

 **Z3Prover / z3**

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The Z3 Theorem Prover

 2,638 commits













 6 branches


 6 releases

 9 contributors

 Branch: master ▾ **z3** / +



Merge pull request #164 from mlr-msft/master ...		
	NikolajBjorner authored on 17 Jul	latest commit a7a0deed3f 
 doc	ML API doc fix	5 months ago
 examples	Merge branch 'unstable' of https://github.com/Z3Prover/z3 into contrib	4 months ago
 scripts	Remove temporary files created during configuration tests.	4 months ago
 src	Merge branch 'unstable' of https://github.com/Z3Prover/z3 into contrib	4 months ago
 .gitattributes	set text default to auto to try to avoid crlf disasters	a year ago
 .gitignore	Minor adjustments after rebasing ml-ng onto unstable.	8 months ago
 LICENSE.txt	Move to MIT License	5 months ago
 README	clarified README with information provided in issue #163.	2 months ago
 RELEASE_NOTES	Version number adjustment.	4 months ago
 configure	Add configure script that is just a wrapper for python 'src/mk_make.p...	3 years ago

 **README**

Z3 is a theorem prover from Microsoft Research.  
Z3 is licensed under the MIT license.  
Z3 can be built using Visual Studio Command Prompt and make/g++.

1) Building Z3 on Windows using Visual Studio Command Prompt

32-bit builds, start with:

```
python scripts/mk_make.py
```

or instead, for a 64-bit build:

```
python scripts/mk_make.py -x
```

then:

```
cd build
nmake
```

2) Building Z3 using make/g++ and Python

Execute:

```
python scripts/mk_make.py
cd build
make
sudo make install
```

By default, it will install z3 executable at PREFIX/bin, libraries at PREFIX/lib, and include files at PREFIX/include, where PREFIX is the installation prefix used for installing Python in your system. It is usually /usr for most Linux distros, and /usr/local for FreeBSD. Use the following commands to install in a different prefix (e.g., /home/leo)

```
python scripts/mk_make.py --prefix=/home/leo
cd build
make
make install
```

In this example, the Z3 Python bindings will be stored at /home/leo/lib/pythonX.Y/dist-

**<> Code**

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packages,  
where X.Y corresponds to the python version in your system.

To uninstall Z3, use

```
sudo make uninstall
```

4) Building Z3 using clang and clang++ on Linux/OSX  
Remark: clang does not support OpenMP yet.

```
CXX=clang++ CC=clang python scripts/mk_make.py  
cd build  
make
```

To clean Z3 you can delete the build directory and run the mk\_make.py script again.

