Applied Math, Life, Germany

Ali Darijani

Contents

Introduction

Explain the reasons that motivated you to start writing a book:-)

Unix, Linux, POSIX, and Beyond

Nowadays an applied mathematicians must utilize a computer in order to handle their workflow. Computers must have an operating system(OS) and that is set in the stone. As to what OS is optimal, there are no clear answers obviously. Every OS has its pros and cons. I adopted the Unix-like(Unix, Linux, POSIX) OSs for now as I meticulously observed my mentors during my college years and still continue to do so. This chapter tries to help you determine whether you would benefit from those OSs too and if yes formulate a guideline for its learning process.

Abbreviations and Acronyms

- ASCII: American Standard Code for Information Interchange
- GNU: GNU's Not Unix
- pip: Pip Installs Packages

References(Websites)

Unix, Linux, POSIX, and Beyond

- https://www.lpi.org/
- https://learning.lpi.org/en/learning-materials/learning-materials/
- https://wiki.archlinux.org/
- https://git-scm.com/
- https://about.gitlab.com/
- https://github.com/
- https://www.linuxfromscratch.org/
- https://distrowatch.com/

My Horsemen of the Apocalypse

- Hardware: Apple
- An Online Linux Terminal Emulator: JSLinux
- Hypervisor: VirtualBox, UTM
- OS: Darwin
- Package Manager: brew
- Terminal Emulator: kitty or Alacritty
- Interactive Shell: zsh Scripting Shell: bash
- Zsh Configuration Framework: ohmyzsh
- Terminal Text Editor: vim GUI Text Editor: Visual Studio Code
- Terminal Multiplexer: tmux
- Modern Linux Tools: Modern Linux

References(Books)

Unix, Linux, POSIX, and Beyond

- LPI Linux Essentials pdf
- LPI Web Development Essentials pdf
- LPI LPIC-1 Exam 101 pdf
- LPI LPIC-1 Exam 101 pdf
- The LPIC2 Exam Prep pdf
- Practical LPIC-3 300 Link
- Pro GIT pdf

Calculus

- Calculus With Applications by Peter D. Lax , Maria Shea Terrell Link
- Multivariable Calculus with Applications by Peter D. Lax , Maria Shea Terrell Link