

Abstract

This report is about the design and implementation of a program, which simulates automobile traffic queues in a crossroad junction. This program is called simuttraffic. It enables the user to enter specific value in a set of parameters, which alter the traffic queues behaviour.

It then will simulate the traffic queues depending on those parameters values, display the automobile queues as they are being simulated, and then display the statistical results of the simulation. This will create a semi virtual environment for the user to evaluate different traffic light sequences, so that a suitable sequence could be found for a specific crossroad traffic light junction.

Simuttraffic could be a very helpful tool for many traffic engineers. Though, its just a simple simulation program, it can be a base for an excellent traffic simulation program that could have significant impact on how traffic junction are deployed.