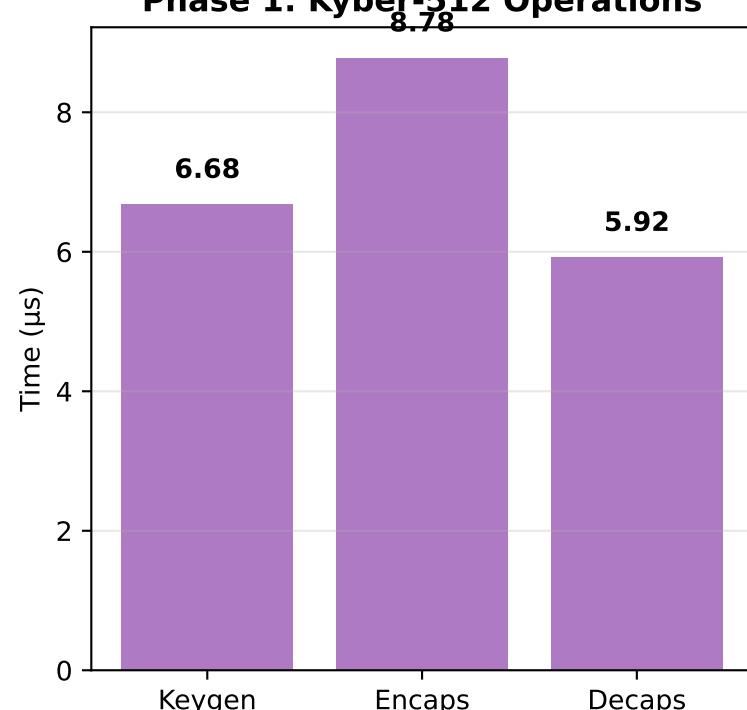
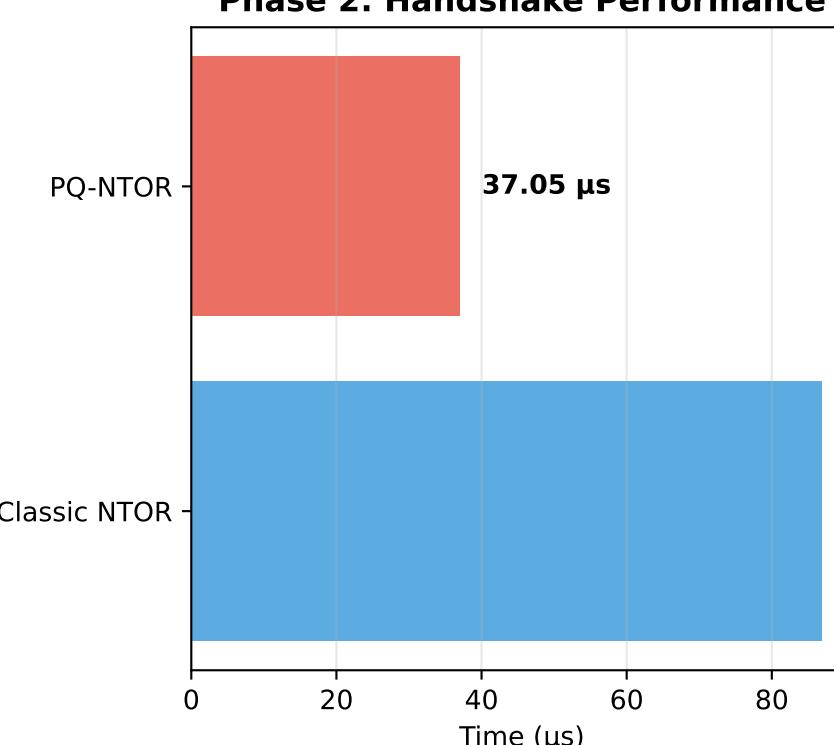


PQ-NTOR Comprehensive Performance Analysis (WSL2 x86_64)

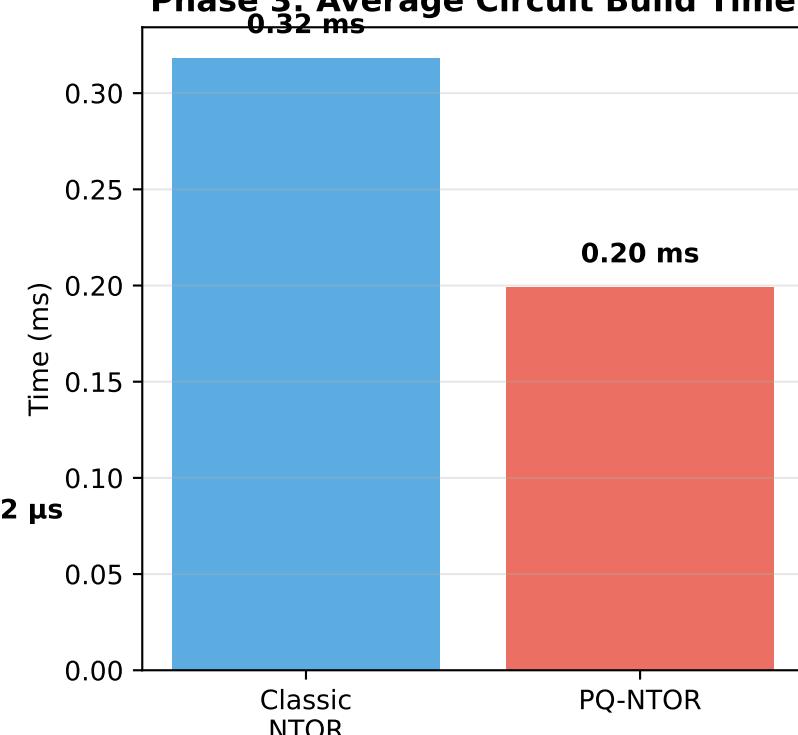
Phase 1: Kyber-512 Operations



Phase 2: Handshake Performance



Phase 3: Average Circuit Build Time



Performance Summary: Classic NTOR vs PQ-NTOR

Phase	Metric	Classic NTOR	PQ-NTOR	Speedup
Phase 1	Kyber-512 Keygen	-	6.68 μs	-
Phase 1	Kyber-512 Encaps	-	8.78 μs	-
Phase 1	Kyber-512 Decaps	-	5.92 μs	-
Phase 2	Handshake Time	86.82 μs	37.05 μs	2.34×
Phase 3	Avg Circuit Build	0.32 ms	0.20 ms	1.60×
Phase 3	12 Topologies	All tested	All tested	1.30-1.79×