

# Welcome!..

The International Workshop on  
DATA-AWARE DISTRIBUTED COMPUTING  
DADC 2008

JUNE 24, 2008  
BOSTON, MASSACHUSETTS

Tevfik Kosar  
DADC'08 Workshop Chair

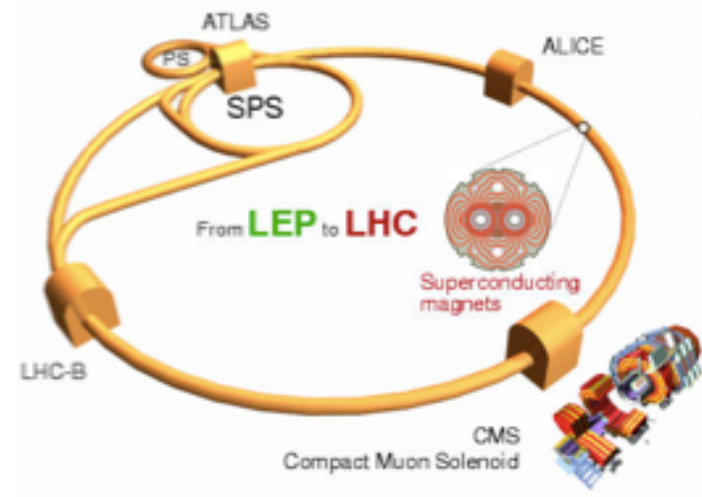
# The Data Deluge

Demand for data in all areas of science!

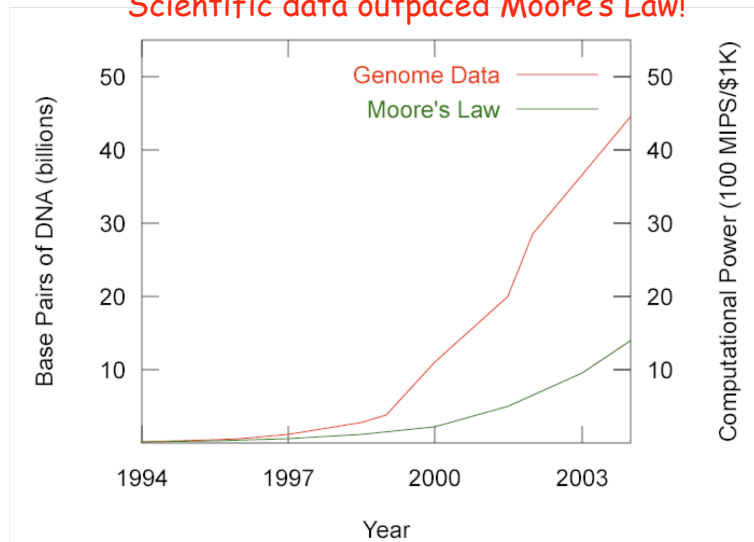
Application	Area	Data Volume
VISTA	Astronomy	100 TB/year
LIGO	Astrophysics	250 TB/year
WCER EVP	Educational Technology	500 TB/year
LSST	Astronomy	1000 TB/year
BLAST	Bioinformatics	1000 TB/year
ATLAS/CMS	High Energy Physics	5000 TB/year

Computational Power (100 MIPS/\$1K)

The Large Hadron Collider (LHC)



Scientific data outpaced Moore's Law!



Need to Change in Computing Paradigm?

# New Paradigms

## Data-aware Distributed Computing

- ★ Data-aware scheduling
- ★ Data-aware storage
- ★ Data-aware workflow management
- ★ Data-aware resource allocation
- ★ .. and other solutions tailored for data-intensive applications

# Today @DADC

- ★ 1 Keynote Address (9:10am)
  - Malcolm Atkinson: Data Streaming Patterns for Distributed Data Exploration
- ★ 1 Invited Talk (10:10am)
  - Jacek Becla: Extremely Large Databases for Data Intensive Computing
- ★ 7 Contributed Talks (10:45am - 3:45pm)
- ★ 1 Panel Discussion (4:00 pm)
  - Challenges and New Trends in Data Intensive Science, Ian Foster, Geoffrey Fox, Reagan Moore, Dan Reed

# Program Committee:

Micah Beck, *University of Tennessee*  
John Bent, *Los Alamos National Laboratory*  
Ann Chervenak, *USC Information Sciences Institute*  
Adriana Iamnitchi, *University of South Florida*  
Shantenu Jha, *Louisiana State University*  
William Johnston, *Lawrence Berkeley National Laboratory*  
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Peter Kunszt, *Swiss National Computing Center*  
Erwin Laure, *CERN*  
Jason Leigh, *University of Illinois-Chicago*  
Andre Merzky, *Louisiana State University*  
Reagan Moore, *San Diego Supercomputing Center*  
Jarek Nabrzyski, *Louisiana State University*  
Don Petravick, *Fermi National Accelerator Laboratory*  
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Sudharshan Vazhkudai, *Oak Ridge National Laboratory*  
Andrew Wendelborn, *University of Adelai*