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astar-All-2way      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	=	24005615139	[51.70%]
Cycles for writes	=	10994951788	[23.68%]
Cycles for inst	=	11433827185	[24.62%]
Total time	=	46434394112	

Average cycles per activity:

Read	=	9.42
Write	=	17.56
Inst	=	1.68

Ideal: Exec. Time = 16824587160; CPI = 2.47

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

Memory level: L1i

Hits	=	11393817355	[100.00%]
Misses	=	497518	[0.00%]
Total	=	11394314873	
Kickouts	=	497262, Dirty kickouts = 0, Transfers = 497518	

Memory level: L1d

Hits	=	4261874755	[95.60%]
Misses	=	196297697	[4.40%]
Total	=	4458172452	
Kickouts	=	196297441, Dirty kickouts = 80765893, Transfers = 196297697	

Memory level: L2

Hits	=	160662256	[57.88%]
Misses	=	116898852	[42.12%]
Total	=	277561108	
Kickouts	=	116898340, Dirty kickouts = 59753876, Transfers = 116898852	

Cost analysis:

L1i cache cost	=	\$400
L1d cache cost	=	\$400
L2 cache cost	=	\$100
Memory cost	=	\$75
Total cost	=	\$975