

## BornAgain - Bug #246

### PythonAPI: resolve bug with 32bit pointer type generated by Py++

27 Mar 2013 22:23 - pospelov

<b>Status:</b> Archived	<b>Start date:</b> 27 Mar 2013
<b>Priority:</b> High	<b>Due date:</b>
<b>Assignee:</b> pospelov	<b>% Done:</b> 0%
<b>Category:</b>	<b>Estimated time:</b> 0.00 hour
<b>Target version:</b> Sprint 12	
<b>Description</b>	

#### History

##### #1 - 27 Mar 2013 22:24 - pospelov

- Status changed from Backlog to Sprint

##### #2 - 27 Mar 2013 22:24 - pospelov

- Target version set to Sprint 12

##### #3 - 28 Mar 2013 11:00 - pospelov

The problem:

To provide extended fitting from python we have to derive Python classes from C++'s ISampleBuilder. The sample builder parameters are created using ctypes.c\_double and then passes to C++ library, using registerParameter("name",&double) interface from ParameterPool. Py++ generates wrappers for this interface which looks like

```
static void registerParameter( ::ParameterPool & inst, ::std::string const & name, unsigned int parpointer ){
    inst.registerParameter(name, reinterpret_cast< double * >( parpointer ));
}
```

Thus, Py++ thinks that we are on 32bit system and pointer size is equivalent to unsigned int. Solution was to extend couple of Py++ classes and put this into BoostPythonGenerator/MakePyCore.py. The question remains, how to make it working on both, 32bit and 64bit systems.

##### #4 - 28 Mar 2013 11:01 - pospelov

- Status changed from Sprint to Resolved

##### #5 - 11 Apr 2013 10:04 - herck

- Status changed from Resolved to Archived