

EE475 Lab #2 Fall 2003

Using WindRiver's VxWorks Target Simulator

This lab will provide an introduction to a commercial RTOS (real-time operating system) that is widely used in industry. The lab will use the simulator for VxWorks, which allows real-time embedded code to be developed and analyzed in a hardware independent setting.

First, log into one of the lab computers in Cobleigh 601.

Assignment

For the lab, follow the Tornado tutorial provided in the back of the lab manual (white binder). Use a temporary directory in the `c:\EEClasses\EE475` tree. Go through the tutorial—including making the code modifications as instructed to eliminate the bugs found in the example program.

Note: The arguments for the function `taskSpawn()` found in the tutorial program `cobble.c` are:

```
id = taskSpawn ( name, priority, options, stacksize, main, arg1, arg10 );
```

To get credit for assignment : Show the instructor that the task that wouldn't run due to a priority bug is fixed and can be seen running in the debugger (as seen in the tutorial figure).

Lab Report

The lab report is to be written up in the Memo format. Be sure to put the *lab number* in the Memo header along with your name and date. The lab title goes in the body. Include **commented** C code and explain what the bugs were and what you did to fix them. Don't include all the source code, just the sections you modified. Include this instructor verification sheet as well.

The lab report is due the beginning of the next lab period (1 week from today's lab).

**Instructor Verification
Lab #2 Fall 2003
(To be turned in with lab report)**

Student Name:

	Instructor Signature	Date
task tCrunch runs		