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Cypress and D-Wave Systems Announce Successful Transfer Of D-Wave Process Technology to Cypress Foundry

Foundry Successfully Starts D-Wave's Proprietary Process for Quantum Computing Microprocessors with First Chips Delivered in Less than 6 Months After Launch, Confirming Key Improvements for Next Generation Quantum Processors

SAN JOSE, Calif. & BURNABY, British Columbia--(BUSINESS WIRE)-- Cypress Semiconductor Corp. (NASDAQ:CY) and D-Wave Systems Inc., the world's first commercial quantum computing company, today announced that D-Wave has successfully transferred its proprietary process technology for building quantum computing microprocessors to [Cypress's Wafer Foundry](#) located in Bloomington, Minnesota. D-Wave selected Cypress as its foundry and started the site change in January of 2013, and Cypress delivered first silicon on June 26. Results from this lot indicate better yields than D-Wave has achieved in the past, validating the quality of Cypress's production-scale environment.

"The site change to Cypress will enable D-Wave to continue to scale its technology to meet its objective of delivering quantum processors that radically outperform conventional computing platforms," said Eric Ladizinsky, D-Wave co-founder and Chief Scientist. "We selected Cypress as a foundry for their ability to support our unique materials and processing flow, while allowing us to leverage the consistency and yield of a production-scale wafer fab. The yield results we saw on first silicon exceeded our expectations and validate that Cypress was the right foundry choice for our technology development and processor production."

"Cypress is very excited to support a pioneering customer such as D-Wave Systems in their quest to revolutionize computation," said Mehran Sedigh, Vice President of Front-End Manufacturing at Cypress. "D-Wave's selection of Cypress as a foundry, followed by the fast transfer of their technology and the yield improvements we have delivered, demonstrate our compelling offering. We expect to continue adding innovative companies to our list of wafer foundry customers."

About D-Wave Systems

Founded in 1999, D-Wave's mission is to integrate new discoveries in physics and computer science into breakthrough approaches to computation. The company's flagship product, the 512-qubit D-Wave Two™ computer, is built around a novel type of superconducting processor that uses quantum mechanics to massively accelerate computation. Recently D-Wave announced the installation of a D-Wave Two system at the new Quantum Artificial Intelligence Lab created jointly by NASA, Google and USRA. This came soon after Lockheed-Martin's purchase of an upgrade of their 128-qubit D-Wave One™ system to a 512-qubit D-Wave Two computer. With headquarters near Vancouver, Canada, the D-Wave U.S. offices are located in Palo Alto, California. D-Wave has a blue-chip investor base including Bezos Expeditions, Business Development Bank of Canada, Draper Fisher Jurvetson, Goldman Sachs, Growthworks, Harris & Harris Group, In-Q-Tel, International Investment and Underwriting, and Kensington Partners Limited. For more information, visit: www.dwavesys.com or learn more at www.youtube.com/user/dwavesystems.

About Cypress's Fab 4

Cypress operates its own wafer fabrication facility in Bloomington, Minnesota, and offers access to this facility as a Specialty Foundry Solutions provider. This 8-inch wafer fab manufactures in high volume down to the 90-nm node with 65nm capability. It offers process technologies that integrate SONOS-based nonvolatile memory and precision analog/mixed-signal capabilities. The facility can handle ITAR material, and it has been accredited as a Category 1A Trusted Fab for fabrication, design, and testing of U.S. DoD Trusted Microelectronics. More information on Cypress Foundry Solutions is available online at www.cypress.com/go/foundry.

About Cypress

Cypress delivers high-performance, mixed-signal, programmable solutions that provide customers with rapid time-to-market and exceptional system value. Cypress offerings include the flagship PSoC® 1, PSoC 3, PSoC 4, and PSoC 5 programmable system-on-chip families. Cypress is a world leader in capacitive user interface solutions including CapSense® touch sensing, TrueTouch® touchscreens, and trackpad solutions for notebook PCs and peripherals. Cypress is a world leader in USB controllers, which enhance connectivity and performance in a wide range of consumer and

industrial products. Cypress is also the world leader in SRAM and nonvolatile RAM memories. Cypress serves numerous major markets, including consumer, mobile handsets, computation, data communications, automotive, industrial, and military. Cypress trades on the NASDAQ Global Select Market under the ticker symbol CY. Visit Cypress online at www.cypress.com.

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