

# Installation on Windows with Cygwin

This guide will help you install TELEMAT-MASCARET on Windows Using only cygwin and pip.

The prerequisites for this installations are: - Having administrator access on your computer - Having internet access (or a PyPi mirror)

## Installing cygwin

First download the Cygwin installer from [here](#)

Directly launching that installer will install cygwin. However because we have a list of prerequisites we want cygwin to install we will run the installation in command line instead.

First open a command terminal as administrator (You can find instruction on how to do it [here](#)).

Then run the following command:

```
setup-x86_64.exe -P
_autorebase,alternatives,base-cygwin,base-files,bash,binutils,bzip2,ca-certificates,coreutils,crypt,crypto-policies,csih,cygrunsrv,cygutils,cygwin,cygnon-debuginfo,cygwin-devel,dash,diffutils,editrights,file,findutils,gawk,gcc-core,gcc-fortran,gcc-g++,getent,git,git-svn,grep,groff,gzip,hostname,info,ipcurl,libapril,libaprutil1,libargp,libatomic1,libattr1,libblkid1,libbrotlicommon1,libbrotlided1,libbz2_1,libcbor,libcom_err2,libcrypt-devel,libcrypt0,libcrypt2,libcurl4,libdb5.3,libedit0,libexpat1,libfdisk1,libffi6,libfido2,libfontconfig-devel,libfontconfig6,libgcc1,libgdbm4,libgdbm6,libgdbm_compat4,libgfortran4,libgfortran5,libgmp10,libgomp1,libgssapi_krb5_2,libiconv,libiconv2,libidn2_0,libintl8,libiodbc2,libisl22,libk5crypto3,libkrb5_3,libkrb5support0,liblapack-devel,liblapack0,liblz4_1,liblzma5,libmetis-devel,libmetis0,libmpc3,libmpfr6,libmysqlclient18,libncursesw10,libnghttp2_14,libnspr2,libopenblas,libopenldap2_4_2,libopenmpi-devel,libopenmpi40,libopenmpi40f40,libopenmpiusef08_40,libopenmpiusetkr40,libp11-kit0,libpcre1,libpipeline1,libpkgconf3,libpng-devel,libpng16,libpng16-devel,libpopt-common,libpopt0,libpq5,libproj15,libpsl5,libquadmath0,libreadline7,libsasl2_3,libserf1_0,libsigsegv2,libsmartcols1,libsodium-common,libsodium23,libsqlite3_0,libssh-common,libssh4,libssl1.0,libssl1.1,libstdc++6,libtasn1_6,libtirpc-common,libtirpc3,libunistring2,libuuid-devel,libuuid1,libzmq-devel,libzmq5,login,man-db,mariadb-common,metis,mingw64-x86_64-binutils,mingw64-x86_64-gcc-core,mingw64-x86_64-gcc-fortran,mingw64-x86_64-headers,mingw64-x86_64-runtime,mingw64-x86_64-windows-default-manifest,mingw64-x86_64-winpthread,mingw64-x86_64-winpthreads,mingw64-x86_64-winpthreads,mysql-common,ncurses,openblas-debuginfo,openblas-doc,openmpi,openssh,openssl,p11-kit,p11-kit-trust,perl,perl-Error,perl-Scalar-List-Utils,perl-TermReadKey,perl-YAML,perl_autorebase,perl_base,pkg-config,pkgconf,proj,publicsuffix-list-dafsa,python-pip-wheel,python-setuptools-wheel,python3,python3-devel,python36,python36-devel,python36-setu
```

ptools, rebase, rsync, run, sed, subversion, subversion-perl, tar, terminfo, terminfo-extra, tzcode, tzdata, util-linux, vim-minimal, w32api-headers, w32api-runtime, which, windows-default-manifest, xz, zlib-devel, zlib0

Going forward in the the installation and also to run telemac we will be using the Cygwin terminal (mintty.exe). It should be on your desktop otherwise it should be in the cygwin directory (C:\cygwin64\bin\mintty.exe if you used default installation folder)

Within the cygwin terminal the "C:\" folder path is "/cygdrive/c".

## Installing Python packages

Download the following file:

[requirement.txt](#)

```
attrs==19.3.0
backcall==0.1.0
bleach==3.1.5
cppy==1.1.0
cyclr==0.10.0
Cython==0.29.19
decorator==4.4.2
defusedxml==0.6.0
entrypoints==0.3
importlib-metadata==1.6.0
ipykernel==5.3.0
ipython==7.15.0
ipython-genutils==0.2.0
ipywidgets==7.5.1
jedi==0.17.0
Jinja2==2.11.2
jsonschema==3.2.0
jupyter==1.0.0
jupyter-client==6.1.3
jupyter-console==6.1.0
jupyter-core==4.6.3
kiwisolver==1.2.0
MarkupSafe==1.1.1
matplotlib==3.2.1
mistune==0.8.4
mpi4py==3.0.3
nbconvert==5.6.1
nbformat==5.0.6
nose==1.3.7
notebook==6.0.3
```

```
numpy==1.18.4
packaging==20.4
pandocfilters==1.4.2
parso==0.7.0
pexpect==4.8.0
pickleshare==0.7.5
prometheus-client==0.8.0
prompt-toolkit==3.0.5
ptyprocess==0.6.0
Pygments==2.6.1
pyparsing==2.4.7
pyrsistent==0.16.0
python-dateutil==2.8.1
pyzmq==19.0.1
qtconsole==4.7.4
QtPy==1.9.0
scipy==1.3.1
Send2Trash==1.5.0
six==1.15.0
terminado==0.8.3
testpath==0.4.4
tornado==6.0.4
traitlets==4.3.3
wcwidth==0.2.3
webencodings==0.5.1
widgetsnbextension==3.5.1
zipp==3.1.0
```

Run the following command

```
python3 -m pip install -r requirement.txt
```

## Getting Telemac sources

Follow the procedure described [here](#)

## Compiling Telemac

In the explication below:

- “root” refers to path to your TELEMAC\_MASCARET

Copy “root”/configs/pysource.template.sh into “root”/configs/pysource.win.sh Edit the file and replace:

- <path-to-install> by “root”

- <your-config> by win

Source the file (if run from "root" otherwise change the path to the pysource file):

```
source configs/pysource.win.sh
```

## Try running:

```
config.py
```

You should get something like that:

```
$ config.py
```

## Loading Options and Configurations

win:

+> Windows 8 with gfortran and mpich (from automatic installer)

```
+> root:    /cygdrive/c/opentelemac/trunk
```

```
+> module: ad / api / artemis / bief
          damocles / gaia / gretel / hermes
          identify_liq_bnd / khione / mascaret / nestor
          parallel / partel / postel3d / sisyphé
          special / stbtel / telemac2d / telemac3d
          tomawac / waqtel
```

My work is done

If this is ok run:

```
compile_telemac.py
```

## Running Telemac

To check that everything is okay run a test case:

```
cd $HOMETEL/examples/telemac2d/gouttedo  
telemac2d.py t2d_gouttedo.cas --ncsize=2
```

From:

<http://wiki.opentelemac.org/> - **open TELEMAC-MASCARET**

Permanent link:

[http://wiki.opentelemac.org/doku.php?id=installation\\_on\\_windows\\_with\\_cygwin&rev=1593424161](http://wiki.opentelemac.org/doku.php?id=installation_on_windows_with_cygwin&rev=1593424161)

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