

Table of Contents

| | |
|--|---|
| Running the Alignment on the Grid..... | 1 |
| Using the Grid..... | 1 |

Running the Alignment on the Grid

Using the Grid

Usually it's not possible to use the Grid for alignment jobs as one want to do multiple iteration with `gaudipariter.py` instead of the standard one iteration with `gaudirun.py` used by default on the Grid. It is possible however to use a trick to run the alignment jobs on the CERN computers of the grid.

- make a python executable that runs `gaudipariter.py` on your options and then make a `.tar.gz` archive out of the `AlignmentResults` folder; for example if your option file is called `alignMC.py`:

```
#!/usr/bin/env python
import os, sys

cmd = 'gaudipariter.py -n3 -p1 -e200000 '+os.getcwd()+'/alignMC.py'

# Run the command
os.system('echo "Here is the command that will run:"')
os.system('echo "'+cmd+'"')
os.system(cmd)

# Compress AlignmentResults
os.system('echo "Compress folder AlignmentResults:"')
os.system('tar -zcvf AlignmentResults.tar.gz AlignmentResults')
```

N.B. always run on only one core (`-p1`) as the Grid currently does not support multithreaded applications.

- make your python script executable: `chmod 755 runAlignment.py` (if your script is called `runAlignment.py`)
- Write a ganga script to submit the job. Notice that if you indicated the PFNs to run over directly in the alignment option file you need to run at CERN.

```
# Setup application
app = GaudiPython(project='Alignment',version='v9r2')
app.script = [ File('runAlignment.py') ]

# Setup Job
j = Job( name='VeloResolution', application=app )
j.name = 'Alignment'
j.inputsandbox += ['alignMC.py']
j.outputfiles += [LocalFile('*.*tar.gz')]
j.backend = Dirac()
j.backend.settings['Destination'] = 'LCG.CERN.ch'
j.submit()
```

-- GiulioDujany - 2014-11-06

This topic: LHCb > AlignmentGrid

Topic revision: r1 - 2014-11-06 - GiulioDujany



Copyright &© 2008-2019 by the contributing authors. All material on this collaboration platform is the property of the contributing authors.

Ideas, requests, problems regarding TWiki? Send feedback