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EKKACHAI KUNNAWUTTIPREECHACHAN : SIMULATION OF
TRAFFIC FLOW ALONG TEST ROAD BY PARAMICS TECHNIQUE.
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Traffic flow in networks is a problem of great technological interest. There are many methods that researchers use to solve this problem. Simulation technique is one that is used widely for the solution of the problem of traffic flow in networks. A traffic simulation model is presented to study behavior of traffic flows or traffic streams. There are many simulation models of traffic flow that can describe the characteristics of vehicles in road traffic. PARAMICS is a microscopic traffic simulator model for simulations of traffic congestion in large-scale road networks.

In this thesis we used some models and techniques from the PARAMICS simulator model to simulate traffic flow along a test road. The result of numerical simulations of this simulator model showed the speed distributions and characteristics of traffic flow on the test road. We studied the relationship between parameters and constraints that affect traffic flow. This study is a part of larger study on the road traffic flow system to be developed for the study of more complex road traffic systems in the future.