

[Inicio](#) > NVIDIA GPUs Scalability to Solve Multiple (Batch) Tridiagonal Systems Implementation of cuThomasBatch

---

## [NVIDIA GPUs Scalability to Solve Multiple \(Batch\) Tridiagonal Systems Implementation of cuThomasBatch](#)

**URL:** [https://link.springer.com/chapter/10.1007/978-3-319-78024-5\\_22](https://link.springer.com/chapter/10.1007/978-3-319-78024-5_22)

**Authors:** [Valero-Lara, Pedro](#) / [Martinez-Perez, Ivan](#) / [Sirvent, Raul](#) / [Martorell, Xavier](#) / [Pena, Antonio](#)

**Research Lines:** [Application optimization for GPU acceleration](#)

**Publication:** Lecture Notes in Computer Science

**Place Published:** Springer

**Volume / Pagination:** 10777 / 243-253

**Palabras clave:** [Tridiagonal linear systems](#), [Scalability](#), [Thomas algorithm](#), [PCR](#), [CR](#), [parallel processing](#), [cuSPARSE](#), [CUDA](#)

Barcelona Supercomputing Center - Centro Nacional de Supercomputación

---

**Source URL (retrieved on 29 Sep 2022 - 05:57):** <https://www.bsc.es/es/research-and-development/publications/nvidia-gpus-scalability-solve-multiple-batch-tridiagonal>