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A Parallel Adaptive Viscoelastic Flow Solver with Template Based Dynamic Mesh Refinement

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Highlights

- A parallel large-scale adaptive mesh refinement algorithm has been developed.
- Refinement is based on a conformal refinement of quadrilateral/hexahedral elements.
- A second-order conservative interpolation is developed for side-centered data.
- The calculations confirm that high accuracy can be achieved with mesh refinement.

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