What is grid-control?

grid-control is a versatile user job submission tool, that ...

- runs **arbitrary scripts** (or comfortably runs experiment software)

- supports complex **parameterized / dataset** based jobs

- can retrieve dataset information from many sources, and **partition them along user defined content / metadata boundaries**

- allows to **chain tasks** to create complex **(live)** analysis chains

- submits **local or remote jobs**, leveraging the available submission backends

- is successfully used **since early 2007** by different communities

Technical aspects:

- **Easy steering with ini-style or python config files or via API** that allows to supply site, host or user specific settings

- **Highly modular, easily extendable, coded in python**

- **Tasks can react to changes in the parameter space** (eg. new user parameters or expanding/shrinking datasets)

- **It routinely manages single user tasks with O(10,000) jobs**

- **Plugins enable integration of experiment specific functionality**

- **CMS experiment integration: direct support of CMSSW jobs,** DBS/PhEDEx, dashboard monitoring – cmsenv is optional

- **Very easy to deploy – no external dependencies except for** CPython 2.3-3.5 or pypy (useful for **long term analysis** efforts)