Simulation of Plain and Slotted Aloha

Throughput of Plain & Slotted ALOHA vs Packet Duration
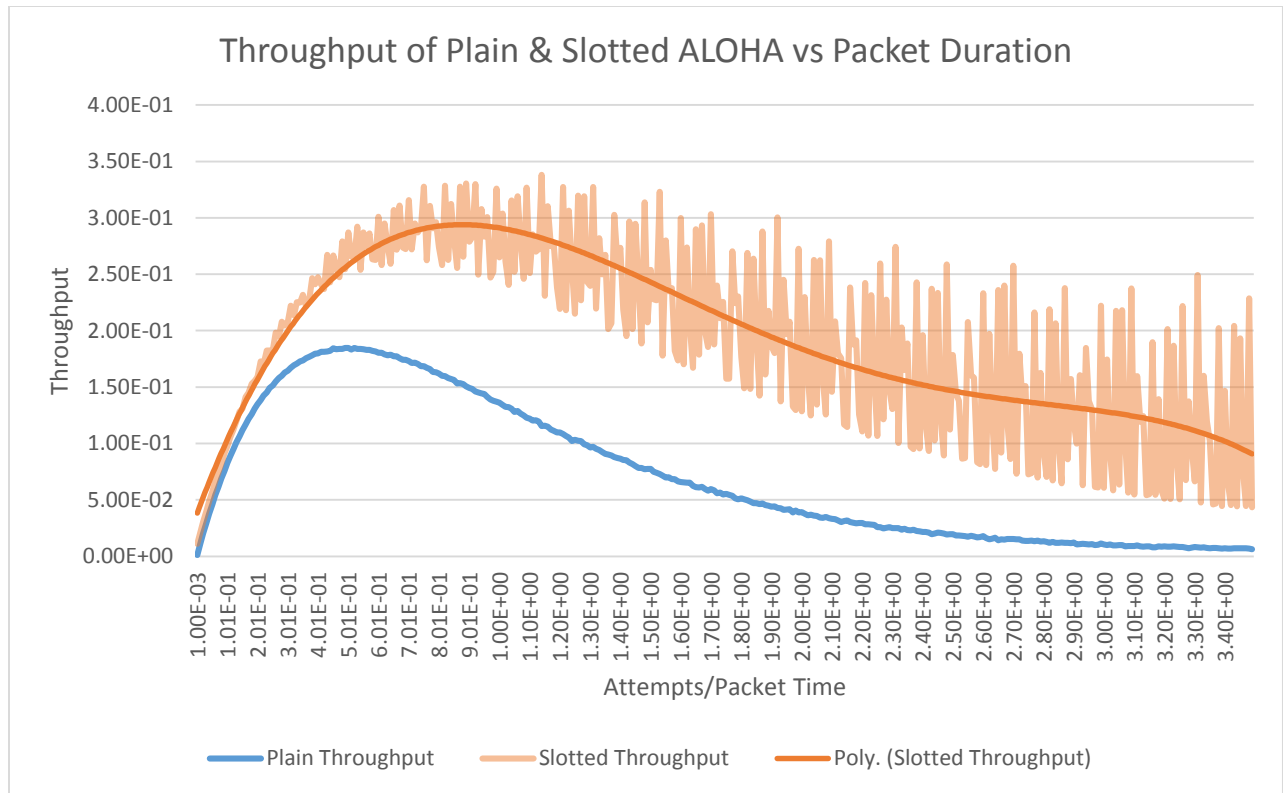
The graph shows the throughput of plain and slotted aloha. Based on the data gathered and a trend line, the optimal number of transmission attempts per packet duration is approximately 0.5 for slotted aloha and 1 for plain aloha. The data also shows that slotted aloha has a higher throughput for any packet duration specified.