



**Products** 

Industries

Resources

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Company

**Partners** 

Free Trial

Home > Gurobi Optimizer - Get the Software

# Gurobi Optimizer – Get the Software

## **Gurobi Optimizer**

Gurobi Optimizer is the Gurobi optimization libraries. In addition to the software, the corresponding README file contains installation instructions. Here is the list of bug fixes for each release.

Current version		64-bit Windows	64-bit Linux	64-bit macOS	64-bit AIX
9.1.0	README	Gurobi-9.1.0-win64.msi	gurobi9.1.0_linux64.tar.gz	gurobi9.1.0_mac64.pkg	gurobi9.1.0_power64.tar.gz
md5 Checksum		69488cc43d46b7398e90f5c334ae04da	628c4e2c6fc34193f9dd5852d34b3e1b	5a1e5dd8393e45f714780368d2be92ab	82414392941b7d58b3b4255b9a6995fb
Old versions					
9.0.3	README	Gurobi-9.0.3-win64.msi	gurobi9.0.3_linux64.tar.gz	gurobi9.0.3_mac64.pkg	gurobi9.0.3_power64.tar.gz
md5 Checksum		5394eff3d8f5d8c16190f9ea5bc70020	832040cce622ba7f267e26645fcd200d	758713ea51b0981928f85d9bd81e6b27	948768b299de3d6c69653c7c0a0ed3a5
8.1.1	README	Gurobi-8.1.1-win64.msi	gurobi8.1.1_linux64.tar.gz	gurobi8.1.1_mac64.pkg	gurobi8.1.1_power64.tar.gz
md5 Checksum		17dfc21f0ed64daaa4bdf7634eab705b	05cbb96072e393bd4ebb1d8b9526ce01	d05a73c0df6622851b4371dc1d292579	3d1a756695d52065eeefc15516d9aac6
8.0.1	README	Gurobi-8.0.1-win64.msi	gurobi8.0.1_linux64.tar.gz	gurobi8.0.1_mac64.pkg	gurobi8.0.1_power64.tar.gz
md5 Checksum		d9363f13daa63b79c0cdaa37ad92e8b6	cfc595ddf9482734bdc0268749093cc4	a02d04ef884e64e7091ef7a7439cfe68	877f94a02e602346ee767b9894df4030

Home | License Details

## **License Details**

Information and installation instructions

License ID	516013
Date issued	2020-10-28T22:25:41
Purpose	Trial
License Type	TRIAL
Кеу Туре	TRIAL
Version	9
Expiration Date	2021-04-26
Distributed Limit	0
Host Name	
Host ID	

### Installation

To install this license on a computer where Gurobi Optimizer is installed, copy and paste the following command to the Start/Run menu (Windows only) or a command/terminal prompt (any system):

#### grbgetkey 83af988a-196c-11eb-865d-0a7c4f30bdbe

The grbgetkey command requires an active internet connection. If your computer has no internet access, or you get no response or an error message such as "Unable to contact key server", Please click here for additional instructions.



$$x + 2y + 3z \le 4$$

## Anaconda Installers

Windows #

MacOS **É** 

Linux \Lambda

Python 3.8

64-Bit Graphical Installer (466 MB) 32-Bit Graphical Installer (397 MB)

Python 3.8

64-Bit Graphical Installer (462 MB)

64-Bit Command Line Installer (454 MB)

Python 3.8

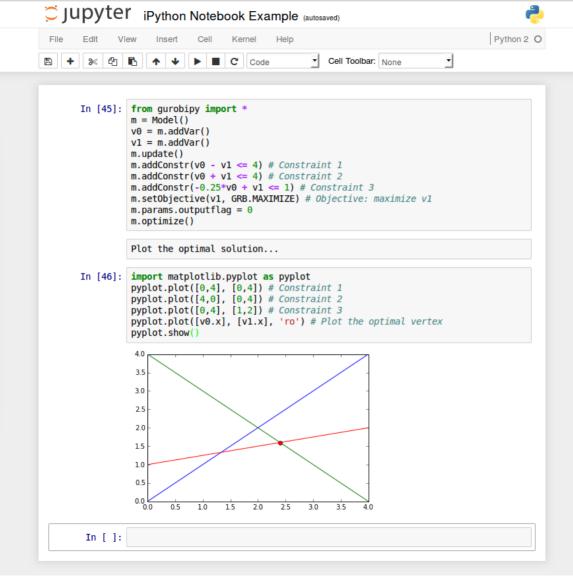
64-Bit (x86) Installer (550 MB)

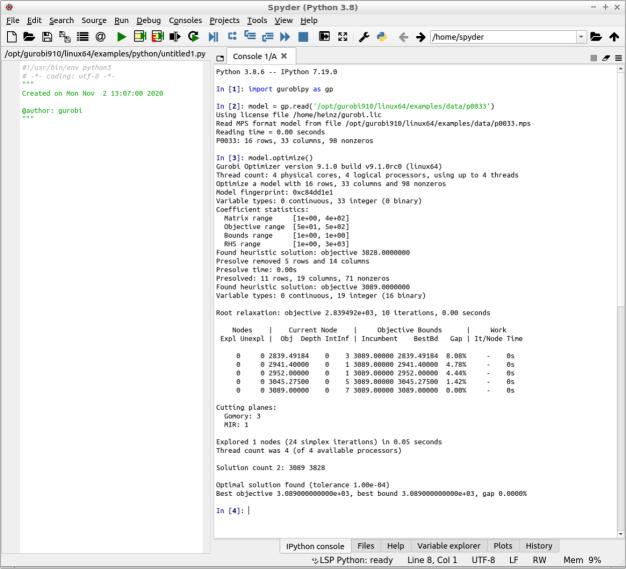
64-Bit (Power8 and Power9) Installer (290

MB)

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**Get Started** 





```
Spyder (Python 3.8)
File Edit Search Source Run Debug Consoles Projects Tools View Help
                                  /opt/gurobi910/linux64/examples/pvthon/mip1.pv
                                                                               Console 1/A X
    #!/usr/bin/env pvthon3.7
                                                                            Python 3.8.6 -- TPython 7.19.0
    # Copyright 2020, Gurobi Optimization, LLC
                                                                            In [1]: runfile('/opt/gurobi910/linux64/examples/python/mip1.py'.
                                                                            wdir='/opt/gurobi910/linux64/examples/pvthon')
    # This example formulates and solves the following simple MIP model:
                                                                            Using license file /home/heinz/gurobi.lic
    # maximize
                                                                            Gurobi Optimizer version 9.1.0 build v9.1.0rc0 (linux64)
            X + V + 2Z
                                                                            Thread count: 4 physical cores, 4 logical processors, using up to 4
    # subject to
          x + 2 v + 3 z <= 4
                                                                            Optimize a model with 2 rows, 3 columns and 5 nonzeros
            x + y >= 1
                                                                            Model fingerprint: 0xf43f5bdf
            x. v. z binarv
                                                                            Variable types: 0 continuous, 3 integer (3 binary)
                                                                            Coefficient statistics:
    import gurobipy as gp
                                                                             Matrix range
                                                                                              [1e+00, 3e+00]
    from gurobipy import GRB
                                                                             Objective range [1e+00, 2e+00]
                                                                             Bounds range
                                                                                             [1e+00, 1e+00]
    try:
                                                                             RHS range
                                                                                             [1e+00, 4e+00]
                                                                            Found heuristic solution: objective 2.0000000
        # Create a new model
                                                                            Presolve removed 2 rows and 3 columns
        m = ap.Model("mip1")
                                                                            Presolve time: 0.00s
                                                                            Presolve: All rows and columns removed
        # Create variables
        x = m.addVar(vtvpe=GRB.BINARY, name="x")
                                                                            Explored 0 nodes (0 simplex iterations) in 0.02 seconds
        y = m.addVar(vtype=GRB.BINARY, name="y")
                                                                            Thread count was 1 (of 4 available processors)
        z = m.addVar(vtype=GRB.BINARY, name="z")
                                                                            Solution count 2: 3
        # Set objective
        m.setObjective(x + v + 2 * z. GRB.MAXIMIZE)
                                                                            Optimal solution found (tolerance 1.00e-04)
                                                                            Best objective 3.000000000000e+00, best bound 3.00000000000e+00, gap
        # Add constraint: x + 2y + 3z <= 4
                                                                            0.0000%
        m.addConstr(x + 2 * y + 3 * z <= 4, "c0")
                                                                            x 1
                                                                            v 0
        # Add constraint: x + v >= 1
                                                                            7 1
        m.addConstr(x + y >= 1, "c1")
                                                                            Obi: 3
        # Optimize model
                                                                            In [2]:
        m.optimize()
        for v in m.getVars():
           print('%s %g' % (v.varName, v.x))
        print('Obi: %g' % m.obiVal)
    except gp.GurobiError as e:
        print('Error code ' + str(e.errno) + ': ' + str(e))
    except AttributeError:
        print('Encountered an attribute error')
                                                                               IPvthon console
                                                                                                Files
                                                                                                    Help
                                                                                                            Variable explorer
                                                                                                                                Plots
                                                                                                                                       History
                                                                          LSP Pvthon: readv
                                                                                                Line 1. Col 1
                                                                                                               ASCII
                                                                                                                                   Mem 9%
```

