

Executing Sieve of Eratosthenes in Gem5

Input Value: 1,000,000

Output Value: 78,498

L1 Instruction Cache: 16 KB

L1 Data Cache: 64 KB

L2 Cache: 256 KB

CPU Model: Timing Simple CPU

Memory Controller: DDR3_1600_8x8

CPU Frequency	Clock Ticks
1 GHz	203820609000
1.5 GHz	146928722314
2 GHz	118159529000
2.5 GHz	101120702400
3 GHz	89939914056

Memory Controller: DDR3_2133_x64

CPU Frequency	Clock Ticks
1 GHz	201826692000
1.5 GHz	144918473692
2 GHz	116137897000
2.5 GHz	99357323200
3 GHz	87711008193

Memory Controller: LPDDR2_S4_1066_x32

CPU Frequency	Clock Ticks
1 GHz	217053943000
1.5 GHz	161873429600
2 GHz	133974112500
2.5 GHz	117531466800
3 GHz	106719047127

CPU Model: Minor CPU

Memory Controller: DDR3_1600_8x8

CPU Frequency	Clock Ticks
1 GHz	136131317000
1.5 GHz	98688911796
2 GHz	79817267500
2.5 GHz	68932962800
3 GHz	61075366497

Memory Controller: DDR3_2133_x64

CPU Frequency	Clock Ticks
1 GHz	134556609000
1.5 GHz	97185748590
2 GHz	78181729000
2.5 GHz	67399970400
3 GHz	59434652187

Memory Controller: LPDDR2_S4_1066_x32

CPU Frequency	Clock Ticks
1 GHz	147387025000
1.5 GHz	111078961725
2 GHz	92797038000
2.5 GHz	82153318800
3 GHz	75145725720