

# How do I check the LCDD geometry for errors

There are built-in Geant4 commands for checking the generated geometry for errors.

First load slic in interactive mode.

```
slic -g ./mygeom.lcdd -n
```

Then execute the recursive geometry test, which will find overlapping volumes.

```
Idle>/geometry/test/recursive_test
```

This is generally the most useful test, though any of the commands in the */geometry/test* directory are worth trying.

The command can also be put into a macro file and executed in batch mode.

```
slic -g ./mygeom.lcdd -m overlapCheck.mac &> overlapCheck.txt
```

After slic completes the recursive test, the file *overlapCheck.txt* will contain the full diagnostic output from the command.