

# How to build QuanTB from source codes in easy way

## Task

In document “QuanTB. Developer’s guide” you can find necessary information how to develop own application using QuanTB codes. In contrary, this document depicts only minimal toolset to build QuanTB executable under MS Windows OS from original source codes

## Hardware

- CPU Intel I3 and above. It is possible to use CPU below I3, however build process may be slow
- RAM 4Gb and above
- HDD at least 10Gb free space
- OS Windows 7 and above

## Toolset

Minimal toolset to build QuanTB consist of:

Oracle Java SE Development Kit for Windows 64 that you have download<sup>1</sup> from

<http://www.oracle.com/technetwork/java/javase/downloads/jdk8-downloads-2133151.html>

**Please, avoid install it to the default folder c:\Program files. Folder c:\Java is much better for some reason.**

Apache Maven that you have download from <https://maven.apache.org/>

In addition, you have to download and install the latest QuanTB, only to get medicines and regimens definitions.

**Please, avoid install it to the default folder c:\Program files. Folder c:\maven is much better for some reason.**

## Steps to execute

### Pre – conditions

- Java SE Development kit is installed.
- Maven is installed
- QuanTB is installed
- Source codes are unzipped to some folder
- Windows command file build.cmd is in root of source codes folder
- Internet connection is up and good

## Build

### Fine tune build.cmd

Build.cmd is a simple command file that intends to build QuanTB application from source codes.

You should

- Copy this file to the root of source code folder and then change path to Java SE Development kit (Java SDK) installed.

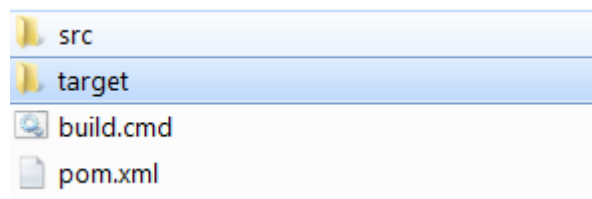
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<sup>1</sup> Address below is subject to change. Use google search like “oracle jdk” to find right page on Oracle web site

- Change definition of JAVA\_HOME environment variable to folder to which Java SDK installed.

For instance:

My folder with QuantTB source



My build.cmd

```
set JAVA_HOME=C:\Java\jdk1.8.0_66
call mvn clean
call mvn install
pause
```

My Java SDK installation is in c:\Java\jdk1.8.0\_66

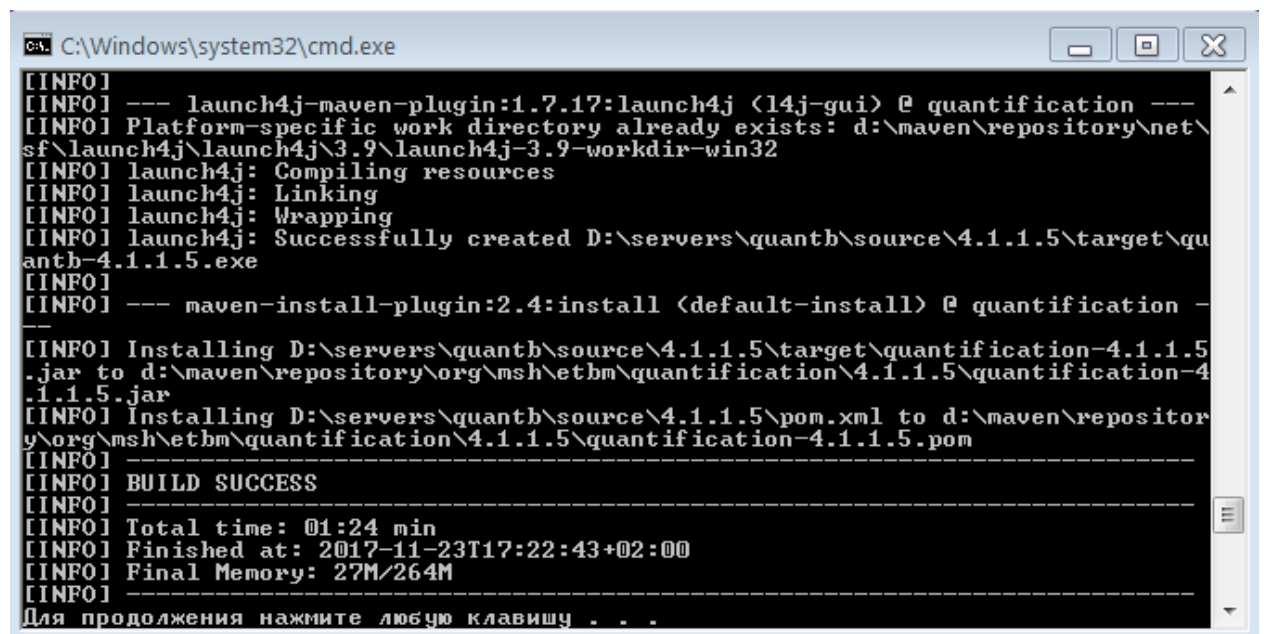
Run build.cmd

File build.cmd contains two maven's command – "clean" and "install". Command "clean" will remove all content from folder "target". Command "install" will rebuild content of this folder.

Please, put your attention that on first run command "install" will download many addition Java libraries. Because of this first run will be slow. Sometimes, not all Java libraries will be downloaded on first run. In this case, it is completely safe to run build.cmd repeatedly.

In addition, build.cmd runs all tests that included to source codes. It takes time too.

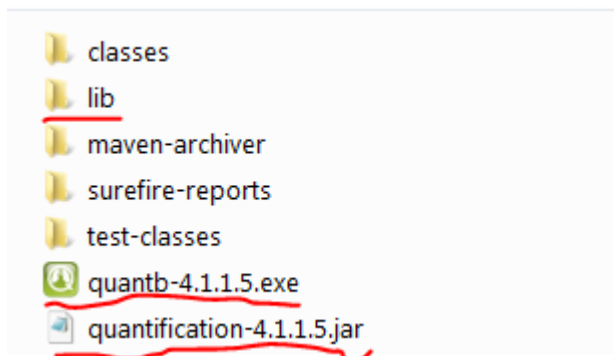
Successful completion looks like



Press any key to continue and follow to the next step.

## Create release

On the previous step, content of your folder “target” will be completely re-created and this content will look like

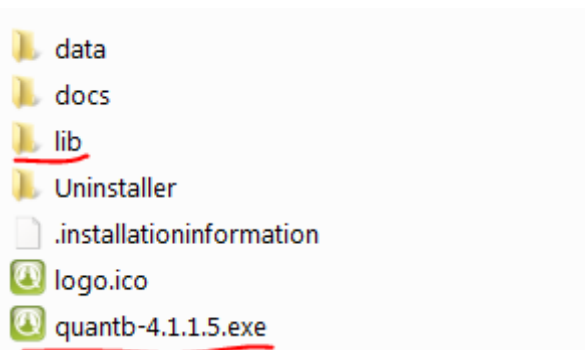


Only three items from this folder is vital for our task:

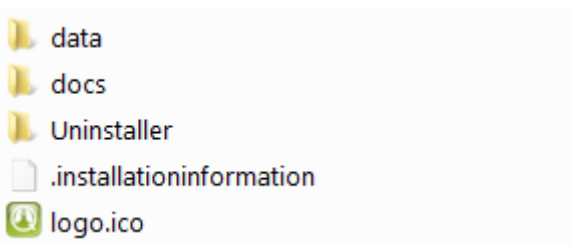
- Folder lib – contains all third – party Java libraries that necessary for QuanTB
- Windows executable quantb-4.1.1.5.exe is QuanTB for Windows
- Quantification-4.1.1.5.jar is QuanTB for Mac

To implement new created QuanTB:

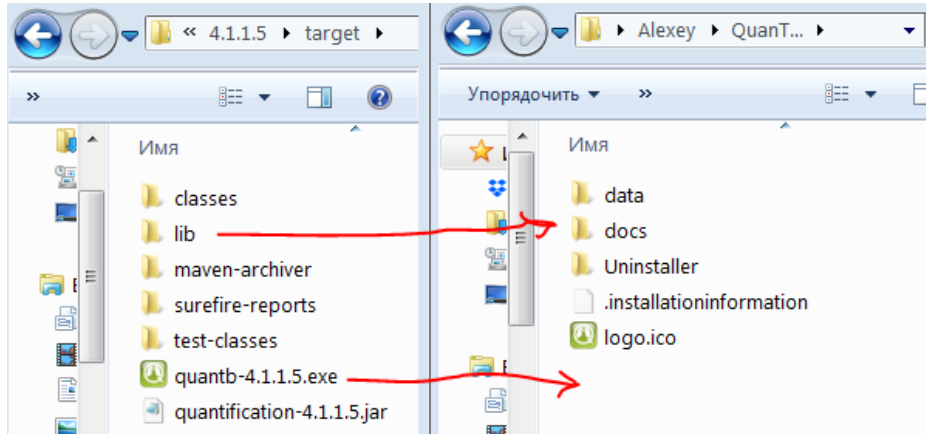
Open folder to which you have installed QuanTB



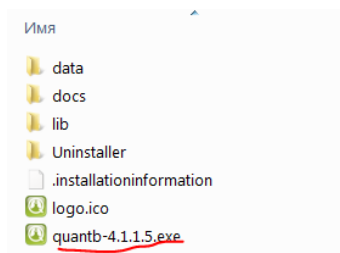
Remove folder lib and file quantb-4.1.1.5.exe



Copy to this folder “lib” and file “quantb-4.1.1.5.exe” from the “target” folder



Run QuanTB.exe



Help-About will display “fresh” build number

