## Intel(R) Xeon(R) CPU E5-2683 v4 @ 2.10GHz Roofline Model quantum dealll hmmer

10<sup>0</sup>

Arithmetic Intensity (FLOP/Byte)

 $10^{1}$ 

 $10^{2}$ 

10<sup>3</sup>

10<sup>2</sup>

 $10^{1}$ 

10°

 $10^{-1}$ 

 $10^{-2}$ 

10<sup>-3</sup>

10<sup>-3</sup>

 $10^{-2}$ 

 $10^{-1}$ 

Compute Throughput (GFLOP/s)