Digital design CAD-program

Installation Instructions

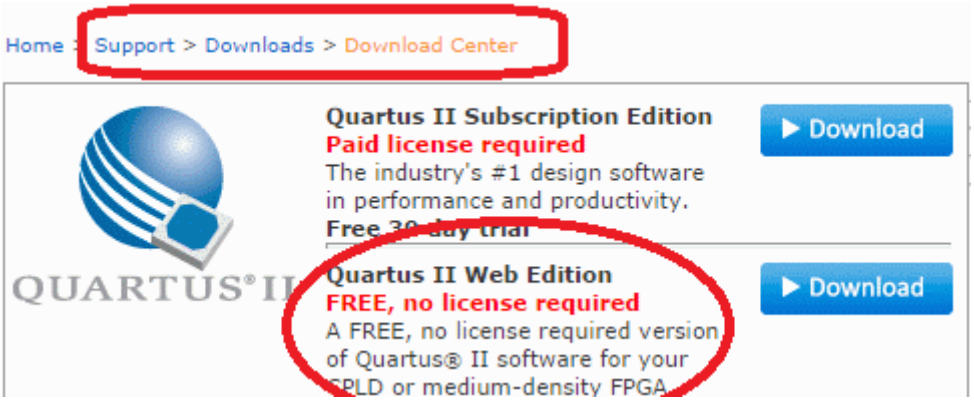
For lab **VHDL Intro** You need to make preparation tasks with modern CAD software.
Altera's **Quartus II** design program, and Mentor Graphics **ModelSim** simulation program, are both "state of the art" industry standard programs.
They are typically used in very large digital design projects - Although our lab task is modest to suit beginners.

The programs are installed in our Laborations hall to be used in conjunction with hardware/laboratory equipment at the laboratory work.

For preparation tasks you should install the programs on your own computer, but as a "backup" the programs are also installed in the school's Windows computer rooms.

- An important part of your education is to install and become familiar with various computer programs used in the industry.

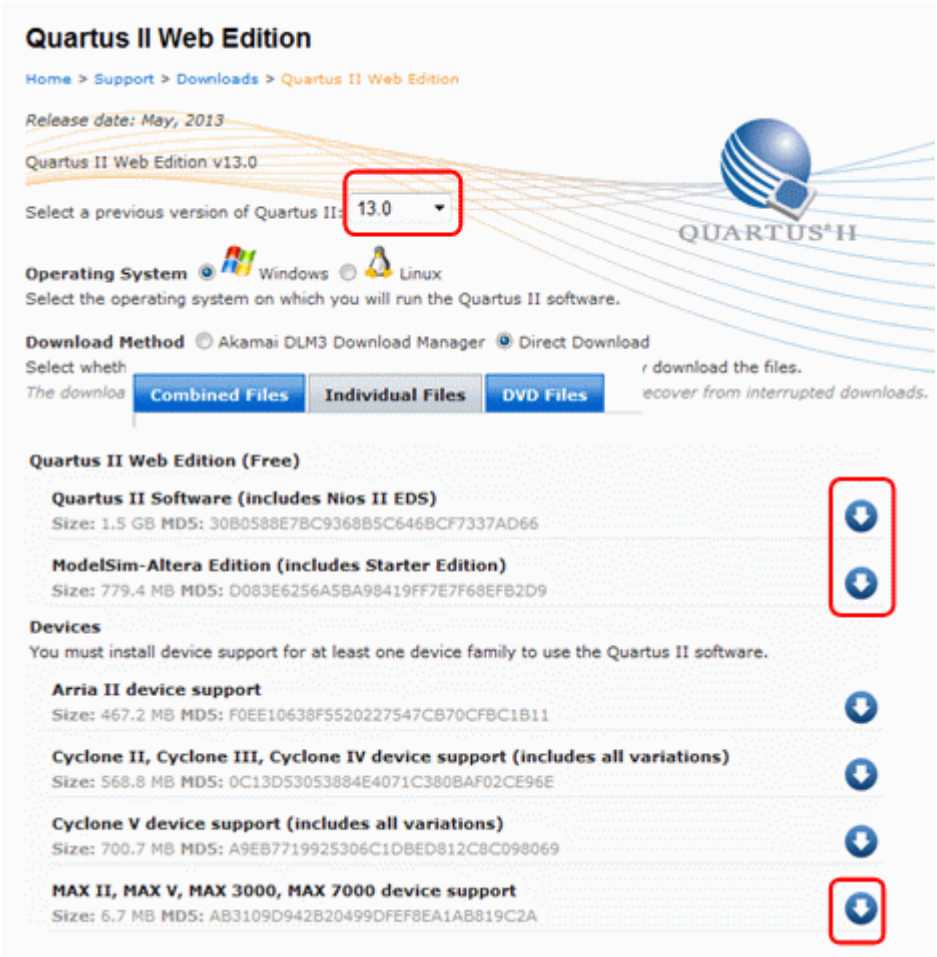
Programfiles Quartus II and ModelSim version 13



Nowadays Quartus has reached version 14.
Either you visit the Altera homepage, or can you borrow a USB stick with the files in the school. USB Transfer of program files takes about 5 minutes. The installation can then take a long time.
(*Nothing prevents you from sharing the installation files with other students.*)

ATTENTION! Altera has dropped support for the 3000 series of chips (which we use in the lab) with the versions from Quartus 13.1. Therefore, you must download the previous version **13.0**. See the figure.

.



Install Quartus II version 13.0 from a borrowed USB-memory

We use the Quartus II Web Edition (free)

Create a temporary folder on your computer for example. `C:\Altera_temp`. On the USB stick is the `quartus13 folder.` Copy the files:

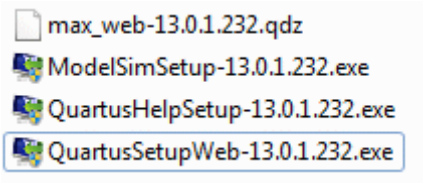
```
QuartusSetupWeb-13.0.1.232.exe
max_web-13.0.1.232.qdz
QuartusHelpSetup-13.0.1.232.exe
ModelSimSetup-13.0.1.232.exe
```

It is important that your files are in one folder on your PC. This is required for them to be installed together.

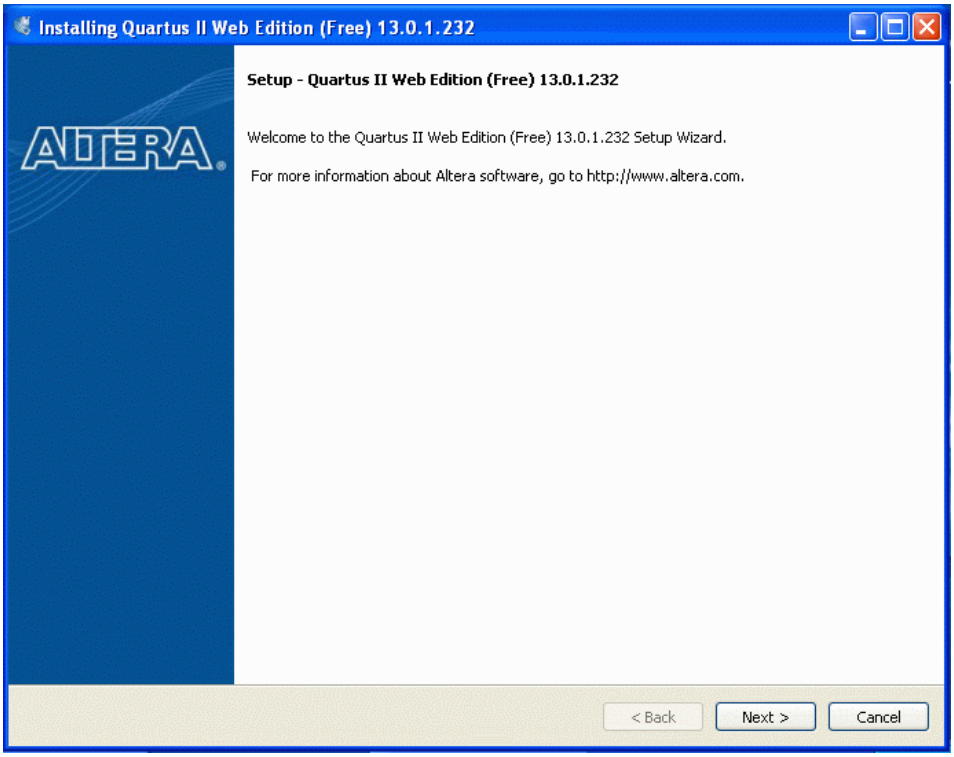
You can now return the USB memory.

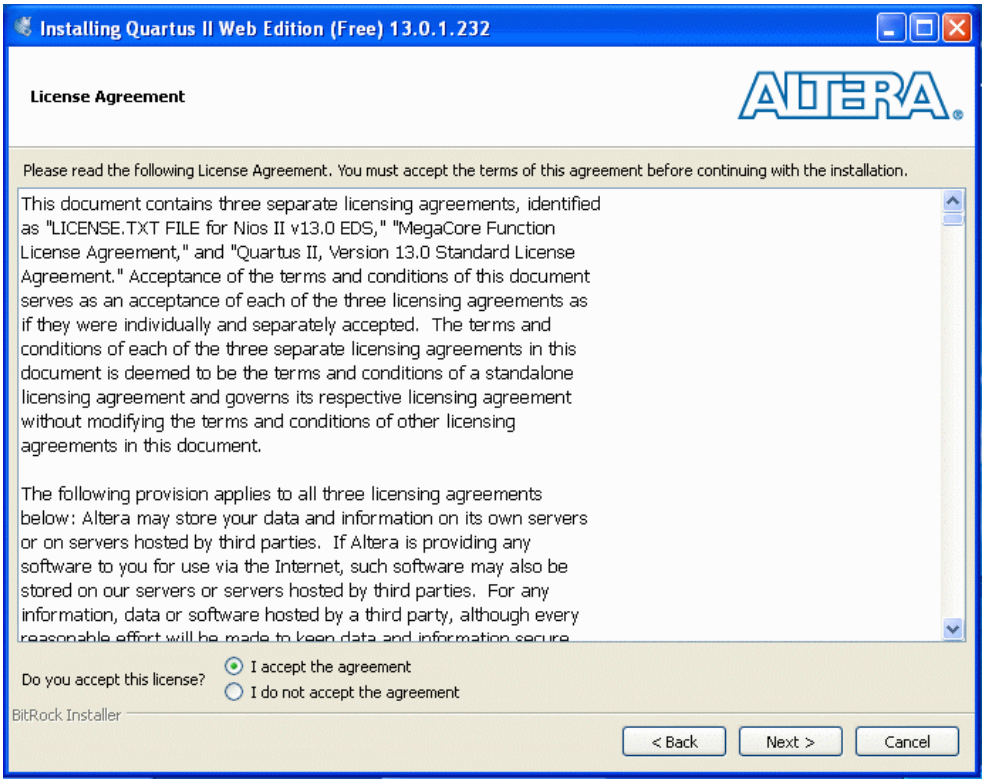
Install Quartus II and ModelSim, version 13

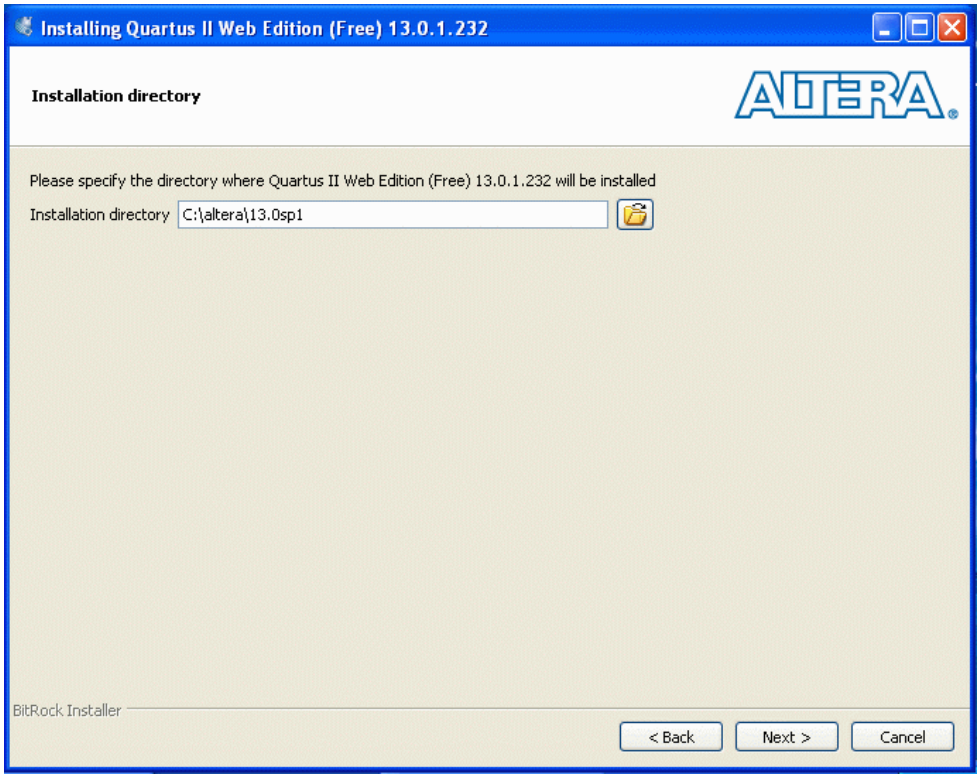
The installation is "straightforward", and as one would expect. This describes it step by step.

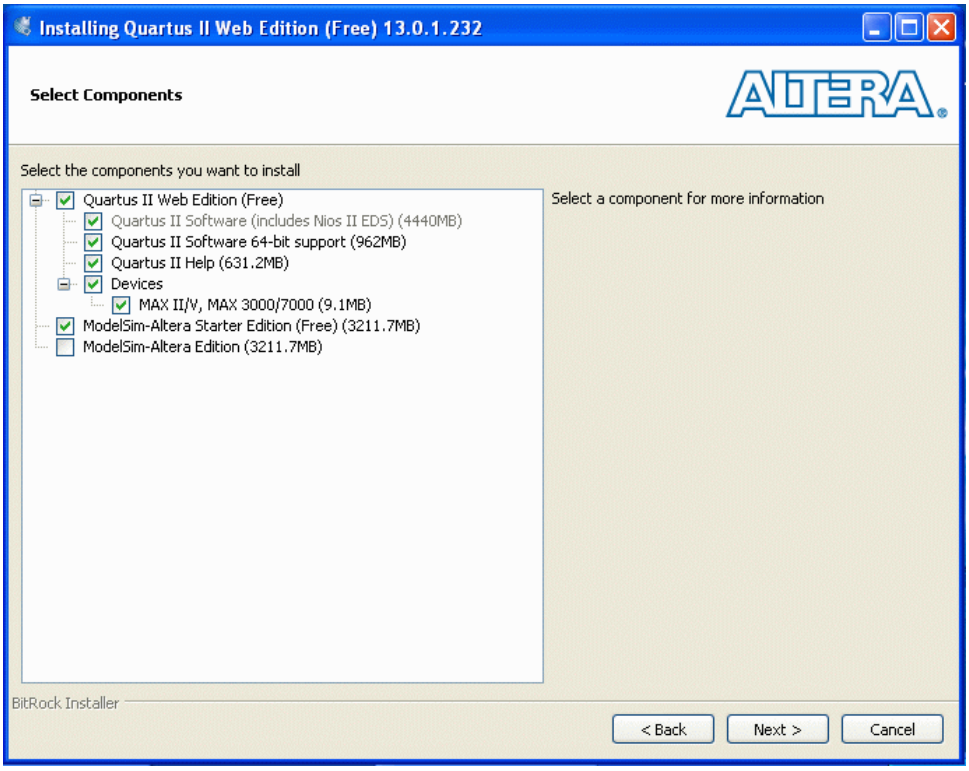


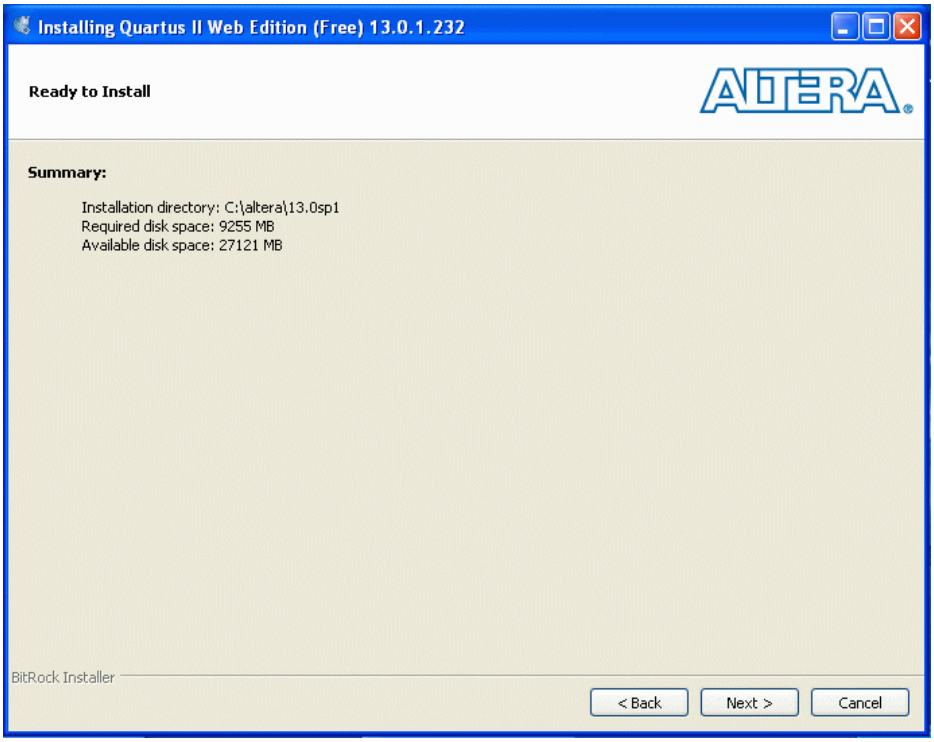
Double-click on `QuartusSetupWeb-13.0.1.232.exe` in your folder `Altera_temp`. This will install Quartus and other files in the folder, as Modelsim. Be prepared that this will take time.



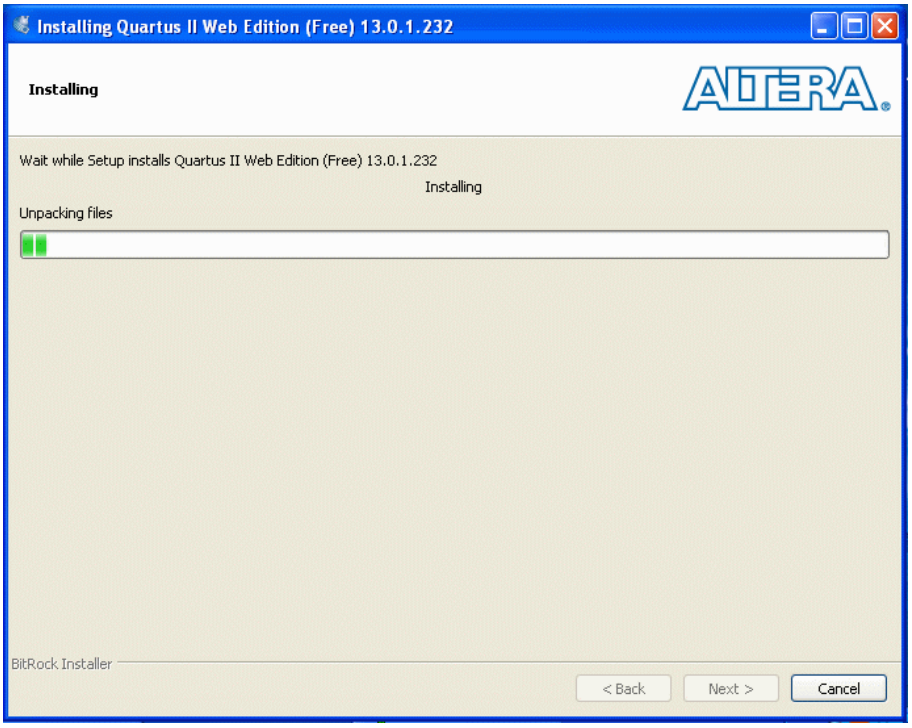

Installing Quartus II Web Edition (Free) 13.0.1.232
License Agreement
ALTERA
Please read the following License Agreement. You must accept the terms of this agreement before continuing with the installation.
This document contains three separate licensing agreements, identified as "LICENSE.TXT FILE for Nios II v13.0 EDS," "MegaCore Function License Agreement," and "Quartus II, Version 13.0 Standard License Agreement." Acceptance of the terms and conditions of this document serves as an acceptance of each of the three licensing agreements as if they were individually and separately accepted. The terms and conditions of each of the three separate licensing agreements in this document is deemed to be the terms and conditions of a standalone licensing agreement and governs its respective licensing agreement without modifying the terms and conditions of other licensing agreements in this document.
The following provision applies to all three licensing agreements below: Altera may store your data and information on its own servers or on servers hosted by third parties. If Altera is providing any software to you for use via the Internet, such software may also be stored on our servers or servers hosted by third parties. For any information, data or software hosted by a third party, although every
Do you accept this license?
I accept the agreement
I do not accept the agreement
BitRock Installer
< Back
Next >
Cancel

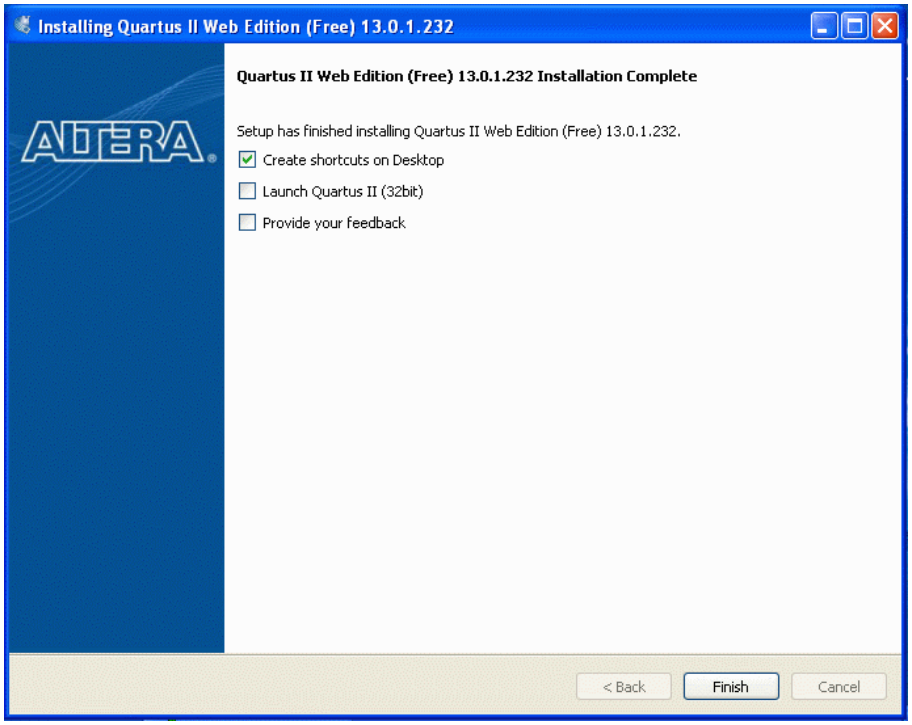

Installing Quartus II Web Edition (Free) 13.0.1.232
Installation directory
ALTERA
Please specify the directory where Quartus II Web Edition (Free) 13.0.1.232 will be installed
Installation directory
C:\altera\13.0sp1
BitRock Installer
< Back
Next >
Cancel





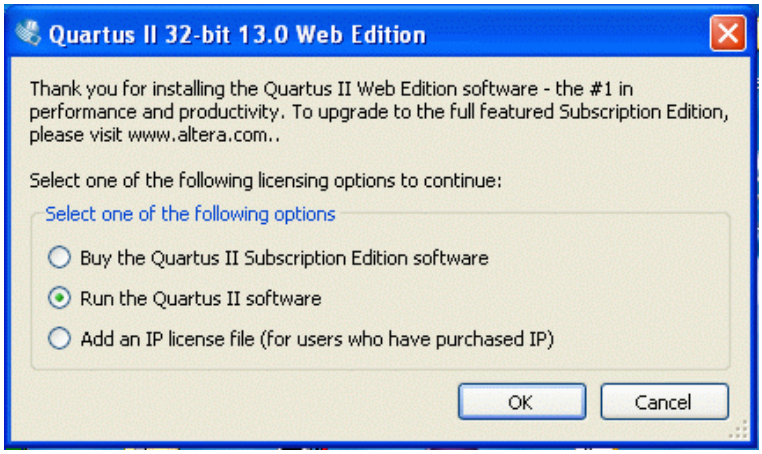
Grab a cup of coffee - now it will take time ...





Depending on your computer's performance has Quartus 32 or 64 bit versions been installed.

When you start the Quartus so you will get a question.
We are doing just fine with the free version of Quartus - so there is no need to pay for anything.



- **Note - You can now delete the entire folder `Altera_temp` with the installation files.**
  It will only take place on the computer.

Good luck with the installation

William Sandqvist `william@kth.se`