



CycleCloudSM: Leading HPC & HTC for Sciences on the Cloud

Today's research typically requires access to High Performance Compute (HPC) clusters to do real science, and getting time on clusters can be costly and cumbersome. CycleCloud delivers provisioned Condor clusters in the Cloud. Our fully secured and encrypted grids fully protect confidential data, give clients their own cluster, then turns it off when they are done.

CycleCloud uses the same Condor grid technology used by Fortune 100 companies, research labs like Fermi, Brookhaven, and CERN (LHC) to help users get computations done quickly. As opposed to buying hardware that won't be 100% utilized, CycleCloud:

- Offers hundreds of CPUs available in minutes, rather than weeks or months.
- Bills only for compute time that you use for running workflows
- Removes the upfront & ongoing costs for compute hardware, data center space, power and administration of the cluster
- Runs pools configured for BLAST, R, and other applications
- Lowers the time to get calculations done. In the Cloud:
1 machine running 100 hours = 100 machines running 1 hour

Use Case: Mass Spectrometer Simulation

We were contacted by a scientist interested in running a mass spectrometer simulation. Traditionally this several thousand compute hour job took several weeks on an internal Condor pool, but now it needed to be done in time to submit for a conference. Running the same workflow on CycleCloud took the run-time from several weeks to less than a day.

Use Case: BLAST as a Service

A pharmaceutical company came to Cycle about running BLAST and other applications in the cloud. Processing BLAST databases and query jobs is time consuming on their internal grid. After they approved our security model, we built a processing pipeline for BLAST that provides 7000+ public databases from NCBI, Ensembl, & ISI that are updated weekly.

Our CycleCloud BLAST service is now publicly available to all users.

Want big grids quickly to run big workflows, without the big costs?

In minutes, CycleCloudSM delivers HPC clusters without power, data center, and people costs.



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