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)