CQC

CAMBRIDGE QUANTUM COMPUTING LIMITED

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A Quantum Programing Environment

$$|\psi\rangle_C$$
$$|\Phi\rangle_A^+$$
$$|\Phi\rangle_B^+$$
$$|\psi\rangle_B$$

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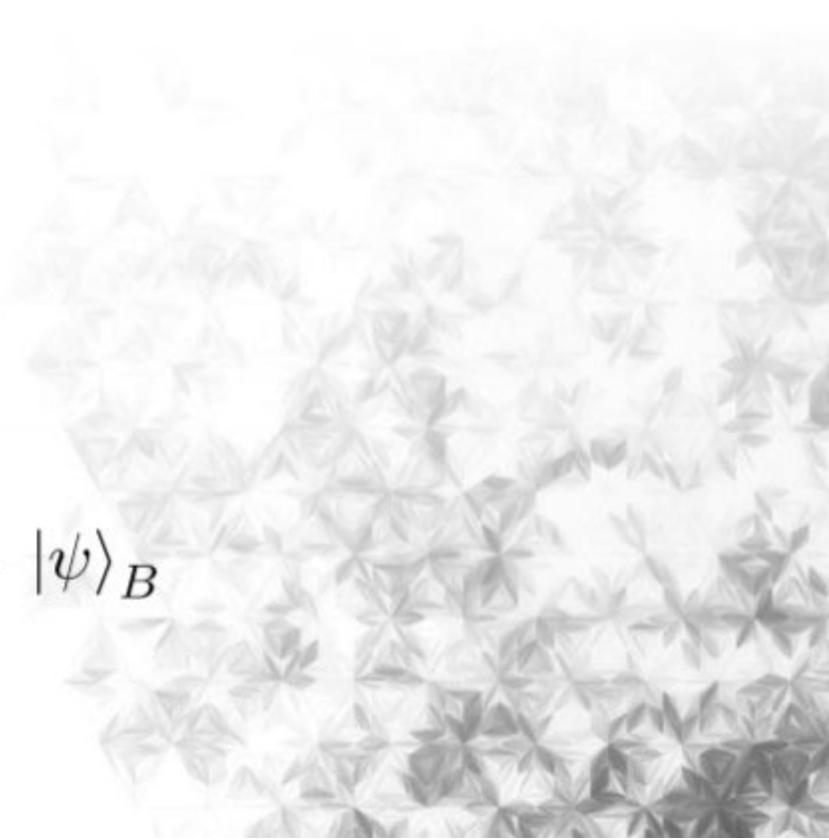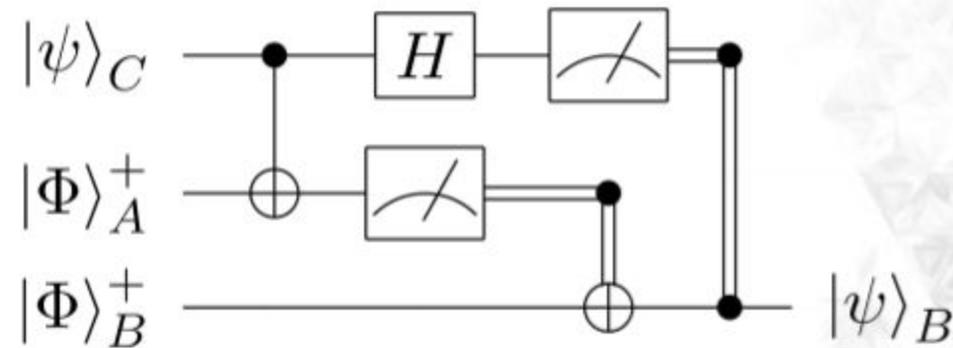
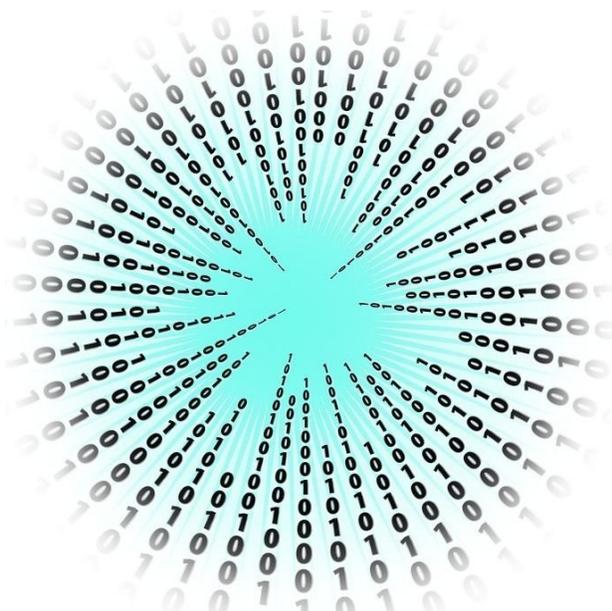One of the Top-50 Innovators

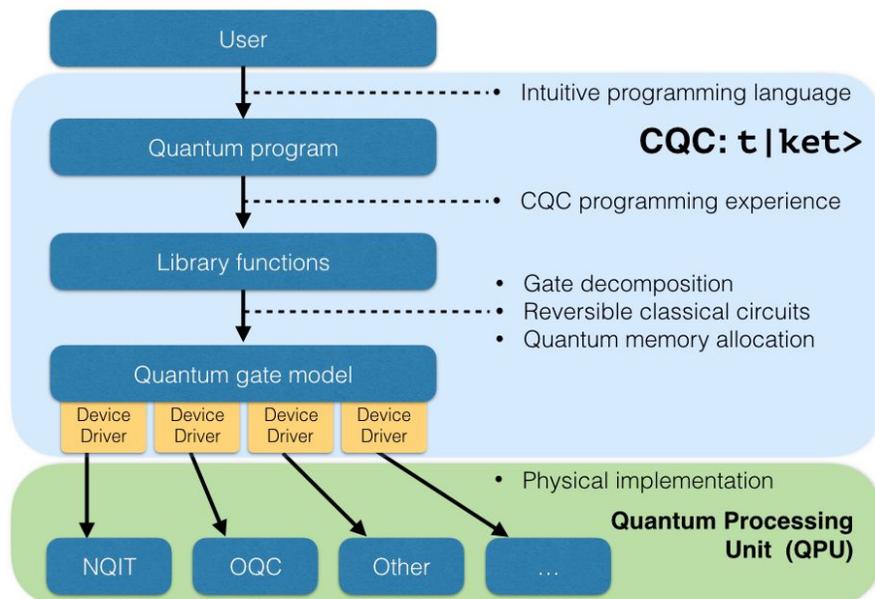-Bloomberg

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Game Changer

-CB Insight

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Who We Are.
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Cambridge Quantum Computing Ltd (CQC) designs and builds tools for the commercialisation of quantum technologies.

Based in the UK,USA and Hong Kong, CQC focuses on developing quantum technologies with current and future industrial implementation.

–Compiler Flowchart

CQC's Compiler Suite

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Our quantum compiler translates programs written in CQC's programming language into basic hardware instructions. The C-like language provides developers with a familiar environment while the modular design of the compiler allows for extensive optimisation for each hardware type. Such a compiler is imperative for developing software that takes full advantage of quantum computing. Our compiler is platform agnostic – meaning we work with all gate based platforms that generate, manipulate and measure qubits

CQC provides its clients with tools to tackle cutting edge research problems such as the discovery of new materials. Our long list of collaborators include hardware partners and clients from industries, academia and government. Current hardware contractors include NQIT (IoN trap based platform) and Oxford Quantum Circuits (Superconducting)

Expected commercial release – September 2018.
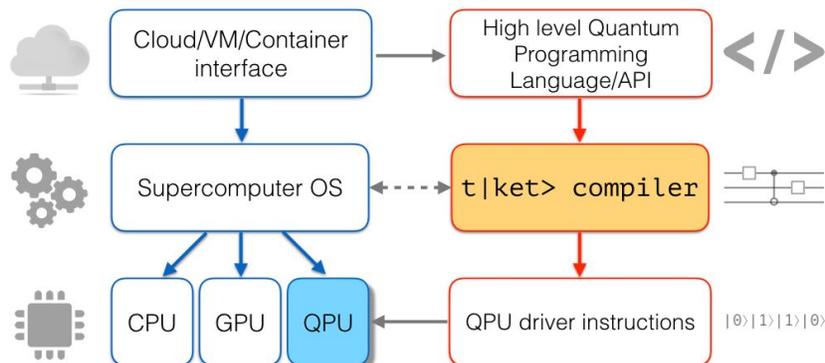
The Quantum Supercomputer Design
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Our compiler has been designed to be integratable with Supercomputing systems and further improve their capabilities. The modular design of our compiler draws inspiration from modern Graphics Processing Units (GPUs) architectures that are currently being used as accelerators in large scale Supercomputers. Next generation Supercomputers will be accelerated not only by conventional CPUs and GPUs but also by state of the art Quantum Processing Units (QPUs). This triadic approach allows Supercomputers to distribute tasks to the most efficient Processing Unit available, causing an exponential increase in computing power.

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Contact Us
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