

Annual Report: IMT006 - IMT Training and User-Focused Workshops

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Statement of the Problem: The project objectives are to identify key opportunities and practitioners, develop individualized training, identify exemplar applications, and establish project approaches tailored to individual DoD groups in order to improve the effectiveness of high performance computing utilization in the Test and Evaluation communities

Method of solution: Our plan is to develop and deliver a user-centric training and problem development program by: 1) forming an advisory group of DoD T&E leaders to advise on content and develop linkages and priorities with DoD key facilities and programs, 2) conducting user needs surveys, 3) developing training modules tailored to identified groups, and 4) conducting workshops with identified groups to help screen potential new HPC applications and developing execution plans for their selected applications.

Accomplishments: At mid-year in this project we have established key relationships with two Range Commanders Council (RCC) subgroups, Modeling and Simulation and Data Analysis and Computer Architecture. The RCC is composed of commanders of DoD operational test ranges, e.g., China Lake, Edwards, APG, etc, and the subgroups are composed of technical personnel executing or supporting testing programs. These RCC groups provide the IMT program with clear, operationally based recommendations for training requirements and needed technology innovations.

On the basis of recommendations from the RCC groups, user surveys such as the HPCMO Annual Survey, and one-on-one user discussions, draft training materials for courses in data mining and statistical methodologies for test data interpretation have been prepared. Additionally a training course in real-time network protocols was recommended and will be developed, see below.

Plans: In the remaining contract period, we plan to the finalize data mining and statistical analysis training materials, develop the real-time network protocol course materials, and deliver the training courses. Currently two locations, AEDC and WSMR, are being considered for training course sites. Once training materials have been developed, they will be linked to the OKC web portal.

DoD Impact: The data mining and statistical analysis training will improve DoD's ability to plan testing, organize and prepare data analysis and reporting, and fuse new testing information with older tests and simulations; and the real-time network protocol training will improve DoD's ability to perform system tests by linking multiple test ranges and simulations into a logical test facility.