

Table 1: Benchmark applications used for validation with their respective input parameter values. MB and CB denote memory-bound and compute-bound, respectively.

Benchmark	Type	Input parameters	
Vectoradd	MB	dtype	32, 64
		length	100, 1000, 10000, 20000, 500000
Matrixmul (naive)	CB	dtype	32
		m	32, 64, 128, 512
		n	32, 64, 128, 512
		p	32, 64, 128, 512
Matrixmul	CB	dtype	32
		rows	32, 64, 128, 256, 512
Transpose	MB	dim	128, 256, 512
		variant	coalesced, naive
Babelstream	MB	size	1024, 10240, 102400