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What are Configurables?

Configurables (sometimes called `ConfigurableUser` depending on context) are classes which can carry out specific tasks aka configure your job. Usually, only one instance of a configurable (i.e. of a `ConfigurableUser` class) exists in one job. They are well described in <https://indico.cern.ch/event/44134/session/2/contribution/58/material/slides/0.pdf> .

How do I run a Configurable?

First import the configurable (in this case Brunel)

```
from Gaudi.Configuration import *
from Configurables import Brunel
```

then create an instance of the class. This will add the effects of the configurable to your job (e.g. Brunel takes in MDF data and creates it in DST format, so by stating `Brunel()` you are stating you want your job to convert MDF data to DST).

```
brunel = Brunel()
```

Then change any variables from the default by referencing them

```
brunel.DataType = "2008"
```

As a whole this file would be very small but perfectly acceptable. It should convert MDF data to DST format when run in the format `gaudirun.py thisfile.py datafile.py`. If `gaudirun.py` cannot be found, check that you have run `SetupProject` correctly:

```
from Gaudi.Configuration import *
from Configurables import Brunel

brunel = Brunel() # Start configurable
brunel.DataType = "2008" # Change any variables from the default
```

-- NathanaelFarley - 27 May 2014

This topic: [LHCb > AnIdiotSGuideToConfigurables](#)

Topic revision: [r1 - 2014-05-27 - NathanaelFarley](#)



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