

Quantinuum H-Series Product Change Notification

Title of Change:	H1 updates
Date of Change:	June 14, 2022
Contact Information:	<i>Technical:</i> Brian Neyenhuis <i>All other:</i> Jenni Strabley
Products Impacted:	H1-1 quantum computer and H1-1 emulator
Changes to Product Data Sheet:	NO <input type="checkbox"/> YES <input checked="" type="checkbox"/>
Changes to Subscription Contract:	NO <input checked="" type="checkbox"/> YES <input type="checkbox"/>
Description and Purpose:	<p>The purpose of this notification is to:</p> <ol style="list-style-type: none"> 1) Notify customers that the H1-1 quantum computer has been upgraded to N=20 qubits. 2) The H1-1 emulator has been upgraded to use the N=20 compiler and has updated error coefficients to be representative of H1-1 performance. <p>See additional information below for more details.</p>
Reason / Motivation for Change:	Updates to H1-1 quantum computer
Action Required by Customers:	None

Additional Information:

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

Effective June 14, the H1-1 quantum computer (target: H1-1) will be available with 5 parallel gate zones and can support up to 20 qubits.

The Quantinuum System Model H1 Product Data Sheet will be updated to reflect the H1-1 specifications, including typical, minimum, and maximum performance parameters. The changes do not impact H1-2. The Product Data Sheet will now contain separate specification data for H1-1 and H1-2. The Product Data Sheet is posted [\[here\]](#).

Batching and fair queueing is enabled; just as with all other Quantinuum devices.

In summary, the impact to customers of launching the 20-qubit H1-1 quantum computer is:

- H1-1 has been upgraded to 5 parallel gate zones with 20 qubits.
- The Quantinuum System Model H1 Product Data Sheet will be updated to reflect the H1-1 specifications, including typical, minimum and maximum performance parameters.

- This is included in your current access.
- Separate schedules will be maintained for both H1-1 and H1-2. The most up to date information for scheduling on each device can be found on the Quantinum user portal. Users with access through Microsoft Azure should contact QCsupport@quantinum.com to get access to the latest operations schedule.