Chapter 7

Conclusions

In this thesis, we study the performance analysis and evaluation for departure process at multi-traffic networks with priority control. The results obtained in this study also include simulation experiments. By using the Markov chain method, we established a tractable analytical model for the system. Based on the analysis, we may calculate the mean and variance of inter-departure times of VBR and ABR. The impact of several parameters on the system performance is presented through some simulation results. The results in this study should have useful applications in the estimation of queue parameters from observations made on the departure processes and also in the study of queues in tandem.