First step

Create your python-based soc description, you'll need dsx and <u>SocLib</u> modules:

```
from dsx import *
from soclib import *
```

Always import those two modules in this order or you'll experience some strange import failures.

Task declaration

Then declare some tasks. See <u>DsxTaskModel</u>, <u>DsxTasks</u>, <u>SrlApi</u>

Tcg

Now you can create a Task and Control Graph. See <u>DsxTcg</u>.

Posix Test

Now create a posix version of your application

```
px = Posix()

tcg.generate(px)
```

Compile, test, debug

See <u>DsxPosix</u>.

Create your SoC

See SocCreation?.

Mapping

See <u>DsxMapping</u>.

Compile the simulator, ?

```
muteks = MutekS()
caba = Caba()
mapper.generate( muteks, caba )
```

Run, debug

You may change some flags about <u>MutekS</u>.

You're on your own, use <u>CabaSimulatorFlags</u>, maybe use GtkWave?.