Welcome to Hama project

Table of contents

1. Introduction

Hama (means a hippopotamus in Korean) is a parallel matrix computation package currently in incubation with Apache. It is a library of matrix operations for large-scale processing and development environments as well as a Map/Reduce framework for a large-scale numerical analysis and data mining, that need the intensive computation power of matrix inversion, e.g., linear regression, PCA, SVM and etc. It will be useful for many scientific applications, e.g., physics computations, linear algebra, computational fluid dynamics, statistics, graphic rendering and many more.

- Scientific simulation and modeling
  - Matrix-vector/matrix-matrix multiply
  - Soving linear systems
  - Scientific graphs

- Information retrieval
  - Sorting
  - Finding eigenvalues and eigenvectors

- Computer graphics and computational geometry
  - Matrix multiply
  - Computing matrix determinate

2. Getting Started

- Getting Started with Hama

3. Recent News

- 20 May 2008 - Hama accepted to Apache Incubator Project.
  The Incubator PMC have voted to accept Hama to be a apache incubator project.
- 23 June 2008 - A meeting with Professor Choi J., a member of ScaLAPACK team.
- 18 August 2008 - Source code is now available in the Apache SVN repository.