CS244 PA2 Writeup

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Warmup exercise A

Warmup exercise B

Warmup exercise C

This delay-triggered scheme doesn't work very well. Below are our various results from runs.

Linear increase, exponential decrease, thresh = 75: $\frac{1.55}{0.205}$ = 7.56 Linear increase, linear decrease, thresh = 75: $\frac{2.46}{0.479}$ = 5.14 Exponential increase, exponential decrease, thresh = 75: $\frac{2.46}{0.220}$ = 11.18 Exponential increase, exponential decrease, thresh = 100: $\frac{2.90}{0.289}$ = 10.03 Exponential increase, exponential decrease, thresh = 85: $\frac{2.58}{0.229}$ = 11.26

Exponential increase and decrease with a threshold of 85ms worked the best. We believe this is because it allows the window to more rapidly adjust to changing network conditions compared to linear adjustments. Also, a threshold too low doesn't optimize for throughput, while a threshold too high adjusts too late.

Warmup exercise D