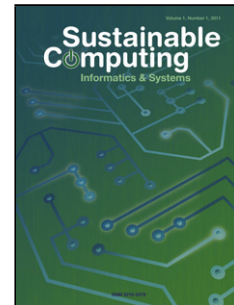


## Accepted Manuscript

Title: A New Proxy Application for Compressible Multiphase Turbulent Flows

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## Highlights

- CMT-nek is a solver of the Navier-Stokes equations for compressible multiphase flows
- CMT-bone is a proxy application that represents computation in CMT-nek
- CMT-bone is validated to be representative of CMT-nek using VERITAS developed at LLNL

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