

Patent_B2_Figure_2

Technical Drawing - Patent Application

FIGURE 2: QUANTUM ALGORITHM TIMING ANALYSIS AND COMPARISON

QUANTUM ALGORITHM	MIN TIME	TYPICAL TIME	MAX TIME
SHOR'S ALGORITHM RSA-2048 Factoring Quantum Factoring	10 sec Hardware Setup: 2s	20 sec Key Extract: 5s	30 sec Total Time: 25s
GROVER'S ALGORITHM 128-bit Key Search Symmetric Crypto Attack	5 sec Hardware Setup: 1s	10 sec Key Extract: 3s	15 sec Total Time: 14s
GROVER'S ALGORITHM 256-bit Key Search Advanced Symmetric Attack	10 sec Hardware Setup: 1.5s	17.5 sec Key Extract: 4s	25 sec Total Time: 23.5s
SIMON'S ALGORITHM Period Finding Attack XOR Masking Exploit	3 sec Hardware Setup: 0.5s	5.5 sec Key Extract: 2s	8 sec Total Time: 7.5s
DEUTSCH-JOZSA Function Analysis	1 sec Hardware Setup: 0.2s	2.5 sec Analysis: 1s	4 sec Total Time: 3.7s

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