

# Frontier<sup>®</sup> Enterprise Computing Platform

Save Money, Save Time, and Do More With Your Existing IT Infrastructure.

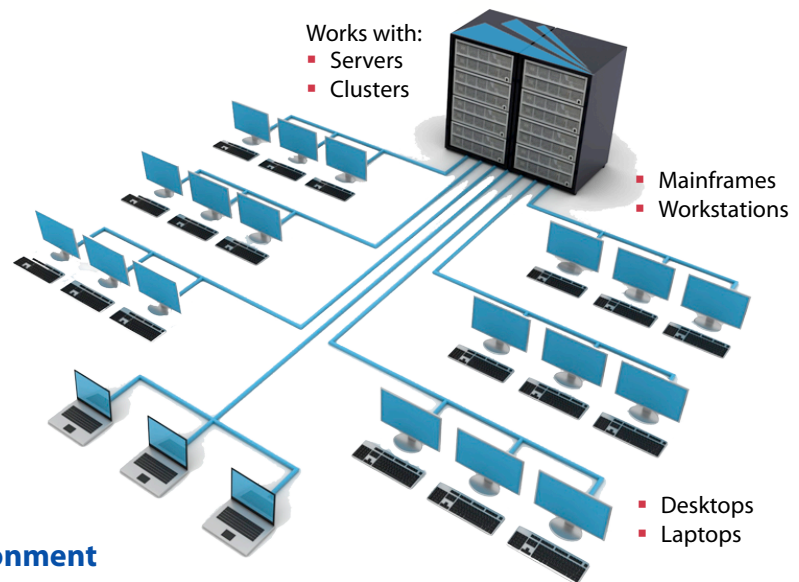
## What Is Frontier?

Parabon's **Frontier** enterprise computing platform is a turn-key, commercial off-the-shelf (COTS) software solution that harnesses the computational capacity of existing IT resources to provide dynamically provisioned cloud services, extreme-scale grid computing capacity, and system-wide resource profiling.

Secure, OS-agnostic and unobtrusive, Frontier delivers a full range of Software, Infrastructure, and Platform as a Service technologies, allowing users to **save money**, **save time**, and **do more!**

## New! Frontier CODE<sup>™</sup> Collaborative Online Development Environment

Frontier CODE provides **Platform as a Service** tools such as online version control, cloud-based editing, and project management features to create highly productive code-centric communities.



## Increase ROI with Frontier

- Industry numbers show that the majority of enterprise computers operate at only 10% capacity; by harnessing the other 90%, Frontier enables you to do more with the IT assets you already own.
- Frontier's total cost of ownership is less than 5% of comparably-powered computing hardware.
- Frontier avoids the power, space and cooling issues that accompany dedicated hardware environments.
- Frontier's throughput accelerates as infrastructure is upgraded through normal "tech refresh" cycles.
- Frontier CODE<sup>™</sup> provides a rich set of tools to facilitate the rapid development of grid and cloud applications, greatly enhancing productivity.



The enterprise *is* the datacenter

[www.parabon.com](http://www.parabon.com)

## Frontier's Key Features

- **Integrated VM Management:** Users can programmatically launch grid jobs or instantiate cloud services to auto-provisioned VMs.
- **Rock-Solid Security:** Frontier has multiple layers of built-in safeguards, making it the most secure enterprise computing platform on the market.
- **Service Orientation:** Frontier comes with a complete services stack (XaaS) that includes Infrastructure, Platform, and Software as a Service technologies.
- **Extreme Scalability:** Frontier is used to manage infrastructures ranging from small lab deployments to large networks comprised of 10,000+ computers — without affecting normal enterprise operations.
- **Proven Reliability:** Launched in 2000, Frontier manages the largest and longest continuously running online computing service in the world.
- **NEW! Enhanced Productivity:** Frontier CODE<sup>™</sup> Collaborative Online Development Environment provides a Platform-as-a-Service development model.
- **NEW! Apache<sup>™</sup> Hadoop<sup>™</sup> Integration:** Distributed filesystem support helps tackle Big Data problems.

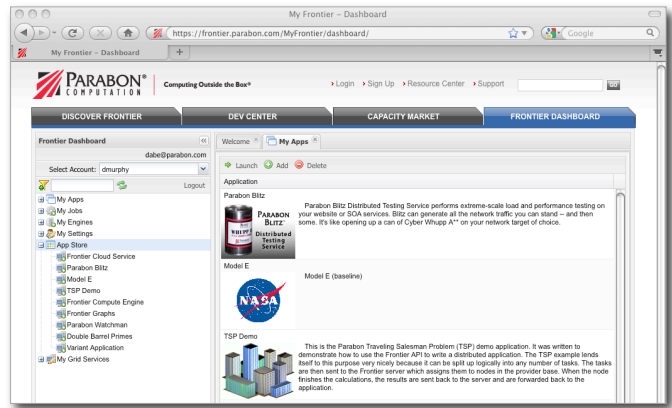


Computing Outside the Box<sup>®</sup>

## Why Frontier?

Frontier Enterprise can deliver immediate benefits to you and your organization. With Frontier you can:

- **Dramatically Reduce Current Processing Times.** By aggregating computational capacity across potentially thousands of computers, Frontier can reduce the processing time of large workflows by several orders of magnitude.
- **Solve Problems Previously Considered Intractable.** With its easy access to powerful, on-demand computation and integrated Hadoop filesystem, Frontier enables users to “think big,” and solve problems never before thought possible.
- **Maximize the ROI of Existing IT Resources.** Frontier creates a utility computing service using the existing computational capacity of your enterprise, so you can avoid costly hardware expenditures.
- **Increase Productivity.** The Frontier CODE development environment makes it easy for developers and end-users to collaborate effectively on projects hosted entirely on Frontier.



The **Frontier Dashboard** is a full-featured interface that allows you to select apps from the App Store, launch jobs, instantiate cloud services, monitor usage, or get results — all from any standards-compliant web browser.

### Deploy Frontier Anywhere:

- Windows Desktops
- Linux HPC Clusters
- Mac OS X Workstations
- Solaris Servers
- Public, Private, and Hybrid Clouds

## Government Users of Frontier



**Predictive Modeling:** Mining massive genomics datasets to create statistical models that predict human physical traits from sample DNA.



**Communications Simulation:** Creating a service to test communications protocols for the telecommunications industry.



**Big Data Analytics:** Working within the U.S. Intelligence Community on extreme-scale ETL (Extract, Transform, Load) problems.



**Decryption:** Frontier-enabled decryption service for law enforcement personnel throughout the country.



**Modeling & Simulation:** Deployed Frontier on NASA's Nebula Cloud to perform climate modeling across NASA desktops.



**Health-Care Data Mining:** Developing a service-based suite of applications for finding biomarkers associated with different diseases.

## Domains Well-Suited for Frontier

Users worldwide have already tapped the power of the Frontier Platform for:

### Data-Heavy Applications:

- Data mining
- Predictive modeling
- ETL – Extract, Transform, Load

### Compute-Intensive Processing:

- Modeling & simulation
- Evolutionary optimization
- Sensor placement optimization
- DNA Nanotechnology

### Distributed Command and Control:

- Distributed Denial of Service (DDoS) testing
- Vulnerability analysis
- Network monitoring

And many more!

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