

# ***Ελεύθερο Λογισμικό Παρελθόν, Παρόν και Μέλλον***

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***Τεχνολογικό Πάρκο***

***Ιωαννίνων***

# Ελεύθερο Λογισμικό - Λογισμικό Ανοικτού Κώδικα

## Ελεύθερο λογισμικό

free as in *free speech*, not as in *free beer* (rms)

0: ελευθερία να χρησιμοποιείς το λογισμικό για οποιονδήποτε λόγο

1: ελευθερία να μελετάς και να αλλάζεις το λογισμικό

2: ελευθερία να αντιγράφεις το λογισμικό για να βοηθάς άλλους

3: ελευθερία να βελτιώνεις το λογισμικό και να δημοσιεύεις τις αλλαγές σου ώστε να ωφελείται η κοινότητα

## Λογισμικό Ανοικτού Κώδικα

If you want to change the world,  
you have to co-opt the people who write the big checks.

*Eric S. Raymond*



*Libre* (FLOSS, FOSS)

<http://www.revolution-os.com/>

# *Ελεύθερο λογισμικό και ... κέρδος;;;*

Για πλάκα! - Just For Fun: The Story Of An Accidental Revolutionary\*

Φήμη – Αντί για CV

Οικονομία των δώρων ( <> *quid pro quo*)

\* ISBN: 0066620732

## ***Μοντέλο ανάπτυξης***

- Υποστήριξη (παροχή υπηρεσιών)
- Διπλή αδειοδότηση

## *The Cathedral and the Bazaar*

<http://howto.hellug.gr/howto/pub/html/cathedral-bazaar.html>

Linus' Law: Given enough eyeballs, all bugs are shallow!

<http://www.gnu.org/philosophy/selling.html>

# Ελεύθερο λογισμικό και ... κέρδος;;;

Economic impact of open source software on innovation and the competitiveness of the Information and Communication Technologies (ICT) sector in the EU

<http://ec.europa.eu/enterprise/ict/policy/doc/2006-11-20-flossimpact.pdf>

6 οργανισμοί (οι περισσότεροι δημόσιοι)

*"Our findings show that, in almost all the cases, a transition toward open source reports of savings on the long term costs of ownership of the software products."*

*"Costs to migrate to an open solution are relevant and an organization needs to consider an extra effort for this. However these costs are temporary and mainly are budgeted in less than one year."*

*".. no particular delays or lost of time in the daily work due to the use of OpenOffice.org."*

*Slashdot: "Large FLOSS study Gets the Real Facts"*

vs. Get the facts

<http://www.microsoft.com/windowsserver/facts/>

# Ελεύθερο Λογισμικό: Πώς προέκυψε;

From CSvax:pur-ee:inuxc!ixn5c!ihnp4!houxm!mhuxi!eagle!mit-vax!mit-eddie!RMS@MIT-OZ  
From: RMS%MIT-OZ@mit-eddie  
Newsgroups: net.unix-wizards,net.usoft  
Subject: new UNIX implementation  
Date: Tue, **27-Sep-83** 12:35:59 EST  
Organization: MIT AI Lab, Cambridge, MA  
Free Unix!

Starting this Thanksgiving I am going to write a complete Unix-compatible software system called GNU (for Gnu's Not Unix), and **give it away free** to everyone who can use it. Contributions of time, money, programs and equipment are greatly needed.

To begin with, GNU will be a kernel plus all the utilities needed to write and run C programs: editor, shell, C compiler, linker, assembler, and a few other things. After this we will add a text formatter, a YACC, an Empire game, a spreadsheet, and hundreds of other things. We hope to supply, eventually, everything useful that normally comes with a Unix system, and anything else useful, including on-line and hardcopy documentation.

GNU will be able to run Unix programs, but will not be identical to Unix. We will make all improvements that are convenient, based on our experience with other operating systems. [...]



Richard Stallman



<http://www.stallman.org/saint.html>

<http://www.gnu.org/gnu/initial-announcement.html>

# Ελεύθερο Λογισμικό: Πώς προέκυψε;

FSF (Οκτώβριος 1985)



Δράσεις:

- GNU project
- επιβολή GPL
- Free Software Directory
- ...



Εργαλεία

- GNU C compiler (1987)



Άδειες χρήσης (GPL, 1989)

- <http://gplv3.fsf.org/>



# *Ελεύθερο Λογισμικό: Το Linux*

From: torvalds@klaava.Helsinki.FI (Linus Benedict Torvalds)  
Newsgroups: **comp.os.minix**  
Subject: What would you like to see most in minix?  
Summary: small poll for my new operating system  
Message-ID: <1991Aug25.205708.9541@klaava.Helsinki.FI>  
Date: **25 Aug 91** 20:57:08 GMT  
Organization: University of Helsinki

Hello everybody out there using minix -

I'm doing a (free) operating system (just a hobby, won't be big and professional like gnu) for 386(486) AT clones. This has been brewing since april, and is starting to get ready. I'd like any feedback on things people like/dislike in minix, as my OS resembles it somewhat (same physical layout of the file-system (due to practical reasons) among other things).

I've currently ported **bash**(1.08) and **gcc**(1.40), and **things seem to work**. This implies that I'll get something practical within a few months, and I'd like to know what features most people would want. Any suggestions are welcome, but I won't promise I'll implement them :-)

Linus (torvalds@kruuna.helsinki.fi)

PS. Yes - it's free of any minix code, and it has a multi-threaded fs. It is NOT protable (uses 386 task switching etc), and it probably **never will support anything other than AT-harddisks**, as that's all I have :-)



Linus Benedict  
Torvalds

# *Ελεύθερο Λογισμικό: Το Linux*

Αρχική ονομασία: Freax (= "free", "freak" και X)

- Ari Lemmke sysadm @ Helsinki University of Technology
- ftp.funet.fi/..../**linux**



Μασκώτ – tux

Larry Ewing, 1996



Linux vs. GNU/Linux



# Ελεύθερο Λογισμικό: Τι περιλαμβάνει;

## Λειτουργικά συστήματα

- Linux (!)
- BSD



## Εφαρμογές (1)

- OpenOffice.org
- Mozilla {Firefox - Thunderbird}
- The Gimp



# Ελεύθερο Λογισμικό: Τι περιλαμβάνει;

## Εφαρμογές (1)

- MPlayer, VLC



- Tex (LaTeX)



- Γλώσσες προγραμματισμού (C/C++, Python, Perl, PHP, Java, ..)

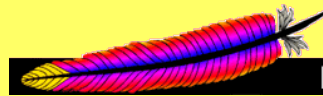
# Ελεύθερο Λογισμικό: Τι περιλαμβάνει;

## Εφαρμογές (2)

- SMTP (Sendmail, Postfix,..)



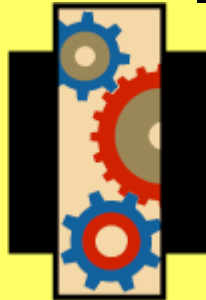
- Web (Apache)



**Apache**

HTTP SERVER PROJECT

- DNS (Bind)



- RDBMS (MySQL, PostgreSQL, ...)



- Proxy (Squid)



# Ελεύθερο Λογισμικό: Τι περιλαμβάνει;

## Εφαρμογές (2)

- File Server (Samba)
- Security (OpenSSL/mod\_ssl, OpenSSH, GnuPG, ...)



- Monitoring (MRTG/RRD, Nagios, ...)



- Wiki (MediaWiki,...)



# Ελεύθερο Λογισμικό: Τι περιλαμβάνει;



# Ελεύθερο Λογισμικό: Πού;

<http://www.linux.hp.com/>



<http://www.ibm.com/linux/>



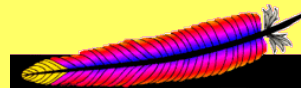
## LAMP

<http://en.wikipedia.org/wiki/LAMP>



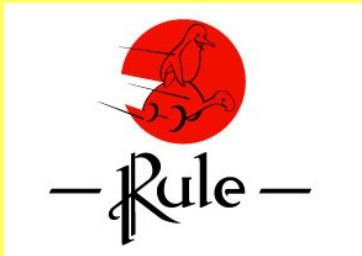
**Apache**

HTTP SERVER PROJECT



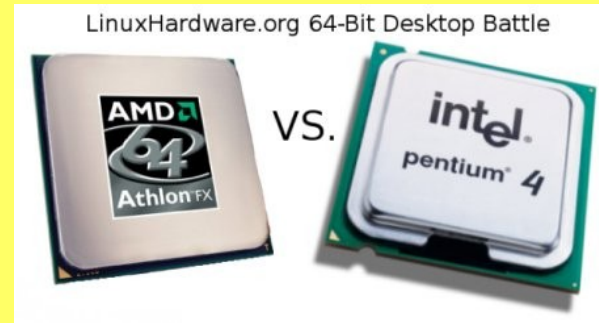
# Ελεύθερο Λογισμικό: Πού;

*i386*



<http://www.rule-project.org/>

*x86\_64*



*sparc*



[ultralinux.org](http://ultralinux.org)

*mips*



[openwrt.org](http://openwrt.org)

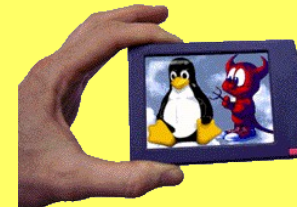


[laptop.org](http://laptop.org)

*Playstation 3*



*arm*



[handhelds.org](http://handhelds.org)

Επίσης σε: *ppc-ppc64, alpha, hppa, ..*



# Ελεύθερο Λογισμικό: Το μέλλον

Πατέντες στο λογισμικό

- Νίκη (;;) στο Ευρωκοινοβούλιο  
(Ιούνιος 2005)



<http://epatents.hellug.gr/>

Ψηφιακή διαχείριση πνευματικών δικαιωμάτων – DRM

-Sony DRM rootkit (Σεπτέμβριος-Οκτώβριος 2005)

- <http://www.sysinternals.com/blog/2005/10/sony-rootkits-and-digital-rights.html>

- [http://www.cnet.com/4520-6033\\_1-6376177-1.html](http://www.cnet.com/4520-6033_1-6376177-1.html)

- [http://en.wikipedia.org/wiki/Digital\\_Rights\\_Management](http://en.wikipedia.org/wiki/Digital_Rights_Management)