
HONEYWELL'S \$300M EQUITY INVESTMENT IN QUANTINUUM

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FEBRUARY 18, 2024

CONTEXT

Honeywell continues its investments in quantum computing by [announcing](#) a \$300 million equity fundraising for Quantinuum, the leading integrated quantum computing company, valuing it at \$5 billion pre-money.

This funding round, the first since Cambridge Quantum Computing and Honeywell Quantum Solutions merged in November 2021, brings Quantinuum's total raised capital to about \$625 million. Key investors include JPMorgan Chase, Mitsui & Co., Amgen, and Honeywell, the majority shareholder.

BACKGROUND: WHO IS QUANTINUUM?

Quantinuum is a leading integrated quantum computing company known for its significant advancements in quantum technology.

Here are some key aspects of Quantinuum:

- Formation and Background:** Quantinuum was formed by merging Cambridge Quantum Computing and Honeywell Quantum Solutions in November 2021. This merger brought together two major players in quantum computing, combining expertise in quantum software and hardware.
- Strategic Partnerships:** The company has partnered with major corporations like JPMorgan Chase, Mitsui & Co., and Amgen. These collaborations enhance its capabilities and reach in applying quantum computing to various industries.
- Focus on Quantum Computing:** Quantinuum concentrates on developing universal fault-tolerant quantum computers. These advanced systems are aimed at solving complex computational problems that are beyond the reach of traditional computers.
- Software Development:** Beyond hardware, Quantinuum is also extending its software offerings. This includes developing middleware and application

software to make quantum computing more commercially applicable and accessible to various industries.

5. **Quantum Natural Language Processing (QNLP):** A significant area of focus for Quantinuum is the development of Quantum Natural Language Processing. This technology aims to revolutionize AI by making it more scalable and efficient, particularly in processing and understanding human language.
6. **Collaborative Projects:** Quantinuum collaborates with global companies like Airbus, BMW Group, HSBC, and Thales. These partnerships explore the application of quantum computing in solving real-world problems, such as designing hydrogen cell batteries for transportation and developing materials for carbon sequestration.
7. **Investment and Valuation:** As of early 2024, Quantinuum successfully raised \$300 million in an equity fundraising round, valuing the company at \$5 billion pre-money. This funding will accelerate its path toward advanced quantum computing solutions.
8. **Leadership in the Quantum Space:** With Honeywell as its majority shareholder, Quantinuum is recognized as a leader in the quantum computing space, driving innovation and potentially transforming how industries tackle complex challenges.

Overall, Quantinuum represents a blend of cutting-edge quantum computing technology, strategic partnerships, and innovation aimed at harnessing the power of quantum computing for practical, real-world applications.

DEAL DETAILS

Here's a breakdown of the key details of the deal:

- **Quantinuum's Equity Fundraise:**
 - Closed a \$300 million equity fundraising round.
 - Achieved a pre-money valuation of \$5 billion.
 - This round brings the total capital raised by Quantinuum to approximately \$625 million since its inception.
- **Investment and Participants:**
 - JPMorgan Chase, a strategic partner of Quantinuum, anchored the round.
 - Other participants included Mitsui & Co., Amgen, and Honeywell.
 - Honeywell remains the majority shareholder of Quantinuum.

- **Purpose of the Funding:**
 - The funds will be used to accelerate the development of the world's first universal fault-tolerant quantum computers.
 - Aims to extend Quantinuum's software offerings to enhance commercial applicability.
- **JPMorgan Chase's Involvement:**
 - One of the earliest experimental users of Quantinuum's H-Series quantum processor.
 - Actively employs Quantinuum's software development kit, TKET.
 - Lori Beer, Global Chief Information Officer at JPMorgan Chase, emphasized the potential benefits of quantum technologies in financial services.
- **Quantinuum's Partnerships and Projects:**
 - Collaboration with notable companies like Airbus, BMW Group, Honeywell, HSBC, JPMorgan Chase, Mitsui, and Thales.
 - Engaged in developing Quantum Natural Language Processing for the next generation of AI.
 - It focuses on solving complex global challenges such as hydrogen cell battery design and carbon sequestration for energy transition.
- **Quantinuum's Strategic Positioning:**
 - Following the merger of Cambridge Quantum Computing and Honeywell Quantum Solutions in November 2021, Quantinuum is positioned as a leader in integrated quantum computing.
 - The funding signifies confidence in Quantinuum's ability to commercialize its innovations and maintain leadership in the growing quantum computing market.

ANALYSIS

The recent \$300 million equity fundraising for Quantinuum by Honeywell marks a significant milestone in the quantum computing industry. This funding, which values Quantinuum at a substantial \$5 billion pre-money, underscores the growing interest and belief in the potential of quantum computing.

This funding round is the first significant investment since Cambridge Quantum Computing and Honeywell Quantum Solutions merged in November 2021. This

merger and the subsequent investment reflect a strategic move towards accelerating the development of universal fault-tolerant quantum computers and expanding software offerings to enhance commercial applicability.

The involvement of JPMorgan Chase, a leading force in quantum technology within the financial sector, strongly indicates its belief in the practical applications and potential of Quantinuum's technologies. Their use of Quantinuum's H-Series quantum processor and software development kit, TKET, signifies real-world applications and potential integration of quantum computing in financial services.

The investment by JPMorgan Chase also highlights the emerging trend of traditional industries recognizing the transformative potential of quantum computing. Quantinuum, with its advanced technology and strong backing, is well-positioned to lead in this rapidly evolving and highly competitive field.

This move could catalyze further investments and partnerships in the quantum computing sector as more companies seek to leverage these advanced technologies to solve complex problems and innovate within their respective industries.



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