MILESTONE 1: SERIAL IMPLEMENTATION

I 75*75 physical problem size

i Dense solver:

Memory	Time	Iteration
241.61 mb	468.75s	5625

ii Sparse solver

Memory	Time	Iteration
0.214 mb	1.39s	5625

II 10,000 * 10,000 physical problem size

i Dense solver:

Equation: (N*N+5*N)*sizeof(double)/1024.0/1024.0

Memory
1.75922e+13mb

ii Sparse solver

Equation: (5*N)*sizeof(double)/1024.0/1024.0

Memory
3814.7mb

III 75 * 75 physical problem size with the default source term vector b

the results for the 75 × 75 test problem: