GUROBI
OPTIMIZATION

GUROBI 13.0

Where Speed
Meets Innovation

Get more solving power with MIP and MINLP speed improvements,
PDHG with GPU acceleration, local nonlinear optimization, and
Kubernetes autoscaling.

Gurobi 13.0

Gurobi 13.0 delivers even more performance enhancements, with new ways to solve—including our Primal-Dual Hybrid Gradient (PDHG) implementation with support for CPUs and GPUs,* designed to tackle extremely large LPs quickly.

For continuous nonlinear optimization problems, a new nonlinear barrier method for computing locally optimal solutions is now supported, offering significant speed-ups for many real-world applications.**

Performance Improvements

As always, Gurobi continues to push the boundaries of solver speed and efficiency. Initial benchmarks show that Gurobi 13.0 users can expect notable speed-ups compared to version 12.0, particularly for MIP and MINLP models.

Algorithm	Speed-Up
MIP (> 100s)	15.9%
MINLP (> 1s)	2.5x

In addition to these performance enhancements, Gurobi 13.0 introduces enhanced tools for heuristics, callbacks, solution pools, and Kubernetes autoscaling.

*Beta feature: These features are not yet intended for production use. Support is provided on a best-effort basis.

**Preview feature: These features are fully tested and supported, but may change significantly (including breaking changes in API, behavior or packaging) in future technical or major releases.

Gurobi Optimizer

- **Faster Core Solver:** Experience on average ~16% faster solves on difficult MIP models and over 2X faster on non-trivial MINLPs.
- **PDHG Implementation:** Solve giant LPs faster, with CPU and GPU support available.
- **New Nonlinear Barrier Method:** Get locally optimal solutions for nonlinear problems in even less time.
- **Improved Heuristics:** Speed up decision making with enhancements to NoRel (now with variable hints and new stopping controls) that can help you find better solutions, faster.
- **Smarter Tools:** Leverage new nonlinear functions, callback improvements, solution pool attributes, and multi-objective reporting.

Gurobi Cluster Manager and Compute Server

- **Autoscaling of Compute Server Clusters:** Automatically scale Gurobi Compute Server deployments on Kubernetes based on job queue metrics and node utilization.
- **Accessibility Improvements:** Experience a more user-friendly, accessible web interface with the Cluster Manager's alignment to WCAG 2.1 AA standards.
- **Security Improvements:** Work securely and confidently. Compute Server and Cluster Manager now support a TLS 1.3–only cipher policy, ensuring all communications meet the latest TLS standards.

Experience the Power of Gurobi for Yourself

Try Gurobi free for 30 days, including:

- ✓ Free benchmarking services
- ✓ Free model tuning services
- ✓ Free access to our world-class technical guidance and support
- ✓ Gurobot, our AI-powered expert agent that can help you troubleshoot, explore modeling options, and optimize more efficiently

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