# ECE241F - Digital Systems - Access to CAD Software

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The lab in this course depends heavily on the use of CAD software to implement the circuits, usually on a programmable logic device. We will be using Complex Programmable Logic Devices (CPLDs) from Altera, and Altera's **MaxPlus2** CAD software. This is one of the best software packages available in industry today.

You will be able to access this software in one of four ways:

#### 1.0 On your own home computer.

If you have a windows-based (95/98 or NT) home computer with at least 16 MBytes of physical RAM and at least 32 MBytes of total virtual RAM space.

A CD ROM is supplied in the back of the textbook which contains the software. It is a student version in that it can only compile for the devices we use in the lab: - the Max 7128 and Flex 10K20. You will have to obtain a license by visiting the Altera web site, www.altera.com, as indicated on the CD.

## 2.0 On the Windows Machines in the lab - GB 144/150 & SF 2201

There are 75 Pentium & Pentium II based Windows 95 machines in the GB 144/150 and SF 2201 labs. These will have the latest release of the full-blown Altera software installed on them. These machines will have access to your home directory on the ECE ugsparc system.

## 3.0 On the ECE UGSPARC System

The Unix version of the full-blown Maxplus2 is installed on the ECE ugsparc system, in Room GB251. Your account on that system has the same name and password as your ECF account from last year. If you do not have an ECF account, request one at room GB 154.

To start maxplus2 on EECG ugpsarcs, type:

/cad1/maxplus/bin/maxplus2.start

## 4.0 On the ECF System

Maxplus2 is not directly available on the ECF Unix systems. However, you can remotely login to one of the ugsparc machines (on Unix using the **rlogin ugsparcXX.eecg** command, where XX is a number from 1 to 26 or 50 to 74). Once log'd in, you have to set the display that the ugsparc machine uses in the following way:

#### setenv DISPLAY spark22.ecf:0.0

Here you should replace spark22.ecf with the name of the ECF machine you are sitting at.