

# BEE 271 Spring 2017

## Installing Quartus Prime Lite

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Altera's free Quartus Prime Lite software can be downloaded here. You will want the latest 16.1 version, the same as installed on our Beardslee lab machines. To run well, it requires a Windows machine with at least 16 GB and preferably, a Core i7. (Sadly, our Beardslee have only Core i5s.)

<http://dl.altera.com/?edition=lite>

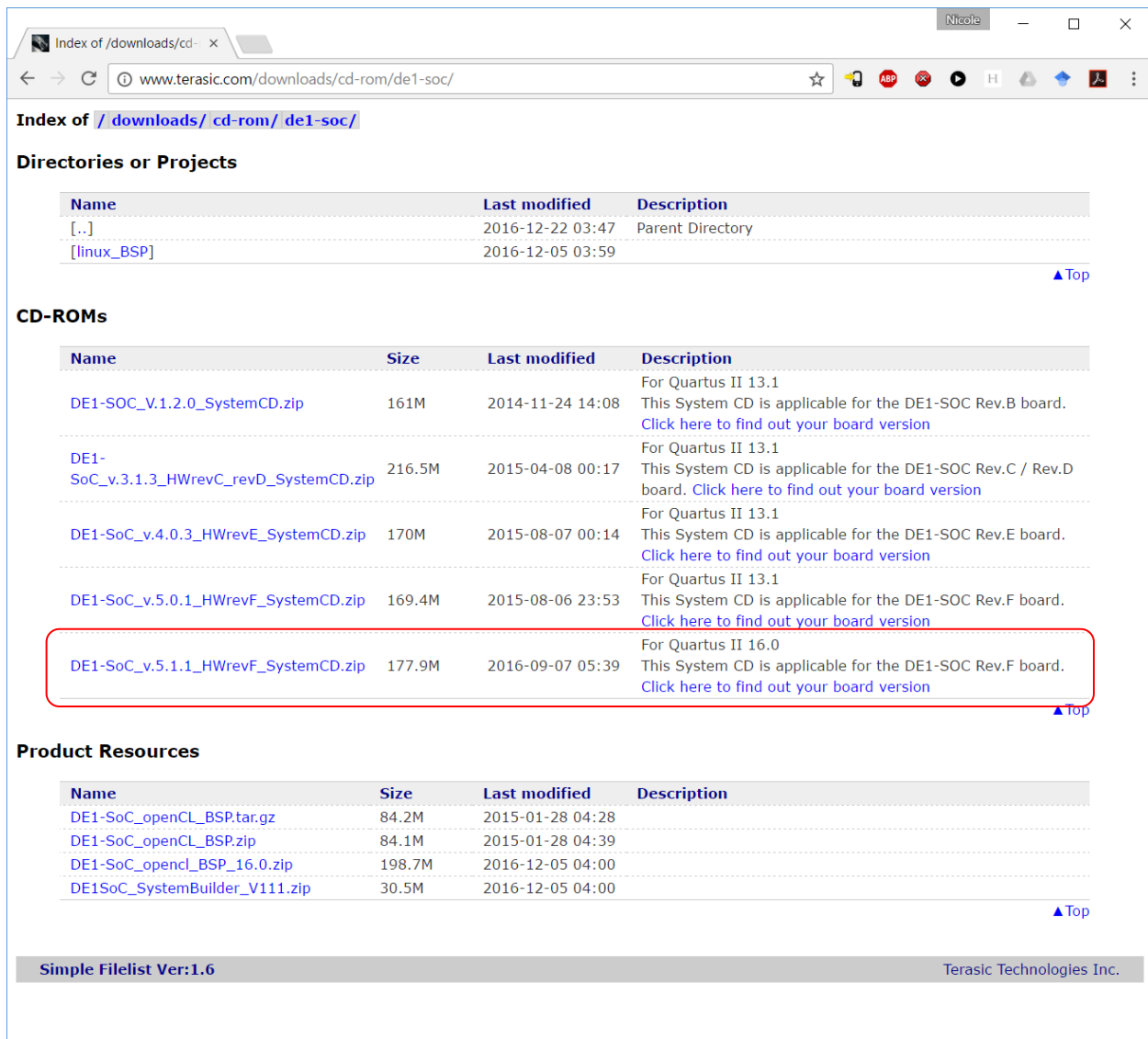
The screenshot shows the Intel Quartus Prime Lite Edition download page. The page is titled "Quartus Prime Lite Edition" and includes a navigation menu on the left with categories like Design Software, Embedded Software, Archives, Licensing, Programming Software, Drivers, Board System Design, Board Layout and Test, and Legacy Software. The main content area displays the release date (November, 2016) and the latest release (v16.1). It also shows the operating system (Windows and Linux) and the download method (Akamai DLM3 Download Manager and Direct Download). A yellow banner indicates that the software version 16.1 supports Arria II, Cyclone IV, Cyclone V, MAX II, MAX V, and MAX 10 FPGA. Below this, there are tabs for "Combined Files", "Individual Files", "Additional Software", and "Updates". The "Combined Files" tab is selected, showing a list of files to download and install. The files are grouped into "Software" and "Devices". The software files include "Quartus Prime Lite Edition (Free)", "Quartus Prime (includes Nios II EDS)", and "ModelSim-Intel FPGA Edition (includes Starter Edition)". The device files include "Arria II device support", "Cyclone IV device support", "Cyclone V device support", and "MAX II, MAX V device support". The "Quartus Prime Lite Edition (Free)" and "Cyclone V device support" files are highlighted with red boxes. A "Select All" button is visible at the top left of the file list, and an "Updates Available" button is visible at the top right.

You will need Quartus Prime Lite Edition, which includes the ModelSim simulator, plus Cyclone V device support. To download, you will need to create a free myAltera account. Expect the download will take about an hour and the install will take another hour. I

recommend installing it into the c:\altera\16.1 directory. (Other versions can be installed side-by-side on the same machine and can exchange files.)

You will also want the DE1-SoC CD-ROM (rev.F Board) version 5.1.1, which contains the SystemBuilder.exe utility. You can download as a .zip file here. I recommend creating a NEW directory, "C:\altera\DE1-SoC v. 5. 1. 1 RevF System CD", then unzipping the CD-ROM zip into that new directory.

<http://www.terasic.com/downloads/cd-rom/de1-soc/>



Index of /downloads/cd-rom/de1-soc/

Directories or Projects

Name	Last modified	Description
[..]	2016-12-22 03:47	Parent Directory
[linux_BSP]	2016-12-05 03:59	

CD-ROMs

Name	Size	Last modified	Description
<a href="#">DE1-SOC_V.1.2.0_SystemCD.zip</a>	161M	2014-11-24 14:08	For Quartus II 13.1 This System CD is applicable for the DE1-SOC Rev.B board. <a href="#">Click here to find out your board version</a>
<a href="#">DE1-SoC_v.3.1.3_HWrevC_revD_SystemCD.zip</a>	216.5M	2015-04-08 00:17	For Quartus II 13.1 This System CD is applicable for the DE1-SOC Rev.C / Rev.D board. <a href="#">Click here to find out your board version</a>
<a href="#">DE1-SoC_v.4.0.3_HWrevE_SystemCD.zip</a>	170M	2015-08-07 00:14	For Quartus II 13.1 This System CD is applicable for the DE1-SOC Rev.E board. <a href="#">Click here to find out your board version</a>
<a href="#">DE1-SoC_v.5.0.1_HWrevF_SystemCD.zip</a>	169.4M	2015-08-06 23:53	For Quartus II 13.1 This System CD is applicable for the DE1-SOC Rev.F board. <a href="#">Click here to find out your board version</a>
<a href="#">DE1-SoC_v.5.1.1_HWrevF_SystemCD.zip</a>	177.9M	2016-09-07 05:39	For Quartus II 16.0 This System CD is applicable for the DE1-SOC Rev.F board. <a href="#">Click here to find out your board version</a>

Product Resources

Name	Size	Last modified	Description
<a href="#">DE1-SoC_openCL_BSP.tar.gz</a>	84.2M	2015-01-28 04:28	
<a href="#">DE1-SoC_openCL_BSP.zip</a>	84.1M	2015-01-28 04:39	
<a href="#">DE1-SoC_opencL_BSP_16.0.zip</a>	198.7M	2016-12-05 04:00	
<a href="#">DE1SoC_SystemBuilder_V111.zip</a>	30.5M	2016-12-05 04:00	

Simple Filelist Ver:1.6 Terasic Technologies Inc.

Additional documents and helpful DE1-SoC downloads can be found here:

<http://www.terasic.com.tw/cgi-bin/page/archive.pl?Language=English&No=836&PartNo=4>