Introducing Quantinuum

The World’s Largest Integrated Quantum Computing Company
Quantinuum is a result of the combination of two global leaders in quantum computing: Honeywell Quantum Solutions and Cambridge Quantum

The two leading companies in the quantum computing industry have combined to create Quantinuum, thereby accelerating the development of quantum computing and innovation of quantum technologies in a platform agnostic manner to deliver real-world quantum-enabled solutions for some of the most intractable problems that classical computers have not been able to solve.

Cambridge Quantum, the pioneer in quantum software, operating systems and cybersecurity, and Honeywell Quantum Solutions, which has built the highest-performing quantum hardware based on trapped-ion technologies, today announced they have satisfied all of the conditions required to close the business combination and formed the new company, now called Quantinuum.

“Quantinuum is now the largest and most advanced integrated quantum computing company in the world,” said Ilyas Khan, CEO of the new company and founder of Cambridge Quantum. “By uniting the best-in-class quantum software available with the highest performing hardware available, we are uniquely positioned to bring real, quantum computing products and solutions to large, high-growth markets in the near term, the medium term and the longer term as quantum computers scale in capacity and quality. We are science led and enterprise driven, and our scale and global presence in this most critical of technologies will provide leadership in each of the key areas that constitute the ‘must haves’ for quantum computing to deliver real-world solutions to all our customers and partners.”

Quantinuum will globally launch a quantum cyber security product in December 2021, and later in 2022, an enterprise software package that applies quantum computing to solve complex scientific problems in pharmaceuticals, material science, specialty chemicals and agrochemicals.
It will also announce major upgrades to the System Model H1 hardware
technologies, Powered by Honeywell®, which has the highest measured
quantum volume as well as industry breakthroughs that reduce errors
thereby continuing to progress credibly towards the development of
a fault-tolerant quantum system. In this respect, the H-Series quantum
computers continue the trend of meeting and exceeding the deliverables
that the company has previously committed to as part of its hardware
roadmap.

“I am thrilled to help lead our new company, which will positively
change the world through the application of quantum computing. Our
scientists continue to work hard to develop the best quantum software
and hardware technologies available and I am excited to be able to offer
these to customers on an on-going basis,” said Tony Uttley, President and
Chief Operating Officer of Quantinuum. “The next few weeks and months
are going to be extremely active for Quantinuum, as we increase the pace
in deriving unique value from today’s quantum computers especially in
cyber security. However, in addition to cyber security, our products will
include solutions for drug discovery and drug delivery, materials science,
finance, natural language processing, as well as optimisation, pattern
recognition and supply chain and logistics management.”

Quantinuum was formed six months after Honeywell announced
that Honeywell Quantum Solutions, its quantum computing division,
would separate from the company and combine with Cambridge
Quantum. Honeywell will initially be the largest shareholder of
Quantinuum, with an approximately 54 percent ownership stake in the
new company. Additionally, on top of this stake, Honeywell has also
invested nearly $300 million in the new venture, ensuring that Quantinuum
is well capitalised at inception. Honeywell will also be a supplier to
Quantinuum, supporting the manufacturing process for the company’s
proprietary ion-traps, as well as a customer of Quantinuum on various
projects across its business units.

Quantinuum has a staff of almost 400 at inception, with offices
in the United Kingdom, United States, Japan, and Germany. Of those
employees, approximately 300 are scientists advancing the development
of quantum hardware and software solutions.

Quantinuum will maintain European headquarters in Cambridge,
UK and North American headquarters in Colorado, US. The company
will continue to be entirely platform agnostic in its choice of hardware,
to provide total portability to its clients and ensure the most effective
performance for the problems being solved.
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Quantinuum  Cambridge Quantum