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Creating a Detector from compact.xml

Creating a compact.xml

- compact.xml is a human readable geometry description for slic. The best way to start is to take an existing compact.xml and modify it to your needs.

Setting up GeomConverter

- a detailed tutorial can be found [here](#)
- go to your GeomConverter directory, for example /usr/sbin/local/GeomConverter/
- build it using maven 2

```
mvn -DskipTests=true clean install
```

- add the bin to your PATH variable

```
export PATH=$PATH:/usr/local/sbin/GeomConverter/target/bin
```

- typing `GeomConverter` will now open a GUI to convert a compact.xml file either to an *.lcmd or a *.heprep file
- as an alternative one can use

```
GeomConverter [-o format] [<infile> [<outfile>]]
```

Creating geometry files and checking for overlaps

- create the .heprep and .lcmd from the compact.xml
- use slic to check the lcmd file for overlaps
 - ◆ create a makro with the following line:

```
/geometry/test/recursive_test
```

- ◆ run slic with the macro

```
slic.sh -g <detectorname>.lcmd -m macro
```

Making the detector known to org.lcsim

- a detailed tutorial can be found [here](#)
- create the file ~/.lcsim/alias.properties
- add the path of your detector definition files (*.lcmd and *.heprep) to alias.properties

```
DETECTORNAME: file:///pathtodetectorfiles/
```

- The path must contain a file named detector.properties which has to contain the following line:

```
name: DETECTORNAME
```
- remember to name your files `DETECTORNAME.heprep`
- sample file for the clic000 detector on the common afs space

-- ChristianGrefe - 26 Feb 2009

This topic: CLIC > CompactXml

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