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astar-Lld-small            Simulation Results

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Number of reference types:

Number of reads	=	2549106849	[25.49%]
Number of writes	=	626305991	[6.26%]
Number of inst	=	6824587160	[68.25%]
Total	=	10000000000	

Total cycles for all activities:

Cycles for reads	=	33323479668	[58.95%]
Cycles for writes	=	11712805234	[20.72%]
Cycles for inst	=	11490462399	[20.33%]
Total time	=	56526747301	

Average cycles per activity:

Read	=	13.07
Write	=	18.70
Inst	=	1.68

Ideal: Exec. Time = 16824587160; CPI = 2.47

Ideal mis-aligned: Exec. Time = 23929686467; CPI = 3.51

Memory level: L1i

Hits	=	11393011748	[99.99%]
Misses	=	1303125	[0.01%]
Total	=	11394314873	
Kickouts	=	1302869, Dirty kickouts = 0, Transfers = 1303125	

Memory level: L1d

Hits	=	4001371773	[89.75%]
Misses	=	456800679	[10.25%]
Total	=	4458172452	
Kickouts	=	456800551, Dirty kickouts = 179643008, Transfers = 456800679	

Memory level: L2

Hits	=	501306381	[78.61%]
Misses	=	136440431	[21.39%]
Total	=	637746812	
Kickouts	=	136439919, Dirty kickouts = 65580547, Transfers = 136440431	

Cost analysis:

L1i cache cost	=	\$200
L1d cache cost	=	\$100
L2 cache cost	=	\$50
Memory cost	=	\$75
Total cost	=	\$425