

### **Autosubmit**

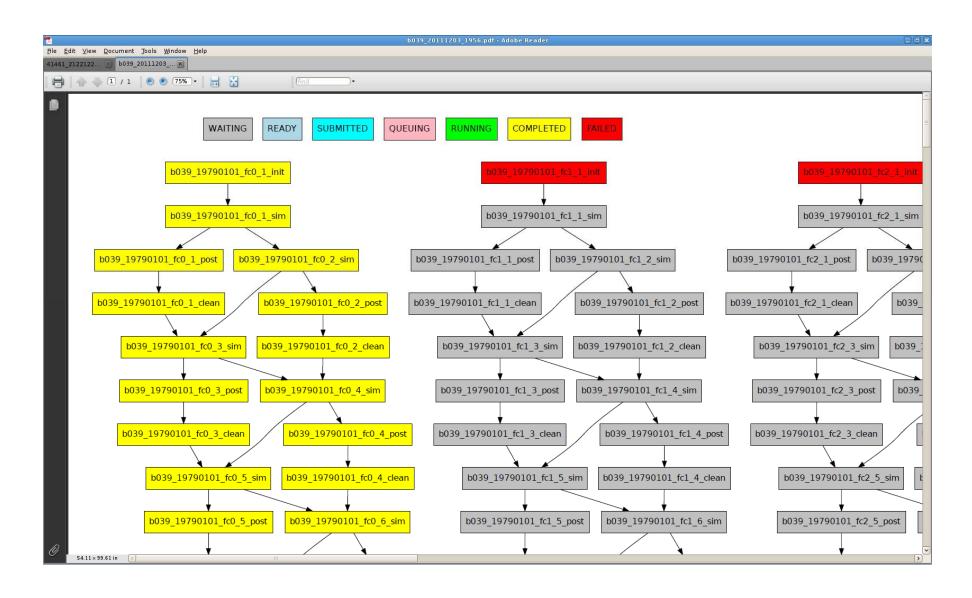
From present to future

#### **Current Version**

- Autosubmit is a tool to create, manage and monitor experiments (currently EC-Earth, NEMO and IFS)
- It manages a table in SQLite to store name, type and description of the experiment
- It submits and monitors jobs with different queue schedulers:
  - SLURM BSC
  - □ SGE IC3
  - PBS HECToR

# Climate Forecasting Unit

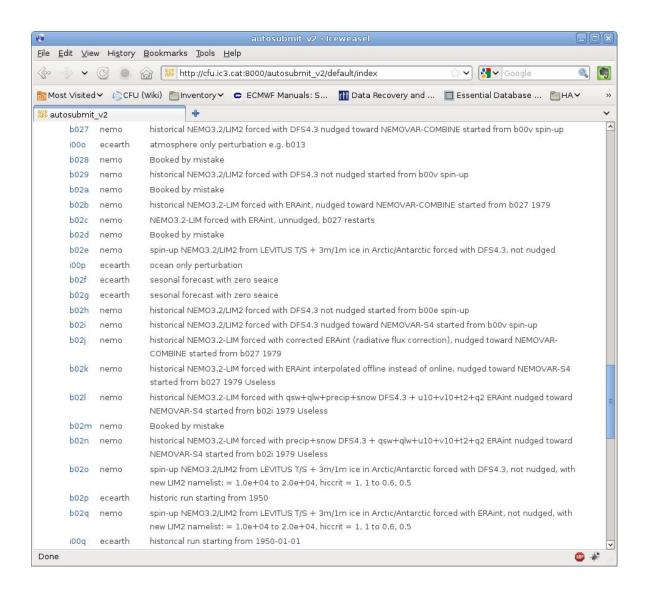
## Monitoring





## Climate Forecasting Unit

### View of the experiment database



#### Drawbacks

- Difficult to compare experiments: tool needed
- Few information stored in the database
- All jobs have to run in the same platform
- Experiment creation (job dependencies) are hardcoded
- Too tied off to (EC-Earth, NEMO and IFS) experiments

### **Future**

- Integration of other PRACE platforms using e.g. <u>SAGA API</u> (next two months)
- Submit different jobs from same experiment to different platforms (next two months)
- Wrapper (meta-scheduler) for ensemble jobs that allows to submit one job with several tasks (e.g. several members) in it (next six months, only tested with toy model)
- Web front for experiment creation and control (next twelve months)
- Database design based on METAFOR project (next twelve months)