

SPE Instruction and Unit

Unit	Instruction	Execution Pipe	Unit Pipeline Depth	Instruction Latency
Simple Fixed Unit	word arithmetic, logicals, count leading zero, selects, compares	Even	2	2
	word shifts, rotates	Even	3	4
Single Precision Unit	multiply-accumulate	Even	6	6
	integer multiply-accumulate	Even	7	7
Byte	pop count, absolute sum of differences, byte average, byte sum	Even	3	4
Permute	quadword shifts, rotates, gathers, shuffles as well as reciprocal estimate	Odd	3	4
Local Store	load and store	Odd	6	6
Channel	channel read and write	Odd	5	6
Branch	branches	Odd	3	4