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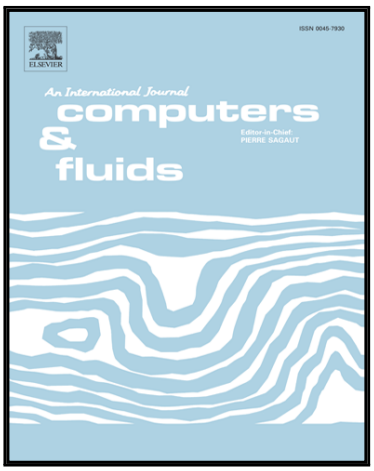

Parallel mesh partitioning based on Space Filling Curves

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Highlights

- A SFC-based parallel mesh partitioner has been presented
- The performance of the parallel partitioner has been analyzed in detail using up to 4096 CPUs
- The algorithm is fully scalable and does not present any memory or computational bottleneck
- The partition is independent to the number of processes used to perform it
- A mesh of 30M elements can be partitioned in 5 cents of second using 4096 CPUs

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