EE384Y Course Project Proposal
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Project topic
Study of delay bounds of IQ switch with different scheduling algorithms

Project schedule
1. Read the selected papers on the state-of-the-art delay bounds of IQ switch with respect to some different scheduling algorithms. (04/19-04/24)
   Papers to read:
   2) Delay bounds for the approximate maximum weight matching algorithm for input queued switches, 2002, by Devavrat Shah, Milind Kopikare
   4) On the speedup required for combined input and output queue switching, 1997, by Balaji Prabhakar, Nick McKeown

2. Analyze the delay bounds with respect to the existing scheduling algorithms, design a new scheduling algorithm, prove its throughput property and delay property, compare its implementation complexity with the existing scheduling algorithms, and do simulation study to show empirical result. (04/25-05/21)
   1) brainstorm for such new scheduling algorithm ideas (04/25-04/29)
   2) conduct the analytical model and mathematical calculations (04/30-05/05)
   3) proceed the simulation study (05/06-06/15)
   4) wrap up and review (05/16-05/21)

3. Write a project report and make a presentation. (05/22-06/05)
   1) finish the draft report (05/22-05/25)
   2) make the presentation (05/22-06/05)
   3) complete the final report (05/26-06/05)