

Inter University Centre for Astronomy and Astrophysics  
I – Batch queuing policy for Pegasus Cluster

## Purpose

The purpose of a queuing system is to make an efficient use of the available resources. PBS (Portable batch scheduler) is the batch queuing system made available in Pegasus Cluster. A queue will be assigned to each cluster user at the time of account creation. The queue will define the resources which user can use in order to reduce unnecessary blocking of the resources. This document describes the scope and the queuing policy implemented at IUCAA.

## Scope

- This policy is applicable for the Pegasus cluster.

## Policy

- Categories of a user, are defined as follows:
  - User: If no group is assigned the user will be a part of this category.
  - Beginner: All newly trained users will be a part of this category.
  - Intermediate: All Intermediate users will be a part of this category.
  - Expert: All expert users will be a part of this category.
- Users from the Beginner category can use a maximum of 256 cores.
- Users from the Intermediate category can use a maximum of 960 cores.
- Users from the Expert category can use a maximum of 2048 cores.
- Default walltime: 1 Hour - If no walltime is provided in job submission script, then PBS sets a default walltime of 1 hour.
- Default Maximum walltime: 48 Hours - Users will not be able to submit any jobs with the walltime more than 48 hours.
- Maximum running and queued jobs based on the user groups,

Group Name	Maximum No. of running jobs	Maximum No. of queued jobs
Beginner	8	8
Intermediate	12	12
Expert	16	16