

than o in the QuantumCircuit constructor.



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## Abhiraj-Shrotriya commented last week @jakelishman @ANONYMOUS AUTHOR

Is an empty quantum circuit (circuit with no qubits) useful at all? I don't think it is. If this is the case, we can raise an error if a circuit with 0 qubits/ Quantum Registers is made. I would like to solve this issue and contribute to Qiskit. Can you please assign me?

Thank you.



## jakelishman commented last week

Member ···

A Quantumcircuit with no quantum bits is still valid, as is a register with zero bits. The bug here is in the (old) OpenQASM 2 parser - a zero-width register is valid per the letter of the OQ2 spec, so it shouldn't have been rejected. It probably stems from days when Qiskit itself wouldn't permit zero-length registers.

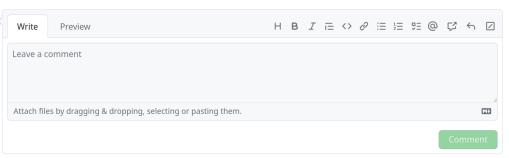
 $The \ new \ parser \ (\ qiskit.qasm2.load\{,s\}\ )\ handles \ this \ correctly, \ and \ Quantum Circuit.from\_qasm\_\{str,file\}\ have \ been \ parser \ (\ qiskit.qasm2.load\{,s\}\ )\ handles \ this \ correctly, \ and \ Quantum Circuit.from\_qasm\_\{str,file\}\ have \ been \ parser \ (\ qiskit.qasm2.load\{,s\}\ )\ handles \ this \ correctly, \ and \ Quantum Circuit.from\_qasm\_\{str,file\}\ have \ been \ parser \ (\ qiskit.qasm2.load\{,s\}\ )\ handles \ this \ parser \ (\ qiskit.qasm2.load\{,s\}\ )\ handles \ this \ parser \ (\ qiskit.qasm2.load\{,s\}\ )\ handles \ this \ parser \ (\ qiskit.qasm2.load\{,s\}\ )\ handles \ this \ parser \ (\ qiskit.qasm2.load\{,s\}\ )\ handles \ this \ parser \ (\ qiskit.qasm2.load\{,s\}\ )\ handles \ this \ parser \ (\ qiskit.qasm2.load\{,s\}\ )\ handles \ this \ parser \ (\ qiskit.qasm2.load\{,s\}\ )\ handles \ this \ parser \ (\ qiskit.qasm2.load\{,s\}\ )\ handles \ parser \ (\ qi$ switched to use that in #9955 (due to be released in Terra 0.25 next week), so I'll mark this as "fixed"; we're not going to merge any changes to the old OQ2 parser now.

Thanks for finding the bug, and thanks for the interest in contributing to Qiskit. If you're looking for issues to contribute to, you can look at the "good first issue" label in this repository.



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jakelishman closed this as completed last week



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