PROMETHEUS

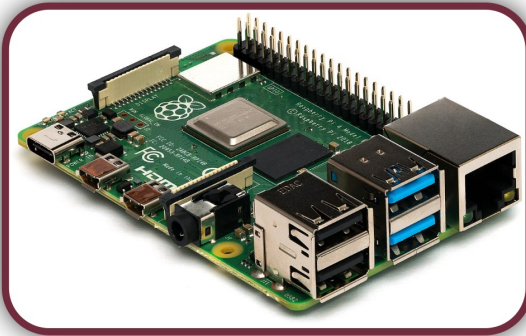Cluster developed by Mississippi State University's SIGHPC

Why cluster computing?

- Increased operational efficiency through parallel processing
- Accelerates complex simulations and data analysis tasks
- Easy scalability; can be scaled up or down based on computational demands and resources

The MSU SIGHPC club brings cluster computing directly to students with systems like Prometheus!

Specifications

8 compute nodes

4 storage nodes

3 login nodes

1 head node

- 32 main compute cores; can be extended up to 40 cores
- 32GB RAM across compute nodes, 8GB RAM across storage nodes
- Approximately 600GB GlusterFS storage for scratch; about 100GB storage for apps and home
- Running Raspberry Pi OS (Debian 11)

Assembly