



MOSEK Release notes

Release 8.1.0.33

MOSEK ApS

2017

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SUPPORTED PLATFORMS

In [Table 1.1](#) the supported platforms and compilers used to build **MOSEK** are shown.

Table 1.1: Supported platforms

Platform	OS version
linux64x86	RedHat 6 or newer (glibc 2.12)
osx64x86	Mac OS 10.9 or newer
win32x86	Windows 10, server 2008 or newer
win64x86	Windows 10, server 2008 or newer

Although RedHat is explicitly mentioned as the supported Linux distribution, **MOSEK** will work on most other variants of Linux.

If you are using a floating license, the license manager tools requires *Linux Standard Base 3* or newer is installed.

MAJOR CHANGES

Major changes from version 8.0:

Platform support

- An AMPL shell for Windows 32 bit is no longer supported.
- Python 3.4 is no longer supported.

Presolve

- Performance of the presolve has been improved slightly.

The conic optimizer

- Multi thread performance has been improved for certain large models.
- Changed scaling for quadratic and quadratically optimization problems.

Fusion

- The performance of Fusion has been improved particularly for the Python version.
- C++ Fusion is enabled for 64 bit Windows.

Documentation

- Improved documentation and clearer API reference, especially for the Optimizer APIs and Fusion.
- Improved installation and licensing manual.

KNOWN ISSUES

- On Mac OS when solving problems where the nonlinear function callbacks are defined multi threading is turned off due to a problem with the OpenMP library. For linear and conic problems threading is available as usual.

BUG FIXES

8.1.0.33

- Update the content of the Python module.
- Fix bugs in some `get`` methods.

8.1.0.32

- Fixed exception handling in Python distributed examples.
- Small fix in Python Fusion error handler.
- Fixed a small bug in the interior-point optimizer.
- Prune unused preallocated variables when constructing tasks in Fusion.
- Fixed a bug in the CBF writer where free constraints triggered an assert.
- Fixed an incorrect formulation in `lo1.m` and `lo2.m`.

8.1.0.31

- Fixed a bug occurring when a maximization problem is solved when an upper objective cut defined and the dual simplex optimizer is employed.

8.1.0.30

- Fixed a bug in the eliminator that could trigger an assert on infeasible problems.

8.1.0.29

- Fixed a bug in the dual simplex optimizer when an objective cut is employed.

8.1.0.28

- Fixed a bug that could cause a crash.
- Fixed a bug in the solution setup of the conic optimizer.

8.1.0.27

- Change the way Fusion is distributed on Win64.
- Fix an rpath issue in Toolbox.

8.1.0.26

- Fixed an inheritance issue in Fusion exceptions.

8.1.0.25

- Fixed an issue that could cause the conic optimizer to report an invalid solution in rare cases.

8.1.0.24

- Fixed a bug causing a memory leak in the sparse Cholesky factorization function.
- Fixed a bug putajlist when small elements in absolute size are inputted.

8.1.0.23

- Fixed a bug causing an assert on certain infeasible problems.

8.1.0.22

- Fixed syntax problems in distributed examples.
- Fixed a bug causing wrong solution status keys for constraints and variables to be reported in some cases.

8.1.0.18

- Solution status reporting fix in Fusion.

8.1.0.16

- Fixed memory issue in Python Fusion.
- Fixed a bug in CBF writer.
- Included the AMPL shell on Windows.

8.1.0.15

- Fix in Python setup script.

8.1.0.13

- Fixes in and around Fusion makefiles for Windows.

8.1.0.8

- Fixed a numerical issue in the presolve.

8.1.0.6

- Fixed a bug in the presolve that could trigger an assert.

8.1.0.5

- Improved the presolve.

8.1.0.4

- Improved the presolve.

8.1.0.3

- Fixed a bug causing incorrect objectives for Fusion/C++.

8.1.0.2

- Modified the stopping criteria in the conic interior-point optimizer.

8.1.0.1

- Fixed a minor issue in the MPS reader which made it report the wrong number of A nonzeros.
- Fixed a bug in the dual simplex optimizer causing an assert in rare cases.

8.1.0.0

- Improved the performance of Fusion notably for the Python Fusion. However, this improvement is not applicable to 32 bit Windows platform.
- Improved the multi threaded performance for some large scale conic optimization problems.