Project III

Announcement: There is no Daily Assignment for Tuesday, March 4

Due: Tuesday, March 4, 9:30 am

Hand your answers back to me either via email (kvollmay@bucknell.edu) as textfile (not word document) or as hardcopy.

1.1 Use your traffic flow program or a solution (see below) and do a variation on it. For example add a traffic light to it, or a second intersecting road or change the rules of the one dimensional model, or any other variation of your choice. Program your variation.

1.2. Run your program with varying parameters such as pcar. Observe carefully and take precise notes. Rich, Nick and Eric, you might want to have a look at $v_{av}(t)$ and any other quantities we discussed in class.

1.3 Write an about 2 pages long paper about 1.1 and 1.2. The paper should contain a short introduction which explains which task you tried to do. The next section should explain what exactly your new model is, such that everybody in class could write a program, which does exactly the same as what your program does. Include a complete list or description about which parameters you used. Then describe your results. What have you observed? End with some conclusion and/or ideas for future work.

1.4 You will present 1.3 also orally in class in an 8 – 10 min long talk. Prepare, so that you can give a clear presentation.

2. What of this assignment and the last class did you find most interesting and/or most difficult?

Solutions:
"kvollmay/classes.dir/capstone_s2003.dir/traffic.dir/traffic8.cc etc."