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bzip2-defaults      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	=	21168923005	[40.97%]
Cycles for writes	=	18509292237	[35.82%]
Cycles for inst	=	11988306327	[23.20%]
Total time	=	51666521569	

Average cycles per activity:

Read	=	11.29
Write	=	32.63
Inst	=	1.59

Ideal: Exec. Time = 17558386724; CPI = 2.32

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

Memory level: L1i

Hits	=	11965504642	[99.99%]
Misses	=	1088311	[0.01%]
Total	=	11966592953	
Kickouts	=	1088055, Dirty kickouts = 0, Transfers = 1088311	

Memory level: L1d

Hits	=	2360740266	[92.88%]
Misses	=	180987070	[7.12%]
Total	=	2541727336	
Kickouts	=	180986814, Dirty kickouts = 75658750, Transfers = 180987070	

Memory level: L2

Hits	=	100849192	[39.13%]
Misses	=	156884939	[60.87%]
Total	=	257734131	
Kickouts	=	156884427, Dirty kickouts = 66969105, Transfers = 156884939	

Cost analysis:

L1i cache cost	=	\$200
L1d cache cost	=	\$200
L2 cache cost	=	\$50
Memory cost	=	\$75
Total cost	=	\$525