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1. DOE 2012-1: To Be Released on 8/2/2011

   Release Date: 07-29-2011Open Date: 08-01-2011Due Date: 09-19-2011Close Date: 09-19-2011

   DOE 2012-1 ...

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2. 01: Advanced Network Technologies and Services

   Release Date: 07-29-2011Open Date: 08-02-2011Due Date: 09-17-2011Close Date: 09-17-2011

   The Internet is a collection of independently owned and operated networks interconnected in a complex mesh to meet the needs of today's digital society. These networks range from broadband networks supporting consumer activities (i.e., entertainment, business, and SOHO work activities) to multi-Gigibit/sec Research and Education Networks (RENs) supporting largescale science experiments at major ...

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3. a: Extensions to perfSONAR

   Release Date: 07-29-2011Open Date: 08-02-2011Due Date: 09-17-2011Close Date: 09-17-2011

   perfSONAR is a framework for developing multi-domain measurement and monitoring services. This framework separates the collection of data from the use of this data. It also provides access control mechanisms and services that allow network providers to control how collected data is shared with peers and other potential data consumers. The ability to separate data collection from data consumption p ...

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4. b: Management Tools for Network Operators

   Release Date: 07-29-2011Open Date: 08-02-2011Due Date: 09-17-2011Close Date: 09-17-2011

   network infrastructure must be actively managed to ensure that the infrastructure itself does not become a major performance bottleneck. This management requires an understanding of how traffic is currently flowing, making predictions about how traffic flows will change in the future, and, increasingly, how much energy this infrastructure is using. Network operations staff need tools and services ...

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5. c: Optical Network Support Services

   Release Date: 07-29-2011Open Date: 08-02-2011Due Date: 09-17-2011Close Date: 09-17-2011

   Optical networks have revolutionized wide area network infrastructure deployments

providing ever increasing amounts of bandwidth at ever decreasing costs. As costs dropped, optical network components moved out of the wide area and into the metro area and now the home distribution environment. This expansion requires a shift away from small numbers of very expensive optical test gear to a world wit ...

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6. d: Other

Release Date: 07-29-2011Open Date: 08-02-2011Due Date: 09-17-2011Close Date: 09-17-2011

In addition to the specific subtopics listed above, the Department invites grantapplications in other areas that fall within the scope of the topic description above.Questions – contact Richard Carlson, richard.carlson@science.doe.gov

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7. 02: Increasing Adoption of HPC Modeling and Simulation in the Advanced Manufacturing and Engineering Industries

Release Date: 07-29-2011Open Date: 08-02-2011Due Date: 09-17-2011Close Date: 09-17-2011

Over the past 30 years, The Department of Energy's (DOE) supercomputing program has played an increasingly important role in scientific research by allowing scientists to create more accurate models of complex processes, simulate problems once thought to be impossible, and analyze the increasing amount of data generated by experiments. Computational Science has become the third pillar of science ...

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8. a: Turnkey HPC Solutions for Manufacturing and Engineering

Release Date: 07-29-2011Open Date: 08-02-2011Due Date: 09-17-2011Close Date: 09-17-2011

HPC modeling and simulation applications are utilized by many industries in their product development cycle, but hurdles remain for wider adoption especially for small and medium sized manufacturing and engineering firms. Some of the hurdles are: overly complex applications, lack of hardware resources, inability to run proof of concept simulations on desktop workstations, solutions that have well ...

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9. b: HPC Support Tools and Services

Release Date: 07-29-2011Open Date: 08-02-2011Due Date: 09-17-2011Close Date: 09-17-2011

Many tools and services have been developed over the years to support the HPC user and development community. These tools (debuggers, profilers,workflow engines, low-level

libraries, etc), although very powerful, take a good deal of time and effort to learn and use. For a company to utilize HPC in the development of their product or service they need to invest a substantial amount in learning thes ...

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10. c: Hardening of an R&D Code for Industry Use

Release Date: 07-29-2011Open Date: 08-02-2011Due Date: 09-17-2011Close Date: 09-17-2011

The Office of Science (SC) Office of Advanced Scientific Computing (ASCR) has invested millions of dollars in the development of HPC software in the areas of modeling and simulation, solvers, and tools. Many of these tools are open source, but are complex “expert” level tools. The expertise required to install, utilize and run these assets poses a significant barrier to many organizations due ...

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