

Unix Tools

Data, Software, and Production Engineering

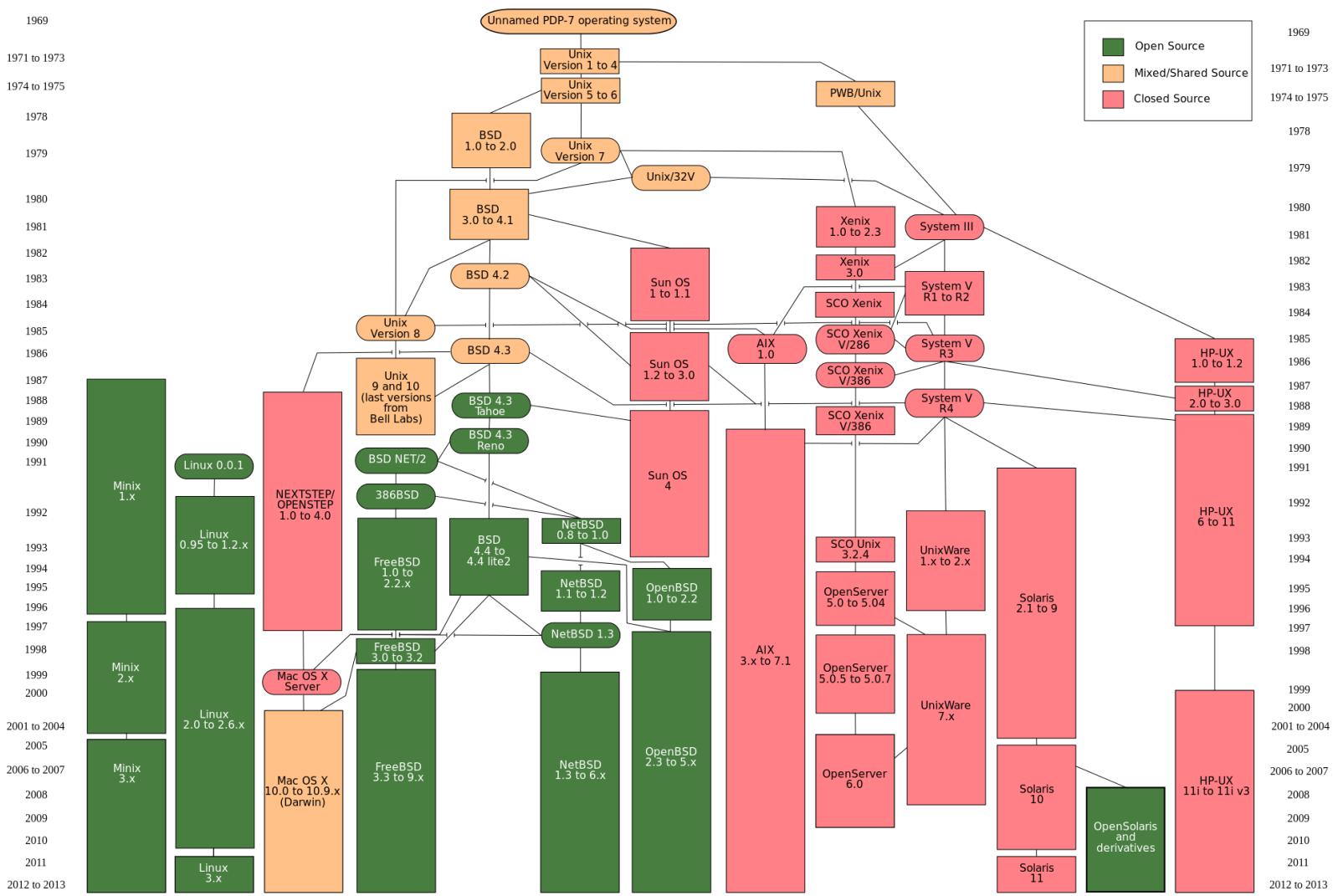
Foundations: Getting to the Command Line

Prof. Dr. Diomidis Spinellis

Introduction



Ken Thompson and Dennis Ritchie on a PDP-11. Peter Hamer — CC BY-SA 2.0, via Wikipedia



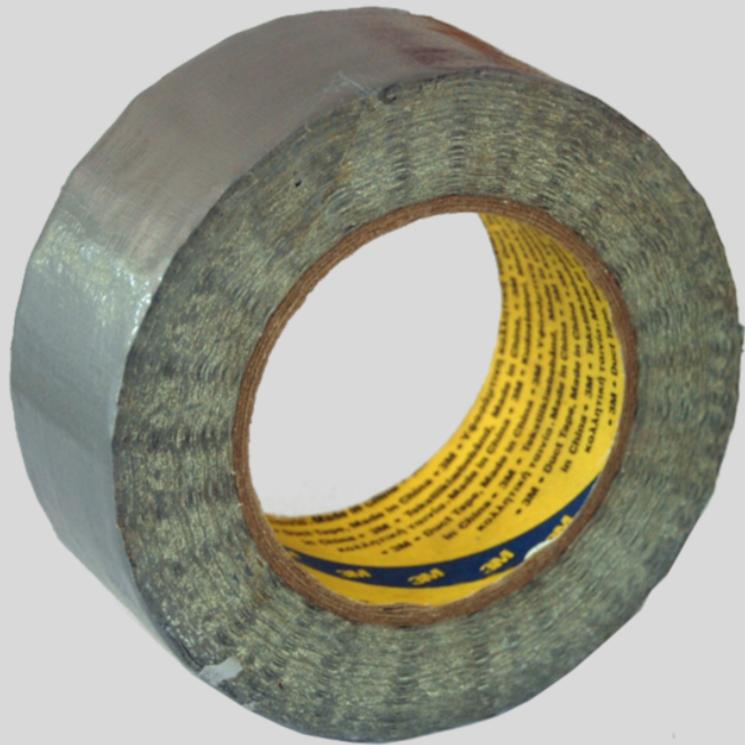
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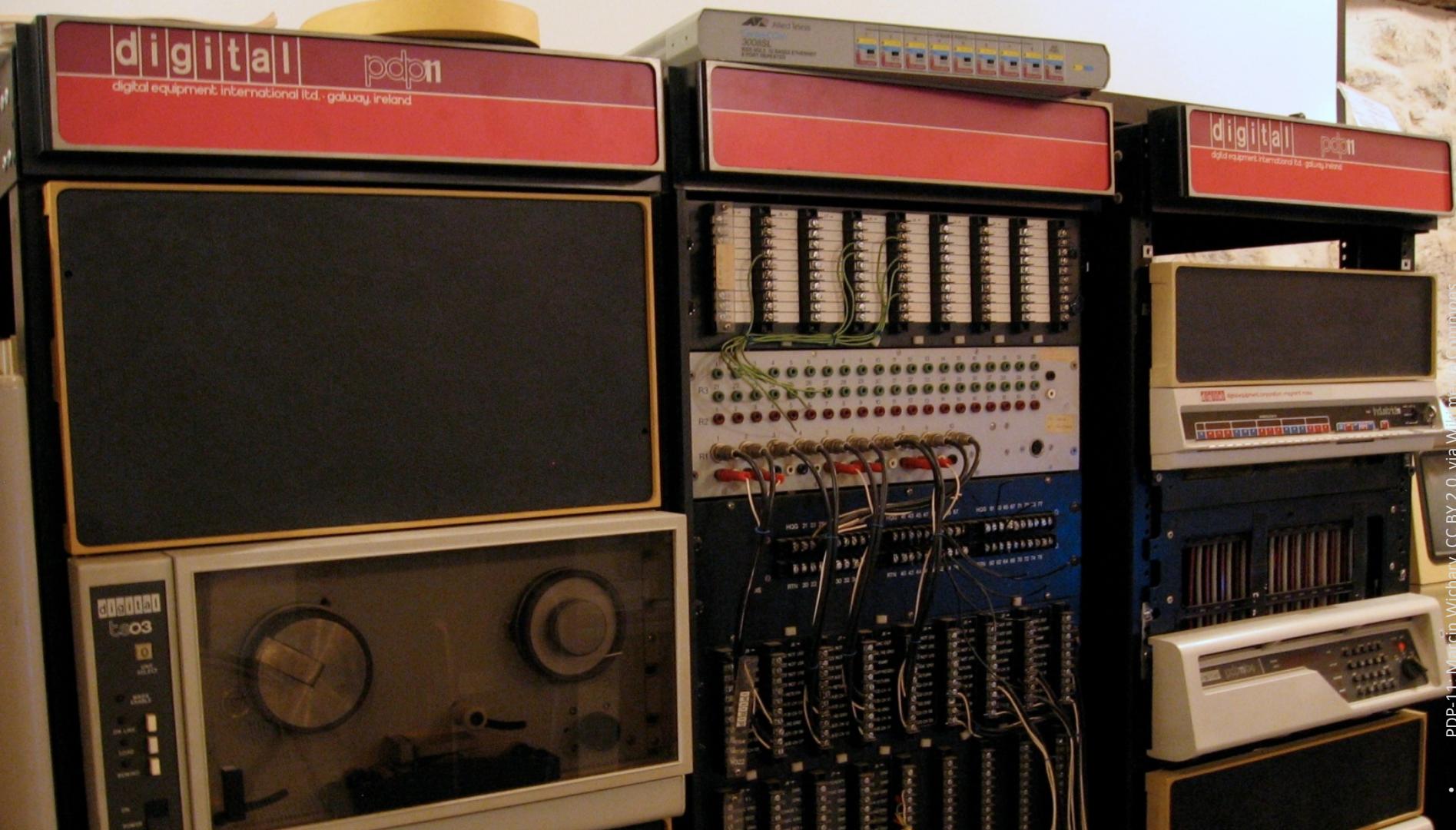
LIVE FREE OR DIE

UNIX

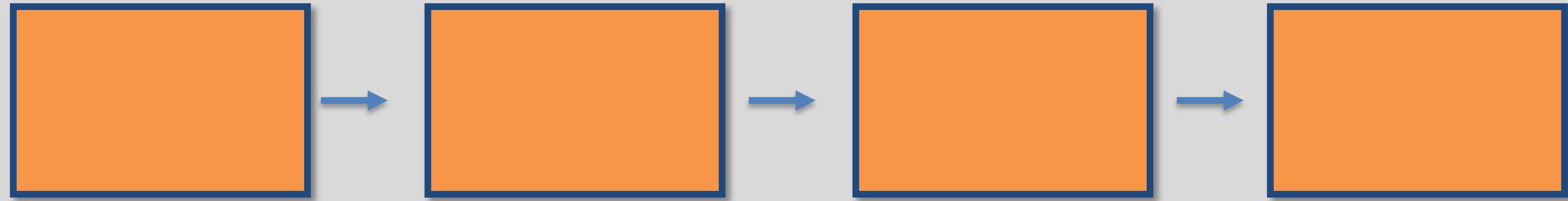
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94B-0534





PDP-11. Marcin Wichański CC BY 2.0, via Wikimedia Commons





®

open source
initiative

Course overview

- Command line
- Manage files and directories
- Combine commands
- Retrieve
- Select
- Process
- Summarize
- Best practices

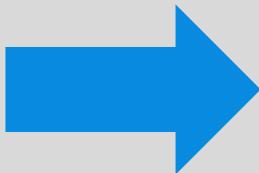
Getting to the command line

Turn Windows features on or off



To turn a feature on, select its check box. To turn a feature off, clear its check box. A filled box means that only part of the feature is turned on.

- Telnet Client
- TFTP Client
- Virtual Machine Platform
- Windows Defender Application Guard
- Windows Hypervisor Platform
- Windows Identity Foundation 3.5
- Windows PowerShell 2.0
- + Windows Process Activation Service
- Windows Projected File System
- Windows Sandbox
- Windows Subsystem for Linux
- Windows TIFF IFilter
- Work Folders Client



OK

Cancel

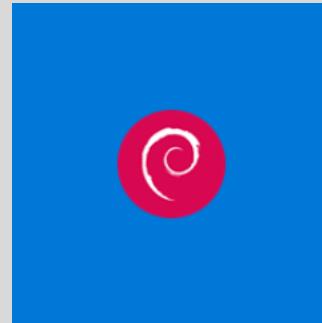


Ubuntu

★★★★★ 6



Free

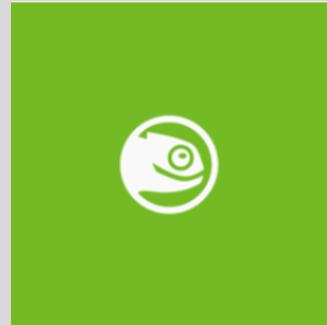


Debian

★★★★★ 2



Free



openSUSE-Leap-15-1



Free

https://www.cygwin.com/ Cygwin

Cygwin

Install Cygwin
Update Cygwin
Search Packages
Licensing Terms

Cygwin/X

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Mailing Lists
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Gold Stars
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FAQ
User's Guide
API Reference
Acronyms

Contributing
Snapshots
Source in GIT
Cygwin Packages

Related Sites
Red Hat Cygwin Product

Cygwin

Get that [Linux](#) feeling - on Windows

This is the home of the Cygwin project

What...

...is it?	...isn't it?
<p>Cygwin is:</p> <ul style="list-style-type: none">• a large collection of GNU and Open Source tools which provide functionality similar to a Linux distribution on Windows.• a DLL (cygwin1.dll) which provides substantial POSIX API functionality.	<p>Cygwin is not:</p> <ul style="list-style-type: none">• a way to run native Linux apps on Windows. You must rebuild your application <i>from source</i> if you want it to run on Windows.• a way to magically make native Windows apps aware of UNIX® functionality like signals, ptys, etc. Again, you need to build your apps <i>from source</i> if you want to take advantage of Cygwin functionality.

The Cygwin DLL currently works with all recent, commercially released x86 32 bit and 64 bit versions of Windows, starting with Windows XP SP3.

For more information see the [FAQ](#).

Current Cygwin DLL version

The most recent version of the Cygwin DLL is [2.3.0](#). Install it by running [setup-x86.exe](#) (32-bit installation)

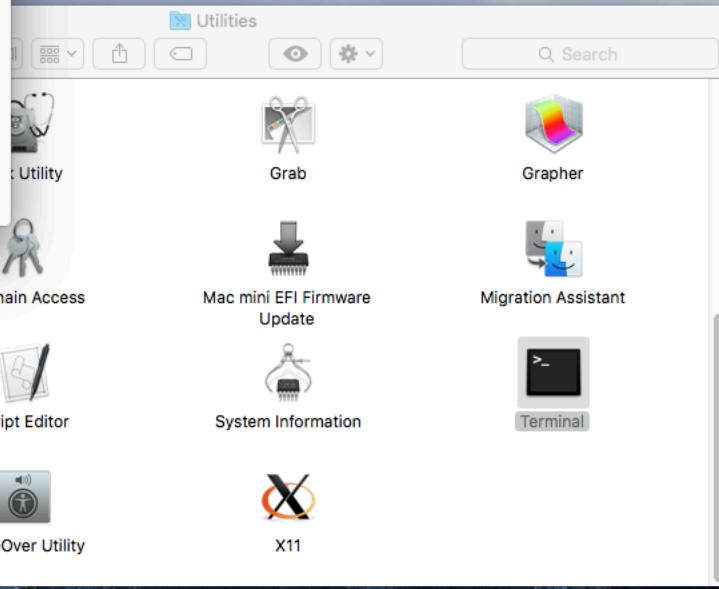
dennis — bash — 80x24

```
Last login: Thu Dec  3 20:22:30 on ttys000
dennis:~ dennis$
```

Applications
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Denni...

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spiti.s...
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spiti





terminal

Filter results ▾

Applications



Terminal



UXTerm



XTerm

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org.eclipse.rse.termina
...7.0.201502160819



org.eclipse.tm.terminal
_3.7.0.201502160819



META-INF



maven



org.eclipse.tm.features



org.eclipse.rse.termina
ls



META-INF

More suggestions

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\$20.13



\$34.01



\$24.24



\$9.52



\$19.94



\$40.90



\$12.73

TERMINAL

2 Terminal

Terminal - 642842

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