

Comments of the organizers on the record
of problem A, contest of 2011

date: January 3, 2012

time: 690 msec, speed-up: 26.84*

* The system does not accept the solution, but the result is correct in other systems. There are some errors due to rounding. This entry is included in the records table because the solution is totally different from the others.

Matrices A and B are compacted and the structure of the matrices is represented in a different way. This can produce a reduction in the communication cost and also in the access to memory (sequential optimization). The lowest execution time is obtained using the complete system (32 cores) and combining MPI and OpenMP parallelism: 4 processes per node and 2 threads per process.