
astar-mem-64 Simulation Results

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	=	20396731200	[51.60%]
Cycles for writes	=	7679234377	[19.43%]
Cycles for inst	=	11454931387	[28.98%]
Total time	=	39530896964	

Average cycles per activity:

Read	=	8.00
Write	=	12.26
Inst	=	5.79

Ideal: Exec. Time = 16824587160; CPI = 2.47

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

Ideal execution time	=	16824587160	[CPI 2.47]
Ideal misaligned time	=	22677074485	[CPI 3.32]

Memory level: L1i

Hits	=	11393011748	[99.99%]
Misses	=	1303125	[0.01%]
Total	=	11394314873	

Kickouts = 1302869, Dirty kickouts = 0, Transfers = 1303125

Memory level: L1d

Hits	=	4214841543	[94.54%]
Misses	=	243330909	[5.46%]
Total	=	4458172452	

Kickouts = 243330653, Dirty kickouts = 94594555, Transfers = 243330909

Memory level: L2

Hits	=	198286480	[58.45%]
Misses	=	140942109	[41.55%]
Total	=	339228589	

Kickouts = 140941597, Dirty kickouts = 65799800, Transfers = 140942109

Cost analysis:

L1i cache cost	=	\$200
L1d cache cost	=	\$200
L2 cache cost	=	\$50
Memory cost	=	\$275
Total cost	=	\$725