

***SOGA*: Inference of Probabilistic Programs by Second-order Gaussian Approximation Reproducibility Report**

Francesca Randone¹, Emilio Incerto², Luca Bortolussi¹, and Mirco Tribastone²

¹ University of Trieste, Italy

² IMT School for Advanced Studies Lucca, Italy

Table 5: Evaluation of parallelism on the 5 models of Table ?? with 15 iterations. For each model we report the runtime as the number of processor, shown in the columns, increases.

| <i>Model</i> | 1 | 2 | 4 | 6 | 8 | 10 | 12 | 20 |
|------------------------|--------|--------|--------|--------|--------|--------|--------|----|
| <i>ContinuousRW</i> - | 30.31 | 17.93 | 13.94 | 12.68 | 11.65 | 11.45 | 10.30 | |
| <i>Bernoulli</i> - | 89.15 | 50.14 | 37.35 | 35.56 | 35.63 | 30.90 | 29.81 | |
| <i>ClinicalTrial</i> - | 256.45 | 194.20 | 167.88 | 152.04 | 138.29 | 133.24 | 122.53 | |
| <i>CoinBias</i> - | 73.22 | 41.90 | 28.36 | 25.10 | 24.77 | 25.95 | 23.82 | |
| <i>SurveyUnbias</i> - | 156.73 | 88.29 | 80.75 | 78.47 | 74.85 | 74.82 | 69.53 | |