

# MAHA File System

## Technology Overview

- MAHA-FS is an *scale-out* file system SW for high-performance computing on commodity hardware. It can scale to tens of thousands of storage nodes and support peta bytes of storage space. It can provide highly available and reliable file service running on commodity hardware. Performance and capacity scales linearly by adding storage nodes.

## Core Technologies

- Cost effectiveness running on any low-cost commodity hardware
- Space & Throughput scalability by simply adding data servers on-line
- Non-stop storage service by replicating data over multiple data servers
- POSIX compliant API with session-based cache consistency control

## Application Area and Advantages

- Petabytes of storage for Cloud computing and Big data analysis
- Storage consuming legacy applications such as Web 2.0, media streaming
- High throughput I/O applications such as Genome Analysis

## Accomplishments

- More than 50 petabytes of production use within South Korea
- More than 10 technology transfer within South Korea
- Preferred partnership (technology transfer, technology licensing)

