**History of Unix and Linux :**

Before adding Difference Between Unix and Linux i would like to give you the brief history of unix and Linux. To understand Difference Between Unix and Linux user first needs to understand history of unix as well as Linux. I will try to give the brief history of unix and Linux in bullet-points :

**1.Invention of Unix and Linux :**

The unix is developed in AT & T bell’s laboratory by Dennis Ritchie and Ken Thomson. The first version of Unix is released in 1970.

In 1991, while studying computer science at University of Helsinki, Linus Torvalds began a project that later became the Linux kernel.This is open  source free operating system which is called as Linux.

**2.Development Of Unix and Linux :**

Unix systems are divided into various other flavors, mostly developed by AT&T as well as various commercial vendors and non-profit organizations.

Linux is developed by Open Source development i.e. through sharing and collaboration of code and features through forums etc and it is distributed by various vendors.

**3.Manufacturer :**

Unix is manufactured by big giant companies like oracle,IBM,AIX,HP. They have taken their own licencing for Unix Operating System.

Linux kernel is developed by the community.Linus Torvald is behind the development of Linux operating system. It is just developed by Linus Torvald with his development community.

**4.Pricing of Unix and Linux :**

Some free for development use (Solaris) but support is available for a price.

Free but support is available for a price.

**5.Examples of Unix and Linux :**

OS X, Solaris, All Linux operating systems are best examples of Unix Operating system.

Ubuntu,Fedora,Red Hat are best examples of Linux Operating System.

**6.Graphical User Interface For Unix and Linux :**

Unix is based on Command line so that it is called as command line operating system. But for simplicity purpose the GUI (Graphical User Interface) has been created by developers and it is called as Common Desktop Environment.

Linux is GUI(Graphical User Interface) based operating system. The linux mainly provides the KDE and GNOME GUI interface. As it is developed by set of developers from the world there are lot of alternative Graphical User Interfaces also.

**7.Supporting Files in Linux and Unix :**

Unix can support the jfs, gpfs, hfs, hfs+, ufs, xfs, zfs file formats.

Linux can support the Ext2, Ext3, Ext4, Jfs, ReiserFS, Xfs, Btrfs, FAT, FAT 32 ,NTFS file formats.

**8.About Linux and Unix Operating system type:**

Unix is not called as fully open source operating system as its code is not available freely.Unix is an operating system that is very popular in universities, companies, big enterprises etc.

Linux is an example of Open Source software development and Free Operating System (OS).

These are above some points where user can check Difference Between Unix and Linux . In following section i will try to give the Difference Between Unix and Linux in tabular format so that users will understand the points step by step.

|  |  |
| --- | --- |
| UNIX | LINUX |
| The UNIX is not freeware. The source code of UNIX is not available free for users. | The Linux is freeware. The source code of Linux is freely available to all users. |
| The UNIX uses different commands for performing the different operations. It is called as Command Line Operating System. | Linux primarily uses Graphical User Interface (GUI) for performing the different operations. Linux uses command line interface as optional to perform operations. |
| UNIX is non portable operating system | Linux is portable operating system which can be executed on different hard drives. |
| UNIX Operating system has rigid environment of hardware. It can not be installed on any hardware machine as it has some specific hardware requirements. | Linux is very flexible operating system which can be installed on most of home based PCs. |
| Unix is mainly used in most of server systems, High end computers and mainframe systems. | Linux is used on home based pcs, desktops, mobile phones etc. |
| UNIX is developed by AT & T programmers. | Linux is developed by Active linux community Worldwide. |
| Different versions of UNIX are AIS,HP-UX,BSD,IRIS etc.. | Different versions of Linux are ubuntu, red hat, Solaris etc. |
| Unix installation and using UNIX is costly operation as it needs high end hardware system | Linux installation is not costly operation. It has not needed the high end hardware. |
| The file systems supported by Unix are as follows: zfs, js, hfx, gps, xfs, vxfs. | The file systems supported by Linux are as follows: xfs, ramfs, nfs, vfat, cramfsm, ext3, ext4, ext2, ext1, ufs, autofs, devpts, ntfs. |

# Difference Between Unix and Linux in