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## Scientific Discovery through Advanced Computing – the U.S. Department of Energy’s SciDAC Program

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### Abstract

The U.S. Department of Energy’s SciDAC Program has enabled breakthrough scientific advances using High Performance Computing (HPC). The driving philosophy of SciDAC is building strong partnerships that integrate Applied Mathematics and Computer Science expertise with domain science to enable and enhance scientific discovery.

Currently in its second phase of awards, SciDAC supports three types of projects - Science Application Partnerships, Centers for Enabling Technology and SciDAC Institutes. The talk will discuss different SciDAC projects and showcase some key accomplishments and their contribution to science – from climate research to fusion tokomaks, to material science, to accelerator physics and astrophysics.