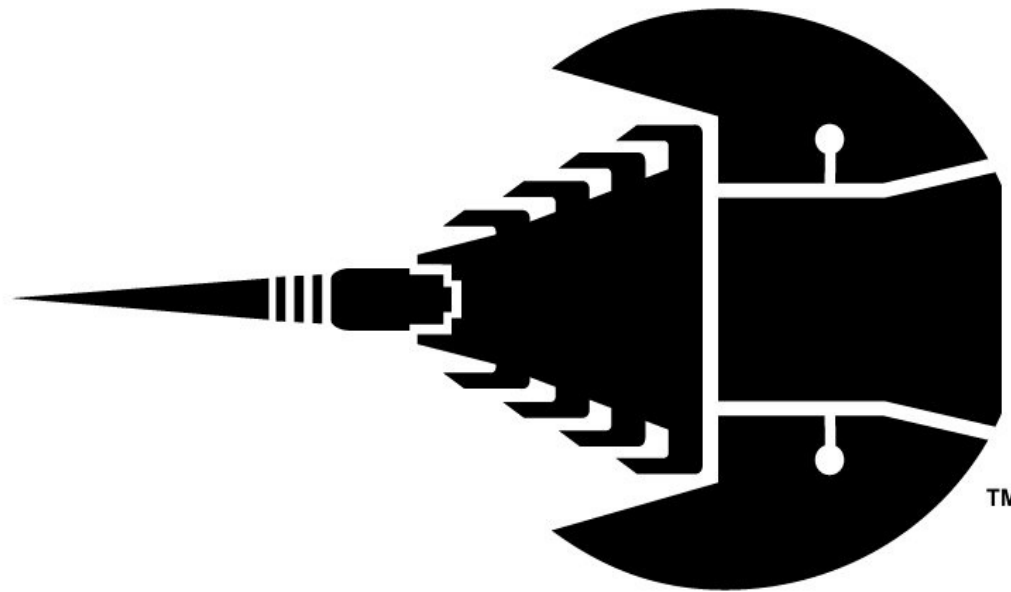


L I M U L U S



P R O J E C T

What Is a Limulus ?

Linux

MULticore

Unified

Supercomputer

Rationale

Low Cost (Commodity Parts Where Possible)

Power Efficient (Turns Off Unused Nodes)

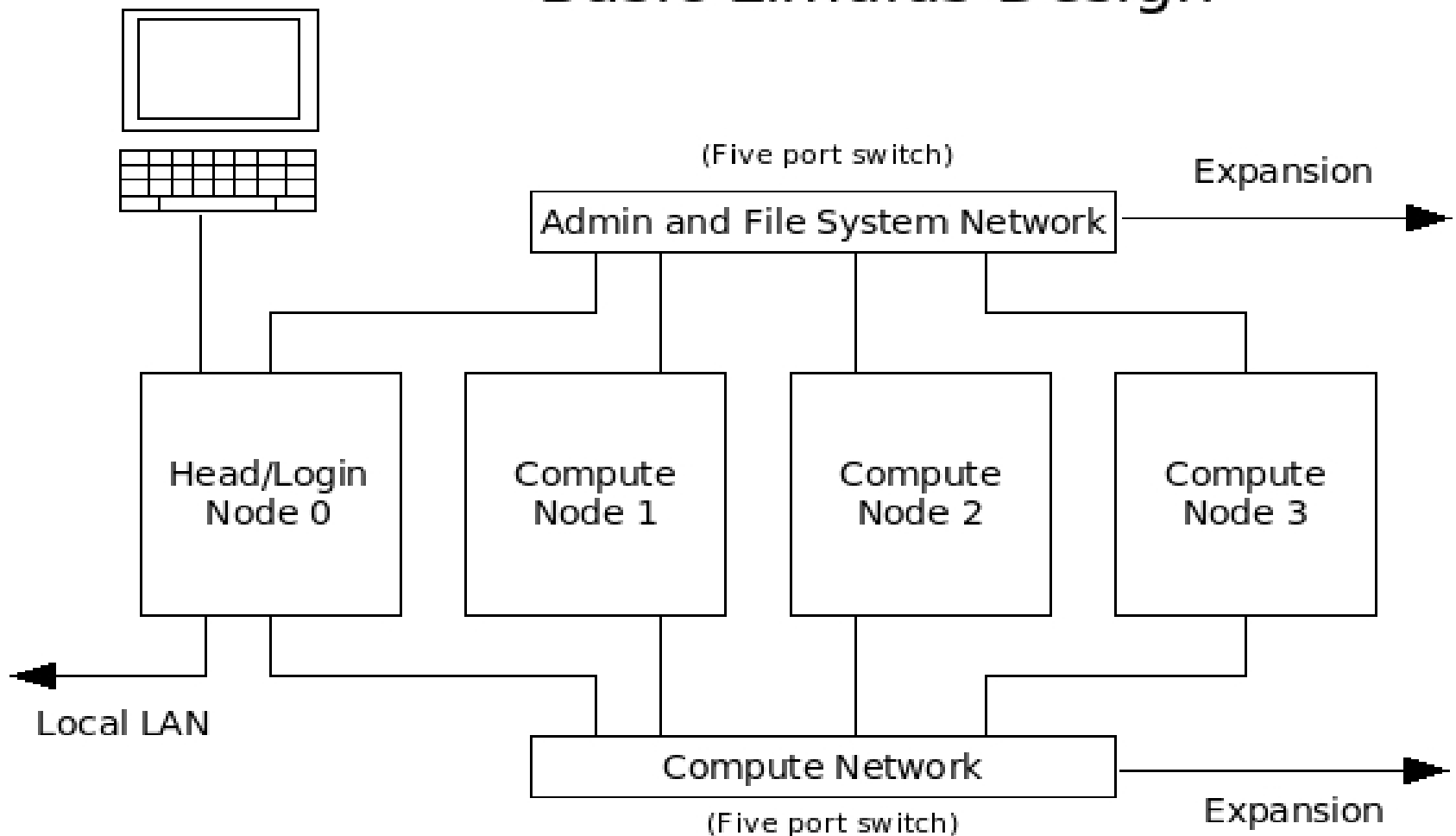
Quiet and Cool (no loud fans, use next to desk)

Personal Cores Next To

Your Desk (you know you want it)

Design

Basic Limulus Design



Hardware Design Details

- ◆ Four MicroATX Motherboards (Single P)
- ◆ Diskless Nodes (three plus head node)
- ◆ Dual Gigabit Ethernet (IB Possible)
- ◆ Single Power Supply (850Watt)
- ◆ Slave Boards Use 12V Rails
- ◆ USB Relay Controls Power To Nodes
- ◆ RAID Enclosure
- ◆ Standard Case (custom sheet metal)
- ◆ All Nodes Have Video, USB, Power Switch/Light

Power/Performance

Low Power Processors

(65-95 Watts)

Allow for Desk-side Use

(shared receptacle)

Nodes Power When Needed

(on-demand through scheduler)

High efficiency PS

Is It A Cluster?

A Linux HPC Workstation !

Software Development

Education

Cluster Sandbox

Small Production Jobs

Personal HPC

More Information

<http://limulus.basement-supercomputing.com>

BASEMENT 
SUPERCOMPUTING TM

Limulus

Speed, Reliability, Cost

Pick Any Three