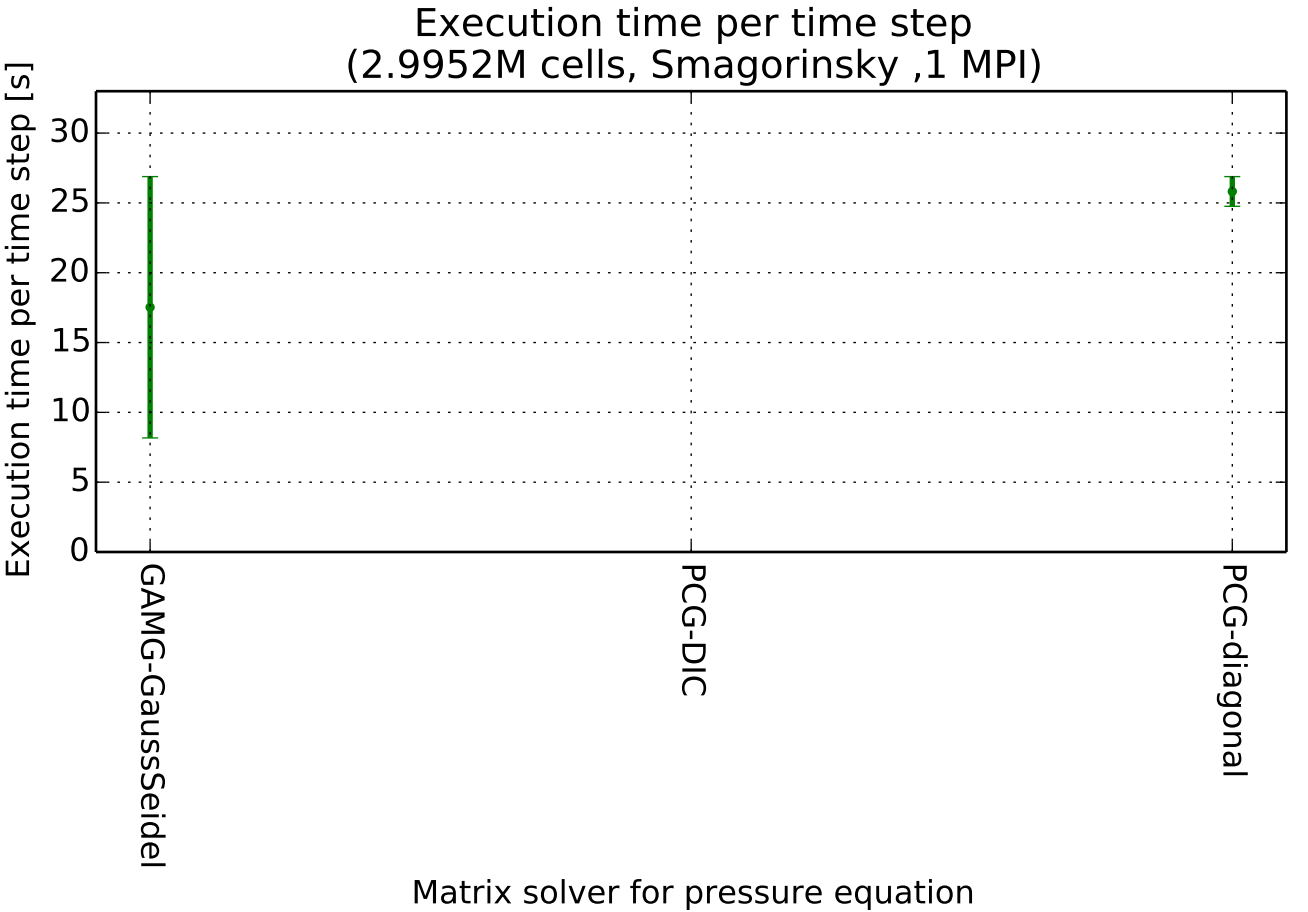
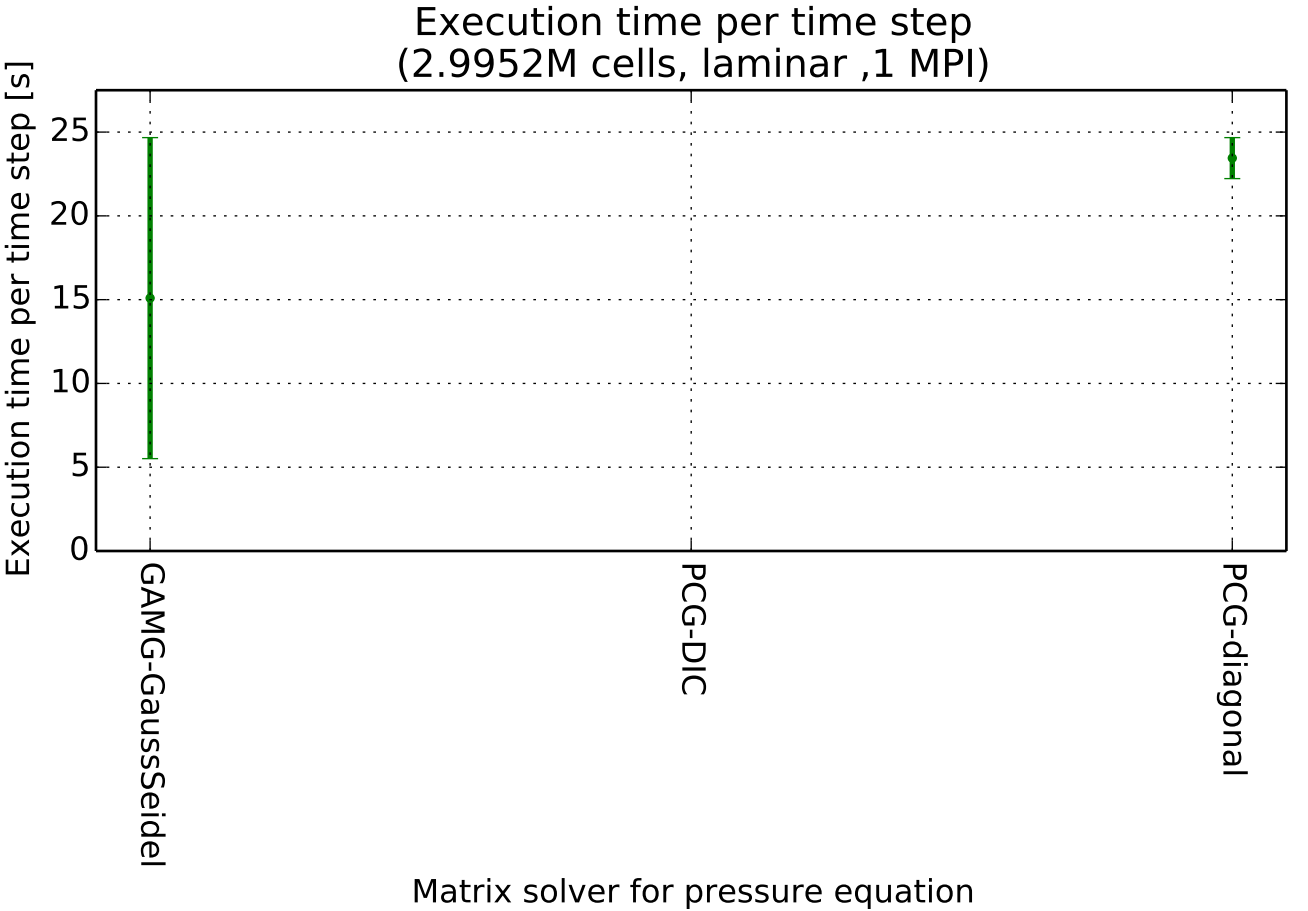
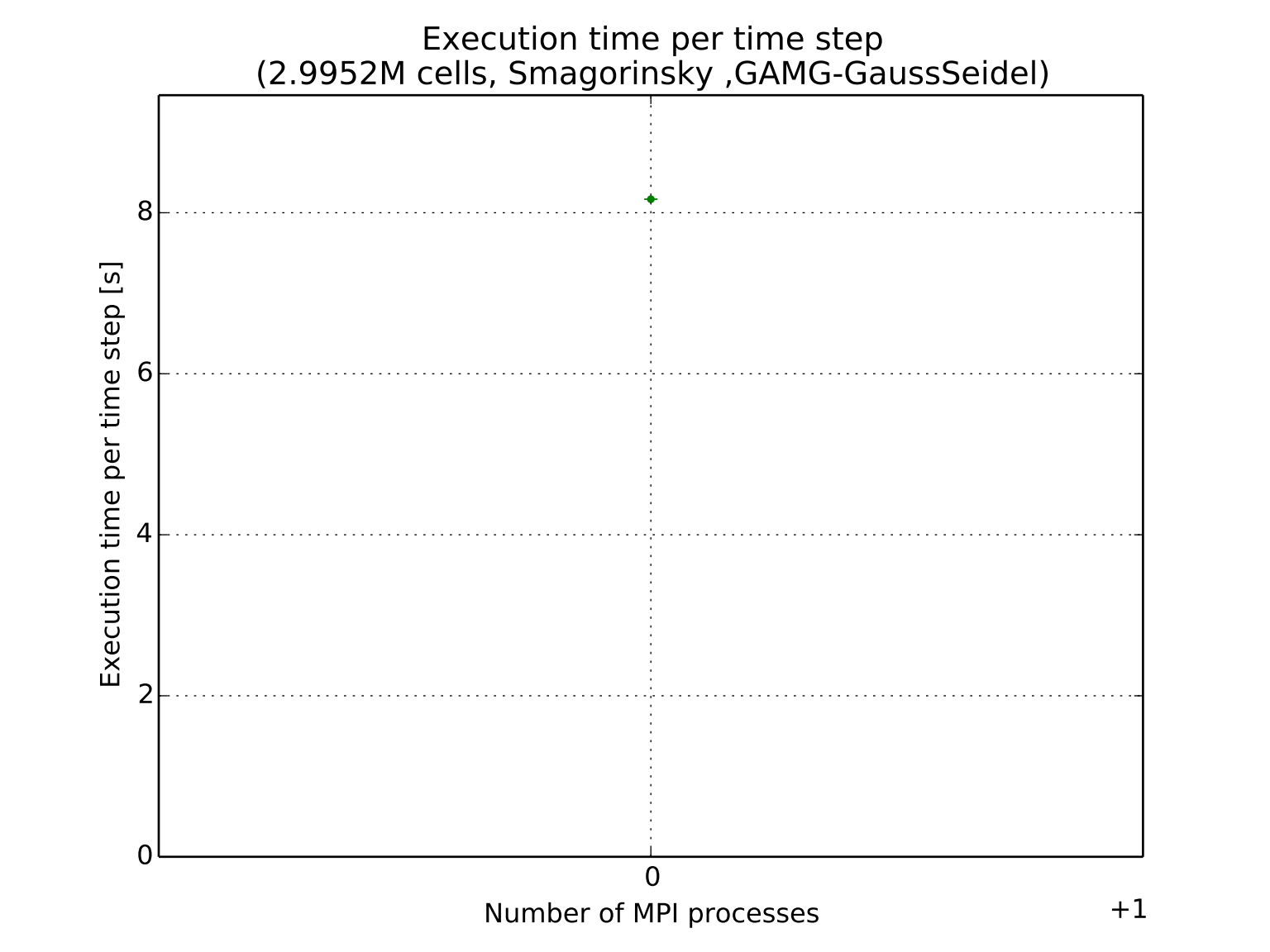
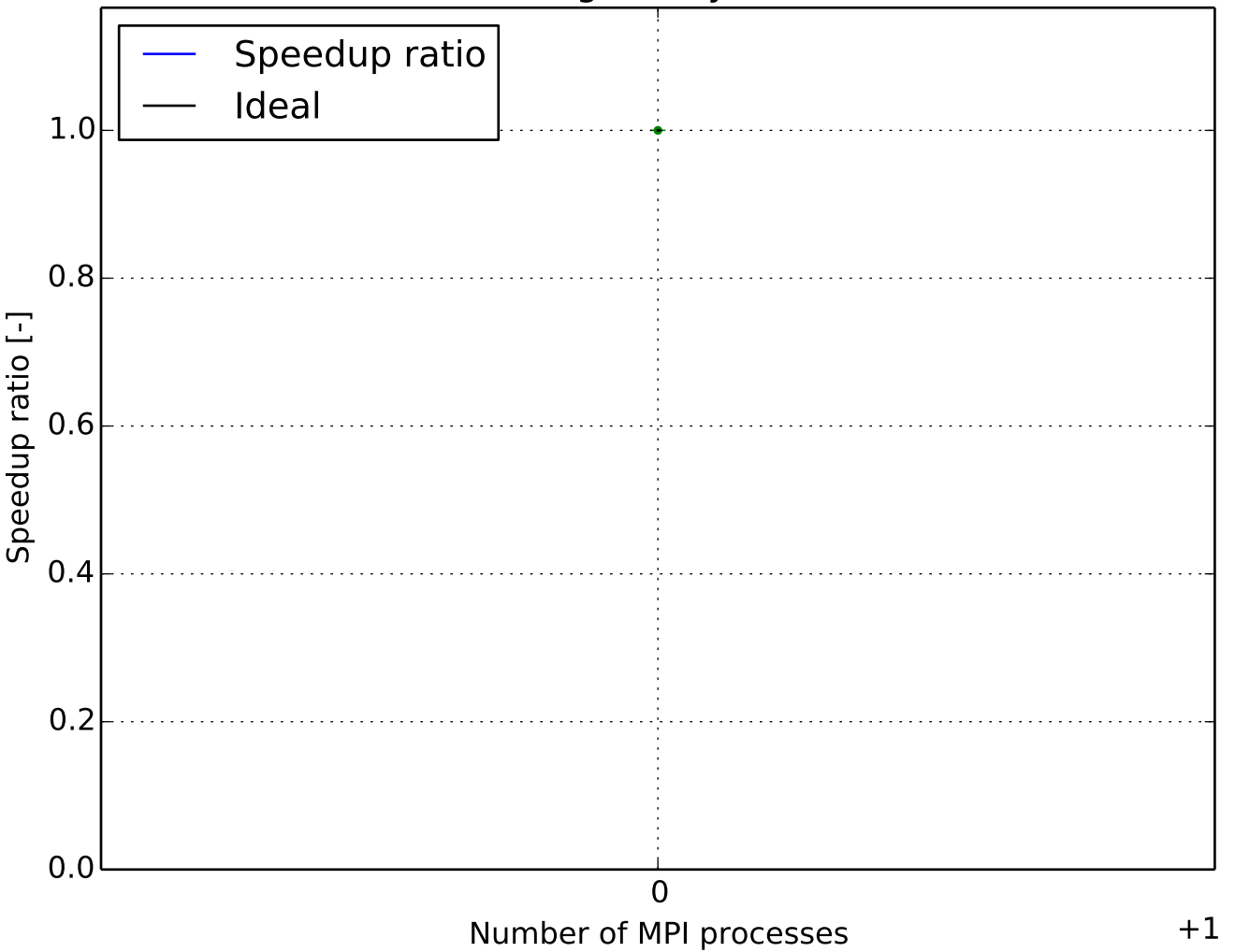
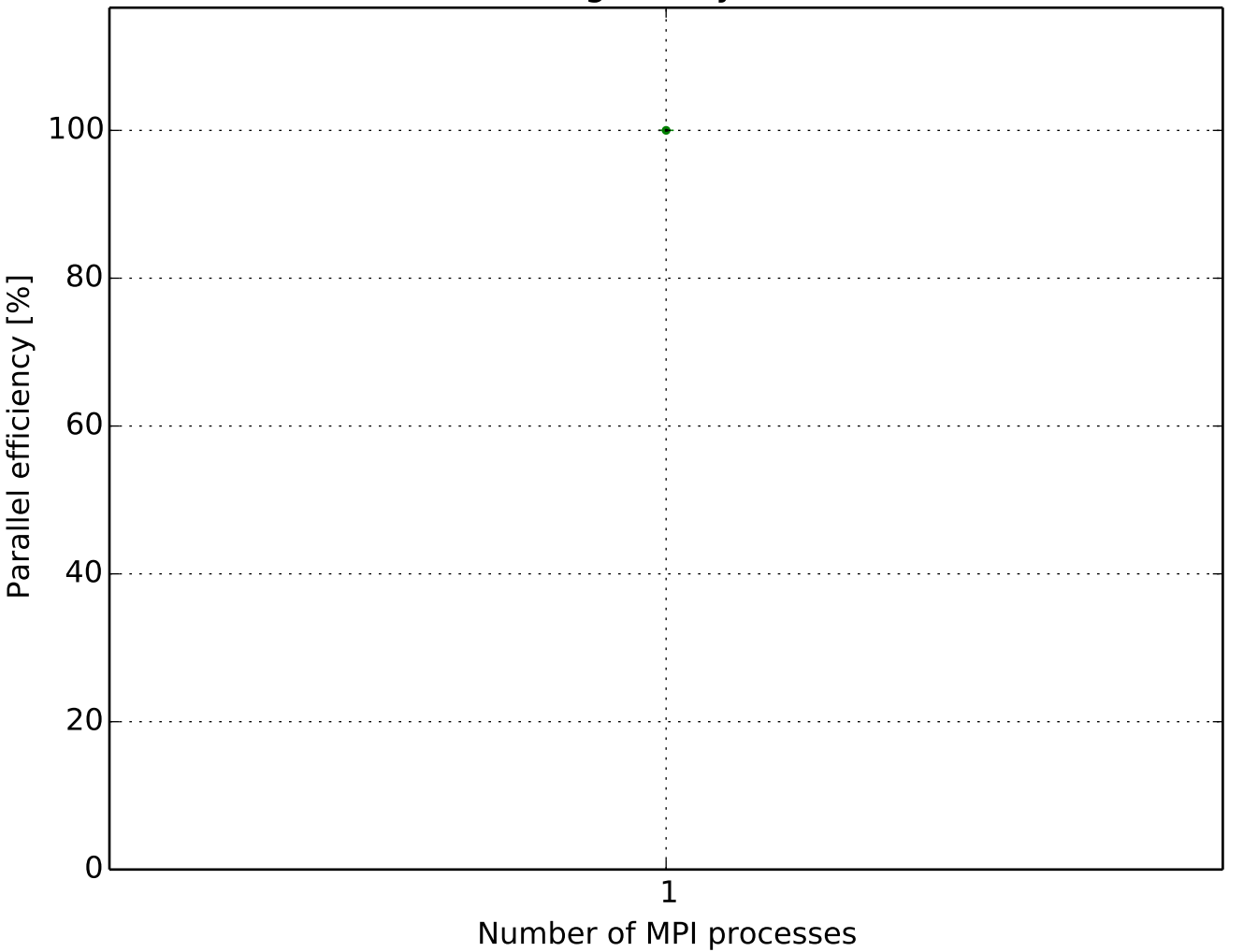
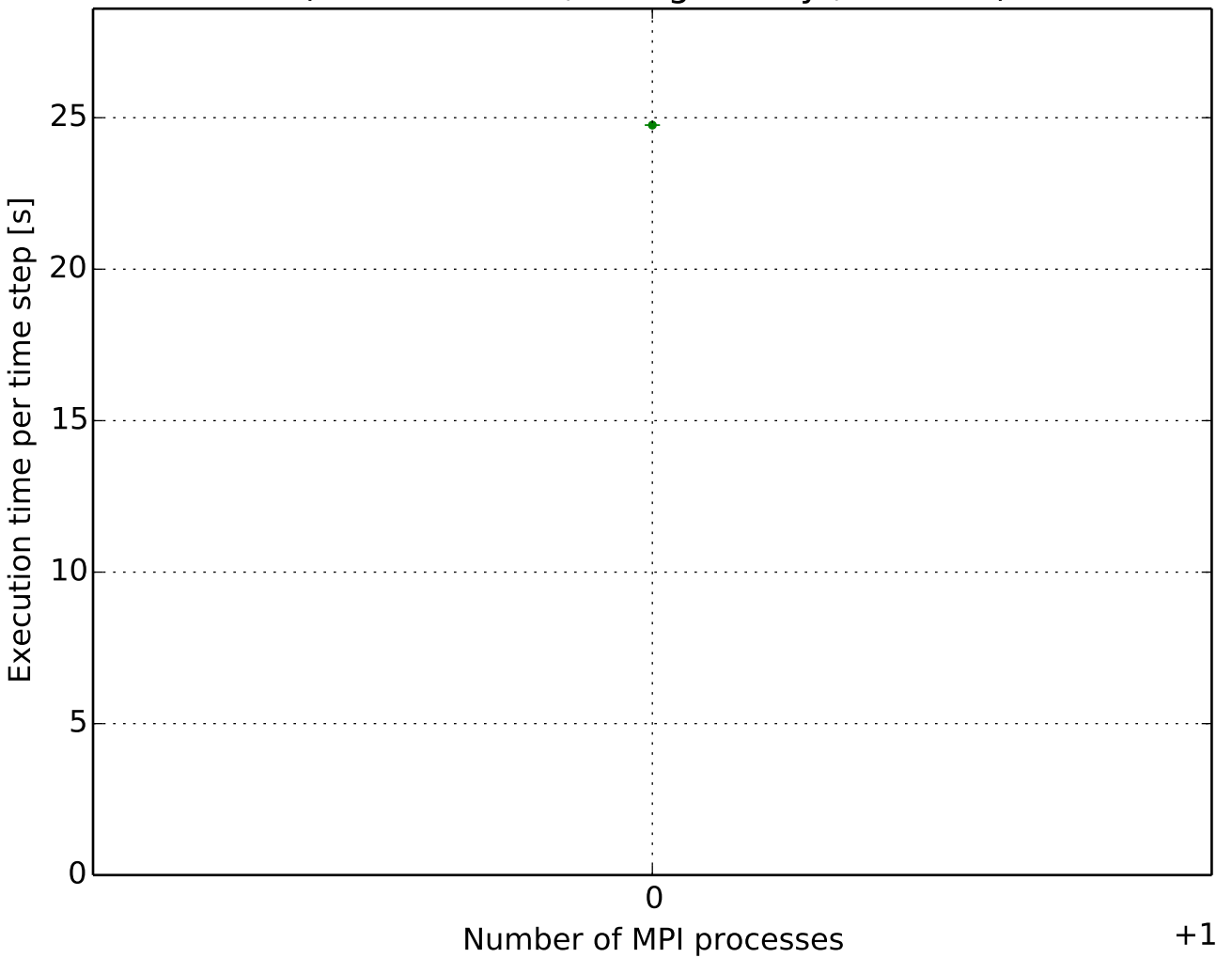

Execution time per time step
(2.9952M cells, Smagorinsky ,1 MPI)
Execution time per time step [s]
0
5
10
15
20
25
30
GAMG-GaussSeidel
PCG-DIC
PCG-diagonal
Matrix solver for pressure equation

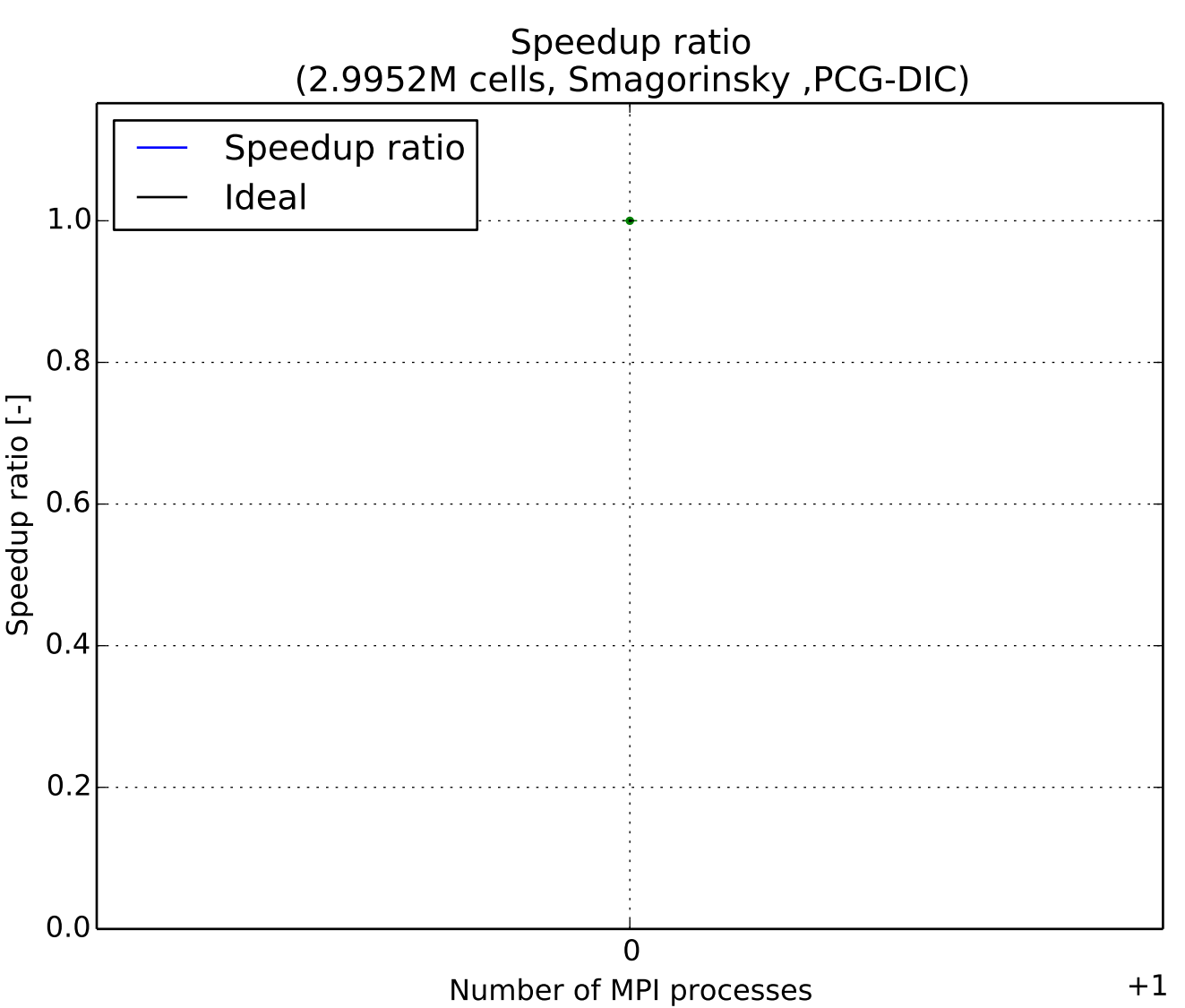

Execution time per time step
(2.9952M cells, laminar ,1 MPI)
Execution time per time step [s]
0
5
10
15
20
25
GAMG-GaussSeidel
PCG-DIC
PCG-diagonal
Matrix solver for pressure equation

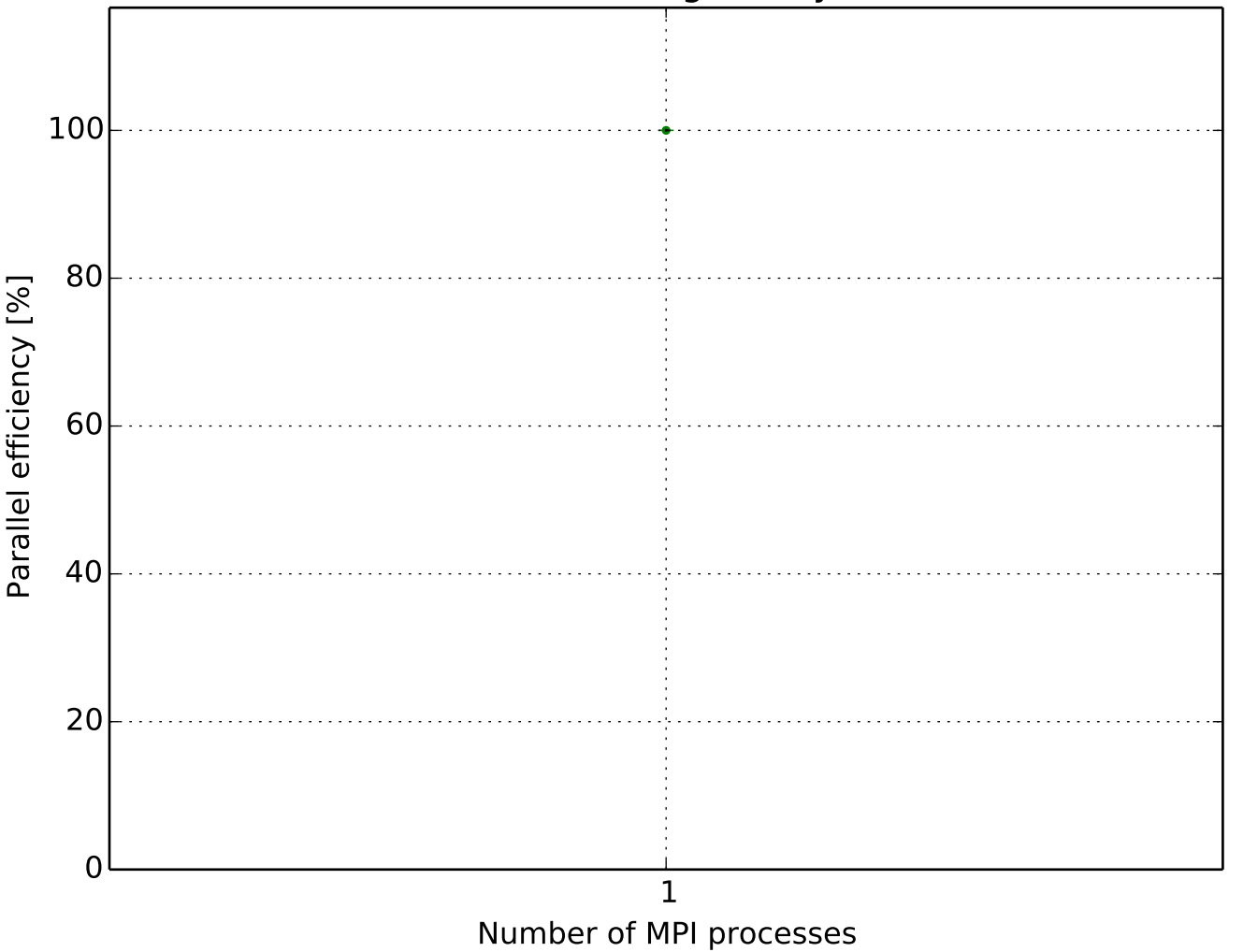

Execution time per time step
(2.9952M cells, Smagorinsky ,GAMG-GaussSeidel)
Execution time per time step [s]
0
2
4
6
8
0
Number of MPI processes
+1

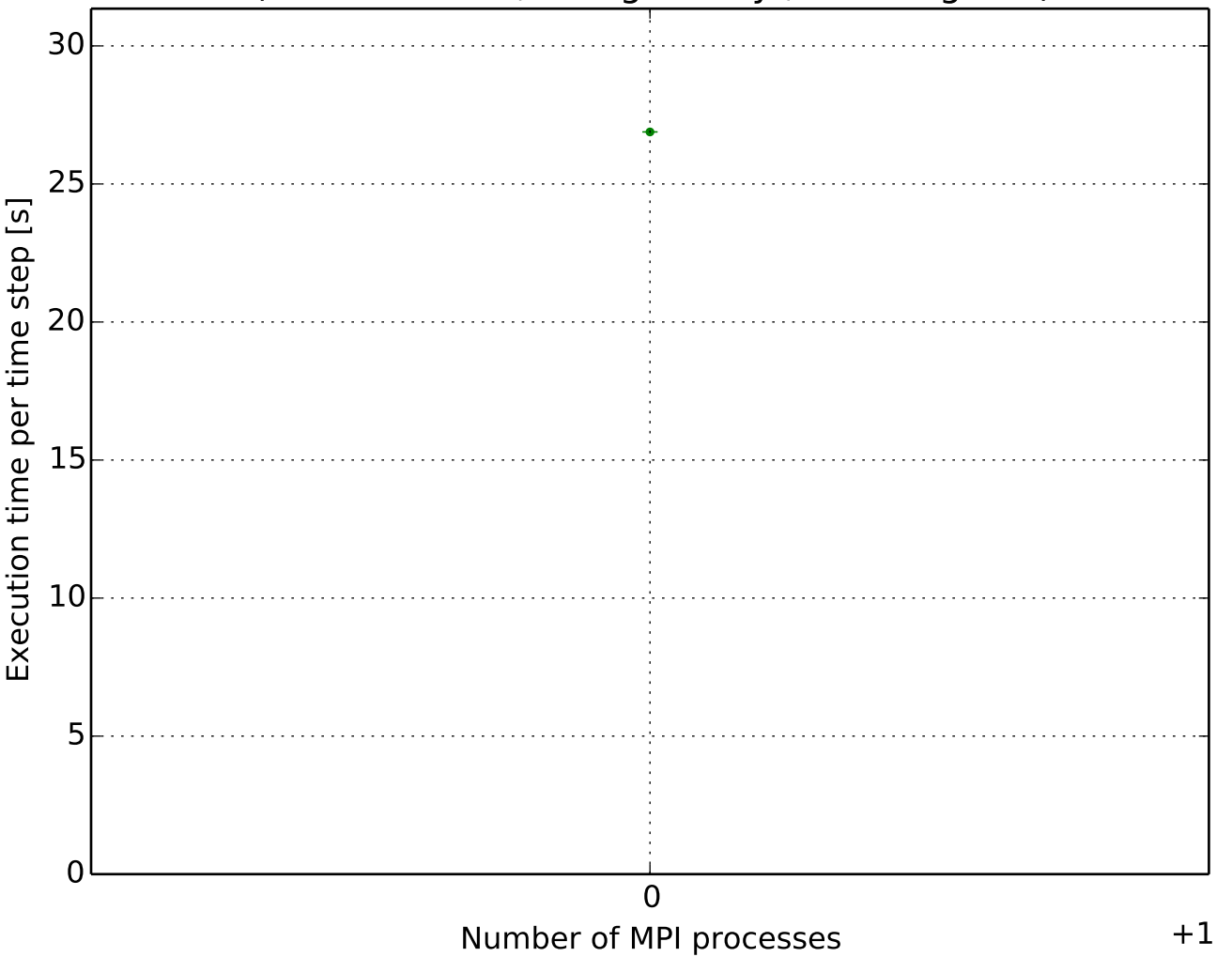

Speedup ratio
(2.9952M cells, Smagorinsky ,GAMG-GaussSeidel)
Speedup ratio
Ideal
1.0
0.8
0.6
0.4
0.2
0.0
Speedup ratio [-]
0
Number of MPI processes
+1

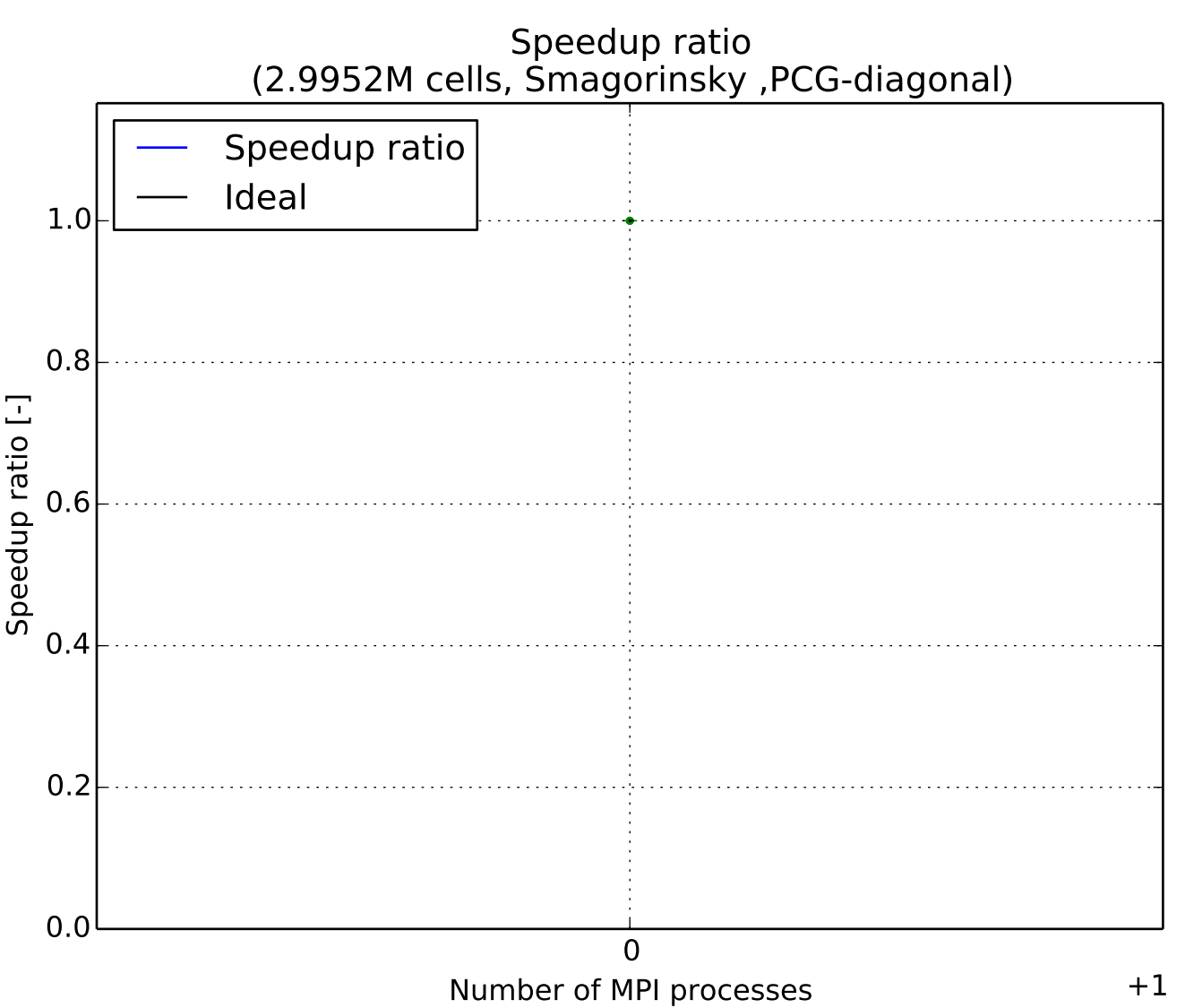

Parallel efficiency
(2.9952M cells, Smagorinsky ,GAMG-GaussSeidel)
Parallel efficiency [%]
100
80
60
40
20
0
1
Number of MPI processes

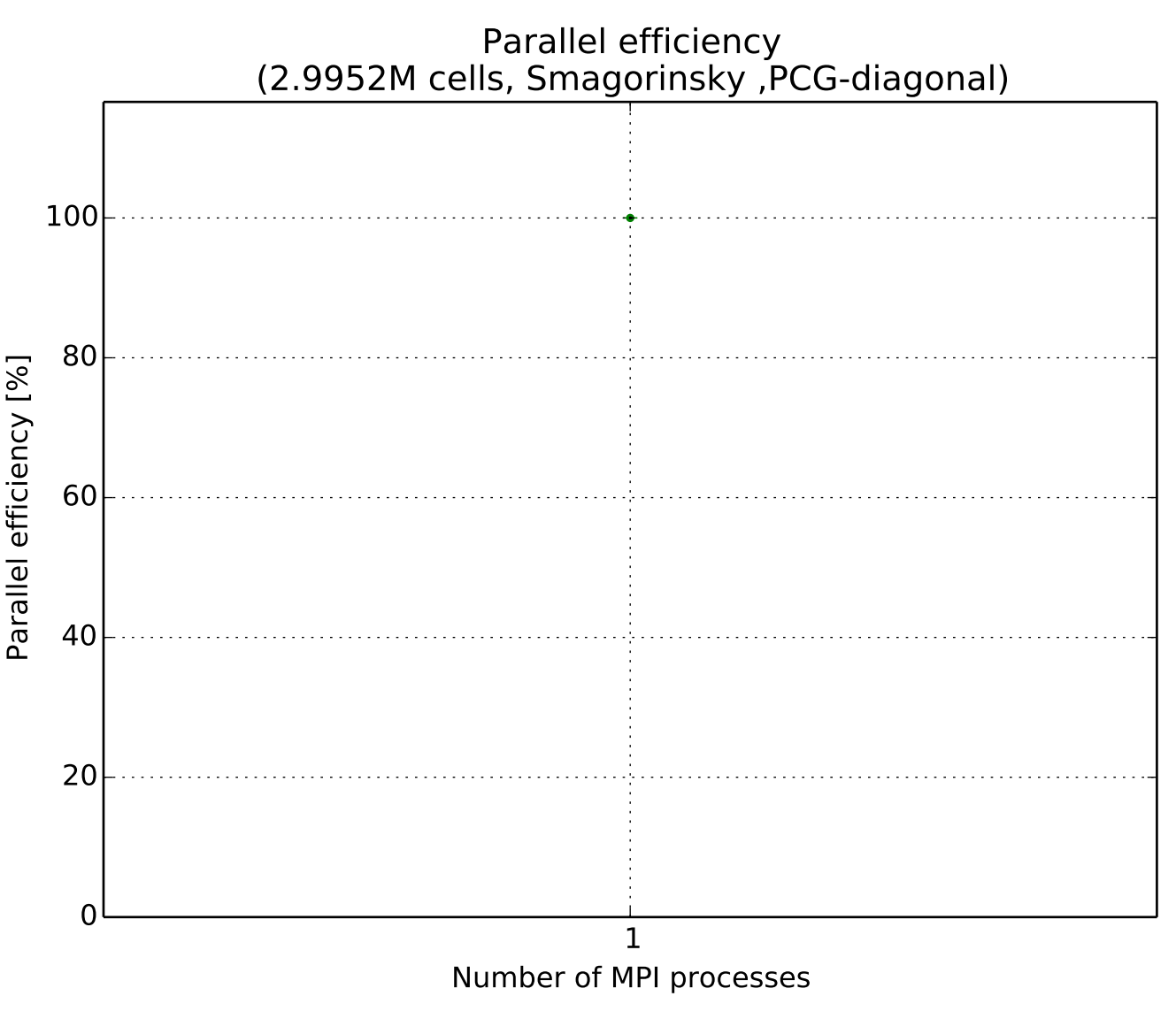

Execution time per time step
(2.9952M cells, Smagorinsky ,PCG-DIC)
Execution time per time step [s]
25
20
15
10
5
0
0
Number of MPI processes
+1

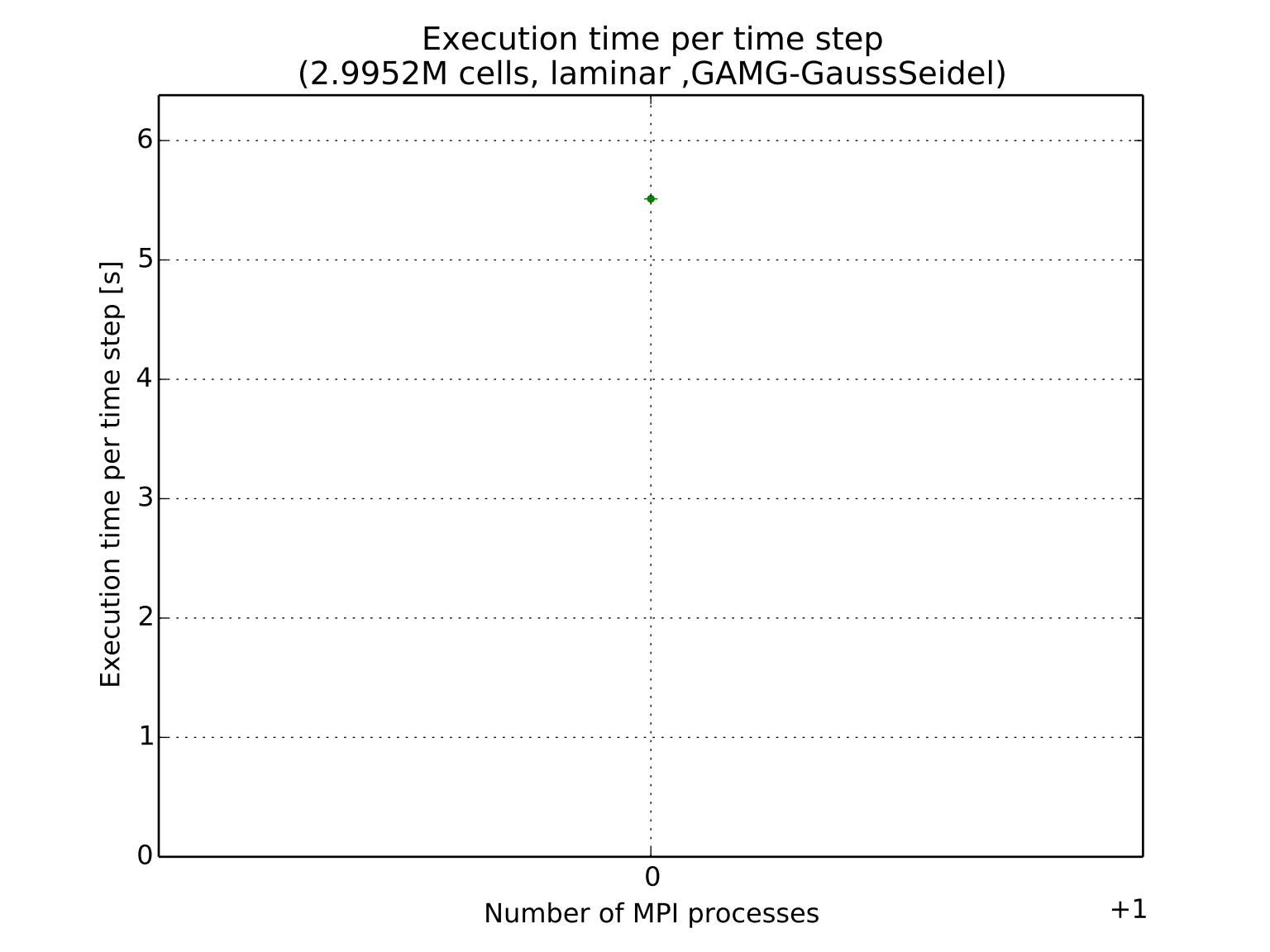

Speedup ratio
(2.9952M cells, Smagorinsky ,PCG-DIC)
Speedup ratio
Ideal
1.0
0.8
0.6
0.4
0.2
0.0
Speedup ratio [-]
0
Number of MPI processes
+1

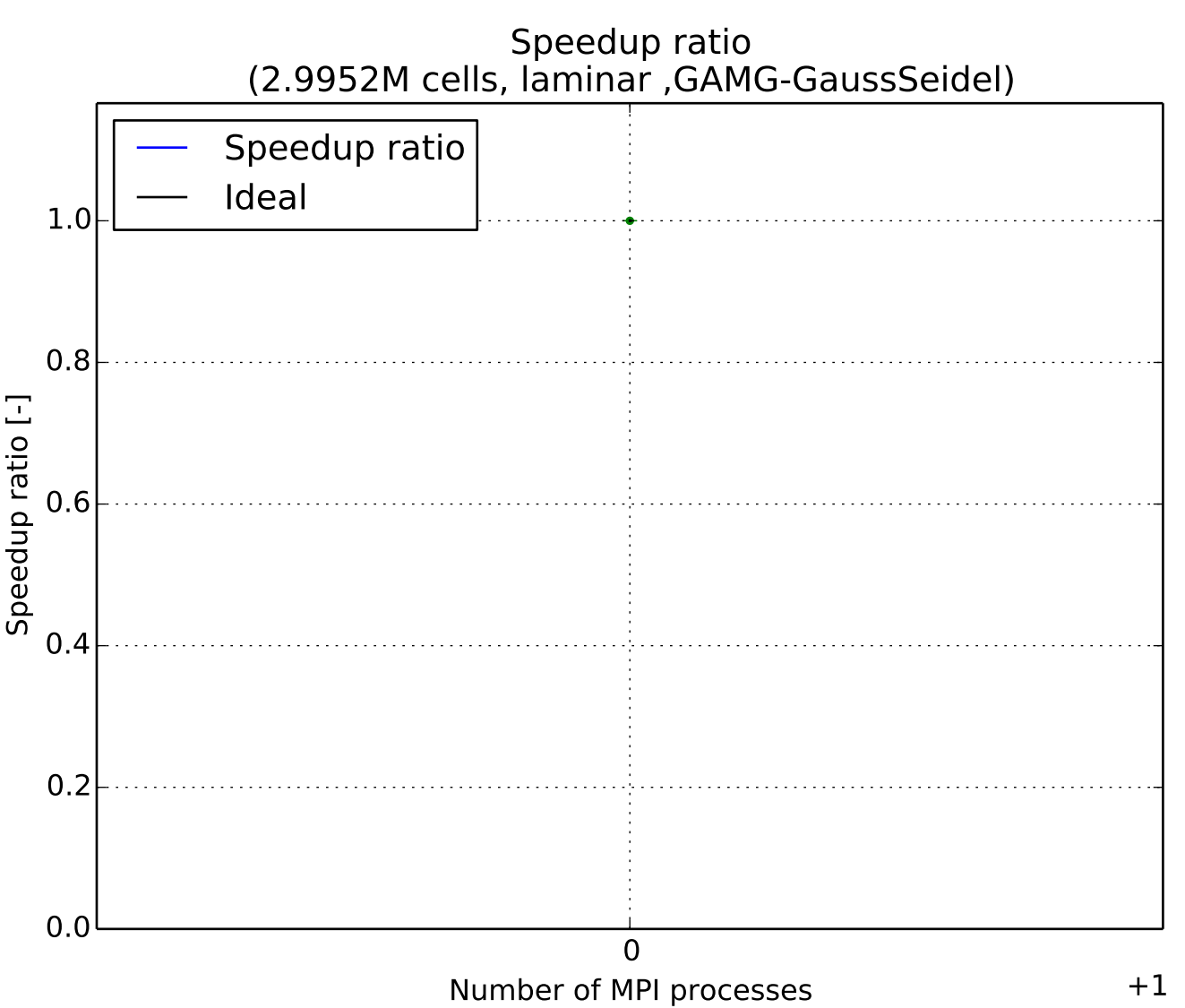

Parallel efficiency
(2.9952M cells, Smagorinsky ,PCG-DIC)
Parallel efficiency [%]
100
80
60
40
20
0
1
Number of MPI processes

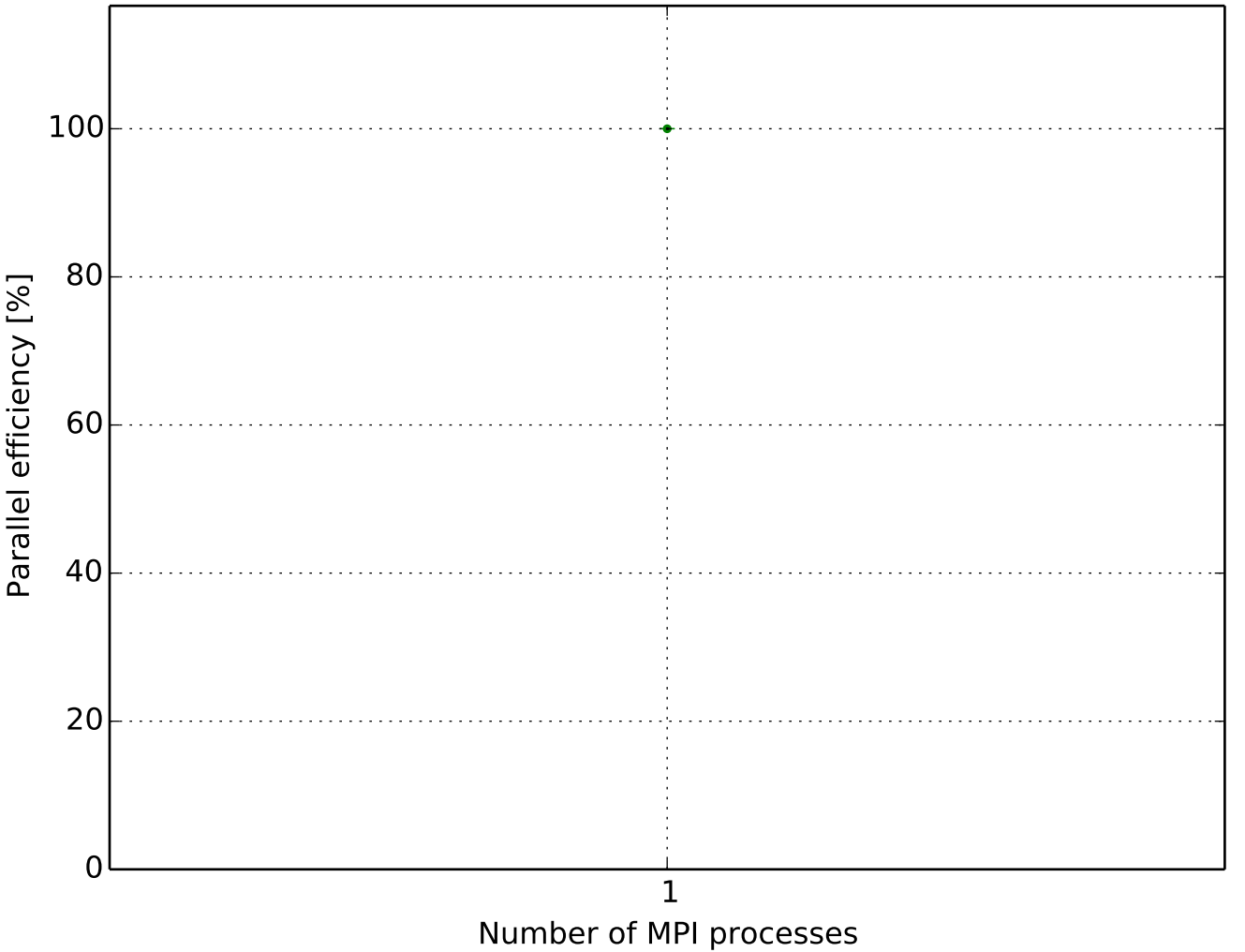

Execution time per time step
(2.9952M cells, Smagorinsky ,PCG-diagonal)
Execution time per time step [s]
30
25
20
15
10
5
0
0
Number of MPI processes
+1

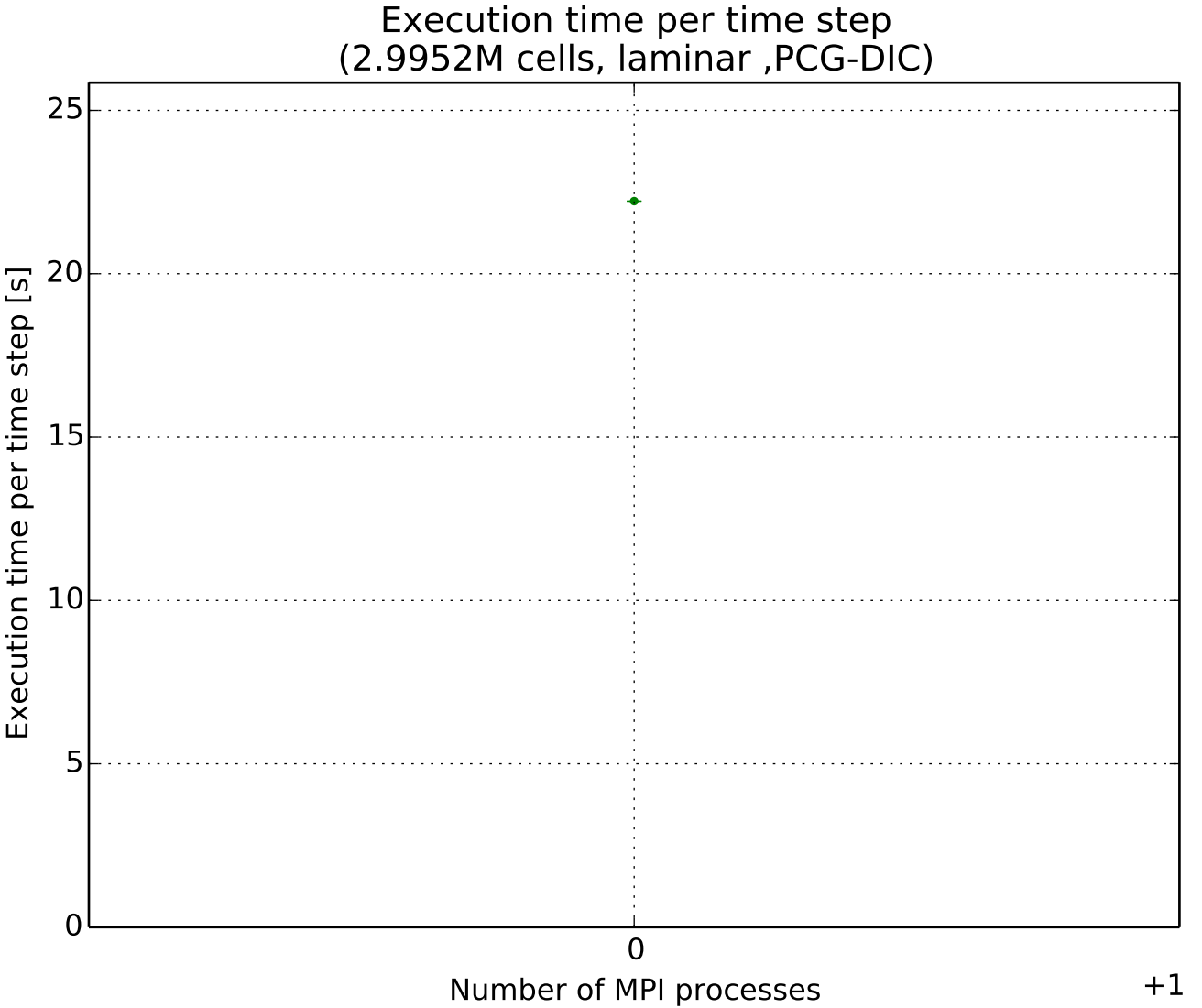

Speedup ratio
(2.9952M cells, Smagorinsky ,PCG-diagonal)
Speedup ratio
Ideal
1.0
0.8
0.6
0.4
0.2
0.0
Speedup ratio [-]
0
Number of MPI processes
+1

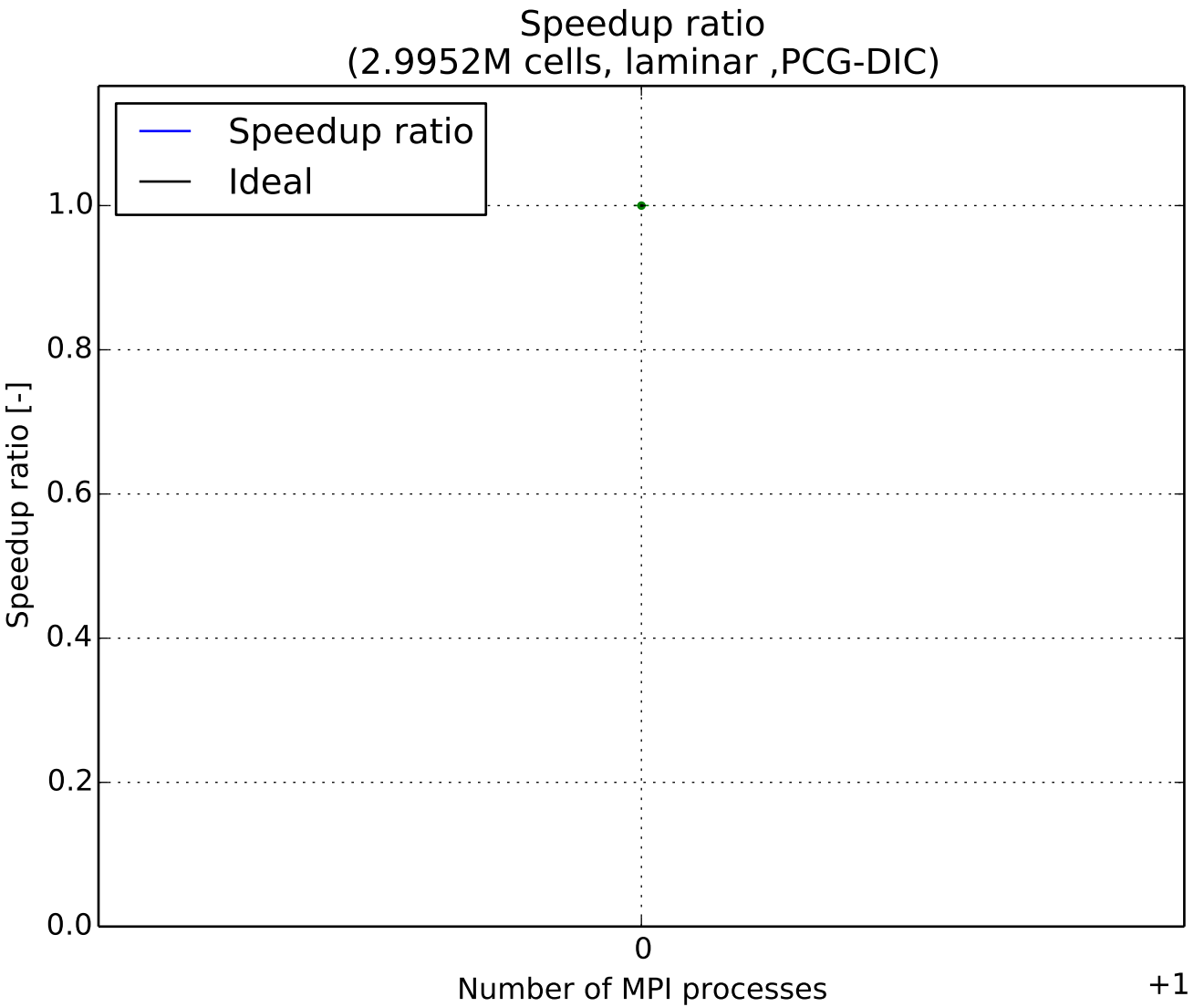

Parallel efficiency
(2.9952M cells, Smagorinsky ,PCG-diagonal)
Parallel efficiency [%]
100
80
60
40
20
0
1
Number of MPI processes

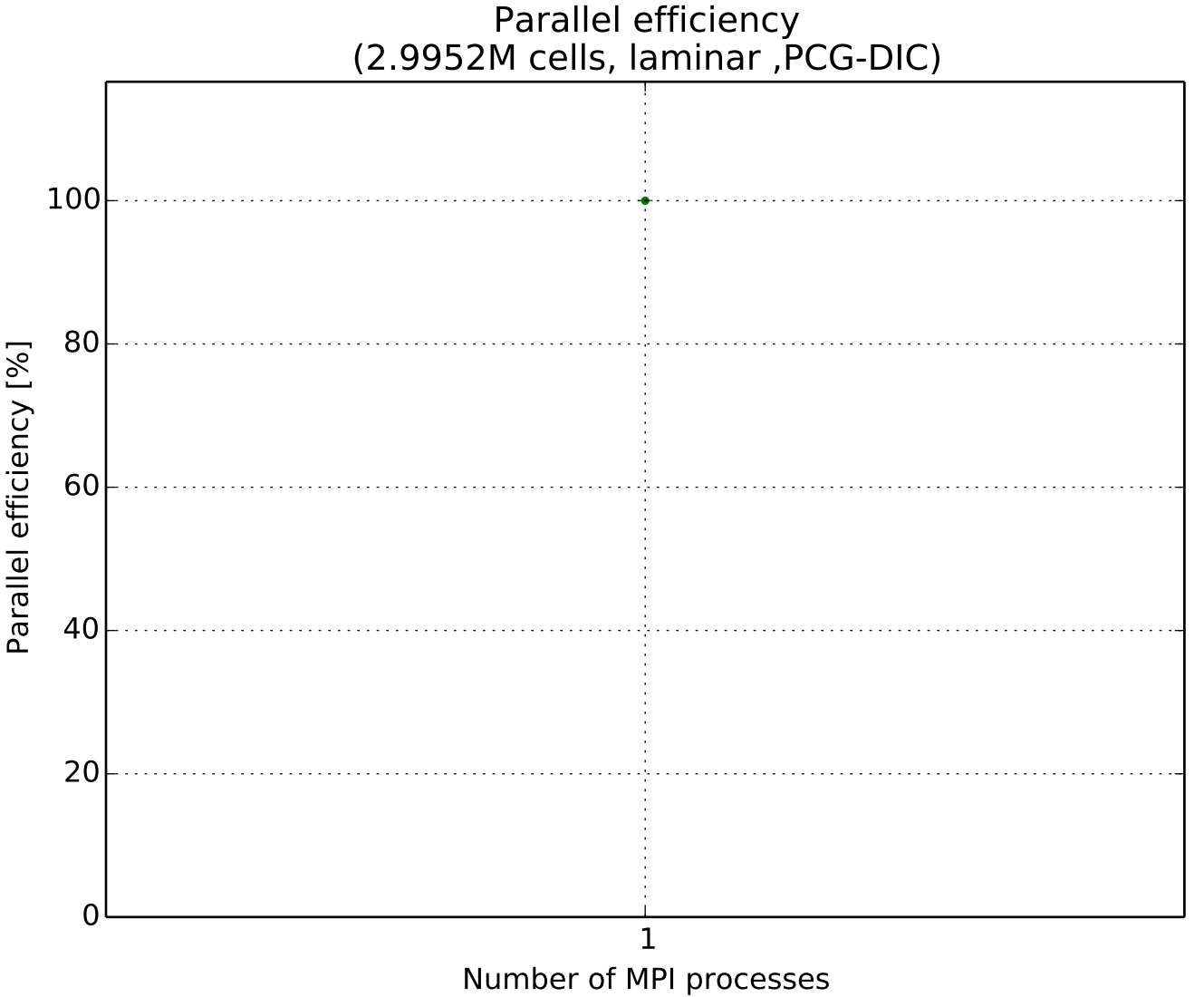

Execution time per time step
(2.9952M cells, laminar ,GAMG-GaussSeidel)
Execution time per time step [s]
0
1
2
3
4
5
6
0
Number of MPI processes
+1

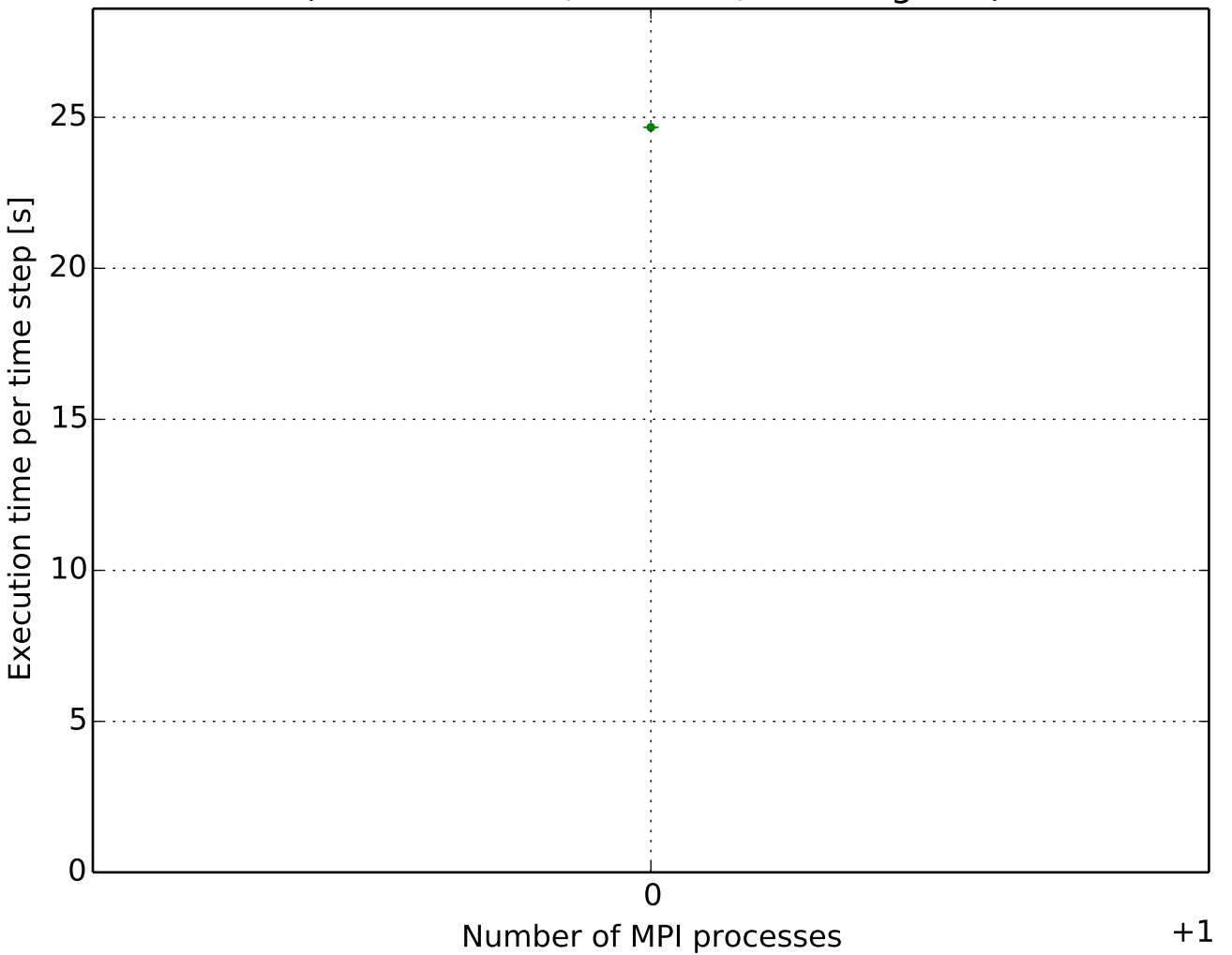

Speedup ratio
(2.9952M cells, laminar ,GAMG-GaussSeidel)
Speedup ratio
Ideal
1.0
0.8
0.6
0.4
0.2
0.0
Speedup ratio [-]
0
Number of MPI processes
+1

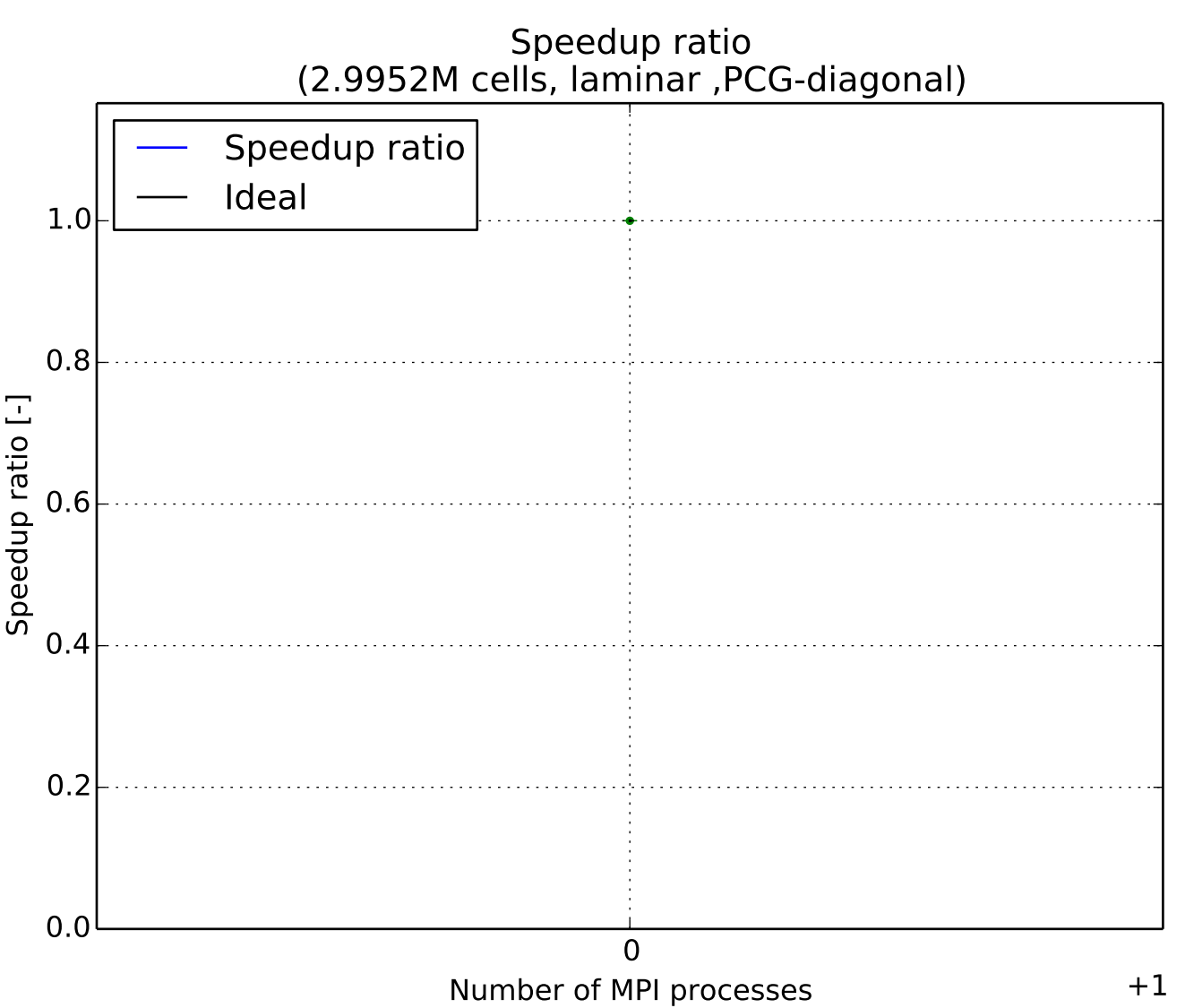

Parallel efficiency
(2.9952M cells, laminar ,GAMG-GaussSeidel)
Parallel efficiency [%]
100
80
60
40
20
0
1
Number of MPI processes

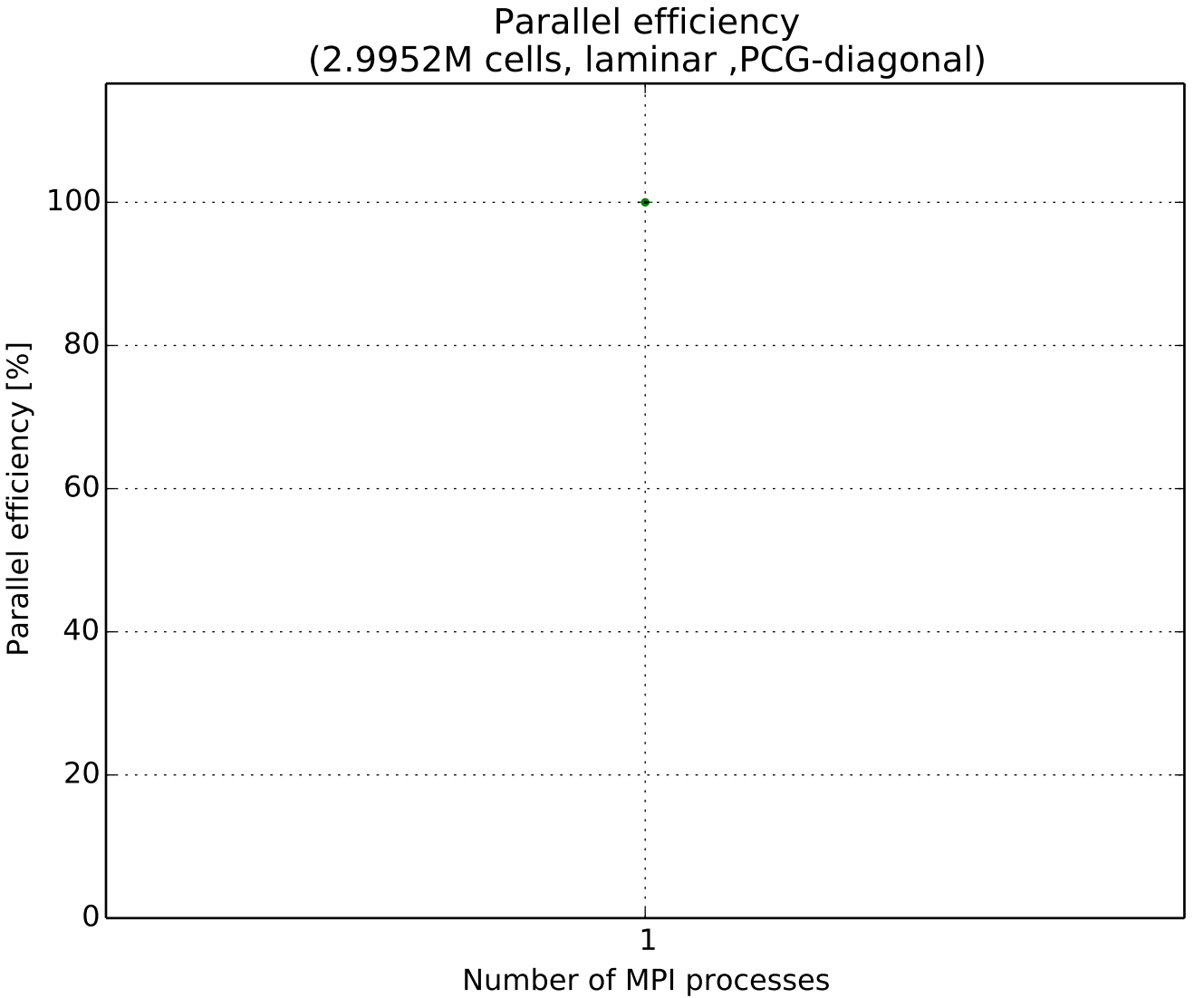

Execution time per time step
(2.9952M cells, laminar ,PCG-DIC)
Execution time per time step [s]
25
20
15
10
5
0
0
Number of MPI processes
+1


Speedup ratio
(2.9952M cells, laminar ,PCG-DIC)
Speedup ratio
Ideal
1.0
0.8
0.6
0.4
0.2
0.0
Speedup ratio [-]
0
Number of MPI processes
+1


Parallel efficiency
(2.9952M cells, laminar ,PCG-DIC)
Parallel efficiency [%]
100
80
60
40
20
0
1
Number of MPI processes


Execution time per time step
(2.9952M cells, laminar ,PCG-diagonal)
Execution time per time step [s]
25
20
15
10
5
0
0
Number of MPI processes
+1


Speedup ratio
(2.9952M cells, laminar ,PCG-diagonal)
Speedup ratio
Ideal
1.0
0.8
0.6
0.4
0.2
0.0
Speedup ratio [-]
0
Number of MPI processes
+1


Parallel efficiency
(2.9952M cells, laminar ,PCG-diagonal)
Parallel efficiency [%]
100
80
60
40
20
0
1
Number of MPI processes