

Outline

Algorithms analysis

Note: in the OPENQASM source files there are six algorithms using rotations along the z axis in any degree (QFT, Ising and Ground State Estimation). Those are not translated for now.

Table: Algorithms analysis

Algorithm	No. qubits	No. gates	Source	Expected Behaviour
0410184_169	14	211	RevLib	A form of integer adder
3_17_13	3	36	RevLib	worst case scenario for the approach pr
4_49_16	5	217	RevLib	worst case scenario for the approach pr
4gt10-v1_81	5	148	RevLib	Checks, if input is greater than 10. (N
4gt11_82	5	27	RevLib	Checks, if input is greater than 11. (N
4gt11_83	5	23	RevLib	Checks, if input is greater than 11. (N
4gt11_84	5	18	RevLib	Checks, if input is greater than 11. (N
4gt12-v0_86	6	251	RevLib	Checks, if input is greater than 12. (N
4gt12-v0_87	6	247	RevLib	Checks, if input is greater than 12. (N
4gt12-v0_88	6	194	RevLib	Checks, if input is greater than 12. (N
4gt12-v1_89	6	228	RevLib	Checks, if input is greater than 12. (N
4gt13-v1_93	5	68	RevLib	Checks, if input is greater than 13. (N
4gt13_90	5	107	RevLib	Checks, if input is greater than 13. (N
4gt13_91	5	103	RevLib	Checks, if input is greater than 13. (N
4gt13_92	5	66	RevLib	Checks, if input is greater than 13. (N
4gt4-v0_72	6	258	RevLib	Checks, if input is greater than 4. (Not
4gt4-v0_73	6	395	RevLib	Checks, if input is greater than 4. (Not