

Converting to LCDD or HepRep using GeomConverter

Overview

The [SLIC simulator package](#) uses a low-level XML data format while the reconstruction uses a smaller, more targeted format called the "compact description". Using a compact geometry in the simulator requires converting it to LCDD first.

Command Syntax

The full syntax for running GeomConverter is

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

If no output file is specified the GUI will be displayed. If no format is given the format will be guessed based on the output file.

Running the Converter

1. After building GeomConverter, run this command to convert a compact detector file to LCDD.

```
java -jar ./target/bin/GeomConverter-VERSION-bin.jar -o lcdd compact.xml det.lcdd
```

where VERSION corresponds to the build version, e.g. 1.11-SNAPSHOT



Windows Users

Windows users need to run **GeomConverter.bat** from the Windows command prompt instead of the **GeomConverter** script.

Running in SLIC

The output LCDD file *det.lcdd* can be used as input to SLIC, which might look like this.

```
slic -g det.lcdd -z -n
```