Correction

Correction: cuTauLeaping: A GPU-Powered Tau-Leaping Stochastic Simulator for Massive Parallel Analyses of Biological Systems

The PLOS ONE Staff

The legend within Figure 13 is missing labels. The authors have provided a corrected version here.

Figure 13. Performance comparison of CPU tau-leaping and cuTauLeaping for a PSA of the Ras/cAMP/PKA model. Running times of cuTauLeaping and COPASI CPU tau-leaping to execute a PSA-1D of the Ras/cAMP/PKA model, where the stochastic constant c_3 was varied in the interval $[1.5 \cdot 10^{-3}, 1.5 \cdot 10]$ and a total of 2^{10} simulations were executed. The plot shows how the computational cost of tau-leaping running on CPU rapidly increases; this behavior can become prohibitive if several independent simulations need to be executed. On the contrary, cuTauLeaping shows a very moderate increase in the running times and outperforms the CPU implementation of tau-leaping.
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Reference

1. Nobile MS, Cazzaniga P, Besozzi D, Pescini D, Mauri G (2014) cuTauLeaping: A GPU-Powered Tau-Leaping Stochastic Simulator for Massive Parallel Analyses of Biological Systems. PLoS ONE 9(3): e91963. doi:10.1371/journal.pone.0091963.

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