler.',
version='1.0',
store_supported=True,
                    status_supported=True)
           @staticmethod
           def _handler(request, response):
               overwrite = 'rue,
input=rquest.inputs["inputl"][0].file,
layer = "-1",
type = "point,line,area",
                        output="output1",
                        distance=request.inputs["distancel"][0].file,
                        angle = \theta,
                        scale = 1.0
                        tolerance = 0.01)
               response.outputs["output1"].file = "output1"
               · return · response
    p if __name__ == "__main__":
```

ANO!



```
#%flag
#% kev: t1
#% description: Transfer categories and attributes
#%option
#% key: input1
#% description: Name of input vector map
#% required: ves
#% type: string
#% key desc: name
#%end
#%option
#% key: output1
#% description: Name for output vector map
#% required: yes
#% type: string
#% key desc: name
#%end
#%option
#% key: distancel
#% description: Buffer distance along major axis in map units
#% required: yes
#% type: double
#%end
#%option
#% key: input2
#% description: Name of input vector map
#% required: ves
#% type: string
#% key desc: name
#% answer: b@user1
#%end
#%option
#% key: distance2
#% description: Buffer distance along major axis in map units
#% required: ves
#% type: double
#%end
```

```
□def main(options, flags):
    run command("v.buffer",
                 flags = 's' + getParameterizedFlags(flags, ["t1"]),
                 overwrite = True.
                 input = options["input1"],
                layer = "-1",
                type = "point, line, area",
                output = options["output1"],
                 distance = options["distancel"].
                 angle = 0.
                 scale = 1.0.
                 tolerance = 0.01)
    run command("v.buffer",
                input = options["input2"],
                 layer = "-1",
                 type = "point, line, area",
                 output = "b2",
                 distance = options["distance2"].
                 angle = 0,
                 scale = 1.0.
                tolerance = 0.01)
     return 0
□def getParameterizedFlags(flags, itemFlags):
    for i in [key for key, value in flags.iteritems() if value == True]:
 if i in itemFlags:
```



```
class Model(Process):
 def init (self):
 ·····inputs = list()
 ·····outputs = list()
d · · · · · · inputs.append(ComplexInput(identifier="input1",
   ..... title="Name of input vector map"))
 .....outputs.append(ComplexOutput(identifier="output1",
 ..... title="Name for output vector map"))
 .....inputs.append(LiteralInput(identifier="distancel",
 title="Buffer distance along major axis in map units",
   · · · · · · · · · data type="float"))
 .....inputs.append(ComplexInput(identifier="input2",
   ····· title="Name of input vector map"))
 .....inputs.append(LiteralInput(identifier="distance2",
 title="Buffer distance along major axis in map units",
 .....data type="float"))
d ..... super(Model, self). init (
 .....self. handler,
 ....identifier='model',
 ·····title='model',
 .....inputs=inputs,
 ····outputs=outputs,
 abstract='Script generated by wxGUI Graphical Modeler.',
 ·····version='1.0',
 .....store supported=True,
 ·····status supported=True)
 ····@staticmethod
def handler(request, response):
d · · · · · · Module("v.buffer",
 flags = 's' + getParameterizedFlags(flags, ["t1"]),
 ·····overwrite = True,
 .....input=request.inputs["input1"][0].file,
 .....layer = "-1",
 .....type = "point, line, area",
 .....output="output1",
 .....distance=request.inputs["distancel"][0].file,
 ....angle = 0,
 ·····scale = 1.0,
 .....tolerance = 0.01)
 ····· Module("v.buffer",
 .....input=request.inputs["input2"][0].file,
 ·····laver = "-1",
 ·····type = "point, line, area",
 .....output == "b2",
 ......distance=request.inputs["distance2"][0].file,
 ·····angle·=·θ,
 .....scale = 1.0,
 ..... tolerance = 0.01)
 ------response.outputs["output1"].file = "output1"
-----return response
```

Děkuji za pozornost

"Neexistují hloupé otázky, pouze hloupé odpovědi."

- Aleš Čepek

- 11. 11. 2014, 8. 3. 2015, 25. 10. 2015, 17. 12. 2015, 5. 10. 2016, 12. 10. 2016, 5. 11. 2016, 12. 12. 2016, 5. 1. 2017