

TABLE I. SPECIFICATIONS OF GPU ACCELERATOR USED.

A. Instrument 2: NVIDIA Tesla C2070	
Property	Details
Number of CUDA cores	448
Frequency of each core	1.15GHz
Total dedicated memory	6GB GDDR5
Memory speed	1.5GHz
Memory interface	384-bit
Memory bandwidth	144GB/s

B. Instrument 2: NVIDIA Tesla K20	
Property	Details
Number of CUDA Cores	2496
Frequency of each core	1.15GHz
Total dedicated memory	5GB GDDR5
Memory speed	1.5GHz
Memory interface	384-bit
Memory bandwidth	208GB/s