



MOSEK Installation Guide

Release 8.1.0.72

MOSEK ApS

2018

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INTRODUCTION

This guide describes how to install the **MOSEK** Optimization Suite.

In general **MOSEK** Optimization Suite must be installed on any computer where **MOSEK** is used and this is called a *client installation*. In addition if a *floating license* is employed then a license token server must be set up, either on the client computer or on another computer. Note that trial licenses and academic licenses are NOT floating licenses.

CONTACT INFORMATION

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	Denmark	

You can get in touch with **MOSEK** using popular social media as well:

Blogger	http://blog.mosek.com/
Google Group	https://groups.google.com/forum/#!forum/mosek
Twitter	https://twitter.com/mosektw
Google+	https://plus.google.com/+Mosek/posts
Linkedin	https://www.linkedin.com/company/mosek-aps

In particular **Twitter** is used for news, updates and release announcements.

LICENSE AGREEMENT

Before using the **MOSEK** software, please read the license agreement available in the distribution at <MSKHOME>/mosek/8/mosek-eula.pdf or on the **MOSEK** website <https://mosek.com/products/license-agreement>.

MOSEK uses some third-party open-source libraries. Their license details follows.

zlib

MOSEK includes the *zlib* library obtained from the *zlib* website. The license agreement for *zlib* is shown in Listing 3.1.

Listing 3.1: *zlib* license.

```
zlib.h -- interface of the 'zlib' general purpose compression library
version 1.2.7, May 2nd, 2012

Copyright (C) 1995-2012 Jean-loup Gailly and Mark Adler

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Jean-loup Gailly          Mark Adler
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```

fplib

MOSEK includes the floating point formatting library developed by David M. Gay obtained from the *netlib* website. The license agreement for *fplib* is shown in Listing 3.2.

Listing 3.2: *fplib* license.

```
/*
*
```

```
* The author of this software is David M. Gay.  
*  
* Copyright (c) 1991, 2000, 2001 by Lucent Technologies.  
*  
* Permission to use, copy, modify, and distribute this software for any  
* purpose without fee is hereby granted, provided that this entire notice  
* is included in all copies of any software which is or includes a copy  
* or modification of this software and in all copies of the supporting  
* documentation for such software.  
*  
* THIS SOFTWARE IS BEING PROVIDED "AS IS", WITHOUT ANY EXPRESS OR IMPLIED  
* WARRANTY. IN PARTICULAR, NEITHER THE AUTHOR NOR LUCENT MAKES ANY  
* REPRESENTATION OR WARRANTY OF ANY KIND CONCERNING THE MERCHANTABILITY  
* OF THIS SOFTWARE OR ITS FITNESS FOR ANY PARTICULAR PURPOSE.  
*  
*****/
```

INSTALLATION

4.1 Downloading and setting up

4.1.1 Python

If **MOSEK** is *only* used from Python, then to easily install the latest version together with all the binary dependencies we recommend:

- Users of the Anaconda Python distribution can install **MOSEK** as an Anaconda package, see <https://anaconda.org/MOSEK/mosek>. The quick way is

```
conda install -c mosek mosek
```

- Alternatively use the PIP installer with:

```
pip install -f https://download.mosek.com/stable/wheel/index.html Mosek --user
```

(skip `--user` for a system-wide installation).

4.1.2 General setup

Linux

1. Download the Linux 64bit x86 **MOSEK** Optimization Suite distribution from <https://mosek.com/downloads/> and unpack it into a chosen directory.
2. Optionally add the path
`<MSKHOME>/mosek/8/tools/platform/linux64x86/bin`
to the OS variable `PATH`, where `<MSKHOME>` is the directory where **MOSEK** was installed.

Mac OS

1. Download the MAC OS 64bit x86 **MOSEK** Optimization Suite distribution from <https://mosek.com/downloads/> and unpack it into a chosen directory.
2. Run the command
`python <MSKHOME>/mosek/8/tools/platform/osx64x86/bin/install.py`
where `<MSKHOME>` is the directory where **MOSEK** was installed. This will set up the appropriate shared objects required when using **MOSEK**.
3. Optionally add the path
`<MSKHOME>/mosek/8/tools/platform/osx64x86/bin`

to the OS variable PATH.

Windows, MSI installer

1. Make the right choice between the 32bit and 64bit versions. For instance if you plan to use **MOSEK** with 32bit Python or MATLAB the 32bit version of **MOSEK** should be selected. In general it is recommend to use the 64bit version though.
2. Download the Windows 32bit x86 or Windows 64bit x86 **MOSEK** Optimization Suite MSI installer from <https://mosek.com/downloads/>.
3. Run the installer to complete the installation.
4. Optionally add the path

```
<MSKHOME>\mosek\8\tools\platform\<PLATFORM>\bin
```

to the OS variable PATH, where <MSKHOME> is the directory where **MOSEK** was installed and <PLATFORM> is win64x86 or win32x86 depending on the version of **MOSEK** installed.

Windows, Manual installation

1. Make the right choice between the 32bit and 64bit versions. For instance if you plan to use **MOSEK** with 32bit Python or MATLAB the 32bit version of **MOSEK** should be selected. In general it is recommend to use the 64bit version though.
2. Download the Windows 32bit x86 or Windows 64bit x86 **MOSEK** Optimization Suite distribution from <https://mosek.com/downloads/> and unpack it into a chosen directory.
3. Optionally add the path

```
<MSKHOME>\mosek\8\tools\platform\<PLATFORM>\bin
```

to the OS variable PATH, where <MSKHOME> is the directory where **MOSEK** was installed and <PLATFORM> is win64x86 or win32x86 depending on the version of **MOSEK** installed. This is necessary for Windows to locate the **MOSEK** shared libraries, especially if **MOSEK** is to be used e.g. from MATLAB.

4.2 Setting up the License

Token server setup

If you are using a floating license with a token server then follow the instructions in the [Licensing Guide](#). This step is NOT required for trial and personal academic licenses in particular.

Client setup

MOSEK requires a valid license in order to be used. In practice the license is contained in a file called

```
mosek.lic
```

On Windows save the license file to

```
%USERPROFILE%\mosek\mosek.lic
```

On all Unix like operating systems including Mac OS save the license file to

```
$HOME/mosek/mosek.lic
```

If the folder `mosek` in the home directory does not exist, then it should be created. The license can be tested with the program `msktestlic`. For further information about the license system, and other non-standard ways of setting up the license, please consult the [License Guide](#).

4.3 Finishing up

Important:

- See the [Licensing Guide](#) if you need more advanced help setting up the license.
 - For most languages and interfaces some additional steps are required. Please follow the instructions in the relevant interface documentation available from <https://mosek.com/documentation/>.
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