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Quantinuum H-Series Product Change Notification

| Title of Change: | H1-2 upgrade to 20 qubits |
|-----------------------------------|---|
| Date of Change: | July 17th, 2023 |
| Contact Information: | QCSupport@quantinuum.com |
| Products Impacted: | H1-2 quantum computer and H1-2 emulator |
| Changes to Product Data Sheet: | NO □ YES ⊠ |
| Changes to Subscription Contract: | NO ⊠ YES □ |
| Changes to Interface: | All ⊠ Quantinuum API □ Microsoft □ |
| Description and Purpose: | The purpose of this notification is to: Notify customers that the H1-2 quantum computer has been upgraded to N=20 qubits. The H1-2 emulator has been upgraded to use the N=20 compiler and the error coefficients will be updated to values representative of H1-2 performance. See additional information below for more details. |
| Reason / Motivation for Change: | N=20 upgrade to H1-2 quantum computer |
| Action Required by Customers: | None |

Additional Information:

1) Notification of H1-2 quantum computer upgrade to N=20 qubits

Going forward the H1-2 quantum computer (target: H1-2) will be available with 5 parallel gate zones and can support up to 20 qubits.

Prior to commercial availability the Quantinuum System Model H1 Product Data Sheet will be updated to reflect the H1-2 specifications, including typical, minimum, and maximum performance parameters. The updated Product Data Sheet will be posted [here] and on the user portal.

2) Notification of H1-2 emulator update to reflect H1-2 upgrade

The H1-2 emulator will receive an update to reflect N=20 qubits available on the H1-2 quantum computer. In addition, the error parameters in the Quantinuum System Model H1 Emulator Product Data Sheet will be updated to reflect the current state of the H1-2 quantum computer. The updated Emulator Product Data Sheet will be posted [here] and on the user portal.



Product / Process Change Notification

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In summary, the impact to customers of launching the 20-qubit H1-2 quantum computer is:

- H1-2 has been upgraded to 5 parallel gate zones with 20 qubits.
- The H1-2 Emulator will be updated to reflect the changes on the H1-2 quantum computer.
- The Quantinuum System Model H1 Product Data Sheet and Emulator product data sheet will be updated to reflect the H1-2 specifications, including typical, minimum, and maximum performance parameters.

Access to the H1-2 N=20 quantum computer is included in your current access and availability will be communicated via the operations calendar.