

### PA3

Dylan Tribble

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

LogLog

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

Linear

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

Linear backoff seems to perform the worst due to limited adaptability and inefficiency with a large number of devices. It has a fixed rate at which it increases the window size meaning that backoff time increases linearly each send failure. This leads to longer wait times as devices increase from the frequent collisions since a large enough window is not always created.

