

Grid Size Impact in Memory

45°/15°/5° grid, buffer of 10, Simulation step 1 minute, 10 days of simulation time

Median Values

Initiative & Threads	45° Grid size	15° Grid size	5° Grid size
GUI - All in the same thread	9,042,240	5,896,900	13,482,992
GUI - All in separate threads	5,768,144	6,138,720	5,973,184
Presentation - Presentation in own thread	5,763,368	11,558,828	6,007,120
Simulation - Simulation in own thread	10,456,104	11,383,052	15,286,016
Simulation - Presentation in own thread	5,763,192	5,693,488	5,143,672

Expressed as percentage of minimum

Initiative & Threads	45° Grid size	15° Grid size	5° Grid size
GUI - All in the same thread	175.79%	114.64%	262.13%
GUI - All in separate threads	112.14%	119.35%	116.13%
Presentation - Presentation in own thread	112.05%	224.72%	116.79%
Simulation - Simulation in own thread	203.28%	221.30%	297.18%
Simulation - Presentation in own thread	112.04%	110.69%	100.00%

Expressed as percentage of maximum

Initiative & Threads	45° Grid size	15° Grid size	5° Grid size
GUI - All in the same thread	59.15%	38.58%	88.20%
GUI - All in separate threads	37.73%	40.16%	39.08%
Presentation - Presentation in own thread	37.70%	75.62%	39.30%
Simulation - Simulation in own thread	68.40%	74.47%	100.00%
Simulation - Presentation in own thread	37.70%	37.25%	33.65%

Grid Size effect in Memory Usage

