UNIX Operation System

Christian Kniep

Internation Center of Applied Technologies Bandung

8. Oktober 2010

Table of content
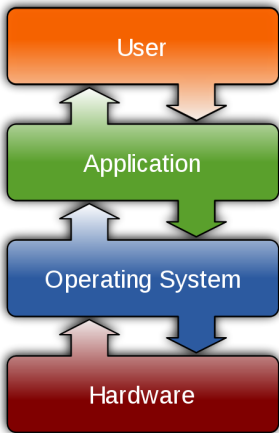
What is an OS?

- Its the interpreter you need to use a computer!

What is an OS?

- Its the interpreter you need to use a computer!
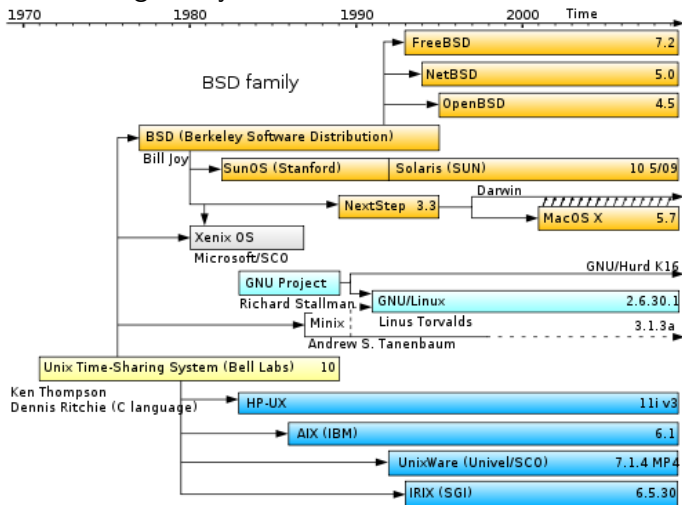
UNIX

- Unix is a big family

UNIX

- Unix is a big family

First Linux

- In 1991 Linux Torvalds starts writing an Terminal-Emulation for his own pleasure

First Linux

- In 1991 Linux Torvalds starts writing an Terminal-Emulation for his own pleasure

First Linux

- In 1991 Linux Torvalds starts writing an Terminal-Emulation for his own pleasure

- **Fun-Fact:** Linus wants it to be called: 'Freax' or 'Buggix'. The FTP-Admin Ari Lemmke named the folder 'Linux'

First Linux

- In 1991 Linux Torvalds starts writing an Terminal-Emulation for his own pleasure

- **Fun-Fact:** Linus wants it to be called: 'Freax' or 'Buggix'.
  The FTP-Admin Ari Lemmke named the folder 'Linux'
- First closed source, but open source when he regognize it will be cumbersome.

But what is UNIX?

- A couple of components:
  - ▶ Kernel

But what is UNIX?

- A couple of components:
  - ▶ Kernel
  - ▶ Development environment

But what is UNIX?

- A couple of components:
  - ▶ Kernel
  - ▶ Development environment
  - ▶ Commands

But what is UNIX?

- A couple of components:
  - ► Kernel
  - ► Development environment
  - ► Commands
  - ► Documentation

Kernel

- The main component is the Kernel

Kernel

- The main component is the Kernel
- it abstracts the hardware and provides basics for interaction with the computer (e.g. Process-,Memory-Management)

Kernel

- The main component is the Kernel
- it abstracts the hardware and provides basics for interaction with the computer (e.g. Process-,Memory-Management)
- The first free Linux-Version 0.01 (72KB) was published at October 1973
  ```
  This isn't yet the 'mother of all operating systems',
  and anyone who hoped for that will have to wait for the
  first real release (1.0), and even then you might not
  want to change from minix.
  ```

Kernel

- The main component is the Kernel
- it abstracts the hardware and provides basics for interaction with the computer (e.g. Process-,Memory-Management)
- The first free Linux-Version 0.01 (72KB) was published at October 1973
  ```
  This isn't yet the 'mother of all operating systems',
  and anyone who hoped for that will have to wait for the
  first real release (1.0), and even then you might not
  want to change from minix.
  ```
- The latest Kernel-Version is 2.6.35.7 (86232KB)