Simulation Results steps

Daniel Moreno Manzano

November 20, 2018

1 First Step

Table 1: Information of the first benchmark used

Benchmark	# qubits	# gates
4gt11$_{82}$	5	27

Table 2: Step 1 results

Mapper	Init. place	t1	t2	meas. err.	P. success	f	V_Q
No	No	3500	1500	0.03	0.98	0.970122	390
minextendrc	No	3500	1500	0.03	0.92	0.8793333	1582
minextendrc	Yes	3500	1500	0.03	0.95	0.92134	1038
minextend	No	3500	1500	0.03	0.97	0.9294102	1264
minextend	Yes	3500	1500	0.03	0.98	0.9502046	834

Table 3: Other mapper statistics

Mapper	Init. place	# qubits (after mapping)	depth	# SWAPS
No	No	5	84	0
minextendrc	No	7	237	17
minextendrc	Yes	6	174	10
minextend	No	8	228	16
minextend	Yes	6	165	9