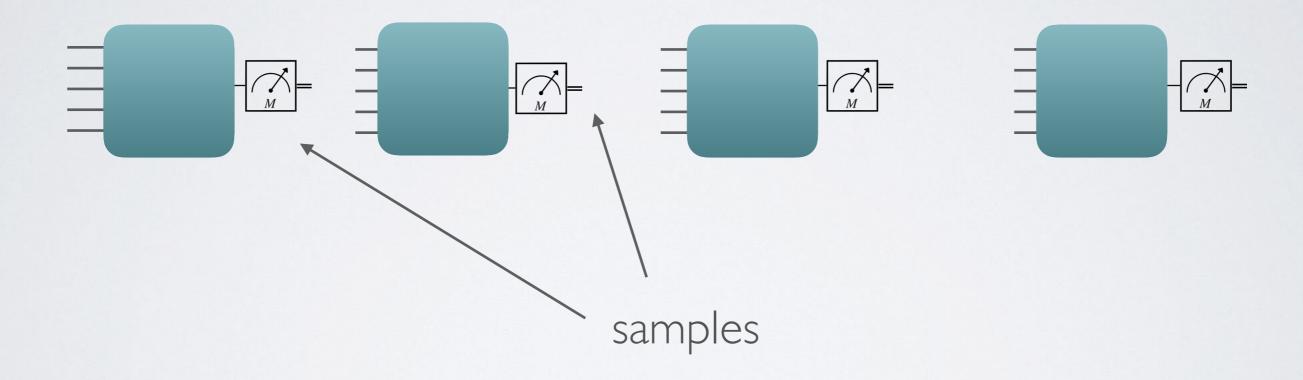
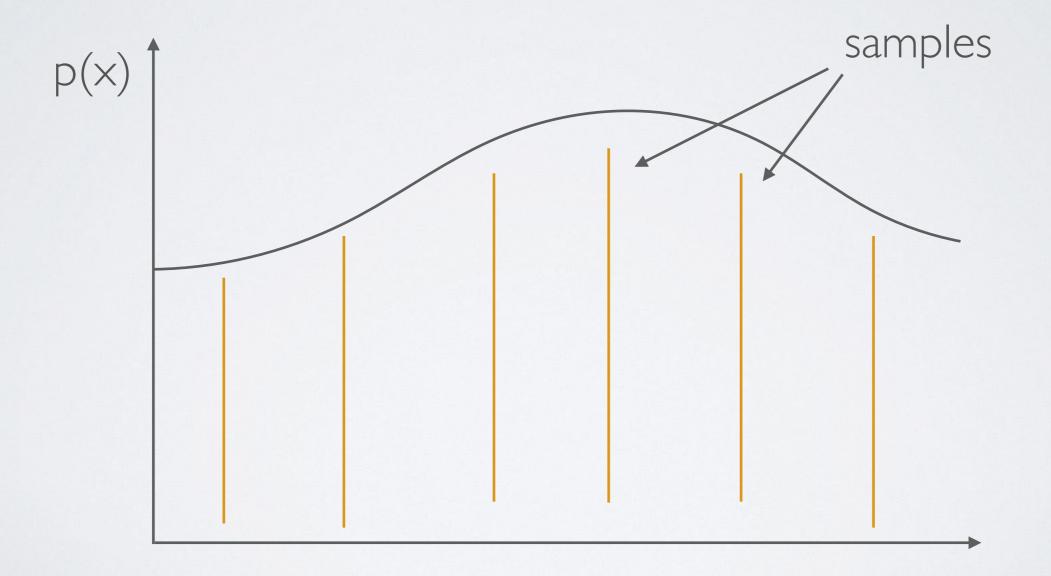


#### Quantum Phase Estimation:



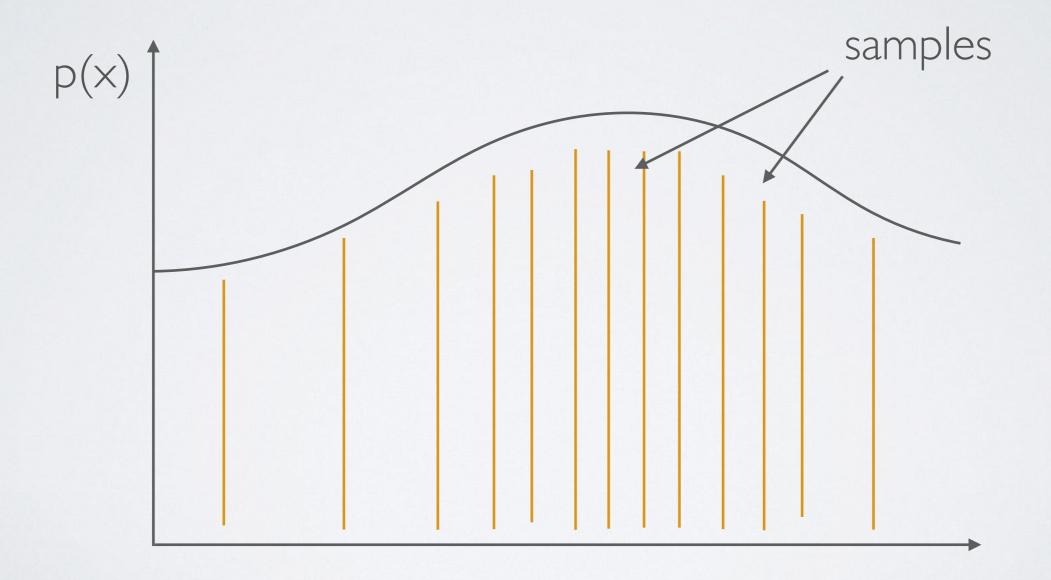
#### Variational Quantum Eigensolver:



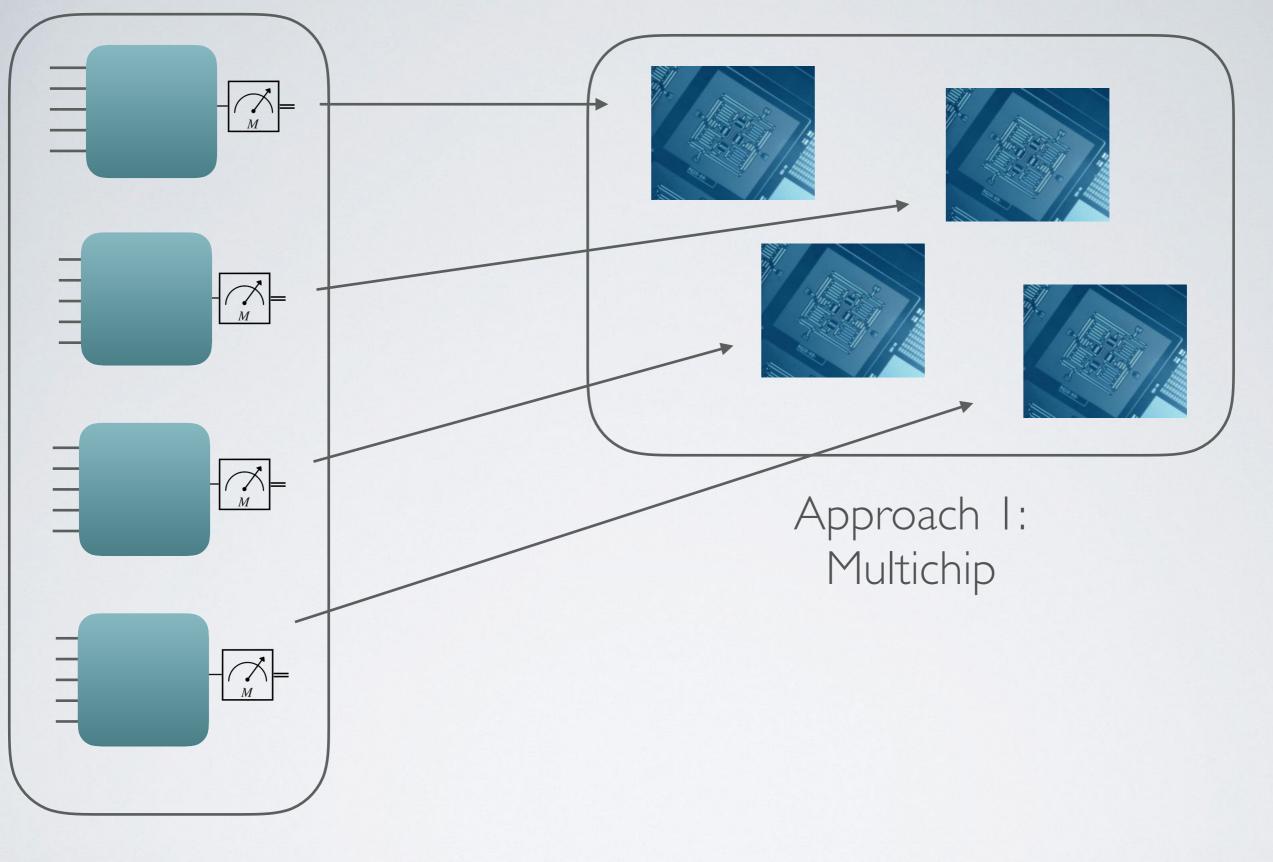


Issue 17: ParallelBond - License to Optimize





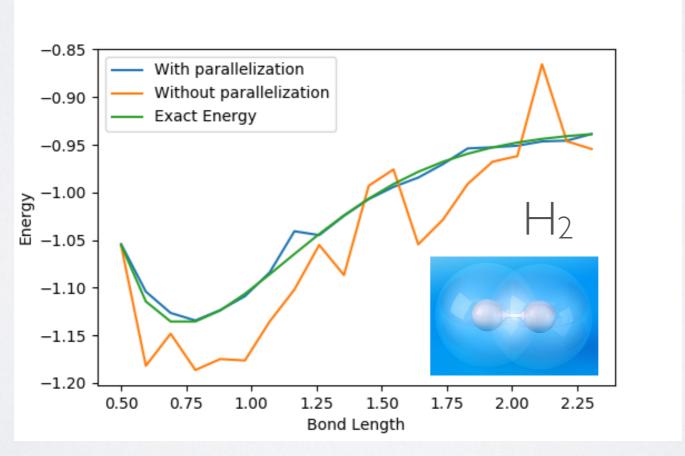
Issue 17: ParallelBond - License to Optimize



Approach 2: Single chip

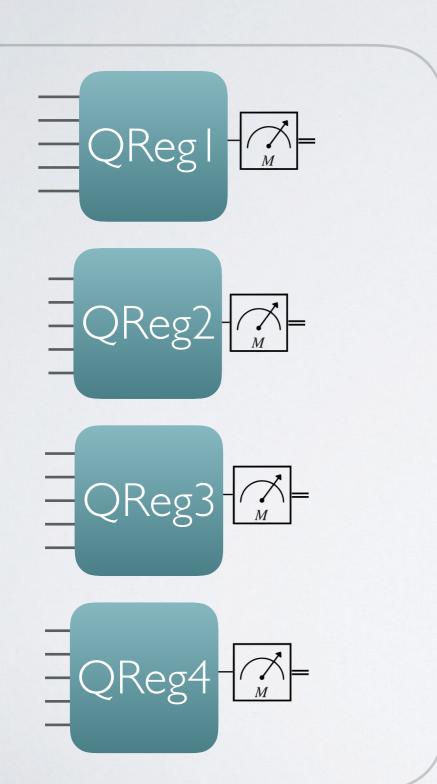
# APPROACH I: MULTICHIP

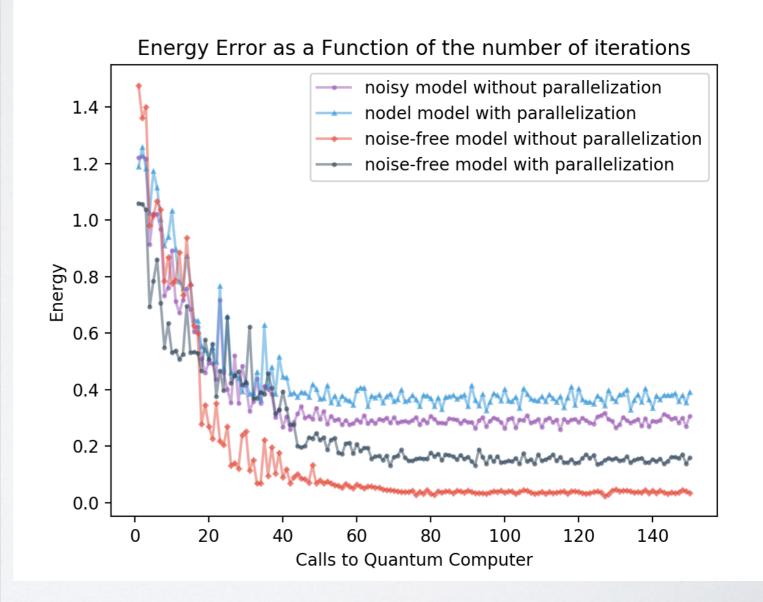
```
In [1]: instances=[]
for i in range(n_instances):
    instances.append(QuantumInstance(backend=BasicAer.get_backend("qasm_simulator"), shots=n_shots))
vqe_instance = VOE(qubitOp, var form, optimizer=optimizer,threads=len(instances))
result_n_P: vqe_instance.run(instances)
```



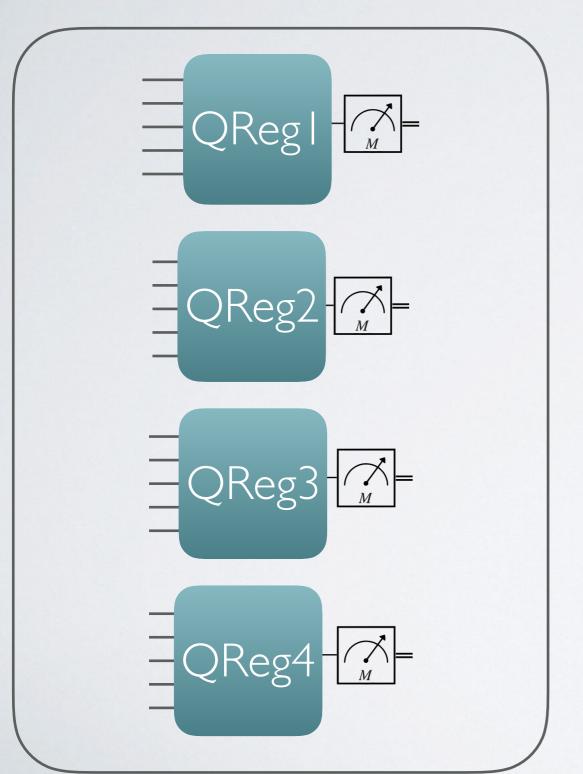
Issue 17: ParallelBond - License to Optimize

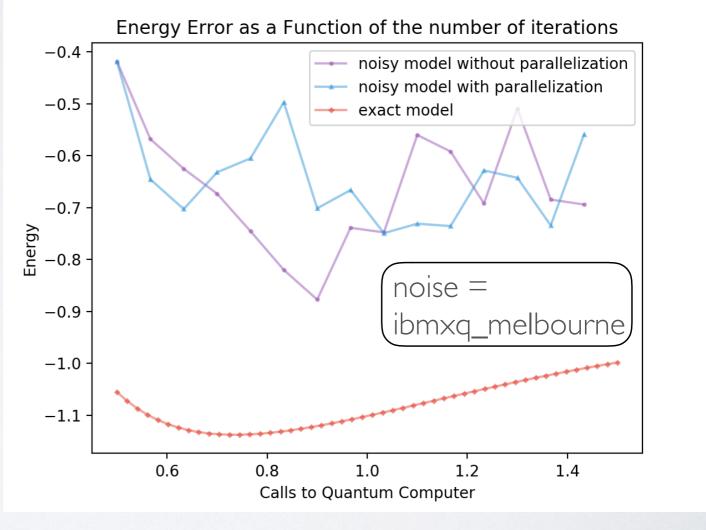
# APPROACH 2: SINGLE CHIP



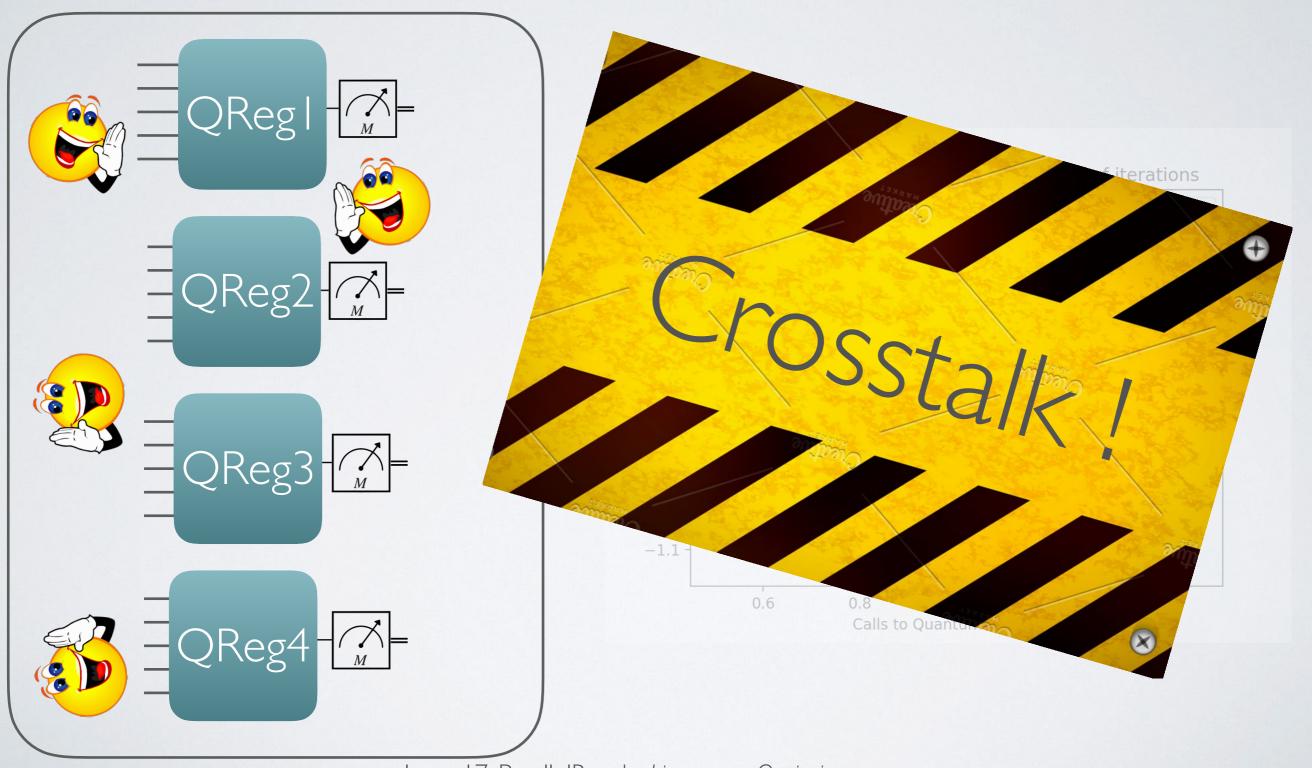


# APPROACH 2: SINGLE CHIP





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#### THE POINT:

Don't build a Quantum Computer

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Don't build a Quantum Computer

Build many!