Computational Analytics

Tangible Analysis With Data Driven Results.

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Tools

Python, JavaScript, Spark, R, Latex, Keras, HTML

Applications

Visualizations

Dasboard and Web Devlopment

Machine Learning

Software Development

Statistical Analysis

Dashboards

Computing

Computational Analytics offers cloud storage, web site hosting, interactive web dashboards and charts, interactive and parallel computing resources that have up to 44 core and 88 threads available for customer use as scheduled. All cores are on a single board and therefore talk time loss between cores is negligible. Large server banks suffer from network talk time between machines. Parallel programming is performed with MPI, Spark, or the SparkR library. Computing time is leased and scheduled. Our current computing infrastructure offers up to 125 Gig of memory and 1 Tb of swap space. This equates to the ability to perform in-memory computations on data vectors up to 1Tb in size. Interactive web applications can access all computing resources and are interfaced using Shiny and SparkR.

- Shiny web application demo.
- HighCharts demo.
- D3 HeatMap demo.

Hardware Resources

- Cloud data storage, web site hosting, and interactive application hosting.
- Intel® Xeon(R) CPU E5-2696 v4 @ 2.20GHz with parallel computing resources up to 44 cores and 88 threads.
- GeForce GTX 1070/PCIe/SSE2 graphics card.
- Up to 20 Tb of cloud storage.
- Up to 125 Gig of RAM, 1 Tb of solid state swap space.
- Access supported by business class high speed internet.

Current Running Software Resources

- Ubuntu 16.04 LTS
- R
- Apache2
- Python
- Keras
- Spark
- Tensor Flow
- MCNP 6.0
- Team Viewer
- Plotly
- HighCharts
- D3

Cost

Parallel Computing Run Time

- $20.00 per hour with a 8 hour minimum purchase.

Application Hosting

- Hosting service up to 10 applications or web pages is $9.99 per month.
- Hosting service up to 25 applications or web pages with custom domain name is $39.99 per month.
- Hosting service with unlimited applications or web pages and custom domain name is $99.99 per month.

Data Storage

- $.99 per Gigabyte per month.