Github repository with your code (complete URL): https://github.com/dussauttho/hpctools

I reduced the size of the matrices because it was way too long to run.

	Optimization+platform dependent options for compilation and execution times for `my_dgesv`	
	Icc (18.0.1) *(wasn't able to access remotely the supercomputer with my proxy on my student laptop)*	**gcc (8.1.0)**
No opt.	Options: -O0 Exec time (small): Exec time (medium): Exec time (large):	Options: -std=c++11 -O0 Exec time (small): 5.82949 sec Exec time (medium): 3 min 8.722 sec Exec time (large): 25 min 25 sec
Opt level 1	Options: Exec time (small): Exec time (medium): Exec time (large):	Options: -std=c++11 -O1 Exec time (small): 0.922566 sec Exec time (medium): 30.983 sec Exec time (large): 4 min 11.336 sec
Opt level 2 + specific arch	Options: Exec time (small): Exec time (medium): Exec time (large):	Options: -std=c++11 -O2 -march=native Exec time (small): 0.37471 sec Exec time (medium): 14.718 sec Exec time (large): 1 min 54.15 sec
Opt level 3 + specific arch	Options: Exec time (small): Exec time (medium): Exec time (large):	Options: -std=c++1 -O3 -march=native Exec time (small): 0.379226 sec Exec time (medium): 12.9686 sec Exec time (large): 1 min 48.389 sec
Opt level fast + specific arch	Options: Exec time (small): Exec time (medium): Exec time (large):	Options: std=c++1 -Ofast -march=native Exec time (small): 0.374139 sec Exec time (medium): 12.9846 sec Exec time (large): 1 min 50.236 sec
Opt level fast + specific arch + interproc opt/anal [ipo (icc) / -fipa-pta (gcc)]	Options: Exec time (small): Exec time (medium): Exec time (large):	Options: -std=c++1 -Ofast -march=native -fipa-pta Exec time (small): 0.403785 sec Exec time (medium): 14.1246 sec Exec time (large): 1 min 51.211 sec
All previous opts + pgo	Options: Exec time (small): Exec time (medium): Exec time (large):	Options: -std=c++11 -Ofast -fipa-pta -march=native -fipa-pta -fprofile-generate Exec time (small): 0.395749 sec Exec time (medium): 12.8531 sec Exec time (large): 1 min 38.0839 sec

Matrix A size for executions, according to `Makefile`:

- small size: 50 x 50 (execute as ./dgesv 50)
- medium size: 100 x 100 (execute as ./dgesv 100)
- large size: 150 x 150 (execute as ./dgesv 150)

Execute at least 3 times per combination, taking the middle value (median). The relevant time is the execution time for your implementation of `my_dgesv` (i.e. your solver!).

Description and relevant information extracted from the results: