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## Energy analysis of plasma physics algorithms

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High-performance supercomputers became one of the biggest power consumption machines. The top super-computer's power is about 30mW. Recent legislative trends in the carbon footprint area are affecting high-performance computing. In our work, we collect energy analysis from different kinds of Intel's server CPUs. We present the comparison of energy efficiency of our new Poissons's solver, which is useful for plasma physics and astrophysics computations, for different kinds of CPUs. This work supported by RSCF grant No. 19-71-20026.

### Summary

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