rescale

RESCALE PLATFORM OVERVIEW

The first intelligent automation platform
For hybrid and multi-cloud big compute

Real Business Outcomes

IT and R&D teams use Rescale HPC automation to achieve:

- » Accelerated Time-To-Market
- » Decreased R&D Costs
- » Reduced Risk

Accelerating R&D Breakthroughs Across Industries

Aerospace

Automotive

Semiconductor

Energy

Higher Education

Life Sciences

Manufacturing

Government

Welcome to Software-Defined Big Compute

High Performance Computing (HPC) used to start from hardware selection, followed by software tuning, with a focus on high utilization. Today HPC leaders can start from the software, running each on specialized architecture to meet cost & performance objectives. To accomplish this, organizations need to securely automate hybrid and multi-cloud operations with intelligent policy-based controls.

From Compute-Constrained to Compute-Empowered

Rescale brings intelligent automation to applications, workflows, and infrastructures across hybrid cloud to deliver new levels of performance, control and R&D empowerment.

Performance & Efficiency
Optimize the full HPC stack with HW and SW-aware performance and cost intelliegence.

Key Features

- » Full-stack economics management with continuous performance optimization
- » Software license queuing & software license management
- » Multiple price/performance service levels

Key Benefits

- » Run 20%+ more simulations on the same budget
- » Financial flexibility with lower maintenance and staffing burden
- » Faster time-to-answer

Control at Scale
Define enterprise-wide policies to scale and standardize operations and meet business needs.

Key Features

- » Full-stack security with policy-based security management
- » Comprehensive visibility with policy-based financial and architectural controls
- » Service continuity with capacity bursting & fanout across hybrid and multi-cloud

Key Benefits

- » Reduced risk of service outage affecting critical R&D efforts
- » Ensure critical projects are allocated the appropriate resources
- » Reduced risk of data loss & theft

Empowered R&D
Enable collaboration and simplify infrastructure to commercialize new innovations faster.

Key Features

- » Computational workflow automation with simulation data sharing
- » User and application-centric experience with automated HW matching
- » Full-stack professional support with application expertise

Key Benefits

- » Faster time-to-market of new innovations
- » Higher quality & more competitive products
- » R&D resources focused on innovation and higher R&D talent retention

END-TO-END HPC CONTROL AND INTELLIGENCE

Fully control and optimize your scale-out applications on any infrastructure

- Rescale API
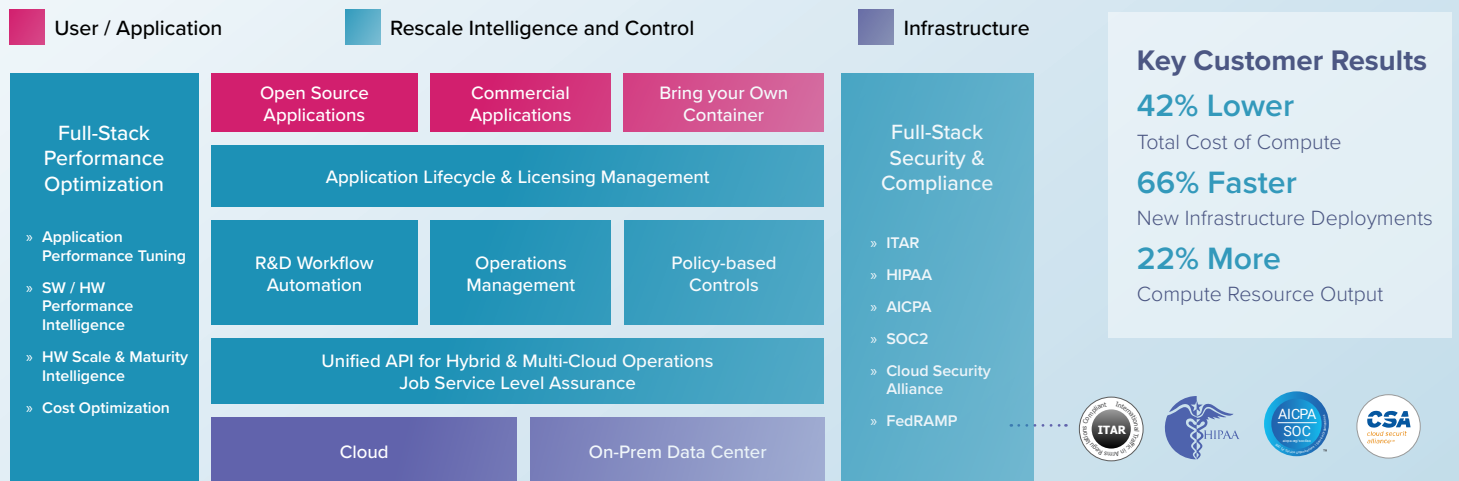- Workload Intelligence
- Operational Workflows
- R&D Workflows

DASSAULT SYSTÈMES · SIEMENS · MATLAB · Ansys · COMSOL · HEXAGON · MSC Software · OpenVFOAM · LAMMPS · EDEM · STAR-CCM+ · esi · NUMECA · GROMACS · SIMULIA ABAQUS · CONVERGE CFD SOFTWARE · AVL FIRE® · cādence · LS-DYNA · Mentor Graphics · orcina · TensorFlow · VMD · KEYSIGHT TECHNOLOGIES · MOLDFLOW · blender · ALTAIR · WRF · OpenMC · RECURDYN · MixIT · jupyter

Rescale optimizes
700+ HPC applications on the
latest specialized architectures

Azure · aws · Google Cloud · AMD · intel · NVIDIA

Rescale Automates Applications and Hybrid Cloud Infrastructures to Deliver a Modern HPC Experience

■ User / Application   ■ Rescale Intelligence and Control   ■ Infrastructure

Full-Stack Performance Optimization

» Application Performance Tuning
» SW / HW Performance Intelligence
» HW Scale & Maturity Intelligence
» Cost Optimization

Open Source Applications | Commercial Applications | Bring your Own Container

Application Lifecycle & Licensing Management

R&D Workflow Automation | Operations Management | Policy-based Controls

Unified API for Hybrid & Multi-Cloud Operations
Job Service Level Assurance

Cloud | On-Prem Data Center

Full-Stack Security & Compliance

» ITAR
» HIPAA
» AICPA
» SOC2
» Cloud Security Alliance
» FedRAMP

ITAR · HIPAA · AICPA SOC · CSA Cloud Security Alliance

Key Customer Results

42% Lower
Total Cost of Compute

66% Faster
New Infrastructure Deployments

22% More
Compute Resource Output

"DENSO runs cloud-based high performance computing at scale, and we are always investigating ways to optimize performance and cost savings. Rescale's data-driven control plane approach helps us complete our simulation jobs faster than ever, while remaining very cost-effective."

- Nate Moss, Senior CAD Analyst, DENSO

DENSO

rescale

Headquarters
33 New Montgomery St., Suite 950
San Francisco, CA 94105

Contact Us
+1-855-737-2253
sales@rescale.com

About Rescale
Rescale helps organizations accelerate science and engineering breakthroughs by eliminating complexity. From supersonic jets to personalized medicine, industry leaders accelerate new product innovations with unprecedented speed and efficiency with the Rescale Platform - a solution for intelligent full-stack automation for big compute and R&D collaboration on hybrid cloud. Rescale enables IT leaders to deliver high performance computing as a service, with software automation on a hybrid cloud control plane with security, architecture, and financial controls. Learn how you can modernize high performance computing at Rescale.com

www.rescale.com