

start ::= qreg(n)

qreg(n) ::= creg(n)

for each i in qreg(n):

qubit\_i ::= 1\_q\_op | 2\_q\_op | 3\_q\_op | general\_op

1\_q\_op ::= HGATE | IGATE | PHASEGATE | RXGATE | RYGATE | RZGATE | SGATE |  
SDGGATE | SXGATE | SXDGGATE | TGATE | TDGGATE | UGATE | U1GATE | U2GATE |  
XGATE | YGATE | ZGATE | NOGATE

2\_q\_op ::= CX | ...

3\_q\_op ::= CCZ | ...

general\_op ::= diagonal | permutation | ...

-----

\*Validity determined by OpenQASM 2.0 intermediary for ZX-Calculus application

Unsupported operations:

- RGATE

Unapplicable operations:

- U3GATE was replaced by UGATE