













Types of Systems

Local Resources

- Special Use Systems
 - SMP Symmetric Multiprocessor (fat node)
 - GPGPU (General Purpose Graphics Processing Unit)
- Typical HPC cluster
 - Commodity computers
 - High speed backbone
 - High speed network storage

National and Commercial

- Advanced HPC
 - Specialty hardware
 - High speed backbone
 - High speed storage
- Grid
 - Many HPC systems linked together by high speed network
- Cloud
 - Lots of definitions
 - Typically refers to computing as a service using highly flexible virtual machines



MICHIGAN STATE

1957 MISTIC Mainframe

- MSU's first mainframe
- Hand built by grad students
 - Dick Reid
 - Glen Keeney



MICHIGAN STATE

























































































