## Abstract Submitted for the DFD07 Meeting of The American Physical Society

CFD Computations on Multi-GPU Configurations. SANDEEP MENON, BLAIR PEROT, University of Massachusetts, Amherst — Programmable graphics processors have shown favorable potential for use in practical CFD simulations – often delivering a speed-up factor between 3 to 5 times over conventional CPUs. In recent times, most PCs are supplied with the option of installing multiple GPUs on a single motherboard, thereby providing the option of a parallel GPU configuration in a shared-memory paradigm. We demonstrate our implementation of an unstructured CFD solver using a set up which is configured to run two GPUs in parallel, and discuss its performance details.

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