



GUROBI 11.0

Every Solution, Globally Optimized

Experience global nonlinear solving, speed enhancements, dynamic distributed tuning, and enterprise features.

OUR LATEST RELEASE

Gurobi 11.0

With Gurobi 11.0, you can quickly identify precise, globally optimal solutions to complex nonlinear problems. This advancement marks a significant step forward in solving real-world nonlinear problems with Gurobi.

Additionally, this new version delivers a key enhancement to our popular tuning tool, enabling teams to share resources across multiple users and jobs when tuning. Moreover, the Cluster Manager features single sign-on capabilities for streamlined integration into enterprise software stacks.

Performance Improvements

As with every major Gurobi release, users will experience a boost to Gurobi's industry-leading solver speed. Compared to Gurobi 10.0, version 11.0 delivers the following performance improvements.

ALGORITHM	SPEED-UP:	
	OVERALL (>1 SEC)	ON HARD MODELS (>100 SEC)
MILP	8.6%	12.4%
MIQP	12.8%	22.8%
Convex MIQCP	9.2%	18.2%
Nonconvex MIQCP	133.4% (2.3x)	480.2% (5.8x)

Gurobi Optimizer

- **Mixed-Integer Nonlinear Programming (MINLP) Problems:** Quickly identify precise, globally optimal solutions to complex nonlinear problems.
- **Dynamic Distributed Tuning:** With this key enhancement to Gurobi's popular tuning tool, teams can now share resources across multiple users and jobs when tuning.
- **Improved Concurrent LP Controls:** For both deterministic and non-deterministic LP, users can now select precisely which algorithms should be run in a concurrent fashion.
- **New SolutionTarget Option:** A new SolutionTarget setting allows users who do not need an optimal basis to obtain faster solutions to LP problems.

Gurobi Cluster Manager & Compute Server

- **SAML Integration:** Users can now enjoy centralized user access management and single sign-on (SSO) capabilities through Gurobi's seamless integration with SAML-based identity management systems, in addition to existing support for LDAP.
- **Cosmos DB Support:** Gurobi now supports Microsoft® Azure® Cosmos DB®, in addition to existing support for MongoDB® and Amazon® DocumentDB®, for enhanced flexibility when deploying compute clusters.
- **Usability Enhancements:** The Gurobi Cluster Manager delivers a new look-and-feel and now offers username case sensitivity controls, improved date formatting, and support for the latest HTTP security headers.
- **Time and Memory Limit Enforcement:** Gurobi Compute Server includes new parameters for enforcing time and memory limits.

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
- ✓ Two free hours of one-on-one consulting services



Already a customer?

Learn how to upgrade to Gurobi 11.0



gurobi.com/free-trial

Academics: Visit gurobi.com/academia to apply for a free, full-featured Gurobi license.