Module Outline

Intermediate HPC

Joachim Mai | 5 February 2013| 1.2

Introduction

This document is the outline for the *HPC* module. This module is the material for the "*Intermediate HPC*" course and forms part of the "*Introduction to Unix for HPC*" course.

Summary

This module is targeted at participants who want to learn how to:

- Manage jobs the HPC machine using *PBSPro*

- Understand the architecture of the HPC machine, the layout of the disk partitions, and when to use the machine

This module assumes knowledge of

- Basic Linux

By the end of this module, participants will be able to:

- Write job scripts

- Submit, delete jobs

- Understand some *PBSPro* environment variables

- Use the different disk partitions on the HPC machine

- Understand machine limits

External Resources

In this module, you will make use of some external materials. These materials were not created by Intersect, but are either standard tools used in the area of this module or are particularly useful for teaching purposes.

For this module, the following resources are used:

Further Reading

The following resources will help consolidate or extend the information presented in this module.

For this module, the following resources are used

Name	Location	Description
Introduction to HPC	http://www.intersect.org.au/introduction-hpc	This is Intersect's introduction to HPC. It contains many references to, for example, installed software and registration procedures.

Units Outline

Name	Concepts Introduced	Learning Outcomes
HPC	Please see above.	The outcomes for this unit are the outcomes for this module. Please see above.

Revision History

Version No.	Revision Date	Summary of Changes	Revised by
1.0	23/5/2011	Initial version	Joachim Mai
1.1	05/02/2013	Updated for new HPC machine	Luc Small
1.2	06/08/2013	Updated course title	