Simulation Results steps

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1 First Step

	<u> Table 1:</u>	<u>Benchma:</u>	rk used
Benchmark	# qubits	# gates	two-qubit gates (%)
$4gt11_{82}$	5	27	67

Table 2: Step 1 results

Mapper	Init. place	t1	t2	meas. err.	P. success	f	$\overline{V_Q}$
$\overline{ m minextendrc}$	No	3000	3000	0.03	0.96	0.9404637	1582
${\rm minextendrc}$	Yes	3000	3000	0.03	0.98	0.9675513	1038
minextend	No	3000	3000	0.03	0.98	0.9623432	1264
$\min extend$	Yes	3000	3000	0.03	0.98	0.9683911	834
No	No	3000	3000	0.03	0.99	0.98879	390

Table 3: Other mapper statistics

Table 5. Other mapper statistics								
Mapper	Init. place	# qubits (after mapping)	depth	# SWAPS				
minextendrc	No	7	237	17				
$\operatorname{minextendrc}$	Yes	6	174	10				
minextend	No	8	228	16				
$\min extend$	Yes	6	165	9				
No	No	5	84	0				