Advanced UNIX

Scripting, data exploration, text parsing

Advanced Unix Materials

Log onto the server using isu username and password:

ssh <isu username>@bcbio.gdcb.iastate.edu

Fetch workshop materials from github:

git clone https://github.com/j23414/adv-unix-workshop.git

What you will learn

❖ A versatile toolset for data parsing

❖ How to chain multiple tools into pipelines

❖ How to "save" procedures in shellscripts

Outline

1. Bash shell scripting

2. Exploring data with **grep**, **sort**, **uniq** and **wc**

3. **sed** - search/replace and line deletion

4. **awk** - advanced data processing language

What you should know

- Basic shell navigation - cd, ls, pwd
- Making file and directories - touch, mkdir
- Moving files - mv, cp
- Basic file handling - head, tail, cat, less
- Some experience in shell-compatible editor

Workshop Information

You can download the slides, exercises and sample data for this workshop from:

https://github.com/j23414/adv-unix-workshop.git

Extra: find all commands

```
echo $PATH          # print the path variable
cd <path here>      # navigate to the folder(s)
ls *                # list all commands
man <command>       # show manual

which <command>     # location of executable
```