Overview of factoring times for very large numbers on conventional and quantum computers

- Estimated factoring times on state-of-the-art networks of 1000 conventional workstations

no of bits	1024	2048	4096
time in 2006	10^5 years	$5 * 10^{15}$ years	$3 * 10^{29}$ years
time in 2024	38 years	10^{12} years	$7 * 10^{25}$ years
time in 2042	3 days	$3 * 10^8$ years	$2 * 10^{22}$ years

- Estimated factoring times for prospective quantum computers with minimal clock speed of 100 MHz

number of bits	1024	2048	4096
number of qubits	5124	10244	20484
number of quantum gates	$3 * 10^9$	$2 * 10^{11}$	$2 * 10^{12}$
factoring time	4.5 min	36 min	4.8 hours