Robert T. McLay

Title: Lmod Hands-on Tutorial

Required Equipment: A Laptop

Required Software: VirtualBox 4+ or 5+

Time: 90 minutes

Targeted Audience:

Beginner/Intermediate

Abstract:

Lmod is the software that ``sets the table'' for our users by allowing them to load the software packages they need to conduct their research. Lmod, a replacement for the TCL/C based environment module system, is part of the ``secret sauce'' that allows our users to do so in a way that protects them from many common mistakes. With Lmod, users cannot load mismatched combinations of compilers, libraries, and software tools.

This tutorial will break-down into three parts. The first part will be a brief introduction into Lmod, followed by a discussion of the new features added to Lmod. The second part will be a general question and answer session.

There has been an Lmod TACC Booth talk for the past four years and the audience has ranged from people who have never used Lmod to seasoned users who want to know about the latest feature. Given this wildly diverse audience, the hands-on third part will be a “chose your own adventure” from a list of topics to appeal to beginner to intermediate users.

Schedule:

20 minutes Introduction to Lmod

Hand-out Virtual Machines on USB Thumb drives.

10 minutes General Question and Answer.

10 minutes Describe the Tutorial Topics

50 minutes HANDS-ON: Chose your topic