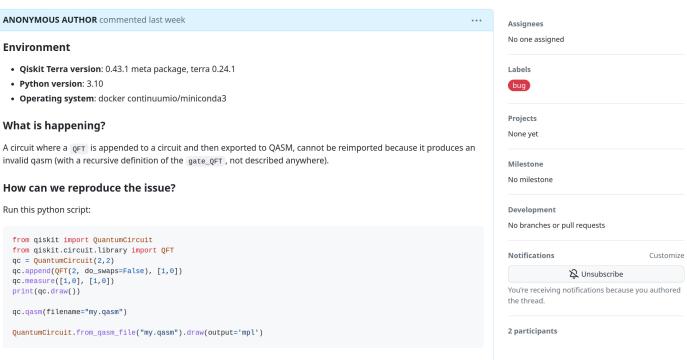


QASM2 Exporter: recursive (self-referencing) gate_QFT #10468



⊘ Closed **ANONYMOUS AUTHOR** opened this issue last week · 1 comment



Produces this output and error:

```
1 0
 \label{limits} \textbf{File "..../lib/python3.10/site-packages/qiskit/qasm/qasmparser.py", line 138, in verify\_as\_gate}
    raise QasmError(
qiskit.qasm.exceptions.QasmError: "Cannot find gate definition for 'gate_OFT', line 3 file my.gasm"
```

The error happens only when importing the qasm file, whereas I believe the mistake is done by the exporter,

This is the genrated QASM:

```
OPENQASM 2.0;
include "qelib1.inc";
gate gate_QFT q0,q1 { gate_QFT q0,q1; }
creg c[2];
gate_QFT q[1],q[0];
measure q[1] -> c[1];
measure q[0] -> c[0];
```

What should happen?

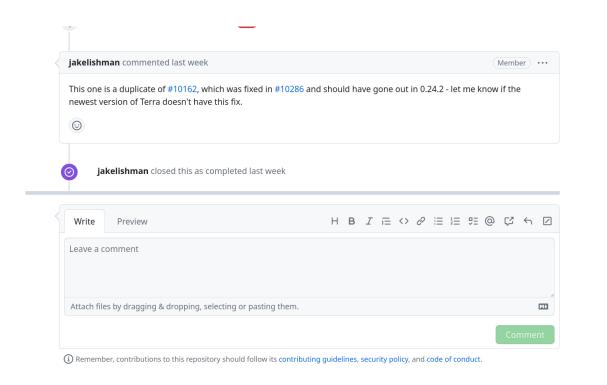
I would have expected the QASM exporter to generate a valid qasm, ready to be reimported.

Any suggestions?

This recursive definition of the gate_QFT is quite puzzling for me, looking forward to your feedback. I checked and with the compose API this problem des not happen: i.e. $qc.compose(QFT(2, do_swaps=False), [1,0], inplace=True)$ produces a valid qasm file with $\ \mbox{gate} \ \mbox{gate} \ \mbox{QFT} \ \mbox{q0,q1} \ \{ \ \mbox{h} \ \mbox{q1;} \ \mbox{cp(pi/2)} \ \mbox{q1,q0;} \ \mbox{h} \ \mbox{q0;} \ \} \ .$







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