

Edit New issue

🔒 Closed **ANONYMOUS AUTHOR** opened this issue last week · 1 comment · Fixed by #10469

...

## Environment

- **Qiskit Terra version:** 0.43.1 meta package, terra 0.24.1
- **Python version:** 3.10
- **Operating system:** docker continuumio/miniconda3

## What is happening?

When I append barriers with empty list of target qubits I get no warnings, but then the generated qasm is invalid.

### How can we reproduce the issue?

Run this python script:

```
from qiskit import QuantumCircuit
qc = QuantumCircuit(4,4)
for q_index in range(0, 11, 4):
    # DEBUG ONLY
    print(f"q_index: {q_index}")
    print(f"qc.qubits[q_index:q_index+4]: {qc.qubits[q_index:q_index+4]}")
    # PROBLEMATIC CODE
    qc.barrier(qc.qubits[q_index:q_index+4])
print(qc.draw())

qc.qasm(filename="my.qasm")

QuantumCircuit.from_qasm_file("my.qasm").draw(output='mpl')
```

Produces this error:

```
q_index: 0
qc.qubits[q_index:q_index+4]: [Qubit(QuantumRegister(4, 'q'), 0), Qubit(QuantumRegister(4, 'q'), 1), Qubit(Quan
q_index: 4
qc.qubits[q_index:q_index+4]: []
q_index: 8
qc.qubits[q_index:q_index+4]: []

q_0: ────┐
        │
q_1: ────┼─────────┐
        │           │
q_2: ────┼─────────┴───────┐
        │                   │
q_3: ────┼─────────┘
c: 4/════
```

Error near line 6 Column 32  
...  
File ".../lib/python3.10/site-pack  
ages/qiskit/qasm/qasmparser.py", line 397, in p\_id\_e  
""") raise QasmError("Expected an ID,  
qiskit.qasm.exceptions.QasmError: "E

The error happens only when importing the qasm file, whereas I believe the mistake is done by the exporter, which generates the `barrier;` statement, see below.

This is the generated QASM:

```
OPENQASM 2.0;
include "qelib1.inc";
qreg q[4];
creg c[4];
barrier q[0],q[1],q[2],q[3];
barrier;
barrier;
```

## What should happen?

2 participants

### Any suggestions?

+ Add tasklist

 **jakelishman** added the **mod: qasm2** label last week

Merged

Member ...




Write

Preview

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