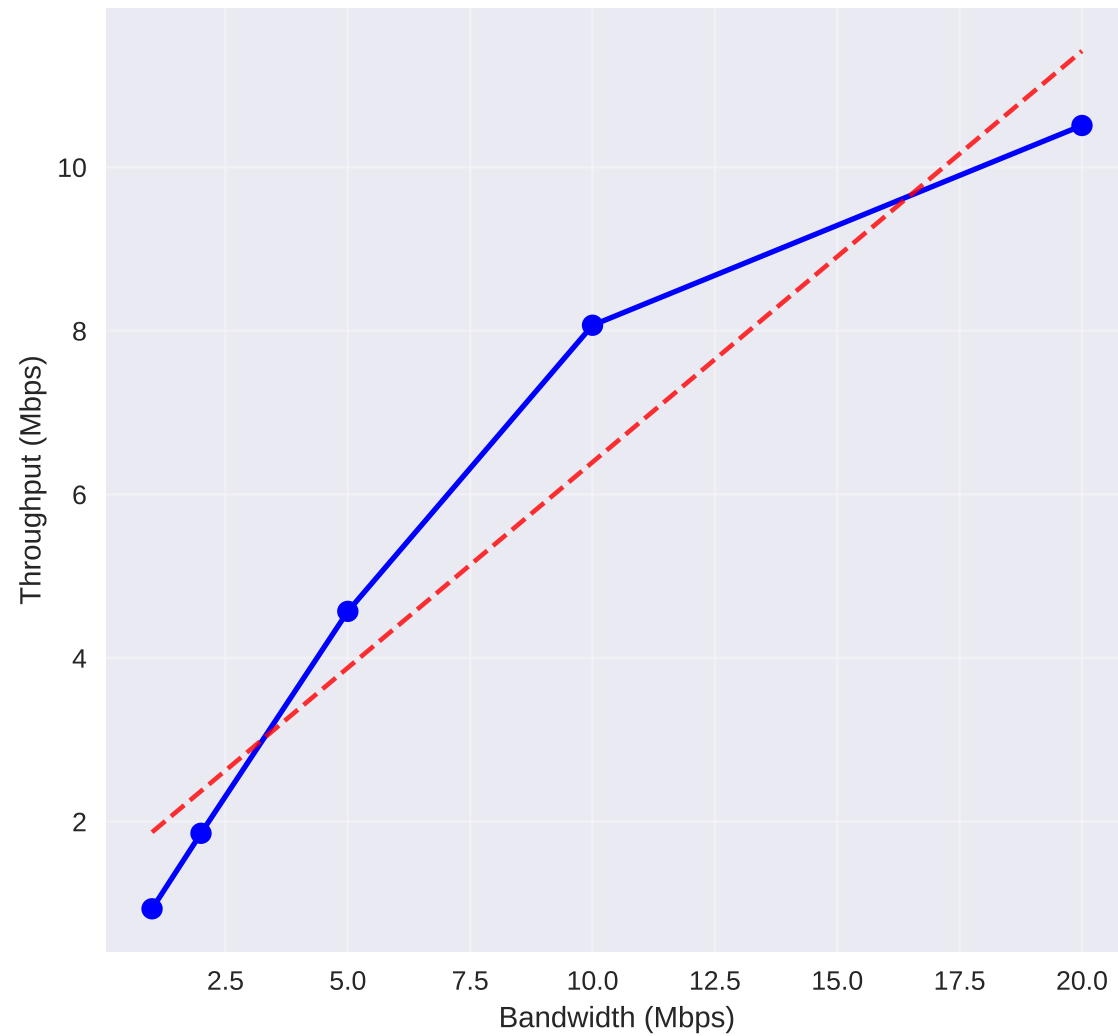
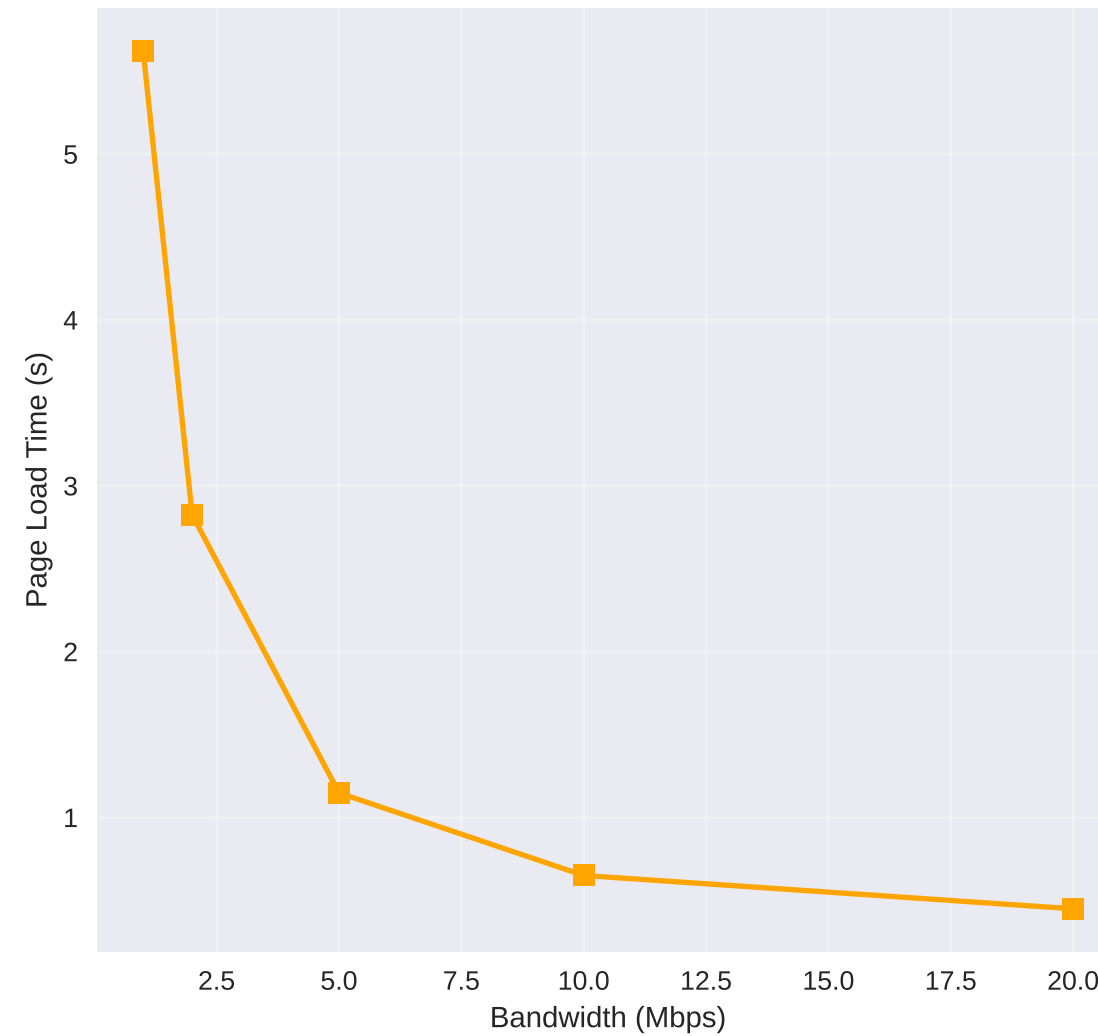


HTTP/2 Performance Analysis

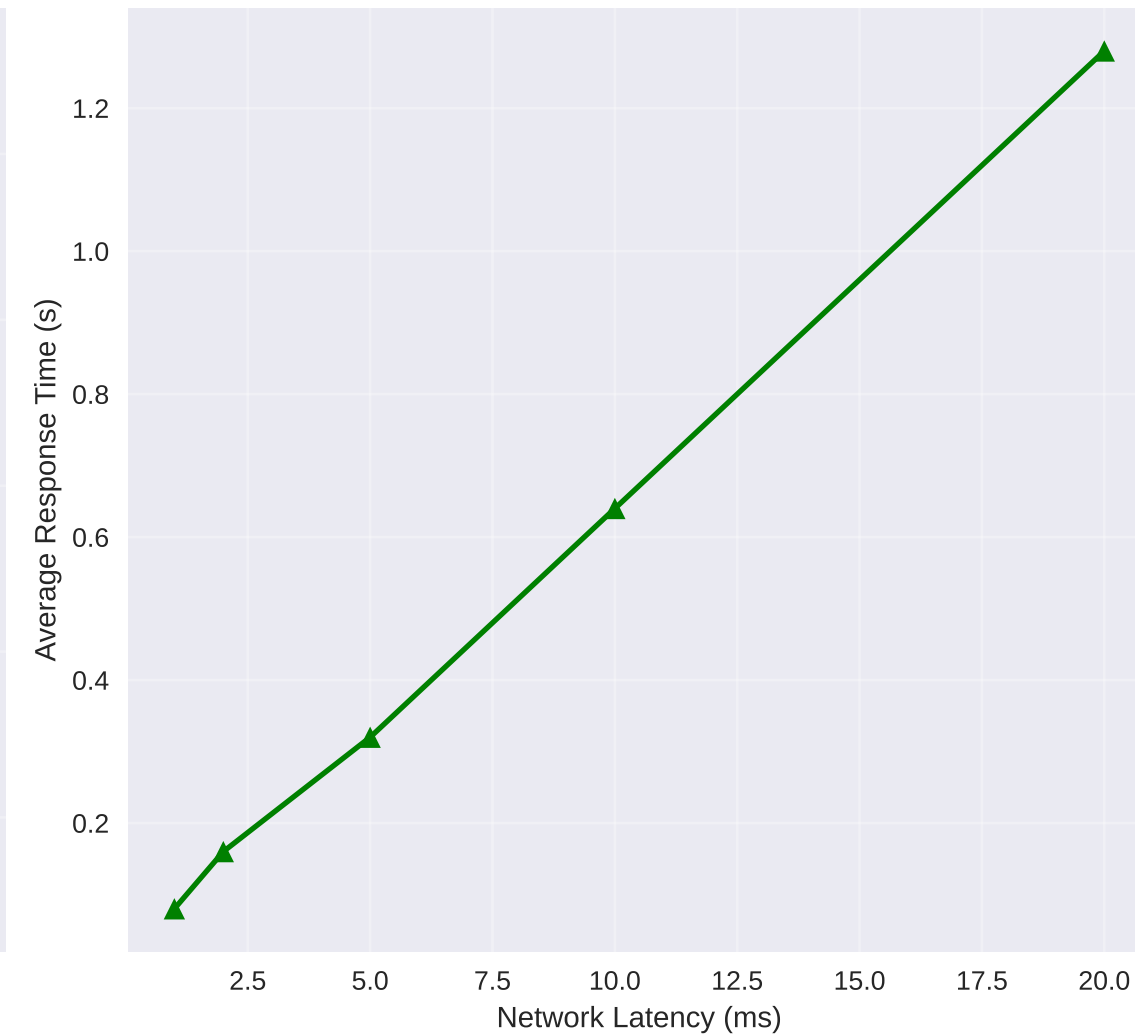
HTTP/2: Bandwidth vs Throughput



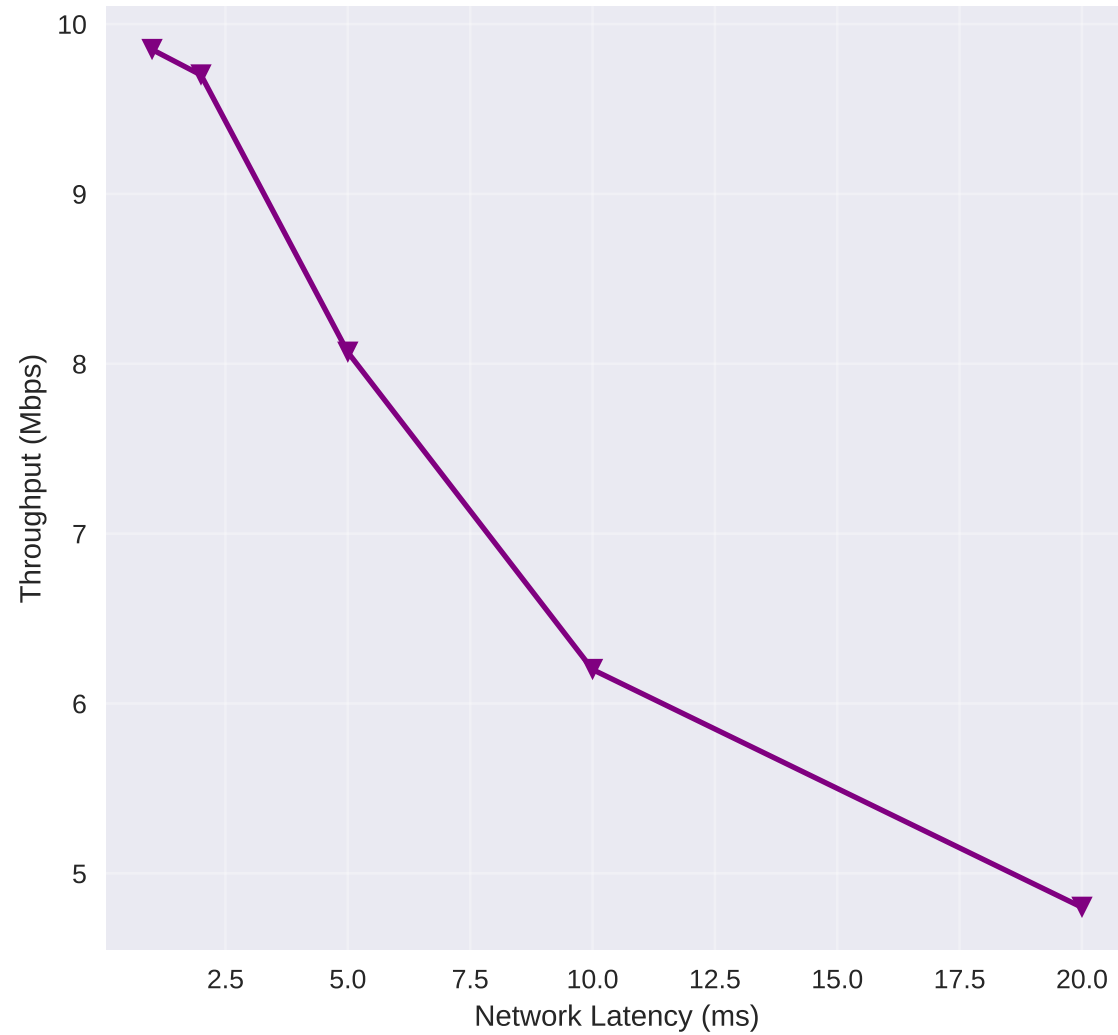
HTTP/2: Bandwidth vs Page Load Time



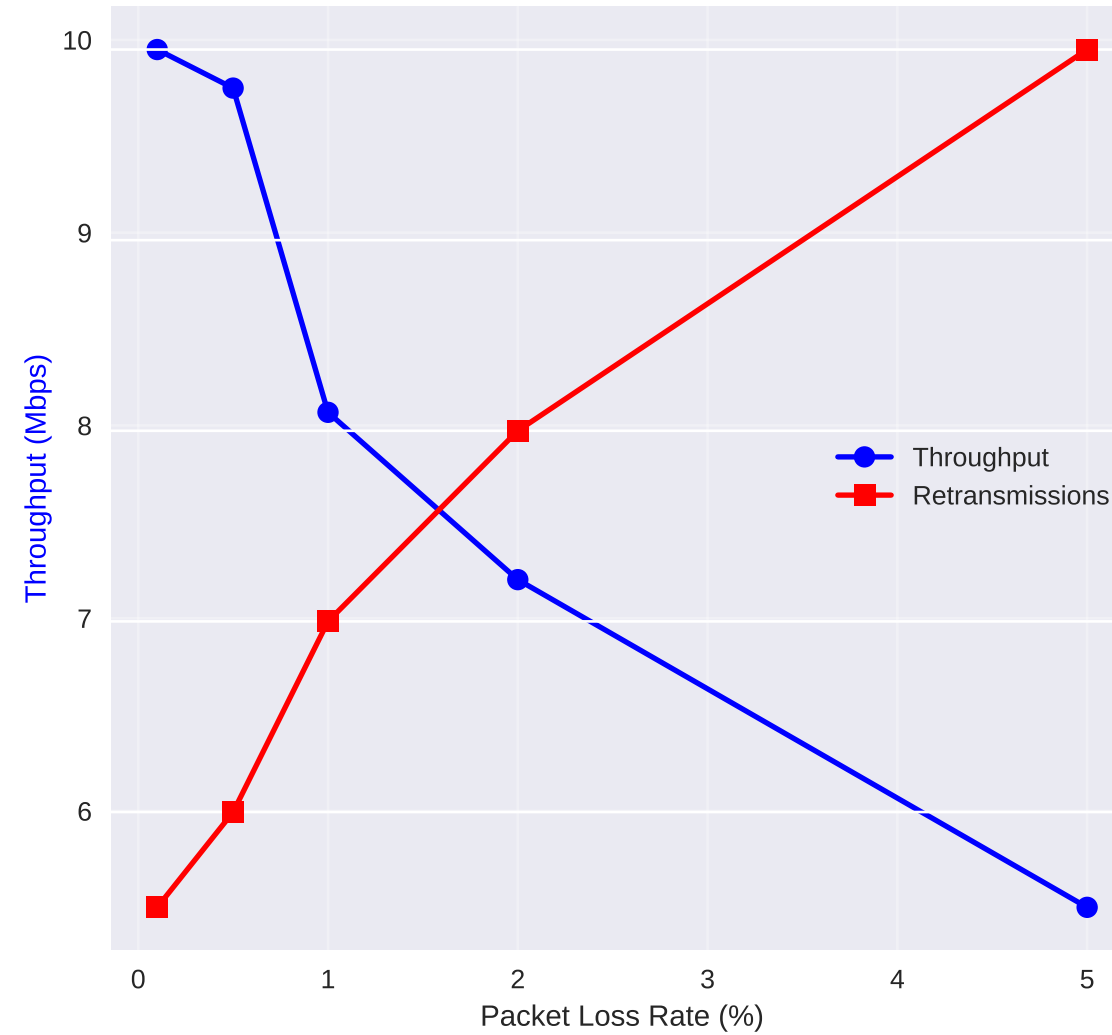
HTTP/2: Latency vs Response Time



HTTP/2: Latency vs Throughput



HTTP/2: Loss Rate Impact



- ☐ HTTP/2 FEATURES:
- ☐ Multiplexing:
 - Concurrent streams: 3
 - Frame interleaving: 1200B chunks
 - Tick interval: 500µs
- ☐ Flow Control:
 - Connection window: 32MB
 - Stream window: 32MB
 - Stream-level blocking detection
- ☐ HPACK Compression:
 - Base header: 200B
 - Compression ratio: 70%
 - Bandwidth savings tracked
- ☐ Performance Metrics:
 - TCP-level HoL stall
 - Stream completion tracking
 - RFC3550 jitter estimation
- ☐ Advanced Features:
 - Frame chunking
 - Tick-based scheduling
 - Error rate simulation