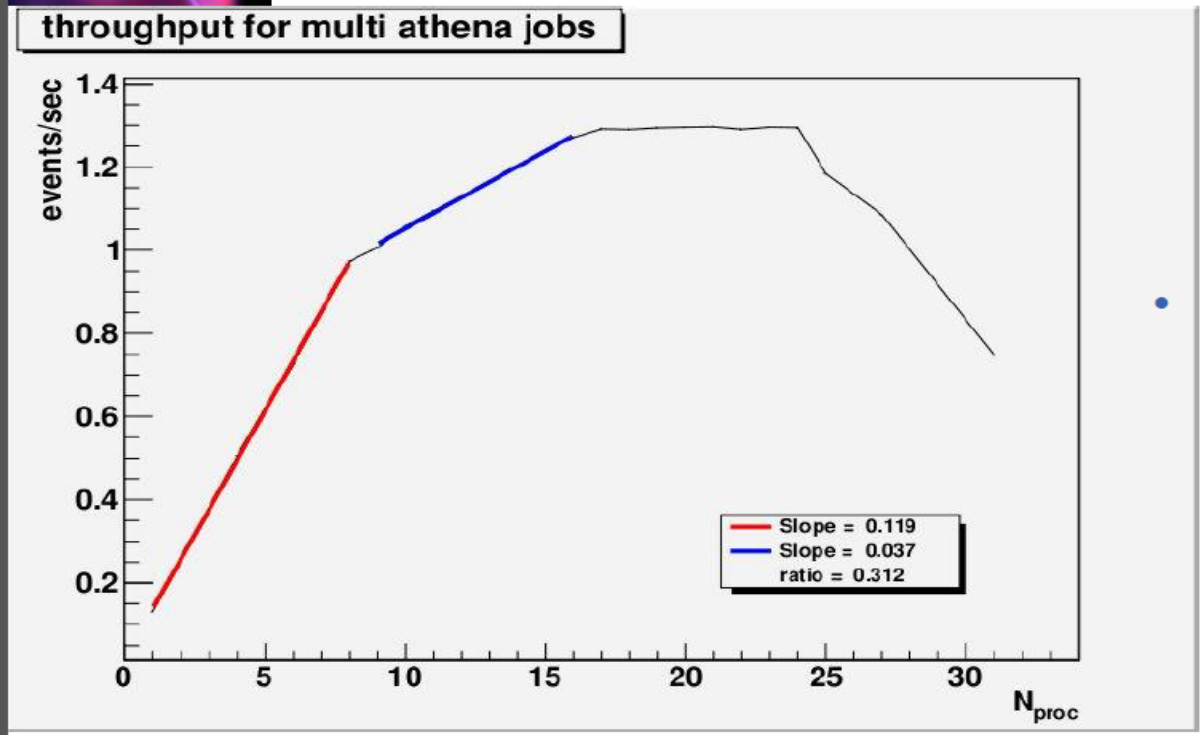
Presented by A. Di Girolamo (March12) : No change

ES Memory requirements (for high pileup MC12)

CERN IT Department

MC12: with high pileup expected in 2012, there will be jobs which need vmem > 3.5GB : since ATLAS has observed that some batch system kills jobs when exceeding vmem, we ask sites to have limits on vmem of 4GB. SWAP should be set to 2*RAM size. Physical memory requirement not changed (2 GB).
Of course ATLAS should define the task with the right requirements, brokering hungry jobs to properly configured queues.



- Test machine:
  - 8 core Xeon E5530 @ 2.4 Ghz with hyperthreading
  - 24 GB of memory (24GB swap)
  - RAW to ESD data with low pileup data from 2011 (on local HD)
- up to 24 jobs can run in parallel with almost 100% CPU utilization, with more jobs machine start swapping. Athena is able to run in event loop within about 1GB of physical mem per job: new high pileup MC samples may need to full address space of 4GB but can fit into less real memory during event loop