

## MAUS - Bug #1085

### download\_geometry.py fails with filename

01 August 2012 12:44 - Rogers, Chris

<b>Status:</b>	Closed	<b>Start date:</b>	01 August 2012
<b>Priority:</b>	Normal	<b>Due date:</b>	
<b>Assignee:</b>	Littlefield, Matthew	<b>% Done:</b>	100%
<b>Category:</b>	Geometry	<b>Estimated time:</b>	0.00 hour
<b>Target version:</b>	MAUS-v0.4.0		
<b>Workflow:</b>	New Issue		

#### Description

Try:

```
/home/cr67/MAUS/maus_merge/bin/utilities/download_geometry.py -geometry_download_run_number 4065 -
geometry_download_directory ./ -verbose_level 0
```

and the download works okay

Try:

```
mkdir download
```

```
/home/cr67/MAUS/maus_merge/bin/utilities/download_geometry.py -geometry_download_run_number 4065 -
geometry_download_directory ./download -verbose_level 0
```

I get an error like:

```
geometry.zip not a gdml or xml file - ignored
FileList.txt not a gdml or xml file - ignored
Traceback (most recent call last):
  File "/home/cr67/MAUS/maus_merge/bin/utilities/download_geometry.py", line 80, in <module>
    main()
  File "/home/cr67/MAUS/maus_merge/bin/utilities/download_geometry.py", line 70, in main
    gdmls.format()
  File "/home/cr67/MAUS/maus_merge/src/common_py/geometry/GDMLFormatter.py", line 265, in format
    self.insert_materials_ref(self.txt_file)
  File "/home/cr67/MAUS/maus_merge/src/common_py/geometry/GDMLFormatter.py", line 210, in insert_m
aterials_ref
    fout = open(os.path.join(self.path_out, gdmlfile), 'w')
IOError: [Errno 2] No such file or directory: u'./download/./download/FastradModel.gdml'
```

Somehow the download directory is getting appended twice, making an error.

#### History

##### #1 - 14 August 2012 14:31 - Littlefield, Matthew

Hey Chris I don't get this error when I call the download? Only thing I noticed is that I had to put the full path for -geometry\_download\_directory. I'm coming back over to RAL on Fri if you want me to take a look at your machine?

##### #2 - 17 August 2012 12:01 - Rogers, Chris

bzr diff output after fix from Matt:

```
=== modified file 'src/common_py/geometry/GDMLFormatter.py'
--- src/common_py/geometry/GDMLFormatter.py      2012-04-16 13:57:16 +0000
+++ src/common_py/geometry/GDMLFormatter.py      2012-08-17 11:00:49 +0000
@@ -180,7 +180,7 @@
     """
     impl = minidom.getDOMImplementation()
     docstr = 'gdml [<!ENTITY materials SYSTEM "' \
-     + os.path.join(self.path_out, self.material_file) + '">]'
+     + os.path.join(self.material_file) + '">]'
```

```

doctype = impl.createDocumentType(docstr, None, None)
newdoc = impl.createDocument(None, "MAUS", doctype)
config = minidom.parse(os.path.join(self.path_out, gdmlfile))
@@ -207,7 +207,7 @@
    """
    fin = open(inputfile, 'r')
    gdmlfile = inputfile[:-4] + '.gdml'
-   fout = open(os.path.join(self.path_out, gdmlfile), 'w')
+   fout = open(gdmlfile, 'w')
    for line in fin.readlines():
        if line.find('<!-- Materials definition Callback -->')>=0:
            matdef = '<!-- Materials definition Callback -->'

=== modified file 'src/common_py/geometry/GDMLtoMAUSModule.py'
--- src/common_py/geometry/GDMLtoMAUSModule.py      2012-02-15 14:44:16 +0000
+++ src/common_py/geometry/GDMLtoMAUSModule.py      2012-08-17 10:59:49 +0000
@@ -60,6 +60,7 @@
    if fname.find('materials') >= 0:
        found_file = self.path + '/' + fname
        self.material_file = found_file
+       print found_file
        self.material_file_path = os.path.abspath(self.material_file)
    if fname == 'fastradModel.gdml' or fname == 'FastradModel.gdml':
        found_file = self.path + '/' + fname

```

### #3 - 15 October 2012 10:28 - Littlefield, Matthew

- Status changed from Open to Closed
- % Done changed from 0 to 100

### #4 - 05 November 2012 16:51 - Rogers, Chris

- Target version changed from Future MAUS release to MAUS-v0.4.0