

36 CEs reporting to use LSF in production

- biggest sites CERN and CNAF
- Also smaller sites like GSI
- LSF 6.1 and 6.2

Current version: LSF 7.0.1

CERN wants to upgrade. Why ?

- LSF 6.1 oldish, support overhead for getting patches
- better scalability
- ego frame work (will not be used from the beginning)
- better multicore CPU support
- need to upgrade master HW anyway

antaeus.hpcc.ttu.edu
ce03-lcg.cr.cnaf.infn.it
ce05-lcg.cr.cnaf.infn.it
ce06-lcg.cr.cnaf.infn.it
cmsrm-ce01.roma1.infn.it
egceaix.frascati.enea.it
egce.frascati.enea.it
grid001.ts.infn.it
grid002.ca.infn.it
grid012.ct.infn.it
grid13.gsi.de
gridce2.pi.infn.it
gridce.pi.infn.it
lcg-ce.gsi.de
prod-ce-01.pd.infn.it
t2-ce-01.Inl.infn.it
t2-ce-01.roma1.infn.it
t2-ce-02.Inl.infn.it

ce101.cern.ch:2119
ce102.cern.ch:2119
ce106.cern.ch:2119
ce107.cern.ch:2119
ce108.cern.ch:2119
ce109.cern.ch:2119
ce112.cern.ch:2119
ce113.cern.ch:2119
ce114.cern.ch:2119
ce115.cern.ch:2119
ce116.cern.ch:2119
ce117.cern.ch:2119
ce118.cern.ch:2119
ce119.cern.ch:2119
ce120.cern.ch:2119
ce121.cern.ch:2119
ce122.cern.ch:2119
ce123.cern.ch:2119

Differences and resulting implications:

- output format in case of failures has changed,
eg. the message “batch system daemon not responding” is now configurable by default one gets “LSF is down. Please wait ...” or “LSF is processing your request. Please wait ” in batch system queries.
=> parsing the output of these commands may break
- command exit codes changed: bjobs returns 255 if no job is found
- programs using the API must be recompiled/linked

Tests:

- test machines for users available now at CERN (different instance) via lxplus99[8,9]
- PPS CE **ce110** submits to this instance (SLC4/64bit WN, LCG like)
- lsb.events and lsb.acct files did not change -> log file parser seems to work
- APEL needs to be tested