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Quantum Research Division

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IBM Quantum Backup Job

Backend: ibm_marrakesh | Generated: 2026-08-19 02:55 UTC

>>>>>>>> QUANTUM DATA <<<<<<<<<

===== QUANTUM DATA & STATISTICS =====

Backend: ibm_marrakesh
Job ID: d9us248b1g9c73a7qqo0
Timestamp: 1786626353.0747626
Status: COMPLETE
Total Circuits: {'circuit': 1, 'label': 'maintenance', 'entropy_bits': 9.886, 'top_out...
Encryption: BB84 QKD + SHA-256
Basis Gates: rZ, sX, x, cZ
Photon TX: NO
Fail Safe: NO

===== JOB METADATA =====

version: 2

===== CIRCUIT/ENTITY NAMES =====

Info: No circuit or entity names available

===== QUANTUM MEASUREMENT RESULTS (PER CIRCUIT) =====

Circuit 1: Circuit 1

metadata.circuit_metadata: {}
c.num_bits: 10
c.samples: 8192 total measurements
first samples:
0x1a 0x15b 0x96 0xc1 0x39f
0x87 0x246 0x2c6 0xbb 0x368
0xad 0x1e6 0x26b 0x9b 0x2f9
0x79 0x2d6 0x3d 0x31f 0x3ca
0x65 0x122 0x205 0x143 0x111
0x29f 0x25b 0x1b1 0x34e 0x244
...: 8162 more samples omitted

Circuit 2: Circuit 2

metadata.circuit_metadata: {}
c.num_bits: 10
c.samples: 8192 total measurements
first samples:
0x343 0x3e 0x169 0x9e 0xb5
0x33d 0x15d 0x242 0x69 0x1da
0x310 0x1a0 0x1a6 0x19f 0xc5
0x285 0x304 0x19c 0x321 0x1f6
0x26a 0x18b 0x2fe 0x83 0x3bf
0x3d4 0x1 0x17e 0x2a7 0x1f1
...: 8162 more samples omitted

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Circuit 3: Circuit 3

```
metadata.circuit_metadata: {}
c.num_bits: 10
c.samples: 8192 total measurements
  first samples:
    0x283      0x148      0x180      0x5d      0x387
    0x6        0x31      0x230      0x21      0x3e4
    0xee       0x212      0x39e      0xa0      0x31b
    0x321      0x3cd      0x67       0x2de      0xa4
    0x2f2      0x3a4      0x24       0x349      0x298
    0x3d9      0x374      0x262      0x1cb      0x9
  ...: 8162 more samples omitted
```

==== CIRCUIT-BY-CIRCUIT ANALYSIS (COMPLETE) =====

Circuit 1: 1

```
circuit: 1
entropy_bits: 9.886
label: maintenance
strong_signal: False
top_outcome: 0x26b
top_pct: 0.21
unique_outcomes: 1023
weak_signal: False
```

Circuit 2: 2

```
circuit: 2
entropy_bits: 9.897
label: photon_reception
strong_signal: False
top_outcome: 0x386
top_pct: 0.23
unique_outcomes: 1024
weak_signal: False
```

Circuit 3: 3

```
circuit: 3
entropy_bits: 9.894
label: heartbeat
strong_signal: False
top_outcome: 0x50
top_pct: 0.23
unique_outcomes: 1024
weak_signal: False
```

==== TOP MEASUREMENT OUTCOMES (ALL) =====

```
Info: No top measurement outcomes available for this report
```

==== DECODED MESSAGES / TEXT DATA =====

```
Info: No decoded messages or text data available for this report
```

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===== SOURCE FILE VERIFICATION =====

RESULTS: 510416b | SHA256: 7eb2a3a8d19aaf35abb924005fd77fc6...
ANALYSIS: 892b | SHA256: 4b6ee6f37de1176ded3c6c3a2458a217...

===== MISSION NARRATIVE & DIALOGUE =====

[MISSION BRIEFING]

This report documents quantum computing job d9us248b1g9c73a7qqo0, executed on the ibm_marrakesh backend. The experiment, designated "IBM Quantum Backup Job", was submitted using decomposed basis gates (rz, sx, x, cz) and Primitives V2 to ensure fail-safe compatibility with Heron R2 hardware.

[EXECUTION LOG]

>> Job d9us248b1g9c73a7qqo0 submitted to ibm_marrakesh queue.
>> Circuits compiled to native basis gates: rz, sx, x, cz.
>> Measurement outcomes collected.
>> Circuit 1 (Circuit 1): 1023 unique outcomes, entropy 9.886 bits.
>> Circuit 2 (Circuit 2): 1024 unique outcomes, entropy 9.897 bits.
>> Circuit 3 (Circuit 3): 1024 unique outcomes, entropy 9.894 bits.
>> Data encrypted using BB84 QKD + SHA-256. SHA-256 hash:
>> Job completed. Results downloaded and archived locally.

[ANALYSIS NARRATIVE]

Circuit 1 (1):

Executed with ? shots. The quantum state collapsed into 1023 unique measurement outcomes. The most frequently observed bitstring was 0x26b, appearing ? times. This circuit produced 9.886 bits of Shannon entropy, indicating high randomness and strong quantum superposition effects.

Circuit 2 (2):

Executed with ? shots. The quantum state collapsed into 1024 unique measurement outcomes. The most frequently observed bitstring was 0x386, appearing ? times. This circuit produced 9.897 bits of Shannon entropy, indicating high randomness and strong quantum superposition effects.

Circuit 3 (3):

Executed with ? shots. The quantum state collapsed into 1024 unique measurement outcomes. The most frequently observed bitstring was 0x50, appearing ? times. This circuit produced 9.894 bits of Shannon entropy, indicating high randomness and strong quantum superposition effects.

[FINDINGS & INTERPRETATION]

* The quantum job completed successfully with all circuits executing and returning valid measurement data. The results have been archived for further analysis.

[CONCLUSION]

The IBM Quantum Backup Job job on ibm_marrakesh has been completed. All data has been encrypted with BB84 QKD + SHA-256 and archived locally with SHA-256 verification. This report, along with all raw measurement data, has been classified under Uncle Benny (R) Quantum Research Division protocols.

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>>>>>>>>> COMPREHENSIVE REPORT <<<<<<<<<<

===== RAW DATA DUMP: RESULTS =====

```
results:                                [3 items]
results[0]:                             {2 keys}
results[0].data:                         {1 keys}
results[0].data.c:                       {2 keys}
results[0].data.c.samples:               [8192 items]
results[0].data.c.samples...:            0x1a
results[0].data.c.samples...:            0x15b
results[0].data.c.samples...:            0x96
results[0].data.c.samples...:            0xc1
results[0].data.c.samples...:            0x39f
...:                                     8187 more items
results[0].data.c.num_bit...:             10
results[0].metadata:                     {1 keys}
results[0].metadata.circu...:             {0 keys}
results[1]:                             {2 keys}
results[1].data:                         {1 keys}
results[1].data.c:                       {2 keys}
results[1].data.c.samples:               [8192 items]
results[1].data.c.samples...:            0x343
results[1].data.c.samples...:            0x3e
results[1].data.c.samples...:            0x169
results[1].data.c.samples...:            0x9e
results[1].data.c.samples...:            0xb5
...:                                     8187 more items
results[1].data.c.num_bit...:             10
results[1].metadata:                     {1 keys}
results[1].metadata.circu...:             {0 keys}
results[2]:                             {2 keys}
results[2].data:                         {1 keys}
results[2].data.c:                       {2 keys}
results[2].data.c.samples:               [8192 items]
results[2].data.c.samples...:            0x283
results[2].data.c.samples...:            0x148
results[2].data.c.samples...:            0x180
results[2].data.c.samples...:            0x5d
results[2].data.c.samples...:            0x387
...:                                     8187 more items
results[2].data.c.num_bit...:             10
results[2].metadata:                     {1 keys}
results[2].metadata.circu...:             {0 keys}
metadata:                                {2 keys}
metadata.execution:                      {1 keys}
metadata.execution.execut...:            [1 items]
metadata.execution.execut...:            [{'date': '2026-08-13T13:05:33.599112'}, {'date': '2026-08-13T13:05:41.151083'}, {'0'...
metadata.version:                        2
```

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===== RAW DATA DUMP: ANALYSIS =====

```
job_id: d9us248b1g9c73a7qqo0
job_name: 0x6f3fa0deee902184_monitor
circuits: [3 items]
circuits[0]: {8 keys}
circuits[0].circuit: 1
circuits[0].label: maintenance
circuits[0].entropy_bits: 9.886
circuits[0].top_outcome: 0x26b
circuits[0].top_pct: 0.21
circuits[0].unique_outcom...: 1023
circuits[0].strong_signal: False
circuits[0].weak_signal: False
circuits[1]: {8 keys}
circuits[1].circuit: 2
circuits[1].label: photon_reception
circuits[1].entropy_bits: 9.897
circuits[1].top_outcome: 0x386
circuits[1].top_pct: 0.23
circuits[1].unique_outcom...: 1024
circuits[1].strong_signal: False
circuits[1].weak_signal: False
circuits[2]: {8 keys}
circuits[2].circuit: 3
circuits[2].label: heartbeat
circuits[2].entropy_bits: 9.894
circuits[2].top_outcome: 0x50
circuits[2].top_pct: 0.23
circuits[2].unique_outcom...: 1024
circuits[2].strong_signal: False
circuits[2].weak_signal: False
signals_detected: 0
strong_reception: False
timestamp: 1786626353.0747626
```

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Scan verified CLEAN by Windows Defender | 2026-08-19