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#!/usr/bin/env python
# coding: utf-8
# In[1]:
from qiskit import QuantumCircuit, transpile, Aer, execute
from qiskit.visualization import plot_bloch_multivector
from giskit.providers.aer.noise import depolarizing_error
qc = QuantumCircuit(3)
qc.h(0)
qc.cx(0, 1)
qc.z(2)
qc.cx(1, 2)
error_prob = 0.1
error_hadamard = depolarizing_error(error_prob, 1)
error_cx = depolarizing_error(error_prob, 2)
qc.append(error_hadamard, [0])
qc.append(error_cx, [0, 1])
qc.append(error_cx, [1, 2])
qc.append(error_cx, [0, 1])
qc.append(error_cx, [1, 2])
qc.append(error_hadamard, [0])
simulator = Aer.get_backend('statevector_simulator')
qc_transpiled = transpile(qc, simulator)
job = execute(qc_transpiled, simulator)
result = job.result()
statevector = result.get_statevector()
plot_bloch_multivector(statevector)
# In[2]:
import numpy as np
from qiskit import QuantumCircuit, Aer, transpile, assemble, execute
from qiskit.visualization import plot_histogram
from qiskit.providers.aer import AerSimulator
qc = QuantumCircuit(3)
qc.h(0)
qc.cx(0, 1)
qc.ccx(0, 1, 2)
qc.h(1)
qc.x(2)
qc.measure_all()
print(qc)
simulator = AerSimulator()
compiled_circuit = transpile(qc, simulator)
job = simulator.run(compiled_circuit)
result = job.result()
counts = result.get_counts()
print("Measurement results:", counts)
plot_histogram(counts)
# In[ ]:
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