SLURM - Simple Linux Utility for Resource Management

Introduction

Slurm is an open source, fault-tolerant, and highly scalable cluster management and job scheduling system for large and small Linux clusters.

It provides three key functions:

- allocating exclusive and/or non-exclusive access to resources (computer nodes) to users for some duration of time so they can perform work,
- providing a framework for starting, executing, and monitoring work (typically a parallel job such as MPI) on a set of allocated nodes, and
- arbitrating contention for resources by managing a queue of pending jobs.

https://slurm.schedmd.com/overview.html

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