LLSC Innovations

BigDAWG Polystore

D4M

julia

GRAPHULO

bigdawg.mit.edu

BigDAWG is a reference implementation of a polystore database. A polystore system is any database management system (DBMS) that is built on top of multiple, heterogeneous, integrated storage engines.

d4m.mit.edu

D4M is a breakthrough in computer programming that combines the advantages of five distinct processing technologies (sparse linear algebra, associative arrays, fuzzy algebra, distributed arrays, and triple-store/NoSQL databases such as Hadoop HBase and Apache Accumulo)

julialang.org

The Julia programming language is a flexible dynamic language, appropriate for scientific and numerical computing, with performance comparable to traditional statically-typed languages.

graphulo.mit.edu

Graphulo is a new project with the goal of implementing the GraphBLAS building blocks for graph algorithms on top of Accumulo.

MIT LINCOLN LABORATORY
SUPERCOMPUTING CENTER

Lincoln Laboratory Supercomputing Center

The Lincoln Laboratory Supercomputing Center (LLSC) merges traditional HPC and Big Data technologies in an interactive on-demand parallel computing environment. By augmenting the processing power of desktop systems with high performance computational clusters, the LLSC enables researchers to develop and enhance algorithms for sensor data processing, high-fidelity simulations, and data science.

All questions should be emailed to the LLSC team at llsc-info@ll.mit.edu

www.ll.mit.edu/LLSC

DISTRIBUTION STATEMENT A. Approved for public release. Distribution is unlimited. This material is based upon work supported under Air Force Contract No. FA8721-05-C-0002 and/or FA8702-15-D-0001. Any opinions, findings, conclusions or recommendations expressed in this material are those of the author(s) and do not necessarily reflect the views of the U.S. Air Force.