

Timing and Communications Concepts

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Planned research: compare simulations using real quantum computing hardware and classical computing systems, then evaluate results against measured physical construction applications. No such hardware benchmarking or field validation is claimed as completed.

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Educational local software illustrations | November 2, 2026 | Trident Build

Modeled clock drift

The demonstration assigned an ordinary clock 1,000 microseconds of accumulated drift over ten hours and a hypothetical high-stability reference 0.1 microseconds. The resulting 10,000-fold ratio is arithmetic from the selected assumptions, not a measured clock improvement.

No atomic clock, Navy system, synchronization network or physical reference clock was tested.

BB84-inspired communications illustration

A simplified Python exercise illustrated 16 bit values and 10 matching measurement bases. A separate software message-tag example illustrated an alert message.

No quantum channel, physical qubits, quantum key exchange, authenticated field transmission or demonstrated communications security was involved.

Interpretation

These examples are educational software concepts relevant to possible future infrastructure monitoring and timing studies. They do not demonstrate quantum communications, operational security, or hardware performance.

Research documentation only. Results are limited to the specified data, assumptions and software methods. No operational field performance or quantum-hardware capability has been established.