

PA3 Writeup

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Which backoff protocol appears to give the best (lowest) average latency value as the number of devices tends to infinity?

Answer: LogLog

Which backoff protocol appears to give the worst (highest) average latency value as the number of devices tends to infinity?

Answer: Linear

Why do you think the worst (in terms of latency) protocol is behaving so poorly compared to the

other two?

For each iteration, the linear backoff protocol only increments the window size by 1. This increases the likelihood of devices succeeding very slowly compared to the other protocols, which increase their window sizes by much more.

