

Departmental Computing

Warning-1:

very boring talk...

Warning-2:

...one day it will save your life!

Peter Teuben - 5-sep-2017



Questions?

Computing Wiki

<https://www.astro.umd.edu/twiki/bin/view/AstroUMD>

Google / StackOverflow

Personal Computing

- Linux
- Mac (MINAU = Mac Is Not Always Unix)
 - Astrobetter
<http://www.astrobetter.com/wiki/Setup+a+New+Mac+for+Astronomy>
- Windows (Cygwin, Ubuntu/bash)
 - Putty, VNC, VPN, ...
- Tablet (Android/IOS), ChromeBook
 - Skype, WebEx, Terminal/ssh, VNC, ...

Department Computing

- Linux Cluster (“astro.umd.edu”)
 - General (**earth**, **gaia**, algol, phoenix, mars, ...)
 - URSA (lab001 – lab013)
 - (some students will have separate accounts only here)
 - BORG/Yorp: special compute cluster
 - VizLab (vislab1, vislab2) CMD: **grep vis /etc/hosts**
 - Email (USER@astro.umd.edu)
- Campus facilities
 - Deepthought2 (a very large linux compute cluster)
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 - Campus Wireless (eduroam, umd-secure)
 - Email (**USER@umd.edu**) and software services

“astro.umd.edu”

- Scientific Linux (sl67)
 - Command: more /etc/issue
 - Desktop: ???
- Red Hat (rh73)
 - Command: more /etc/redhat-release
 - Desktop: gnome 3 (is there an extensions issue?)

My Personal Checklist

- Compilers: C/C++/Fortran (gcc, gfortran)
- Tools: grep, awk, bash/tcsh, **cvs/svn/git**
 - **AstroUMD Git:** <https://github.com/astroumd>
- Scripting: python, R, (csh/sh shell)
- Latex, LibreOffice
- Make / autoconf / cmake
 - ASCL: find any codes used in astronomy, e.g. MIRIAD via <http://ascl.net/miriad>
 - Example of installing python 3.6.2
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- RSS reader (feedly)
- **VNC** / VPN

EXAMPLE OF INSTALLING PYTHON

```
wget https://www.python.org/ftp/python/3.6.2/Python-3.6.2.tgz
tar xzf Python-3.6.2.tgz
cd Python-3.6.2
./configure --prefix=/tmp
make
make install
```

```
# csh example
set path = (/tmp/bin $path); rehash
# bash example
PATH = /tmp/bin:$PATH
```

Your Environment

- Desktop:
 - Focus follows mouse (sloppy) (tap to click)
 - Timeout on screenlock > 1 hr
 - **Reverse** Scrolling (as opposed to **Natural**)
- Shell:
 - C-shell (tcsh)
 - .cshrc / .login file
 - BASH
 - .bashrc (interactive) vs. .bash_login (login) shell
 - Anaconda
- Editors: emacs (you may also like: vi, gedit, pico,)
- My personal unix bootstrap environment: <https://github.com/teuben/teunix>
 - (sep 2017: this is being updated regularly now)