

Ubuntu – Open Source Operating System



WHAT IS UBUNTU?

- Ubuntu is a Linux-based Operating System
- It is Most Popular Linux Distribution.
- It is open sourced
 - Cost free
 - non-proprietary
- Strong focus on
 - Usability
 - Easy to installation
 - One user (initially— you can add more users later)

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- One password
 - One application per task
 - One CD for the entire operating system

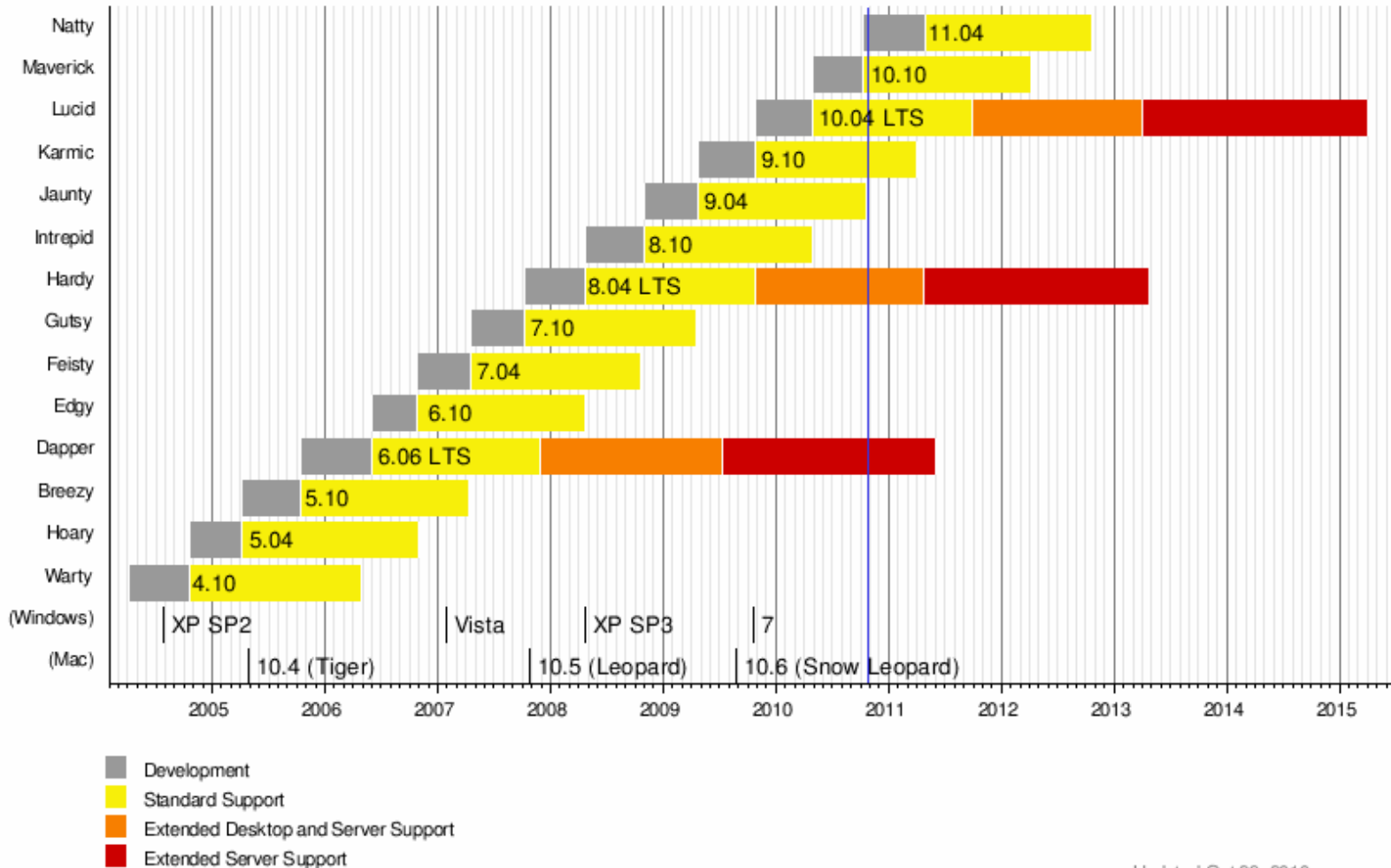
ORIGIN

- Ubuntu is an African concept meaning “humanity toward others”
- It is developed under Debian Project. (Largest Linux software development community)
- Sponsored by Canonical Ltd.
- Owned by South African billionaire Mark Shuttleworth

OPEN SOURCE

- Run for any purpose
- Study source code
- Modify source code
- Distribute and Publish

Ubuntu Release Timeline



REQUIREMENTS

- Requires less hard drive space (under 2-4 GB)
- Requires less RAM (128-256MB)
- Requires less CPU power (as old as Pentium II)
- Maintains its performance speed no matter how much you use it.

FLEXIBLE

- Can be dual booted with current OS or used from a live CD(require RAM - 384MB)
- Can run on older hardware and still perform well
- Extends the life of your current hardware to nearly twice its useful life before needing to upgrade

VARIANTS OF UBUNTU

- ◎ Kubuntu - Ubuntu with the K Desktop Environment
- ◎ Edubuntu - Ubuntu for Education , featuring a large number of educational applications.
- ◎ Ubuntu Server Edition - Ubuntu for Servers
- ◎ Ubuntu Netbook Remix (UNR) - Ubuntu for Netbooks
- ◎ Xubuntu- Ubuntu for less-powerful computers.
- ◎ Lubuntu- Ubuntu with LXDE Environment
- ◎ Mythbuntu-Ubuntu with Myth TV software

FEATURES

- Many different distributions
- Huge group of “free software proponents” (open source)
- Ubuntu is free and always will be free.
- No key codes, activation, registration
- Ubuntu is most popular Linux-based OS in the world (10 million users now and counting...)

FEATURES (CONTI.)

- It take less
 - installation time
 - boot up time
 - shut downtime
 - Space
- It containt MultiBoot Loader (GRand Unified Boot Loader)
 - Dual boot with Windows , MAC
- Dell now offers desktops with Ubuntu

SOFTWARE

- Ubuntu Software Center featuring Thousands of free software and tools.
- Other free softwares are available via other sites like getdeb.net, appnr.com etc.
- You may need to purchase less than 1% of your software

FREE AND OPEN SOURCE SOFTWARE (FOSS)

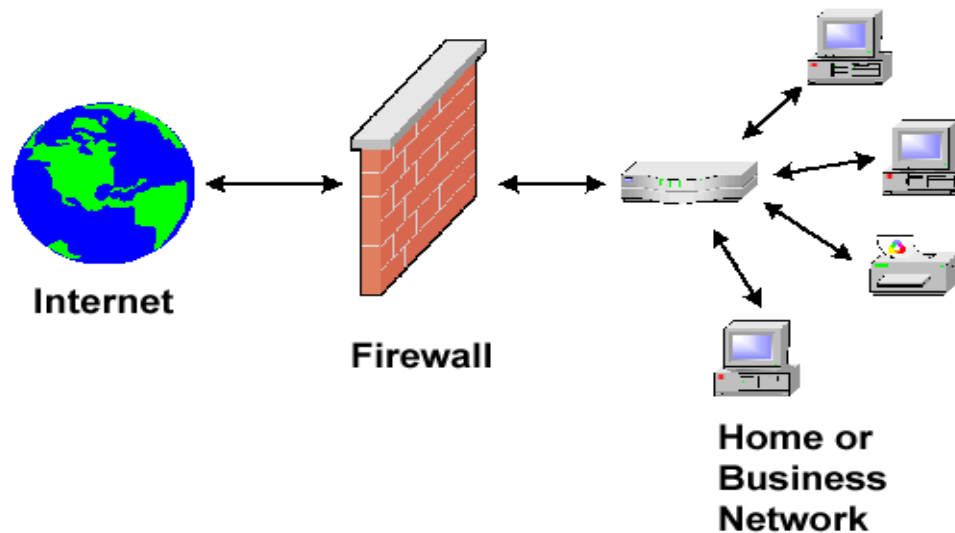
1. The GIMP - Adobe Photoshop clone
2. Open Office - Office suite
3. Mozilla Firefox - Web browser
4. Mozilla Thunderbird- E-mail Client
5. VLC - Media player
6. Audacity - Digital audio editor
7. MySQL – Database
8. Ghostscript - Postscript interpreter
9. Golden Dict-Dictionary software
10. OpenShot-Video Editor

FOSS (CONTI.)

1. Gparted-Partiton Manager
2. LyX-Latex Editor
3. Gwibber Social Client
4. Skype
5. Blender -3D Imaging & Animation Software
6. Banshee Media player
7. Kompozer- HTML Editor
8. Anjuta – C/C++ IDE
9. OpenCAD/gCAD3D- CAD/CAM Application
10. Cheese webcam
11. Chromium Browser
12. Wine-Emulator for running windows software in ubuntu

SECURITY

- All Operating Systems are vulnerable
- Security requires a layered approach
- Fire-starter as fire-wall



UBUNTU IS IMMUNE TO VIRUSES

- Sudo code
- Built by hackers to be inherently more secure than any other operating system
- Including spyware, adware, trojan horses, worms, and any other malware protections

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- Antivirus :ClamTk(GNU)(GUI),ClamAv
 - Trusted OS
 - ATMs, BANK Server, some military aircraft

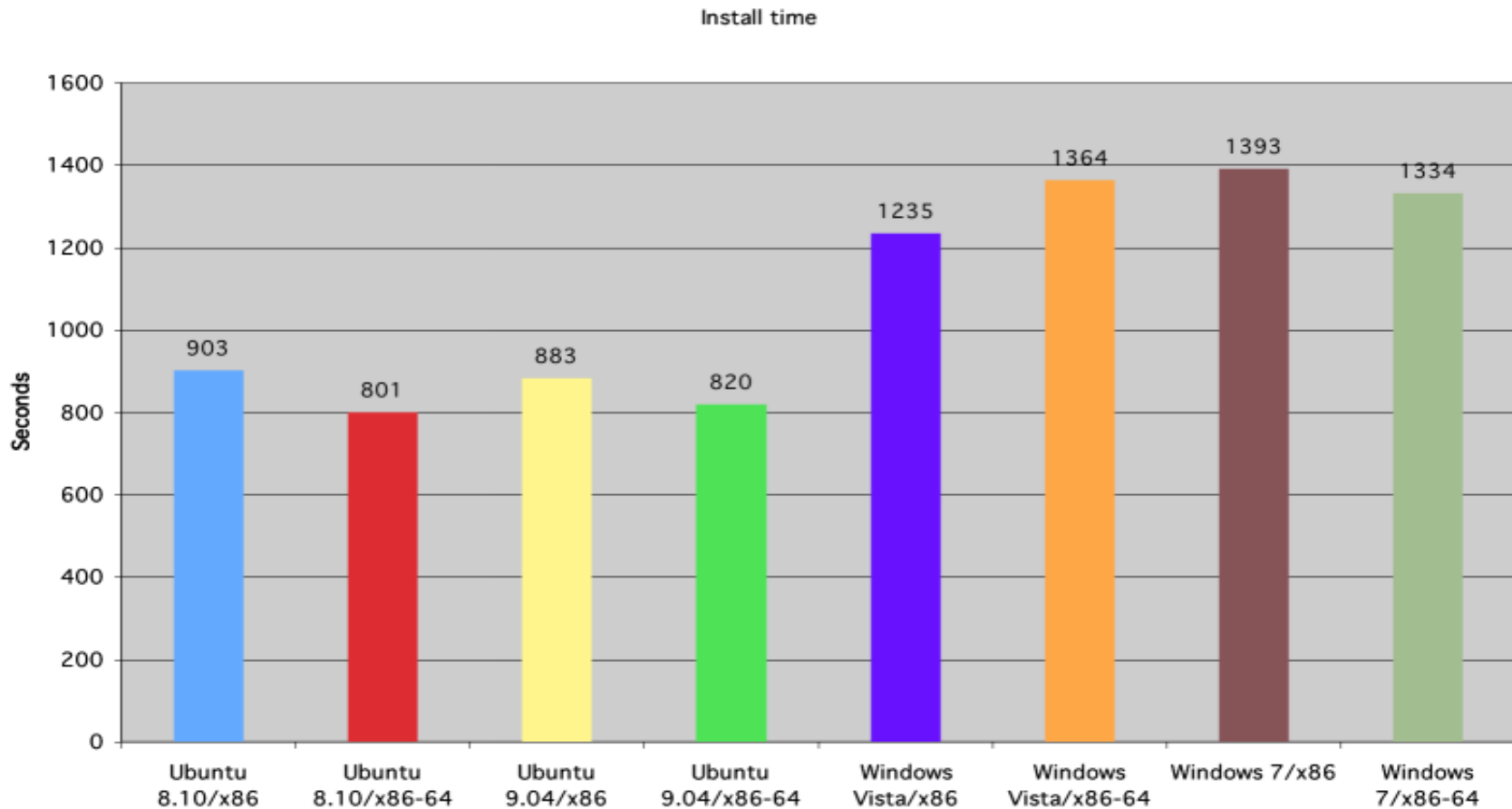
UPDATE

- Version Upgrades:
 - Windows—averaging 2-3 years
 - Mac—every 2 years since 2003
 - Ubuntu—every six months
- Service packs and updates:
 - Windows—months
 - Mac—weeks
 - Ubuntu—immediately

UBUNTU V/S WINDOWS

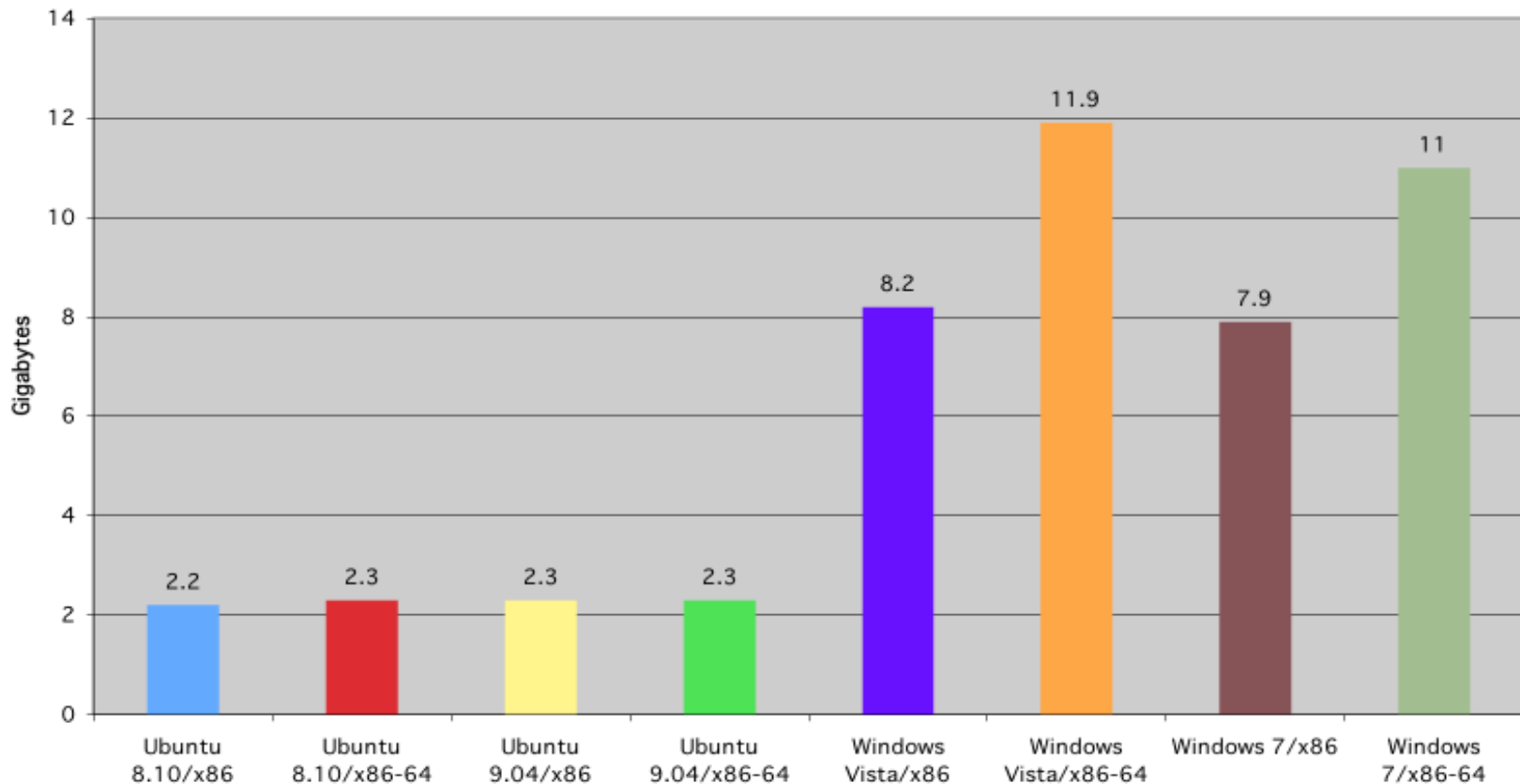
Type	<u>Ubuntu</u>	Windows
User Interface	Less	High
Security	High	Less
Hardware support	No driver require	Driver require
System update	Free (full)	Purchase (full)
Server	Best	Good
Price	Free	Not free
Partition	-	Limited
Case sensitive	Yes	No
Dual boot	Yes	No
File system	Ext4	NTFS, <u>FAT</u>
Live <u>cd</u>	Yes	No
User mode	Not admin	<u>admin</u>

Comparison: Install Time

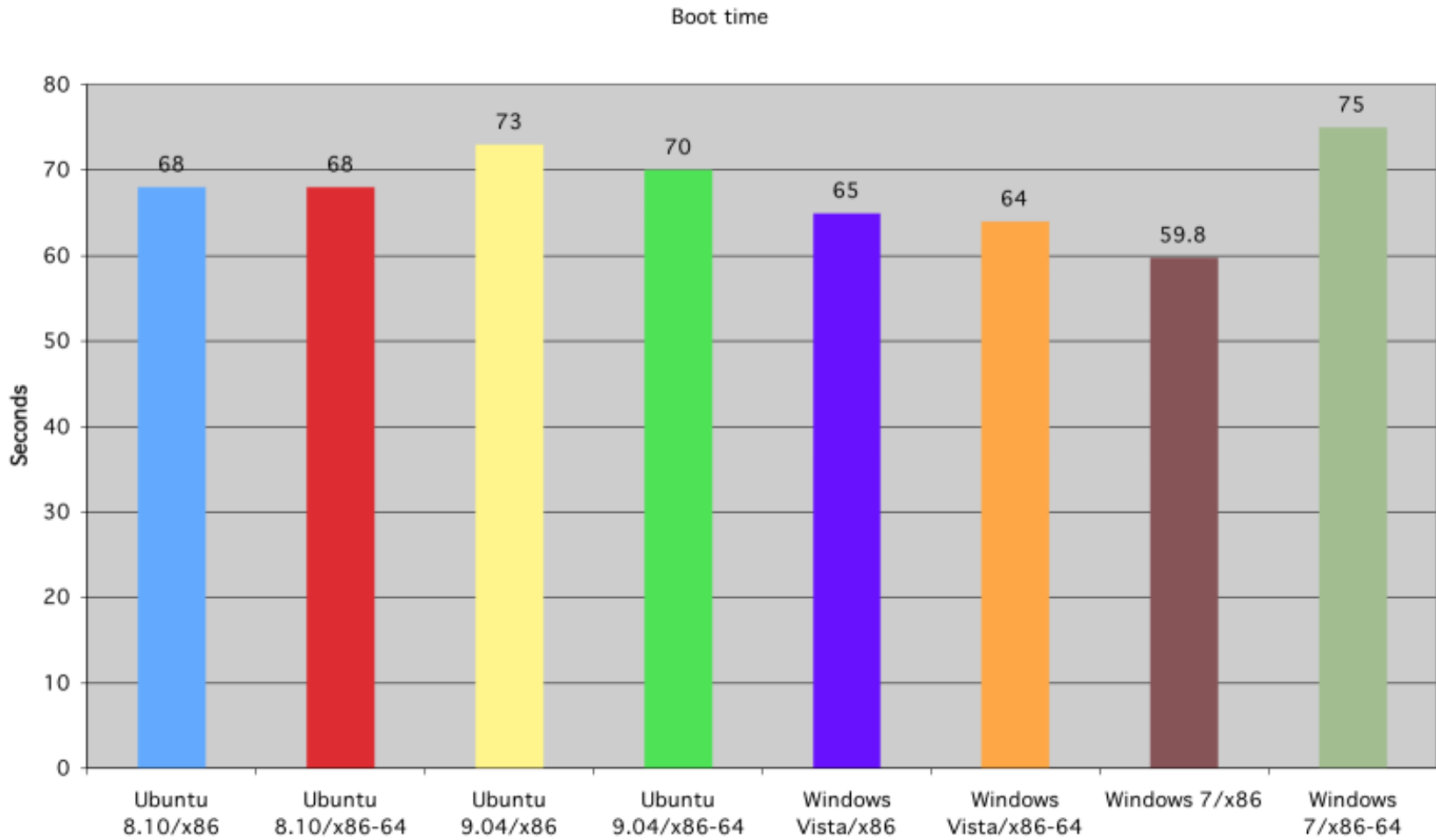


Disk Space Used

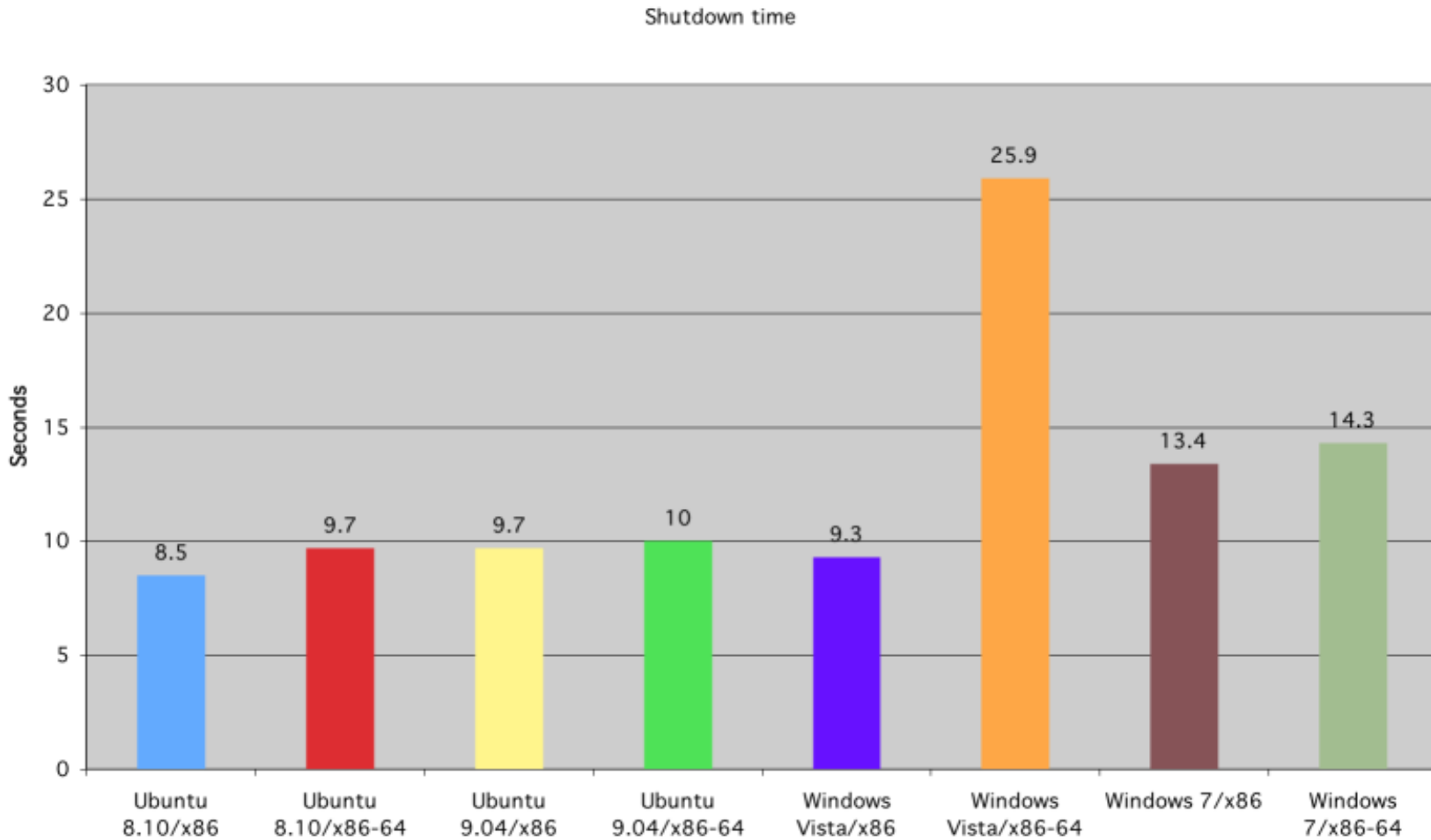
Disk space used



Boot Time

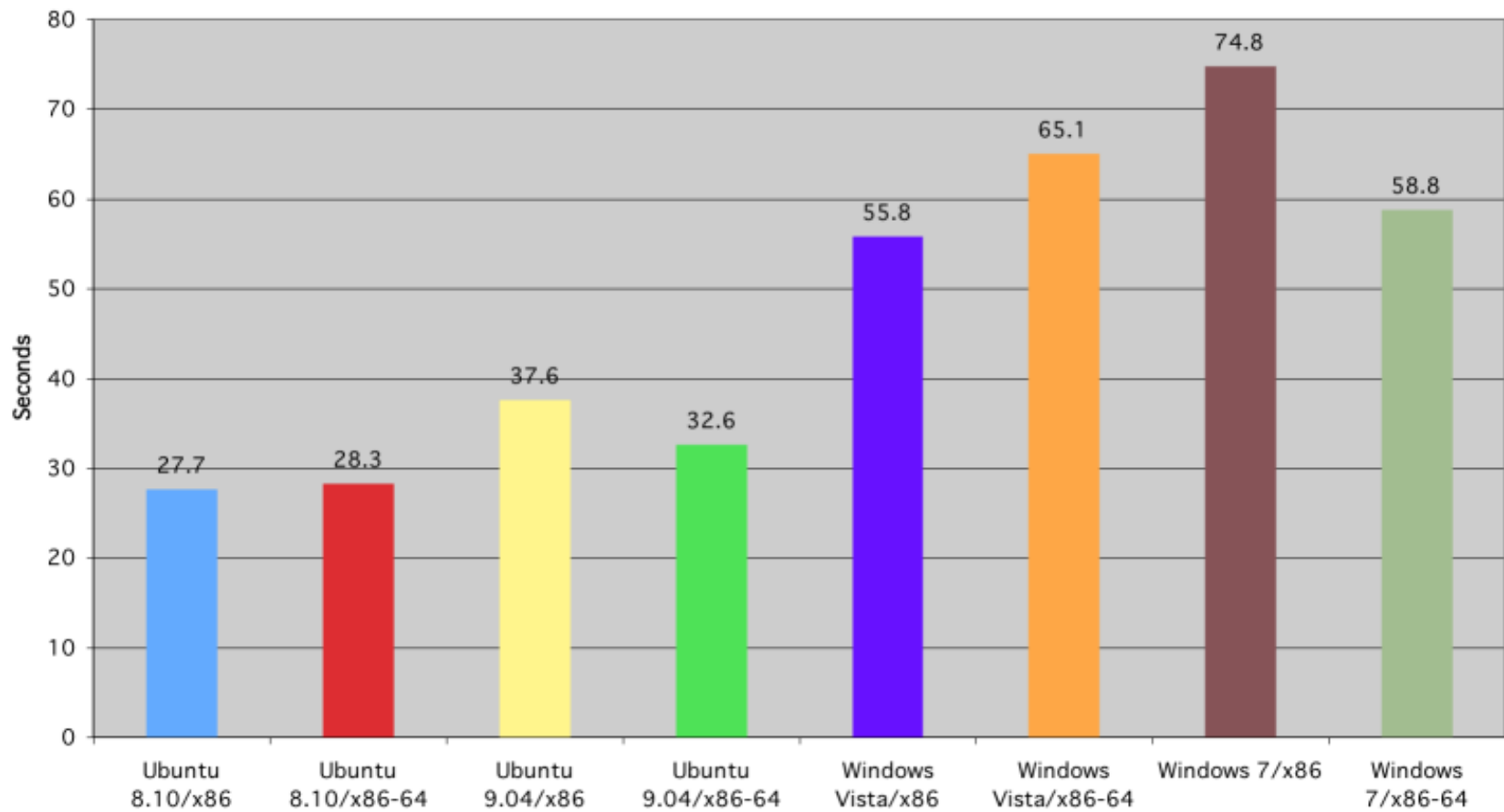


Shut Down Time

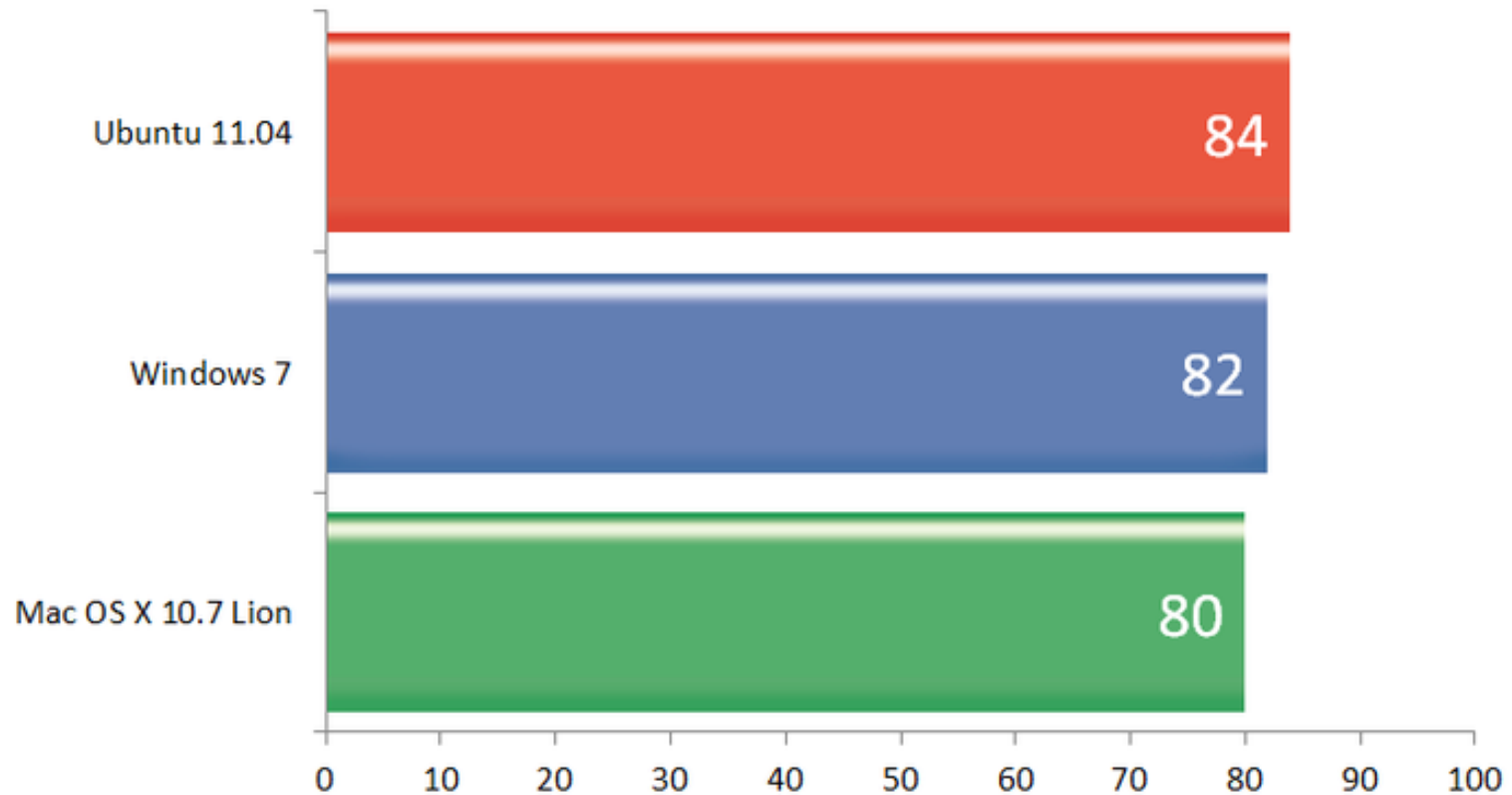


IO test

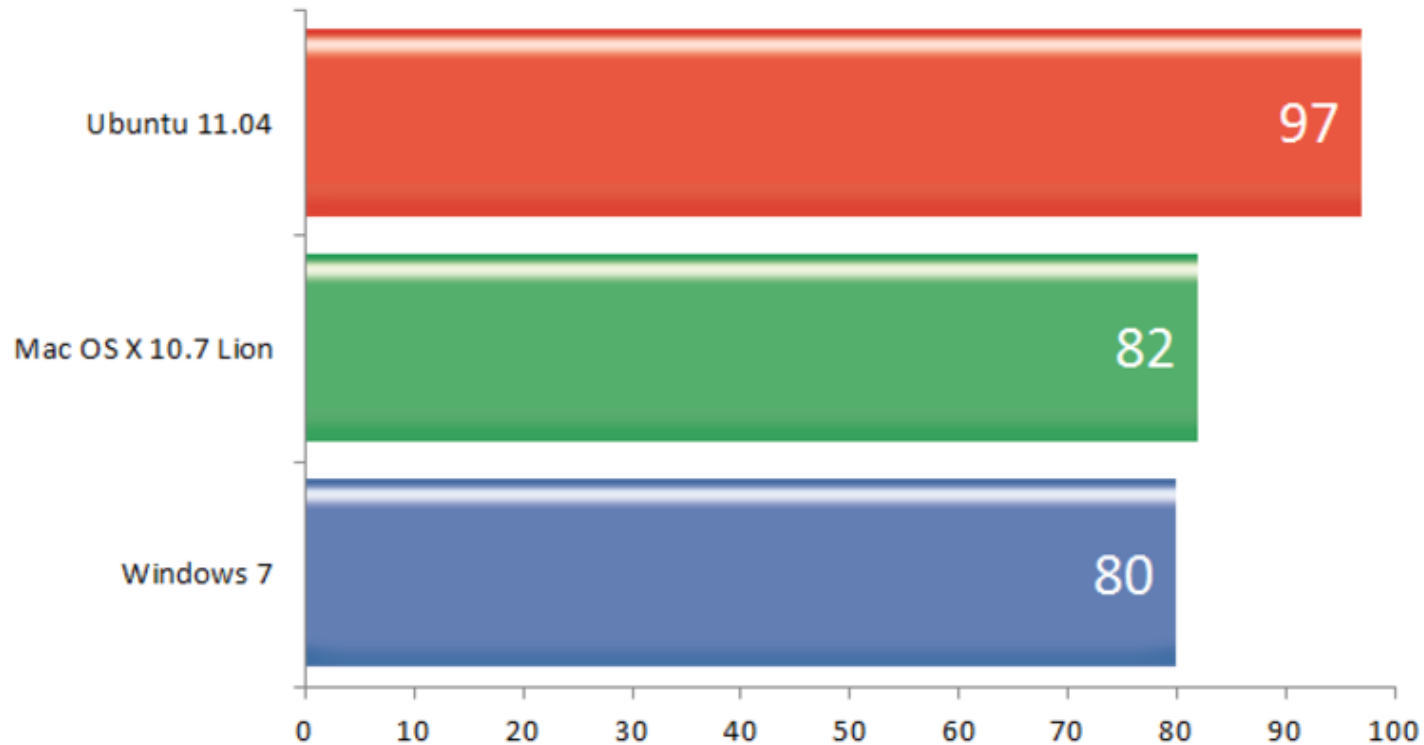
Small file USB to HD



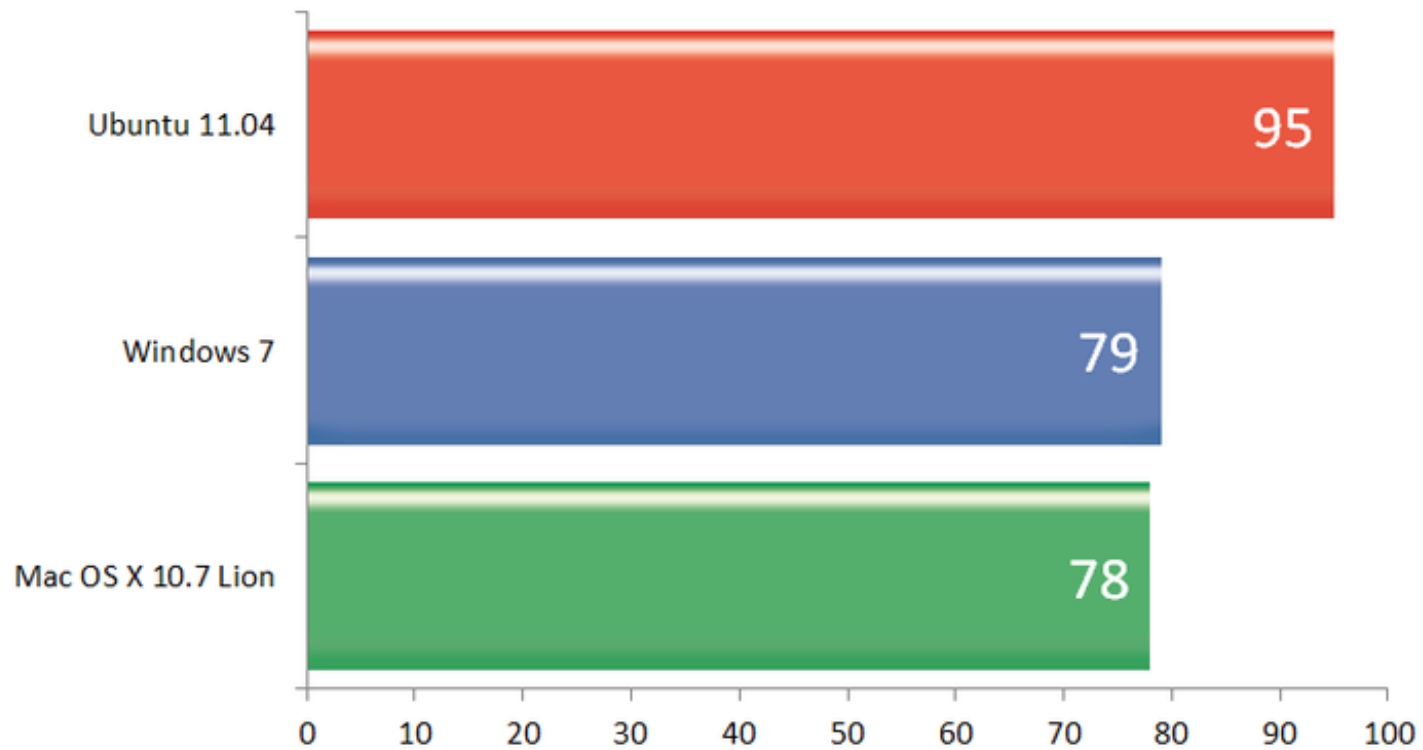
Comparisons: Multi-tasking



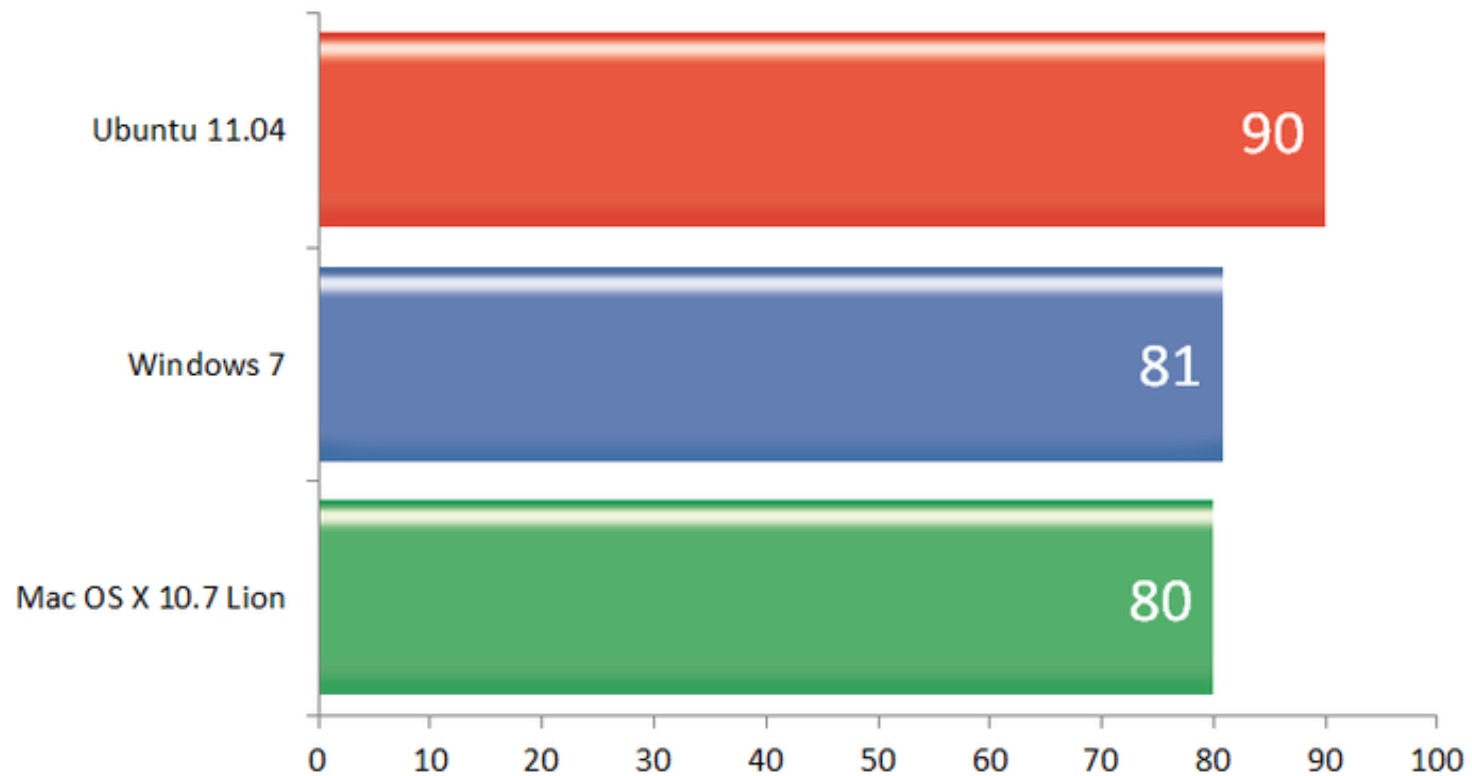
Comparisons: Image Editing



Comparisons: Video Encoding



Comparisons: Overall Performance



UBUNTU LACKS OF...

- Awareness of people
- Gaming
- People thinks Linux means do commands...

REFERENCES

- www.ubuntu.com
- Wikipedia.org
- Comparisons are from <http://www.expertreviews.co.uk/general/1286485/ubuntu-11-04-vs-windows-7-vs-os-x-10-7-lion/2>
- Richard Petersen, The Complete Reference UBUNTU, TATA McGraw-Hill
- Jeffrey Orloff , How to do Everything UBUNTU, TATA McGraw-Hill