
Evaluating Tolling Strategies using DYNASMART-P

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Tolling Strategy Analysis using DYNASMART-P

- **Toll Analysis Capabilities in DS-P**
 - Fixed toll
 - Congestion pricing
 - Time-varying toll
 - Congestion responsive toll
- **Understand the characteristics of tolling strategies on**
 - Toll revenue
 - Traffic condition

Tolling Strategy Analysis using DYNASMART-P

■ Test network scope

- Houston 610/I-45/Hardy Tollway
- Scenario Setup
 - Afternoon peak hours (heavy traffic NB)
 - Tolling Harding tollway
 - Base line (0 cent/mile)
 - 10, 20, 30 , 40, 50, 100, 200, 300, 400, 500, 1000 (cent/mile)
- MoE
 - Toll revenue
 - Avg. Travel Time

I-45

Harding Tollway

Harding Tollway

Loop 610

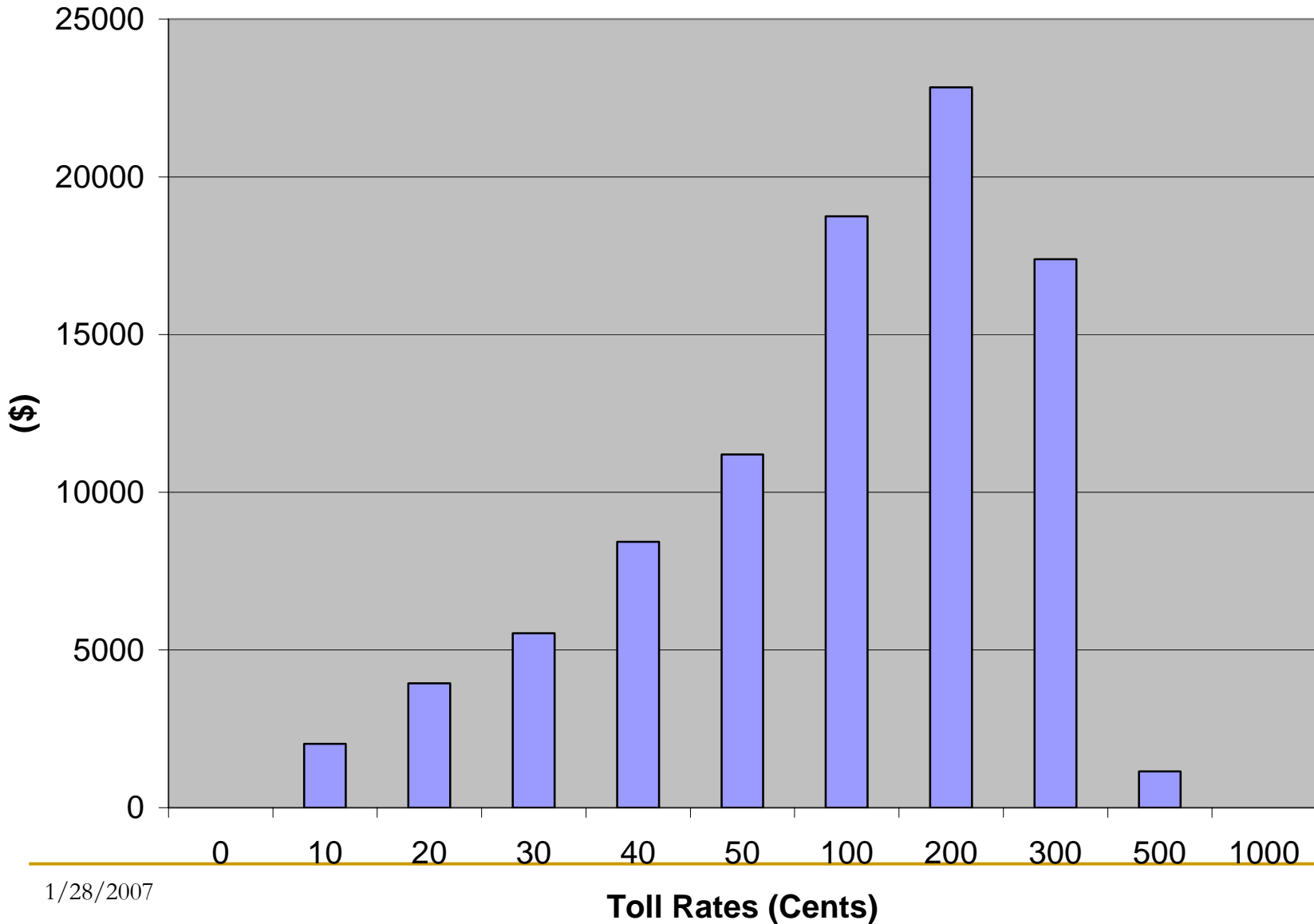
Toll

Toll

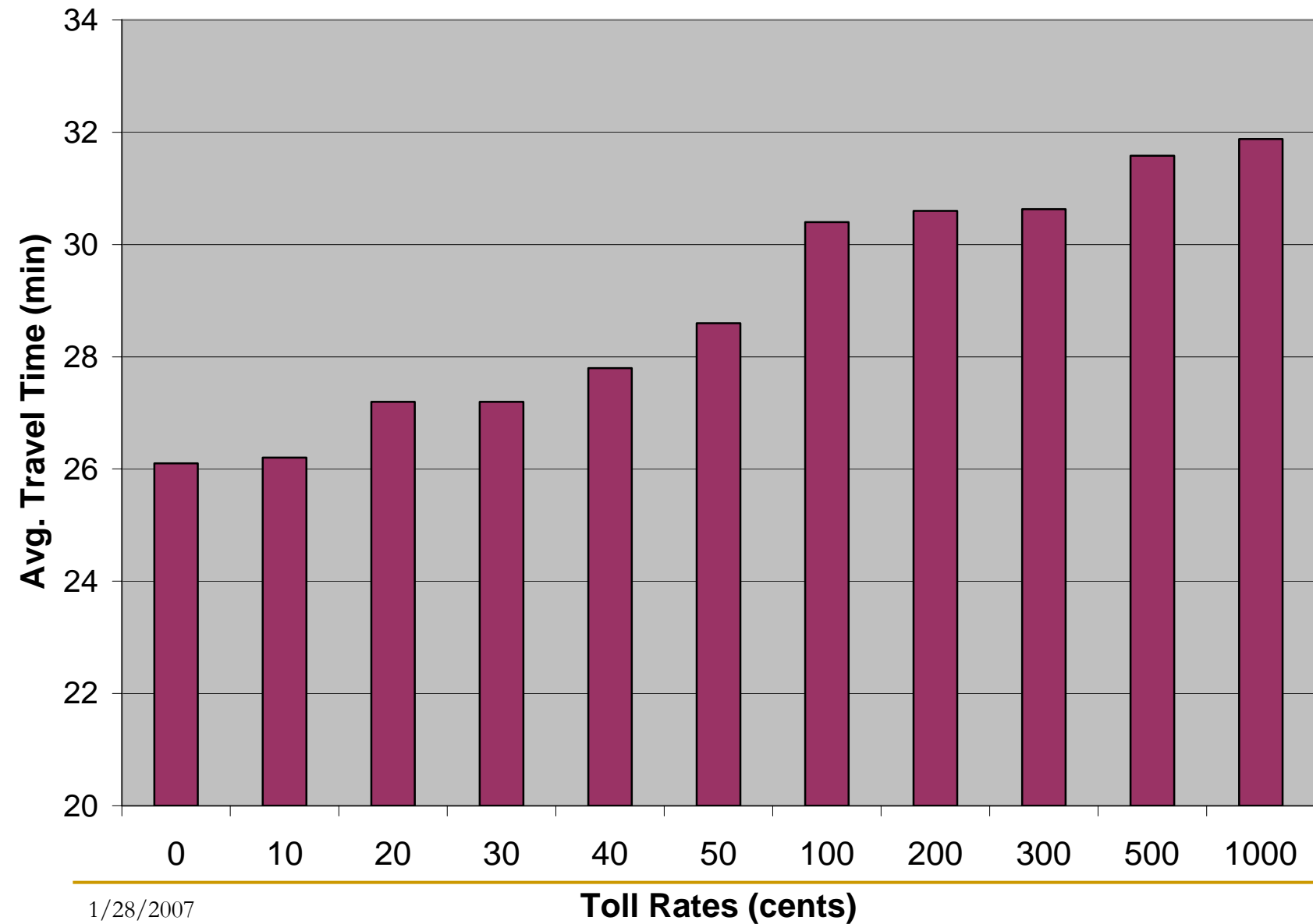
Toll



Toll Revenue



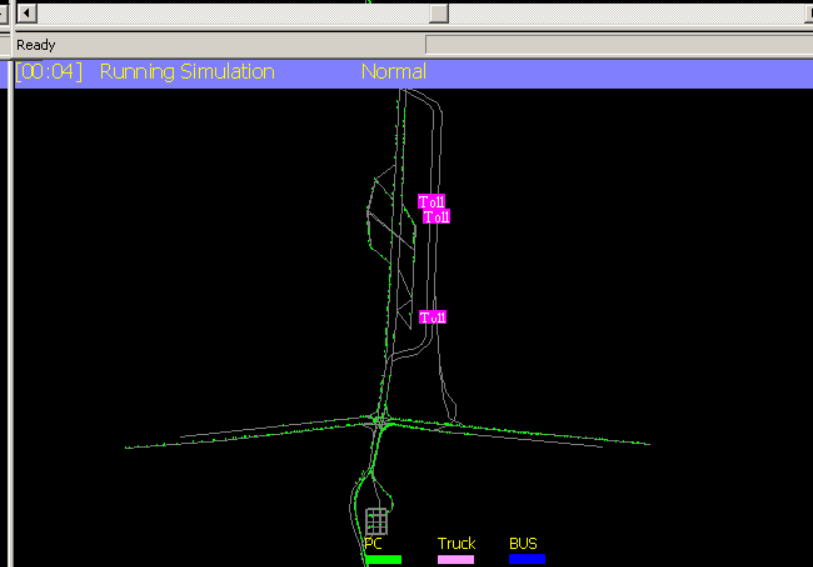
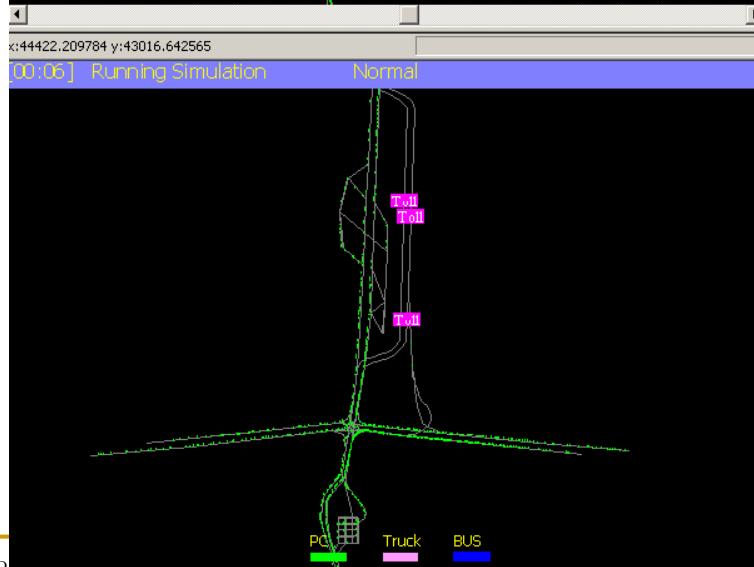
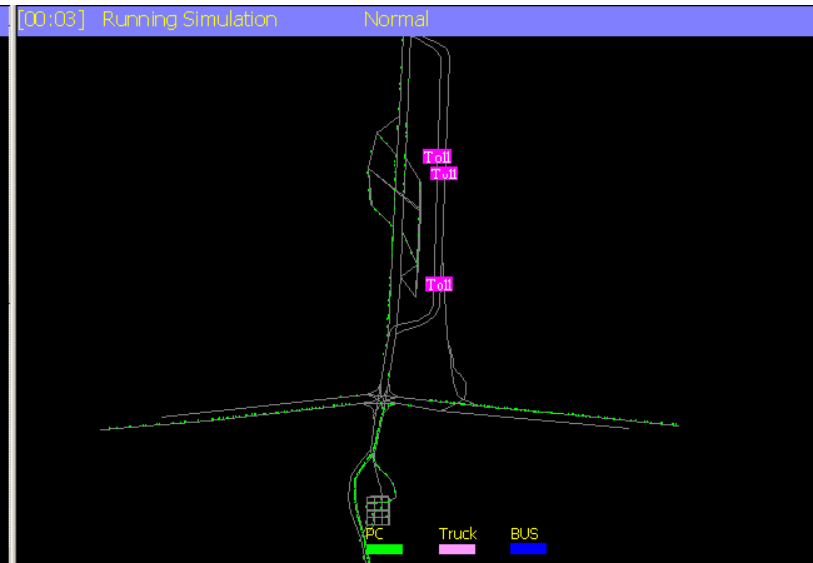
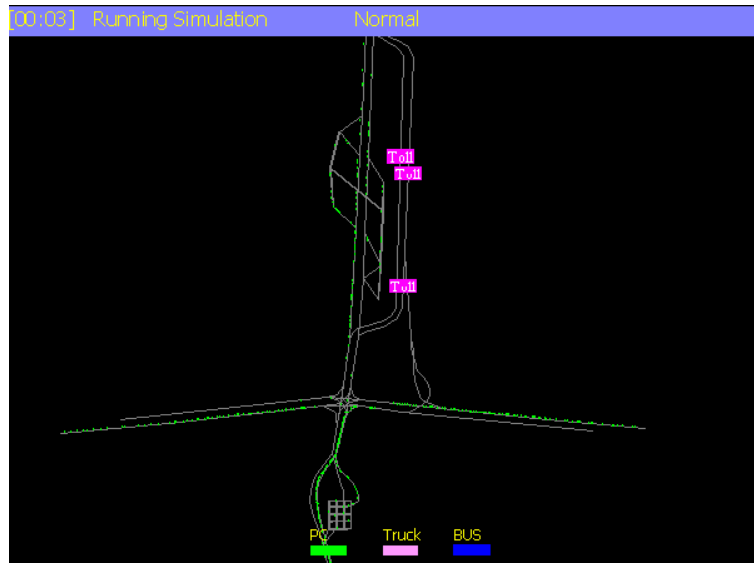
Avg. Travel Time



Traffic Pattern for Selected Toll Scenarios

10 cent/ml

30 cent/ml



300 cent/ml

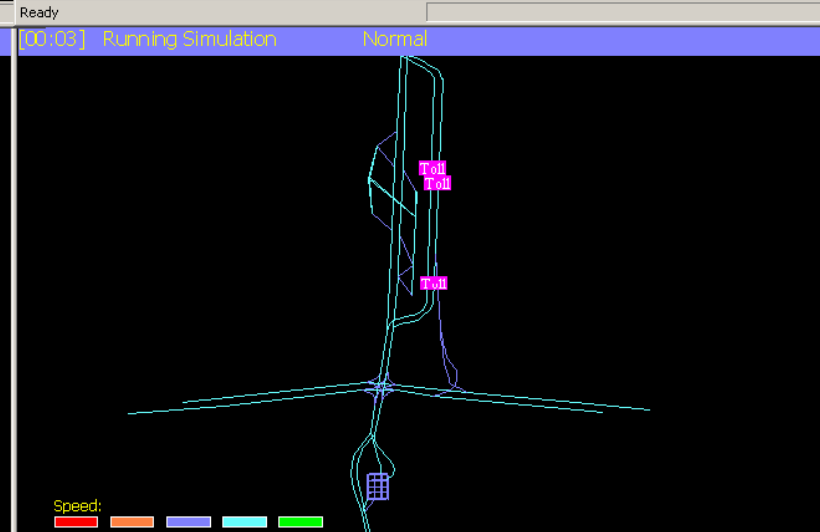
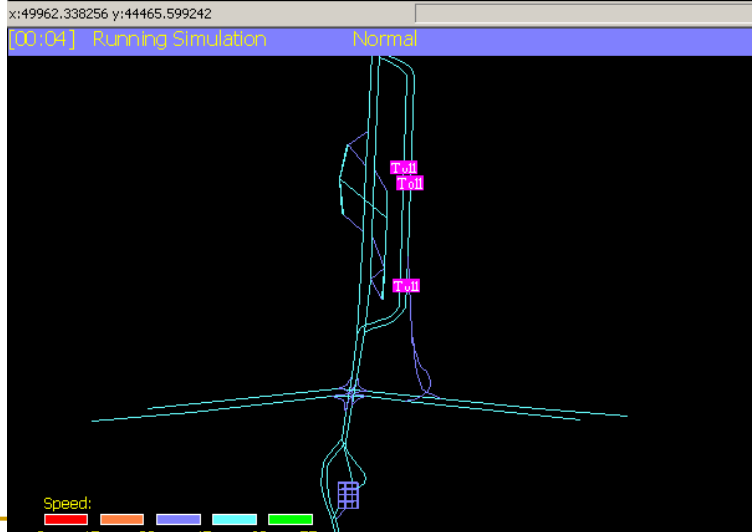
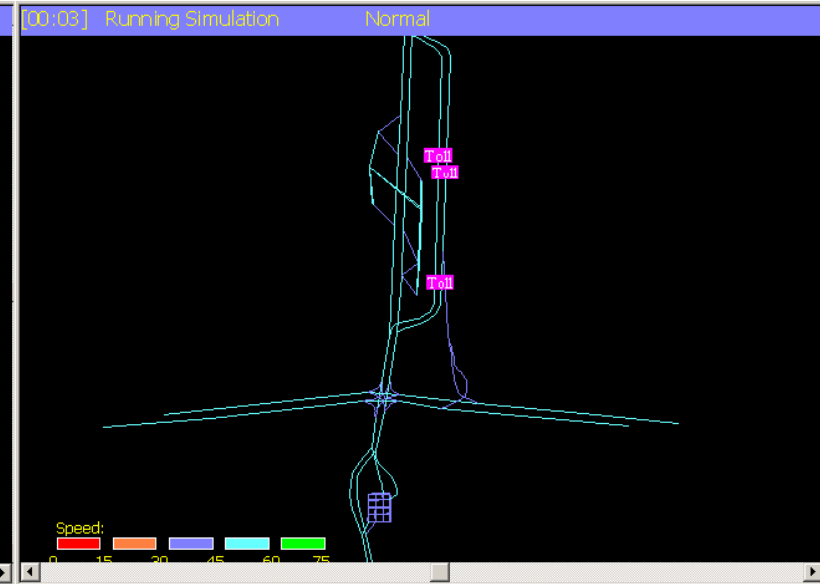
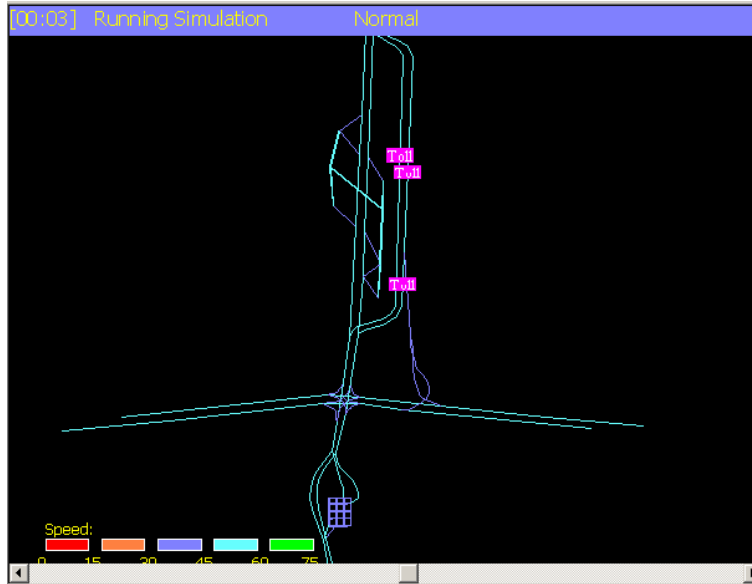
1000 cent/ml



Traffic Pattern for Selected Toll Scenarios (speed)

10 cent/ml

30 cent/ml



1/28/2007

300 cent/ml

1000 cent/ml

