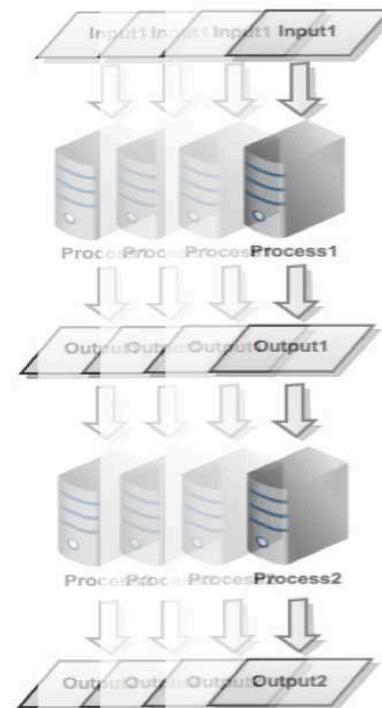


Advanced Grid Jobs II – Multicore Jobs



Outline

- ❑ Multicore jobs & Challenges
- ❑ OpenMP Example



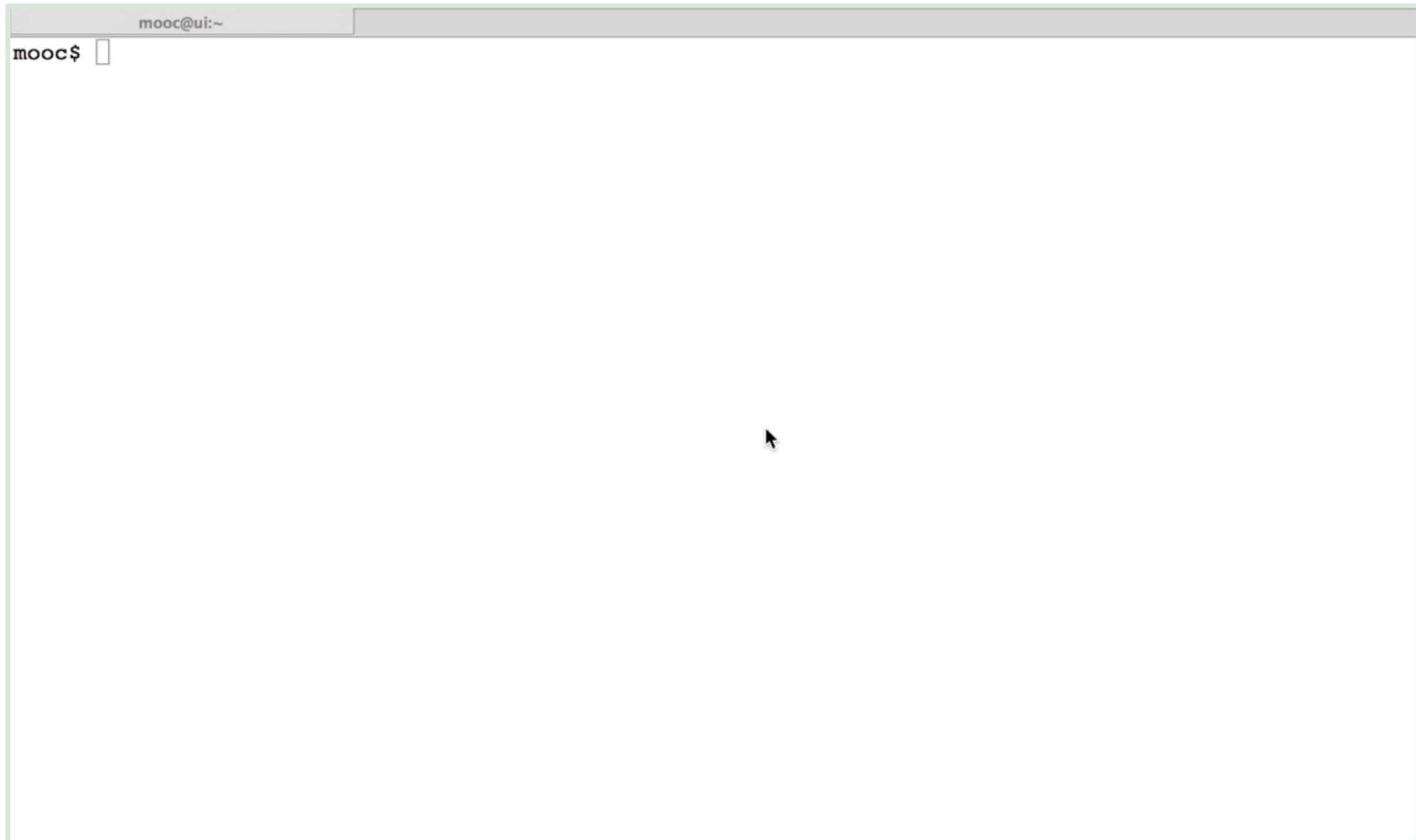
Multi-core jobs

- ❑ **Faster results when the application supports it**
 - Keep run time below MaxWallClockTime
- ❑ **Support memory intense applications**
- ❑ **Better I/O performance**

Multi-core jdl

- ❑ CPUNumber
- ❑ SMPGranularity

Multicore submit



Multicore output

```
mooc@ui:~/moo...ples/9_multicore
- gb-ce-nki.els.sara.nl:8443/cream-pbs-express
- gb-ce-nki.els.sara.nl:8443/cream-pbs-long
- gb-ce-rug.sara.usor.nl:8443/cream-pbs-express
- gb-ce-rug.sara.usor.nl:8443/cream-pbs-long
- gb-ce-tud.ewi.tudelft.nl:8443/cream-pbs-express
- gb-ce-tud.ewi.tudelft.nl:8443/cream-pbs-long
- gb-ce-wur.els.sara.nl:8443/cream-pbs-express
- gb-ce-wur.els.sara.nl:8443/cream-pbs-long

=====

mooc$ glite-wms-job-submit -d $USER -o /home/mooc/moocexamples/jobIDs pi.jdl
Connecting to the service https://wms2.grid.sara.nl:7443/glite_wms_wmproxy_server

===== glite-wms-job-submit Success =====

The job has been successfully submitted to the WMPProxy
Your job identifier is:

https://wms2.grid.sara.nl:9000/t4uLO6p0omRSOuYEHifnlw

The job identifier has been saved in the following file:
/home/mooc/moocexamples/jobIDs

=====

mooc$ █
```