

Estimated runtimes of different solution methods

Solution technique

TT-solve, baseline, $O(\log(n))$	1.20e+31	7.21e+26	2.65e+21	8.84e+13	2.17e+19	6.22e+19	5.05e+23
TT-solve, baseline, $O(1)$	1.02e+26	3.14e+22	9.77e+16	4.81e+10	7.54e+14	9.48e+14	2.40e+19
Gaussian elimination	2.17e+12	<u>5.36e+09</u>	<u>9.34e+09</u>	<u>1.10e+10</u>	<u>1.13e+10</u>	<u>2.16e+11</u>	<u>4.03e+09</u>
Conjugate Gradient	<u>1.02e+09</u>	8.78e+09	5.23e+10	4.24e+10	2.61e+12	2.90e+11	6.84e+09
TT-solve, improved, $O(\log(n))$	6.46e+15	4.43e+13	2.19e+13	4.09e+13	2.78e+13	1.55e+14	2.60e+13
TT-solve, improved, $O(1)$	3.27e+12	1.12e+11	4.99e+10	3.80e+10	5.71e+10	2.22e+11	2.41e+10
	Pres_Poisson	bcsstk13	ex10	ex10hs	ex13	ex15	ex3

Matrix name

Runtime estimate
(FLOPs)

