

G DATA COMPUTING


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IT SOLUTIONS


## EMC Corporation

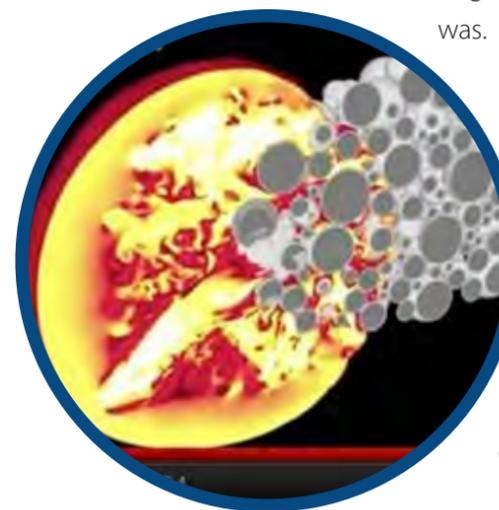
***“Our partnership with LANL has brought us all into an exciting new era where we get a once in a career opportunity to redesign the entire storage architecture using cutting edge innovations in both hardware and software.”***

*Percy Tzelnic, Senior Vice President and Fellow, EMC*

EMC is a global leader in enabling businesses and service providers to transform their operations and deliver information through cloud computing. By creating innovative products and services, EMC is accelerating the journey to cloud computing by helping their customers store, manage, protect and analyze their information, in a more agile, trusted and cost-efficient way.

Together, Los Alamos National Laboratory (LANL) and EMC, are enhancing, designing, building, testing and deploying new cutting-edge technologies in an effort to meet some of the nation’s most difficult information technology challenges. Thus far, the LANL and EMC collaboration has been engaged in high-performance computing and data storage research, as well as large-scale analytics.

One of EMC’s innovative products is a flash appliance, called the Active Burst Buffer Appliance, or aBBa, which helps extreme scale high-performance computing set-ups run faster and smoother. It acts like a very fast book mark: when one of the millions of parts that make up a supercomputer fails; the tightly coupled application can quickly get back to where it was.



A key software development in the operation of aBBa and other computing platforms is Parallel Log-structured File System (PLFS). PLFS, designed and developed at LANL, is an open-source, extremely scalable data-management middleware library that can be used with everything from small clusters of computers to the largest supercomputers in the world. This technology is file-system agnostic and could improve computing efficiency significantly.