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Extending a serial 3D two-phase CFD code to parallel execution over MPI by using the PETSc library for domain decomposition. (arXiv:1405.3805v1 [physics.comp-ph])

ARXIV COMPUTER SCIENCE

To leverage the last two decades' transition in High-Performance Computing (HPC) towards clusters of compute nodes bound together with fast interconnects, a modern scalable CFD code must be able to efficiently distribute work amongst several nodes using the Message Passing Interface (MPI). MPI can enable very large simulations running on very large clusters, but it is necessary that the bulk of the CFD code be written with MPI in mind, an obstacle to parallelizing an existing serial code.

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