

Parameters	SPMD	SIMD
Approach	<p>Multiple Processors execute the same</p> <p>The program, each operating on different</p> <p>data.</p>	<p>The single processor executes the same</p> <p>instruction on multiple data elements.</p>
Scope of parallelism	Data parallelism	Instruction parallelism
Communication	Interprocessor communication required.	Interprocessor communication not required.
Memory	Each processor has its own memory.	Single Memory Unit.
Usage	Used in Distributed memory systems such as Clusters.	Used in shared memory systems.