

Hello Creative Board Registrant,

In order to fully experience all that the Hands-on Seminar has to offer, you will need to download, install, and license the Microsemi Libero tool set.

**You need to do this before you arrive at the seminar location.**

- 1) To download the software and request a license, you first need to create an account with Microsemi.
- 2) Then you can download the Libero Software (note: Windows 10 is not currently supported by the Microsemi Libero SoC tool suite).
- 3) You will need both the Release and Service Pack for a complete installation. You can install either SP1 or SP1.1; either will work with these labs.
- 4) A license will need to be created for you before you can begin using the tool.
- 5) Install the license and verify that the tools will start.
- 6) Update the IP to the latest available from the Microsemi web page via the Libero tool set.

The following pages will guide you through that process.

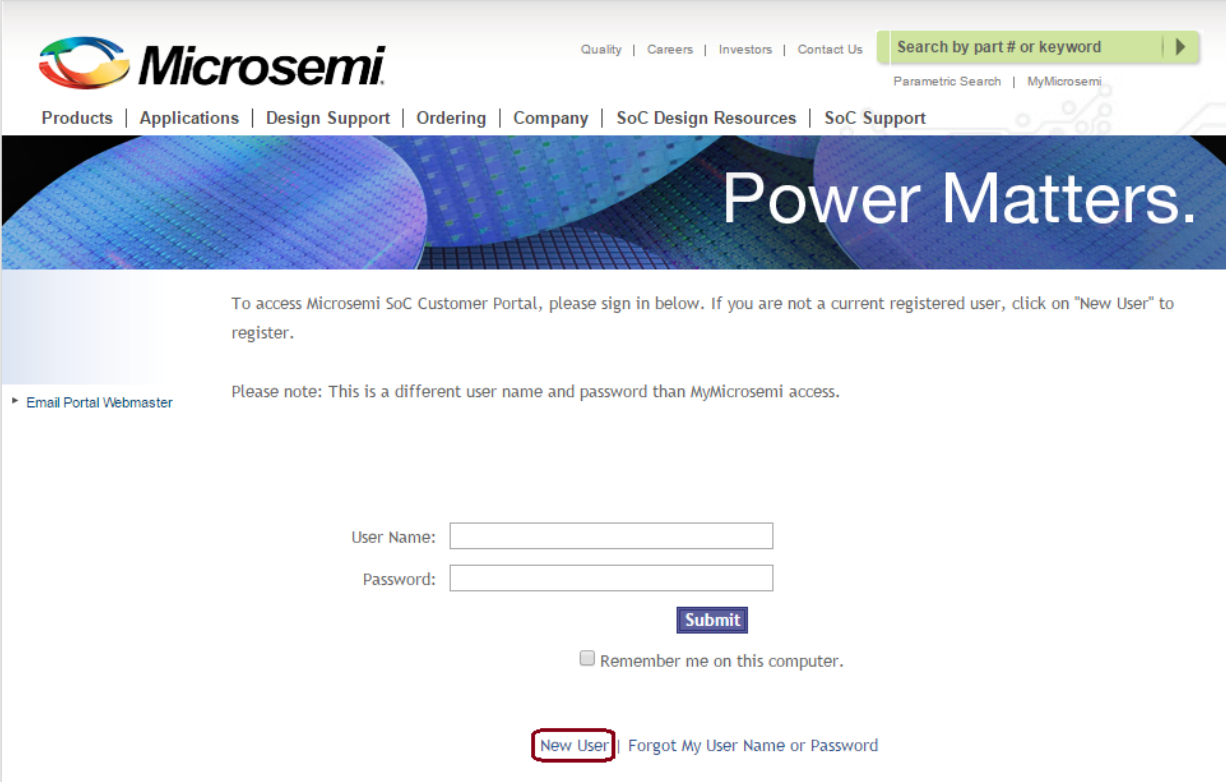
The Creative Board Team welcomes you and looks forward to your participation at our event.

## Microsemi SoC Software Installation Instructions

The instructions below will guide you through the installation of all software needed for the Future Electronics Creative Board Igloo2 seminar.

### Microsemi SoC Web Portal Registration

**You must register as a Microsemi SoC Web Portal user before you can download the Libero SoC software.** Go to the SoC Customer Portal page on the Microsemi website (<http://soc.microsemi.com/portal/default.aspx?v=0>) and click New User to register if you do not have a portal account.



The screenshot shows the Microsemi SoC Customer Portal login page. At the top, there is a navigation bar with the Microsemi logo, links for Quality, Careers, Investors, and Contact Us, and a search bar labeled "Search by part # or keyword". Below the navigation bar, there is a banner with the text "Power Matters." and a background image of a circuit board. The main content area contains a login form with fields for "User Name:" and "Password:", a "Submit" button, and a checkbox for "Remember me on this computer." Below the form, there is a link for "New User" (highlighted with a red box) and a link for "Forgot My User Name or Password".

Figure 1 - Microsemi SoC Portal Login

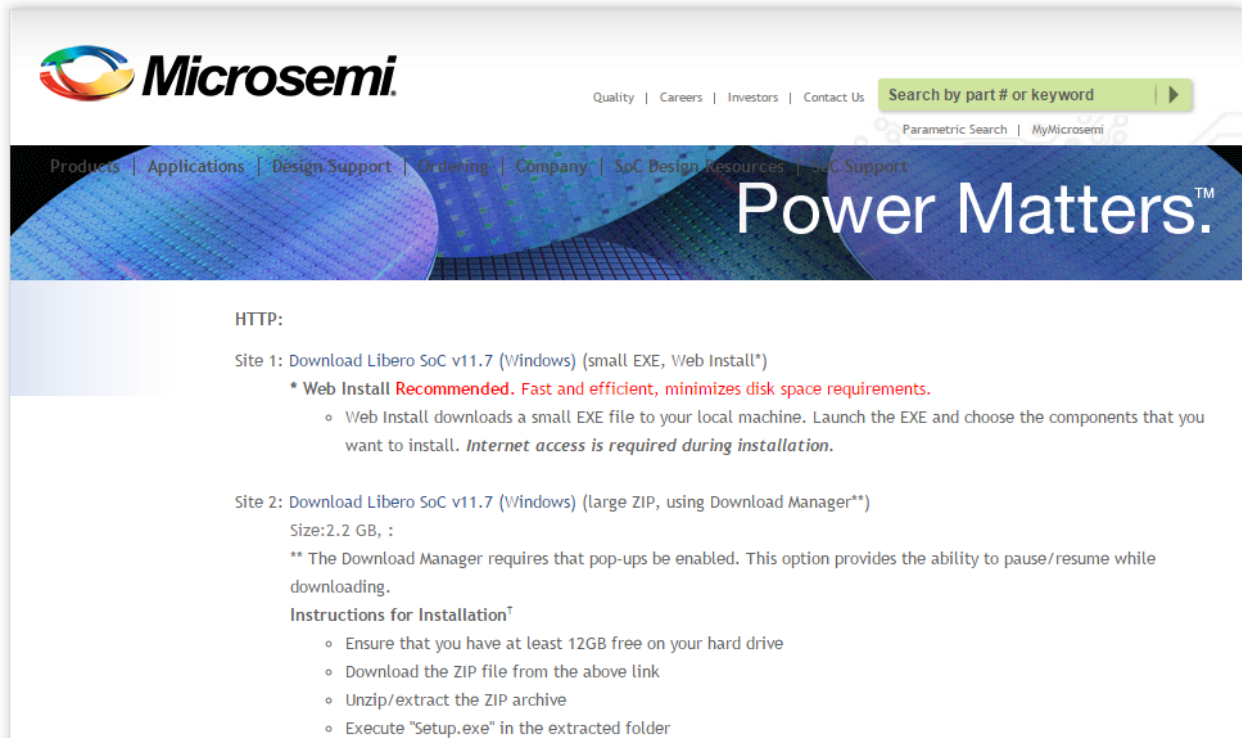
## Installing Libero SoC v11.7 and All Components

Download **Libero SoC v11.7 Software** from the Microsemi website

([http://www.microsemi.com/document-portal/doc\\_download/135769-download-libero-soc-v11-7-for-windows](http://www.microsemi.com/document-portal/doc_download/135769-download-libero-soc-v11-7-for-windows)).

There are two download choices:

- Web Install (56 MB) - The Web Install minimizes installation time and disk space requirement because only selected components are downloaded and installed. **Internet access is required during installation.**
- Self-contained EXE using Download Manager (2.2 GB); **this is the one we use.**



**Microsemi**

Quality | Careers | Investors | Contact Us

Search by part # or keyword

Parametric Search | MyMicrosemi

Products | Applications | Design Support | Ordering | Company | SoC Design Resources | SoC Support

# Power Matters.™

HTTP:

Site 1: Download Libero SoC v11.7 (Windows) (small EXE, Web Install\*)

- \* Web Install **Recommended**. Fast and efficient, minimizes disk space requirements.
  - Web Install downloads a small EXE file to your local machine. Launch the EXE and choose the components that you want to install. **Internet access is required during installation.**

Site 2: Download Libero SoC v11.7 (Windows) (large ZIP, using Download Manager\*\*)

Size: 2.2 GB, :

\*\* The Download Manager requires that pop-ups be enabled. This option provides the ability to pause/resume while downloading.

Instructions for Installation†

- Ensure that you have at least 12GB free on your hard drive
- Download the ZIP file from the above link
- Unzip/extract the ZIP archive
- Execute "Setup.exe" in the extracted folder

Figure 2 - Microsemi Libero SoC download page

Click one of the choices and save it to the HDD of your PC.

## Libero SoC v.11.7 and OEM Software (Synplify Pro, and ModelSim) Installation:

1. Self-contained exe: Extract LiberoSoC\_v11.7.zip. Open the LiberoSoC\_v11.7 folder and click setup.exe . The Installation Wizard will open.
2. (Web install: Click setup.exe. Click **Run** in the Security Warning dialog box. The Installation Wizard will open.) **(We do not use this one because some company firewalls time out.)**
3. Click **Next** in the InstallShield Wizard to start the installation.

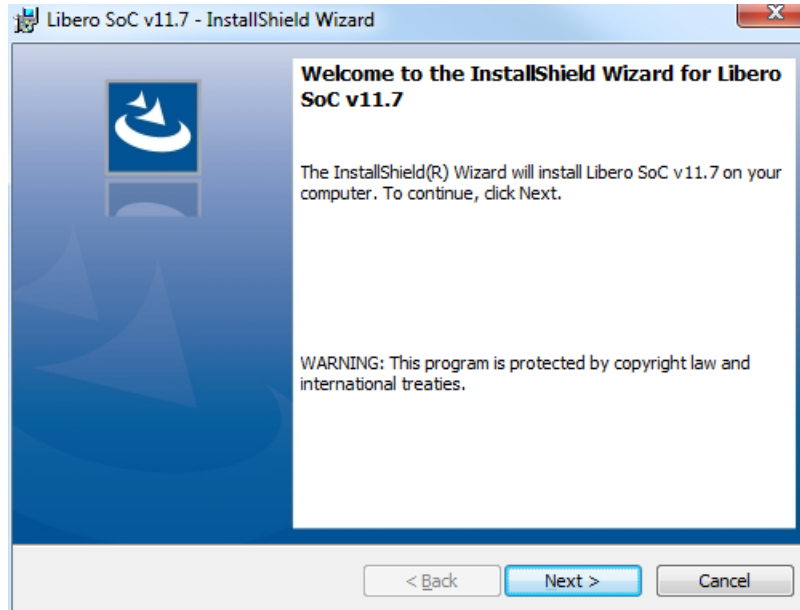


Figure 3 - InstallShield Wizard

4. Accept the license agreement in the License Agreement dialog box and click **Next**.
5. Select the destination folder. Click the Change button to change the default installation location. My preferred location is c:\tools\microsemi\<name of tools version> Click **Next**.

6. Select **Complete** in the Setup Type dialog box, then click **Next**.

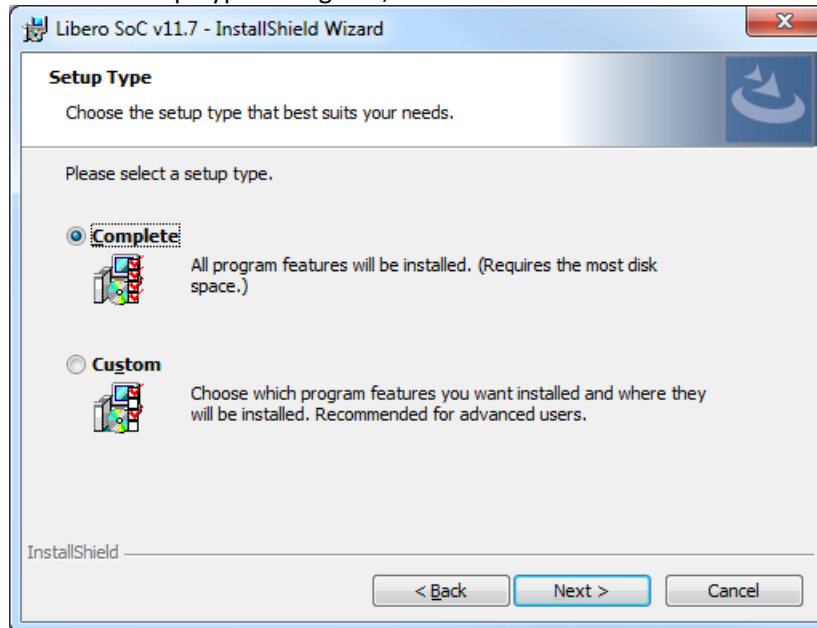


Figure 4 - Selecting the Installation type

7. Click **Install** in the Ready to Install the Program dialog box.

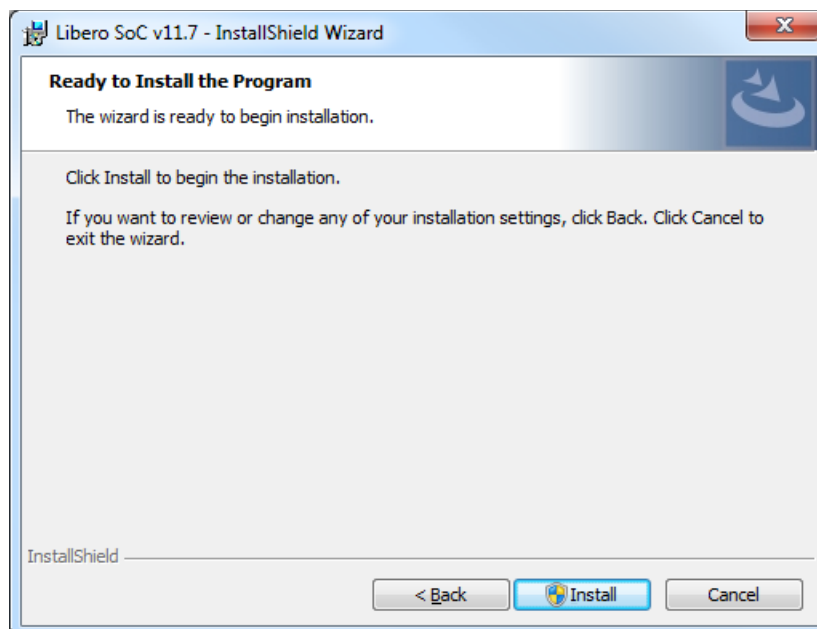


Figure 5 - Libero SoC installation features

8. Click **Finish** in the InstallShield Wizard Completed dialog box.

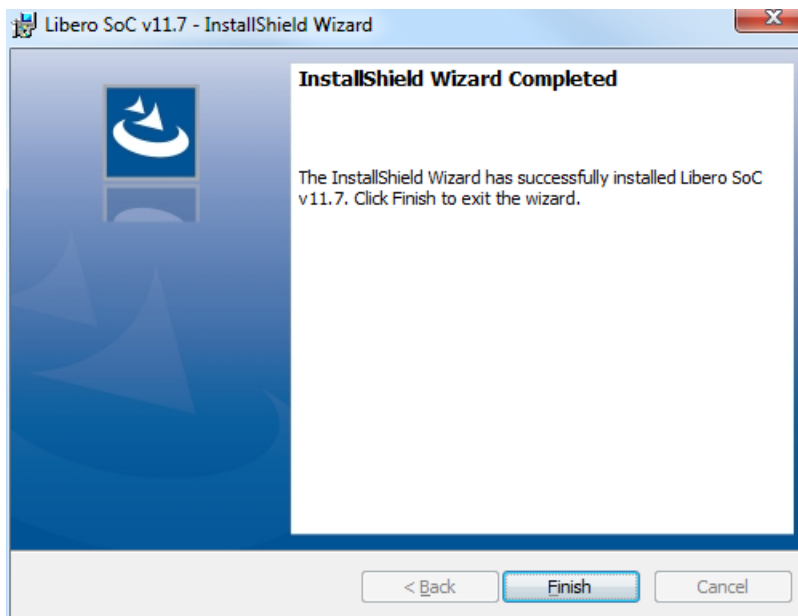


Figure 6 - Installation completed

## Licensing Libero SoC v11.7:

### Obtaining the PC DiskID

Open a DOS command prompt (Start > Programs > Accessories > Command Prompt). CD to the C drive and type vol. The DiskID will be displayed.

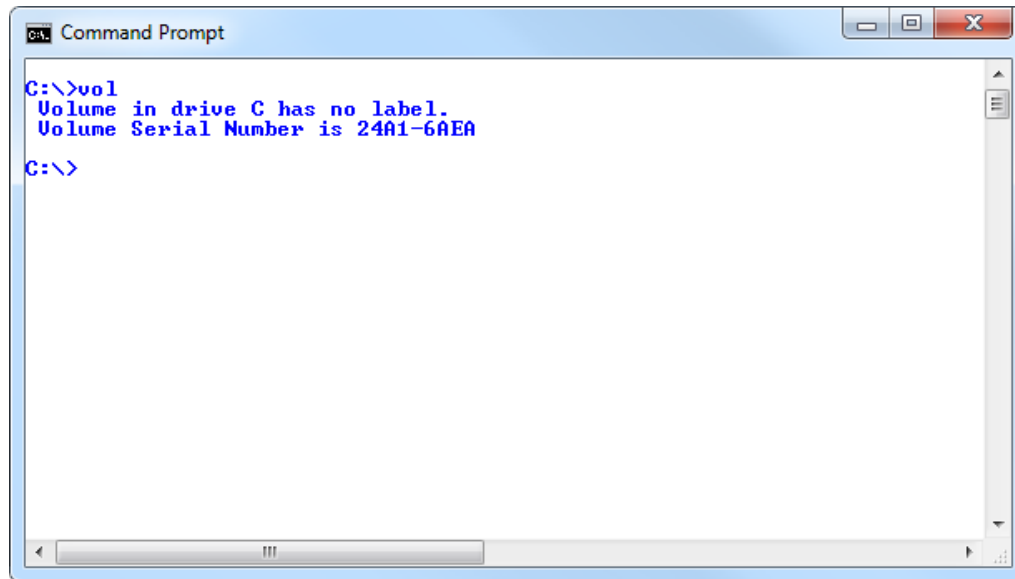


Figure 7 - Obtaining the DiskID

### Obtaining the Libero SoC Gold License:

The Libero Gold contains licenses for Libero and all the OEM tools included with Libero SoC. There is no need to contact any OEM vendors directly to obtain a license. If you already have a Libero SoC license it will work with Libero SoC v11.7. There is no need to request a new license.

Follow the steps below to obtain your Libero Gold license:

1. Log into the Microsemi SoC web portal using the link on the first page.
2. Select Licenses and Registration.
3. Click Request Free License in the Microsemi SoC Licensing page.
4. Select the desired Libero Gold Node Locked for Windows. Enter the DiskID obtained above, then click Submit.
5. The license file (license.dat) will be emailed to you. The Libero SoC license can also be downloaded from your Microsemi SoC Portal Account if needed at a later time.

### Installing the Libero SoC License:

1. Create a folder named flexlm on the C drive of your HDD, then save your license file in the folder. The license file should be named license.dat.
2. Open Windows Control Panel (**Start > Control Panel**) and select System.
3. Open the System Properties dialog box by selecting Advanced System Settings.
4. Click Environment Variables on the Advanced tab in the System Properties dialog box.
5. Search the System variables for a variable named LM\_LICENSE\_FILE.

If you do not have a variable named LM\_LICENSE\_FILE:

Create one by clicking the New button. Enter the following in the New System Variable dialog box:

Variable Name: LM\_LICENSE\_FILE

Variable Value: c:\flexlm\microsemi\license.dat

Click OK to close the New System Variable dialog box and the Environmental Variables dialog box.

If you already have a variable named LM\_LICENSE\_FILE:

Select the variable and click the edit button. Add a semi-colon (;) to the end of the line in the Variable value field and paste in c:\flexlm\microsemi\license.dat. A typical line would look something like this:

Variable Value: c:\<path to existing licenses>;c:\flexlm\microsemi\license.dat

**Note: Contact the Microsemi SoC technical support hotline ([soc\\_tech@microsemi.com](mailto:soc_tech@microsemi.com)) if you have any installation or licensing issues.**



## Downloading and Installing Libero SoC v11.7 SP1.1

Download Libero SoC v11.7 SP1.1 from the Microsemi website ([http://www.microsemi.com/document-portal/doc\\_download/136095-download-libero-soc-v11-7-sp1-1-for-windows](http://www.microsemi.com/document-portal/doc_download/136095-download-libero-soc-v11-7-sp1-1-for-windows)).

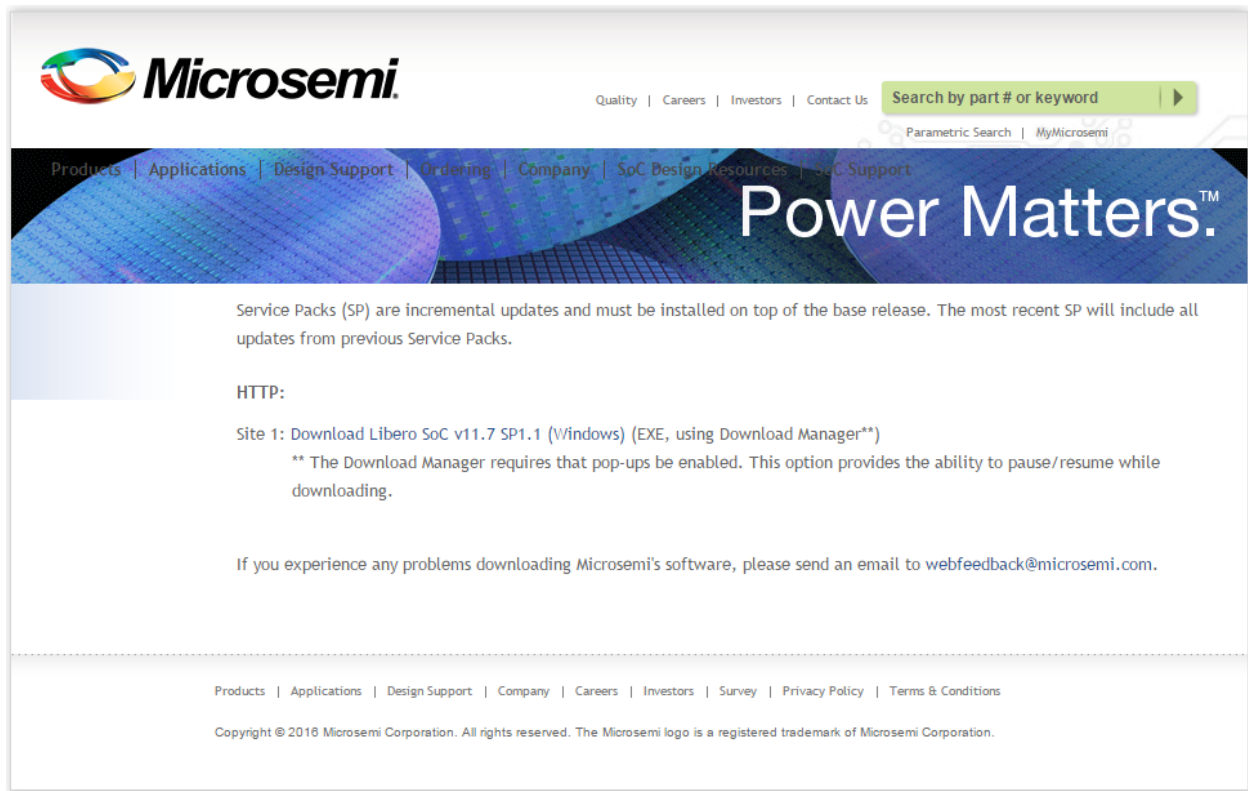


Figure 8 - Libero SoC v11.7 SP1.1 download page

### Installing Libero SoC v11.7 SP1.1

1. Download the LiberoSoCv11.7SP1.1.exe file to your local system.
2. In Windows Explorer, double-click LiberoSoCv11.7SP1.1.exe or, in a DOS Shell, type LiberoSoCv11.7SP1.1.exe at the command prompt.

## Updating the Libero SoC IP Vault

Follow the instructions below to update the Libero SoC IP vault:

1. Launch Libero SoC. Make the IP catalog visible by selecting **View > Windows > Catalog**.
2. Click the triangle to the right of the gear symbol (circled below) at the top of the IP catalog.

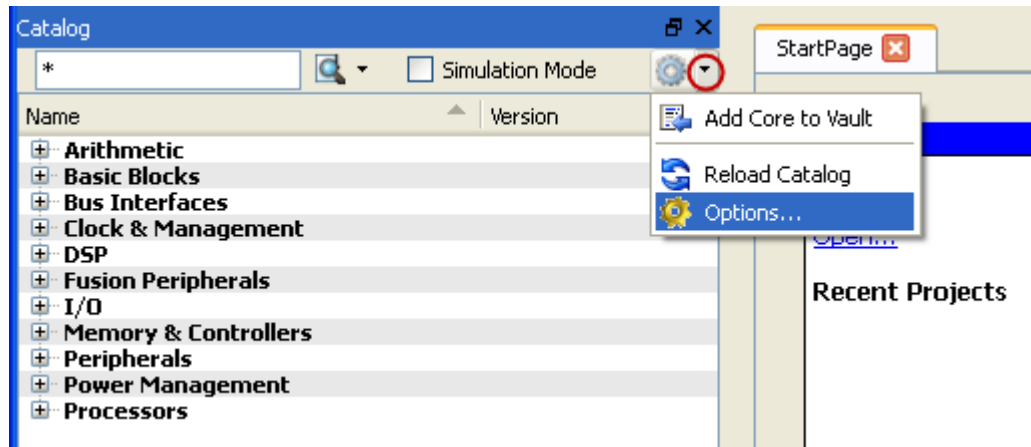


Figure 9 - Libero IP Catalog Options

3. Select Options from the pull-down menu. The Options dialog box will open.
4. Select **Repositories** under Vault / Repositories Settings.
5. Click **Defaults**. Confirm that the following repositories are displayed (if necessary, add them):
  - [www.actel-ip.com/repositories/SgCore](http://www.actel-ip.com/repositories/SgCore)
  - [www.actel-ip.com/repositories/DirectCore](http://www.actel-ip.com/repositories/DirectCore)
  - [www.actel-ip.com/repositories/Firmware](http://www.actel-ip.com/repositories/Firmware)

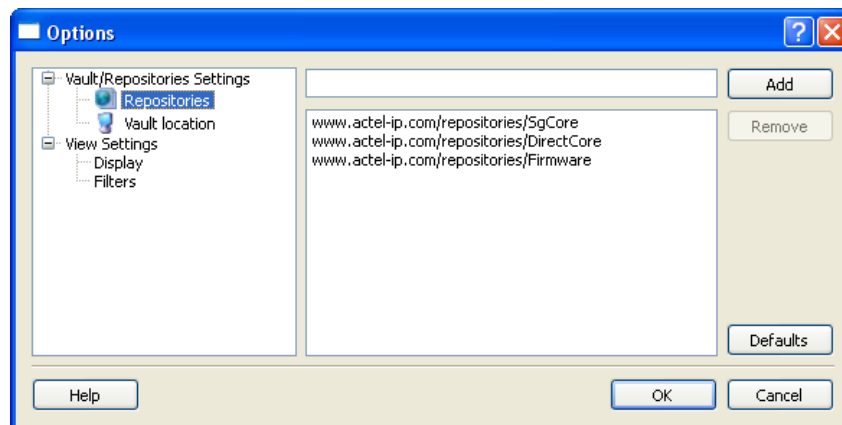


Figure 10 - IP Repositories

6. Click **OK** to close the Options dialog box.
7. Look for the message "New cores are available" at the bottom of the IP catalog window. "Click Download them now!" to download the cores.

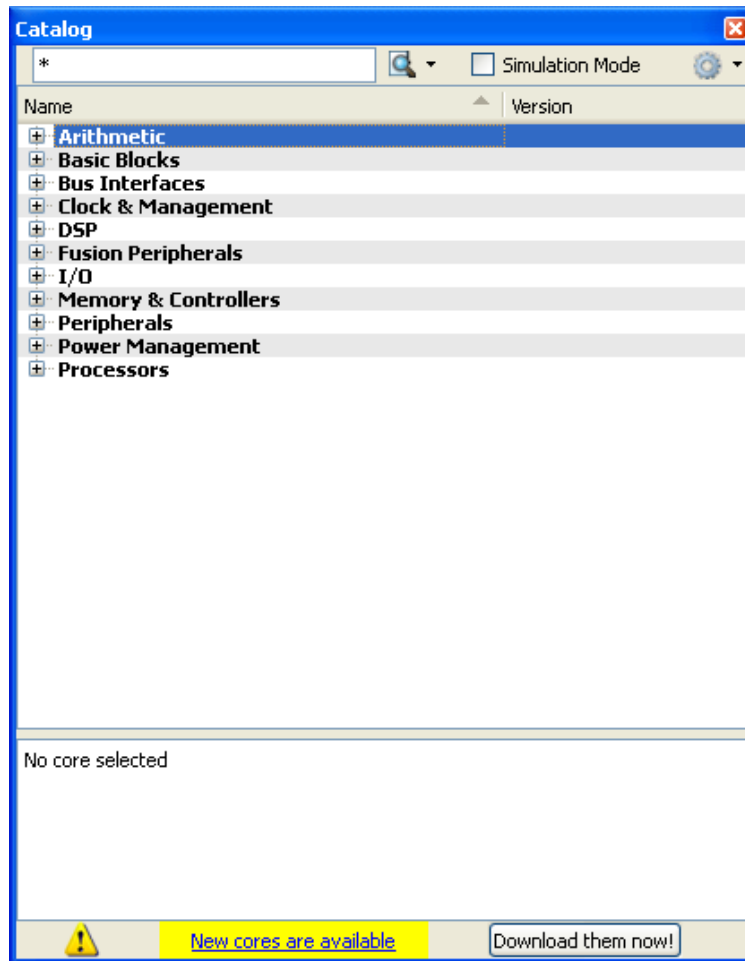


Figure 11 - IP Catalog with available cores for download