



نخستین همایش سیستم عامل های Unix معرفی سیستم عامل لینوکس

توسط : پیمان نویدی

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Introduction

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❖ UNIX :

- ▶ Is a family of multitasking
- ▶ Multiuser computer operating systems
- ▶ Derive from the original AT&T Unix
- ▶ Developed in the 1970s
- ▶ At the Bell Labs research center
- ▶ By Ken Thompson, Dennis Ritchie, and others

Introduction (Cont.)

❖ UNIX :

- ▶ Leading to a variety of both :
 - ▶ Academic
 - ▶ Commercial
- ▶ From vendors such as:
 - ▶ University of California
 - ▶ University of Berkeley (BSD)
 - ▶ Microsoft (Xenix)
 - ▶ IBM (AIX) and Sun Microsystems (Solaris)

Introduction (Cont.)

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❖ UNIX :

▶ Written in :

▶ **C** programming language

▶ **Assembly** language

▶ Web site : www.unix.org

UNIX®

Celebrating 40 years uptime

History of Unix OS

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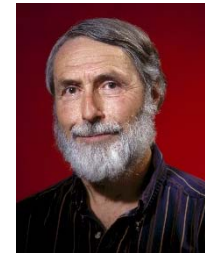
▶ (mid-1960s) **Ken Thompson, Dennis Ritchie, Others :**

- Decided to work on a much **smaller scale OS**



▶ (1970) **Peter Neumann :**

- Coined the project name **UNICS**
- (UNiplexed Information and Computing Service)

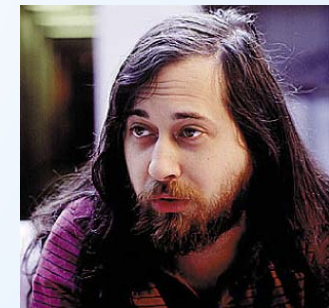
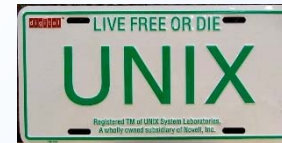


▶ (1972) **Unix :**

- Rewritten in the **C programming** language

▶ (1983) **Richard Stallman :**

- Announced the free software **GNU project**



History of Unix OS (Cont.)

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▶ (1990s) **Unix-like systems grew in popularity :**

- Such as Linux, BSD and Apple

▶ (1991) **Linus Torvalds :**

- Released the Linux kernel
- Free software
- Under the GNU General Public License



▶ (1992) **BSD Unix :**

- Led to the NetBSD and FreeBSD projects

▶ (1999) **Apple Mac OS X :**

- The final release of the "classic" Mac OS

Unix-Like Projects

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▶ **Minix**



▶ **Linux**



▶ **BSD**



▶ **SunOS**



FreeBSD®



▶ **XenixOS**

▶ **Mac OS X**



Mac™ OS

▶ **HP-UX**



▶ **IBM AIX**

▶ **Solaris**

We Choose Linux As The Best Operating System



Linux OS

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❖ Features :

- ▶ Free and **Open-Source** software
- ▶ Uses the name GNU/Linux
- ▶ For personal computers, servers and big iron
- ▶ Based on the **Intel x86** architecture
- ▶ Source code available
- ▶ Kernel can be customized to user



Linux OS (Cont.)

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❖ Features :

▶ Also runs on embedded systems includes :

- ▶ Mobile phones
- ▶ Tablet computers
- ▶ Network routers
- ▶ Facility automation controls
- ▶ Televisions
- ▶ Video game consoles



System Requirements

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❖ CPU :

- ▶ IBM

- ▶ INTEL

 - ▶ Pentium I – III

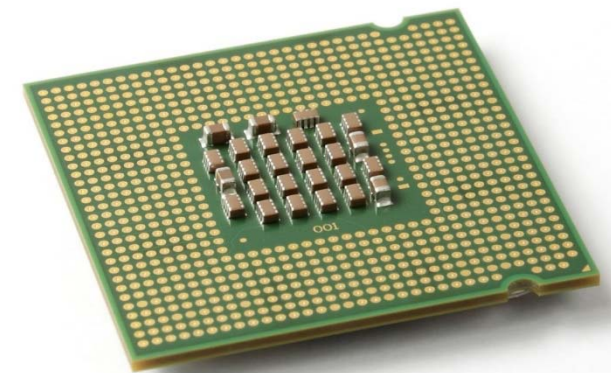
 - ▶ No 286, 386, 486, and Celeron

- ▶ AMD

 - ▶ K6/II/III

 - ▶ Duran

 - ▶ Athlon, Athlon XP/MP



System Requirements (Cont.)

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❖ RAM :

- ▶ SDRAM or DDRRAM
- ▶ Capacity:
 - ▶ Minimum requirement 64MB
 - ▶ Recommended 128MB and up



❖ HDD :

- ▶ Supports EIDE and SCSI drives
- ▶ Capacity
 - ▶ Min: 400MB
 - ▶ Full Install: 3GB
 - ▶ Anything above 3GB



Linux Releases

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❖ Non-commercial :

- ▶ Fedora
- ▶ CentOS
- ▶ Debian
- ▶ Ubuntu
- ▶ Gentoo
- ▶ openSUSE
- ▶ Kali



Linux OS (Cont.)

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❖ Commercial :

▶ Red Hat Enterprise



▶ SUSE Linux Enterprise



Linux Kernel-Like Projects

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▶ **Chrome OS**



Google Chrome OS

▶ **Android**



ANDROID

▶ **Tizen**



TIZEN™

▶ **Mobilinux**

mobilinux

Download Linux Releases

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❖ Best Mirror and Repository :

- ▶ <http://ftp.jaist.ac.jp/pub>
- ▶ <http://mirror.i3d.net>

❖ RPM Software Download :

- ▶ <http://www.rpmfind.net>

❖ Personal Web Page :

- ▶ <http://www.navidy.ir>

Thanks for your attention

The End