

Hasan Abbasi

Current

Title: Runtime System for I/O staging in support of voluminous in-situ processing of extreme scale data (RSVP)

Award Number: DE-FOA-0001043

Amount: \$858,000

Location: Oak Ridge National Laboratory

Sponsor: Department of Energy ASCR

P.I.: Scott Klasky

Award Period: 08/01/13 – 09/30/16

Person-Person Months: 1.0

The relevance to the proposed work: The project uses ADIOS to evaluate different runtime engines for I/O optimizations.

Title: ExaCT Center for Exascale Simulation of Combustion in Turbulence Co-Design Center

Amount: \$500,000

Location: Oak Ridge National Laboratory

Sponsor: Department of Energy ASCR

P.I.: Jackie Chen

Award Period: 6/1/2011 – 6/30/2016

Person-Person Months: 5

The relevance to the proposed work: We are evaluating the impact of regeneration vs. multi-tiered storage in an exascale workflow for the study of uncertainties in turbulent combustion.

Title: Performance Understanding and Analysis for Exascale Data Management Workflows

Amount: \$145,000

Location: Oak Ridge National Laboratory

Sponsor: Department of Energy ASCR

Award Period: 09/01/2014 – 08/31/2017

Person-Person Months: 5

The relevance to the proposed work: The project is investigating the set of performance metrics that can provide comprehensive understanding for end to end workflows in exascale systems.

Title: Hobbes: Exaos Research Project

Award No:

Amount: \$450,000

Location: Oak Ridge National Laboratory

Sponsor: Department of Energy ASCR

Award Period: 02/07/2014 - 09/30/2016

Person-Person Months: Years 1-3: No salary support

P.I.: Ron Brightwell

Award Period: 7/1/13 – 6/30/16

Person-Person Months: 4

The relevance to the proposed work: We are studying the OS level mechanisms for creating composed application workflows and developing a suitable API for composition at exascale.

Pending

Title: In-Memory Data Analytics: In-memory, Distributed, Persistent Data Storage for Efficient Execution of In-situ Data Analytics

Location: Oak Ridge National Laboratory

Sponsor: Department of Energy ASCR

PI: Karsten Schwan

Person-Person Months: 4.2

Award Period: 09/01/2015 – 08/31/2018

Title: Science-driven Data Management for multi-tiered Storage

Location: Oak Ridge National Laboratory

Sponsor: Department of Energy ASCR

PI: Scott Klasky

Person-Person Months: 4.2

Award Period: 09/01/2015 – 08/31/2018

Title: CLUES: A Composable, Workload-driven, Extension and Usable Simulation Engine

Location: Oak Ridge National Laboratory

Sponsor: Department of Energy ASCR

PI: Feiyi Wang

Person-Person Months: 3

Award Period: 09/01/2015 – 08/31/2018