

IBM, , ,

- ‘IBM ’, 30%

- , 24% , HPC 100

- 10 ... 1

- 300mm 2 , 10



2025 11 12 , – IBM(NYSE: IBM) (Quantum Developer Conference) 2026 , 2029

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(Jay Gambetta) IBM IBM “ ” “IBM , , , , ” .

IBM

IBM IBM (IBM Quantum Nighthawk) . 2026 ‘ (Quantum Advantage)’

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IBM 2025 IBM :

- 120 , 218 (tunable coupler) . IBM 20%

- 30%
- 5,000 2 . 2

IBM 2026 7,500 , 2027 10,000 , 2028 1,000 (Long-range coupler) 15,000 2

, 2026 ‘ (verified quantum advantage)’ . IBM , (Algorithmiq),
(Flatiron Institute), (BlueQubit) ‘ (quantum advantage tracker)’ .

(HPC)

(Qiskit) IBM 100 24% (dynamic circuit) . C-API
HPC 100 .

IBM C-API C++ HPC . , 2027

, IBM 2029

IBM (Loon) . IBM ,
(nearest-neighbor coupler) (‘c-coupler’) .

IBM . qLDPC() , (480) . 1 . IBM .
qLDPC .

IBM, 300mm

IBM , (Albany NanoTech Complex) 300mm .

IBM . . , , . IBM :

- 2
- 10
- .

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