

New Horizons



Wednesday, October 27, 2010

Designing with an Actel FPGA. Part 2

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Welcome to my blog

My name is Sven Andersson and I work as a consultant in embedded system design, implemented in ASIC and FPGA.

In my spare time I write this blog and I hope it will inspire others to learn more about this fantastic field. I live in Stockholm Sweden and have my own company

ZooCad Consulting

Contact

You are welcome to [contact me](#) and ask questions or make comments about my blog.

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Your MAC ID is a 12 character hexadecimal number set with valid characters A-F and/or 0-9. Ex: "1234abcd5678"

MAC ID

[How to find a DiskID, HostID or MAC ID](#)

Use this command to find the MAC address on a Linux host: ifconfig

Look for the HWaddr in the eth0 listing. Enter the MAC ID and click Submit. The license file will be sent to the email address we have registered at Actel.

License email

LicenseServer@actel.com [LicenseServer@actel.com]

Skickat: den 25 oktober 2011 18:31

Till: Sven-Åke Andersson

Bifogade filer: [License.dat \(6 kB\)](#)

Thank you for using Microsemi's Libero IDE software.

 The attached license enables operation of Libero IDE Eval per the terms of the license agreement you accepted during your software installation.

FLOATING LICENSE INSTALLATION

Please carefully follow the instructions below to install your license on your Windows or LINUX server.

DOWNLOAD LICENSE SERVER DAEMONS

The necessary license manager daemons for your Server platform must be downloaded from <http://www.actel.com/products/software/libero/licensing.aspx#daemons>. In the License Server Daemons section, select the correct platform download. We recommend placing these files into the same location as the license.dat file (platform specific instructions follow).

Download license server daemons

Before we can use a floating license we have to have a license server running on our host or on a separate license host machine. We can download the necessary license manager daemons from [here](#).

License Server Daemons

License manager daemons are required for server-based (Floating) licenses. They are bundled independently for download to allow users to host their Libero IDE license on their preferred server platform.*

Complete installation instructions can be found in [Actel Libero IDE Software Installation and Licensing Guide](#)

Download	lmgrd/lmutil/lmhostid	actlmgrd	snpslmd	synplctyd	mgcld	syncad
Windows Daemons	v11.9.0.0	v11.4.100.0	v11.6.1.6	v10.8.2.1	10.8.5.0	6.1c
Linux Daemons	v11.9.0.0	v11.4.100.0	v11.6.1.6	v10.8.2.1	10.8.5.0	6.1g
Solaris Daemons	v11.9.0.0	v11.4.100.0	v11.6.1.6	v10.8.2.1	10.8.5.0	6.1c

We will place all files in the same directory. Don't forget to change the file permissions to execute (chmod 755 lmgrd) for all the daemon files.

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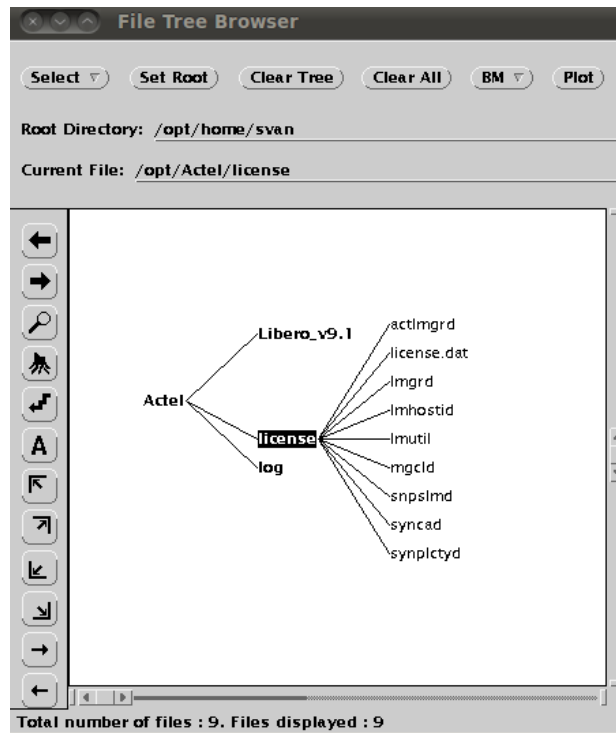
World of ASIC

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Editing the license file

The following changes must be made to the license file.

- Replace host_name with the host name of our license server (Superdatorn)
- Set the right path to the actlmgrd daemon
- Set the right path to the mgcld daemon
- Set the right path to the snpslmd daemon
- Change the port number (1702) if already in use

```
SERVER Superdatorn 0e1e4fe5253e 1702
DAEMON actlmgrd /opt/Actel/license/actlmgrd
DAEMON mgcld /opt/Actel/license/mgcld
VENDOR snpslmd /opt/Actel/license/snpslmd
```

```
FEATURE ACTEL_EVAL actlmgrd 9.1 09-dec-2011 1 SIGN=2F4A8F1A96A6
```

Setting environment variables

Put these settings in your .bashrc file. Replacing 1702 with your port number and Superdatorn with the host name of your host.

```
export LM_LICENSE_FILE = 1702@Superdatorn
export SNPSLMD_LICENSE_FILE = 1702@Superdatorn
```

Setup a log directory

Without a log file specified in license server startup command, all the messages from the license server will be written to the console. Make sure the log directory has write permissions for all.

```
--> sudo chmod 777 /opt/Actel/log
```

Starting a license server

In our environment we will use this command to start the license server:

```
/opt/Actel/license/lmgrd -c /opt/Actel/license/license.dat -l /opt/Actel/log/lic_log.log
```

Use this command to check the status of our licenses:

```
/opt/Actel/license/lmutil lmstat -a -c /opt/Actel/license/license.dat
```

If not running on a dedicated license server host we have to start the license server every time we login.

Problems starting the license server

If we get the message "command not found" there is a solution to the problem found [here](#).

Solution

FlexNet versions 11.8 and above requires the Linux Standard Base (LSB) 3.0 components in order to run on Linux systems. LSB is an open standard meant to simplify software support across multiple Linux distributions. To install the full LSB package on a Debian system, execute the following command:

```
--> sudo apt-get install lsb
```

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Posted at 13:14 by [svenand](#)

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