7월 IBM Q 업데이트 안내

(IBM Q Support 안내 메일 및 링크 참고)

양자정보연구지원센터

1. Heron R2 QPU(156q), ibm_fez출시

[IBM Q Support 팀 안내 메일]

Hello IBM Quantum Network,

At last year's summit we announced the release of our first Heron R1 utility-scale quantum processing unit (QPU), ibm_torino. It features our new tunable coupler technology which allows for shorter gates, higher fidelities and lower crosstalk than on our Eagle systems.

Today we are pleased to announce the release of our first Heron R2 QPU, ibm_fez, which represents the evolution of our Heron processor design and capabilities. With Heron R2, users should expect the same great performance as our Heron R1 QPU (full properties onIQP), but with a couple of important updates.

The qubit count has been increased from 133 to 156 qubits. This increase in qubit number enables R2 to be the backbone of our future Flamingo QPU, where multiple R2 chips will be linked by l-coupler gates. (roadmap).

Heron R2 also has a "first-of-a-kind" capability to tune two-level system (TLS) defects away from our qubits as part of our QPU calibration procedure, which will ensure optimal performance across the full device. We are continuing to refine our usage of this new capability in order to deliver the best possible performance and stability across all qubits.

With the addition of ibm_fez to our fleet we double our Heron capacity as part of our commitment to providing performant quantum computers that are ideal for utility-scale workloads.

Best, IBM

2. ibm_brussels, ibm_strasbourg(127q)출시

[IBM Q Support 팀 안내 메일]

Hello IBM Quantum Network,

We have released two new 127Q Eagle r3 systems, ibm_brussels and ibm_strasbourg. These systems have been added to your Hub at the Hub level. Admin must distribute the systems down to the Project level for collaborators to gain access. For more information on these systems,
please refer to theSystems pageon the IBM Quantum Platform.
If you have any questions, please do not hesitate to ask.

Best,
IBM

3. ibm_kyoto, ibm nazca(127q)폐기 예정: 8월27일 경

[IBM Q Support 팀 안내 메일]

Hello IBM Quantum Network,

We will be retiring ibm_kyoto and ibm_nazca on or around August 27, 2024.
Once these systems are retired, they will no longer accept jobs.
We suggest retrieving any job data from important past jobs before these systems are retired. Please refer to the followingdocumentation
for moreinformation on retrieving past jobs.
If you have any questions or concerns, please do not hesitate to contact the support team atibmquantum@ibm.com.
If you would prefer not to receive these types of communications, you can edit your notification settingshere.

Best,
IBM

4. ibm_torino(133q) firmware update

: 7월22일 경부터 약 일주일 동안 사용OFF

[IBM Q Support 팀 안내 메일]

Hello IBM Quantum Network,

On or around 22 July 2024, we plan to take ibm_torino offline for about a week to perform a firmware update. During this update, we will also execute new one-time calibrations that enable faster two-qubit gates with reduced coherent error.

While the quantum computer is offline, it will not accept or process jobs.

Please keep this in mind when planning any projects around this timeframe.

During this interruption we invite you to utilize the recently released ibm_fez, our first Heron R2 QPU, which achieves the best EPLG across our fleet.

If you have any questions, please do not hesitate to contact our support team at ibmquantum@ibm.com.

Best,

IBM

If you prefer not to receive these emails, you can edit your notification settingshere.