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SIMULATION OF WAVE PROCESSES IN HYDRODYNAMICS WITH HELP THE OPENFOAM PACKAGE

The report provides a brief overview of the OpenFOAM package (http://www.openfoam.com/) and results of study of wave propagation in liquid media. Also, report gives a review of organization of parallel computing in frame of OpenFOAM package and contains the estimation of effectiveness of parallelization for the wave propagation problem in liquid. All computations were performed on a heterogeneous cluster HybriLIT (http://hybrilit.jinr.ru/).

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