

Number of reference types:

Number of reads	=	2009285423	[20.09%]
Number of writes	=	1237898222	[12.38%]
Number of inst	=	6752816355	[67.53%]
Total	=	10000000000	

Total cycles for all activities:

Cycles for reads	=	35537444002	[44.39%]
Cycles for writes	=	8428762424	[10.53%]
Cycles for inst	=	36094136827	[45.08%]
Total time	=	80060343253	

Average cycles per activity:

Read	=	17.69
Write	=	6.81
Inst	=	11.86

Ideal: Exec. Time = 16752816355; CPI = 2.48

Ideal mis-aligned: Exec. Time = 26618750504; CPI = 3.94

Memory level: L1i

Hits	=	11006133158	[96.03%]
Misses	=	455112931	[3.97%]
Total	=	11461246089	
Kickouts	=	455112675, Dirty kickouts = 0, Transfers = 455112931	

Memory level: L1d

Hits	=	5562301532	[93.82%]
Misses	=	366590084	[6.18%]
Total	=	5928891616	
Kickouts	=	366589828, Dirty kickouts = 162590750, Transfers = 366590084	

Memory level: L2

Hits	=	643964024	[65.42%]
Misses	=	340329741	[34.58%]
Total	=	984293765	
Kickouts	=	340329229, Dirty kickouts = 83598965, Transfers = 340329741	

Cost analysis:

L1i cache cost	=	\$200
L1d cache cost	=	\$200
L2 cache cost	=	\$50
Memory cost	=	\$175
Total cost	=	\$625