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bzip2-L1-small      Simulation Results

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Number of reference types:

Number of reads	=	1874397115	[18.74%]
Number of writes	=	567216161	[5.67%]
Number of inst	=	7558386724	[75.58%]
Total	=	10000000000	

Total cycles for all activities:

Cycles for reads	=	21179555688	[41.43%]
Cycles for writes	=	17952916491	[35.12%]
Cycles for inst	=	11990524495	[23.45%]
Total time	=	51122996674	

Average cycles per activity:

Read	=	11.30
Write	=	31.65
Inst	=	1.59

Ideal: Exec. Time = 17558386724; CPI = 2.32

Ideal mis-aligned: Exec. Time = 23201139335; CPI = 3.07

Memory level: L1i

Hits	=	11965490130	[99.99%]
Misses	=	1102823	[0.01%]
Total	=	11966592953	
Kickouts	=	1102695, Dirty kickouts = 0, Transfers = 1102823	

Memory level: L1d

Hits	=	2336029598	[91.91%]
Misses	=	205697738	[8.09%]
Total	=	2541727336	
Kickouts	=	205697610, Dirty kickouts = 84391651, Transfers = 205697738	

Memory level: L2

Hits	=	141445647	[48.57%]
Misses	=	149746565	[51.43%]
Total	=	291192212	
Kickouts	=	149746053, Dirty kickouts = 66393690, Transfers = 149746565	

Cost analysis:

L1i cache cost	=	\$100
L1d cache cost	=	\$100
L2 cache cost	=	\$50
Memory cost	=	\$75
Total cost	=	\$325