

Universo Linux

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O que é um computador?

- Tente pensar do ponto de vista de um engenheiro!

Década de 60

- Cada máquina era única



<https://upload.wikimedia.org/wikipedia/commons/5/52/Pdp7-oslo-2005.jpeg>

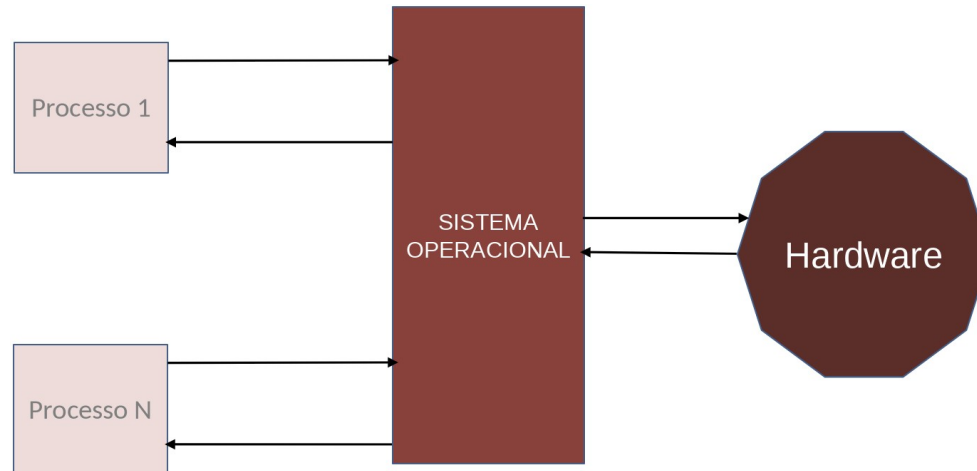
Sistema Operacional

- O que é?

Sistema Operacional

- O que é?

“Permitir que usuários executem diversos programas de maneira **simultânea e segura.**”



Unix

- Assembly vs Linguagem C

```
MAN(1)                                NetBSD General Commands Manual                                MAN(1)
NAME
    man - display the on-line manual pages (aka ``man pages'')
SYNOPSIS
    man [-acw|-h] [-C file] [-M path] [-m path] [-S srch] [[-s] section] name
    man [-k] [-C file] [-M path] [-m path] keyword ...
DESCRIPTION
    The man utility displays the BSD man pages entitled name.

    The options are as follows:

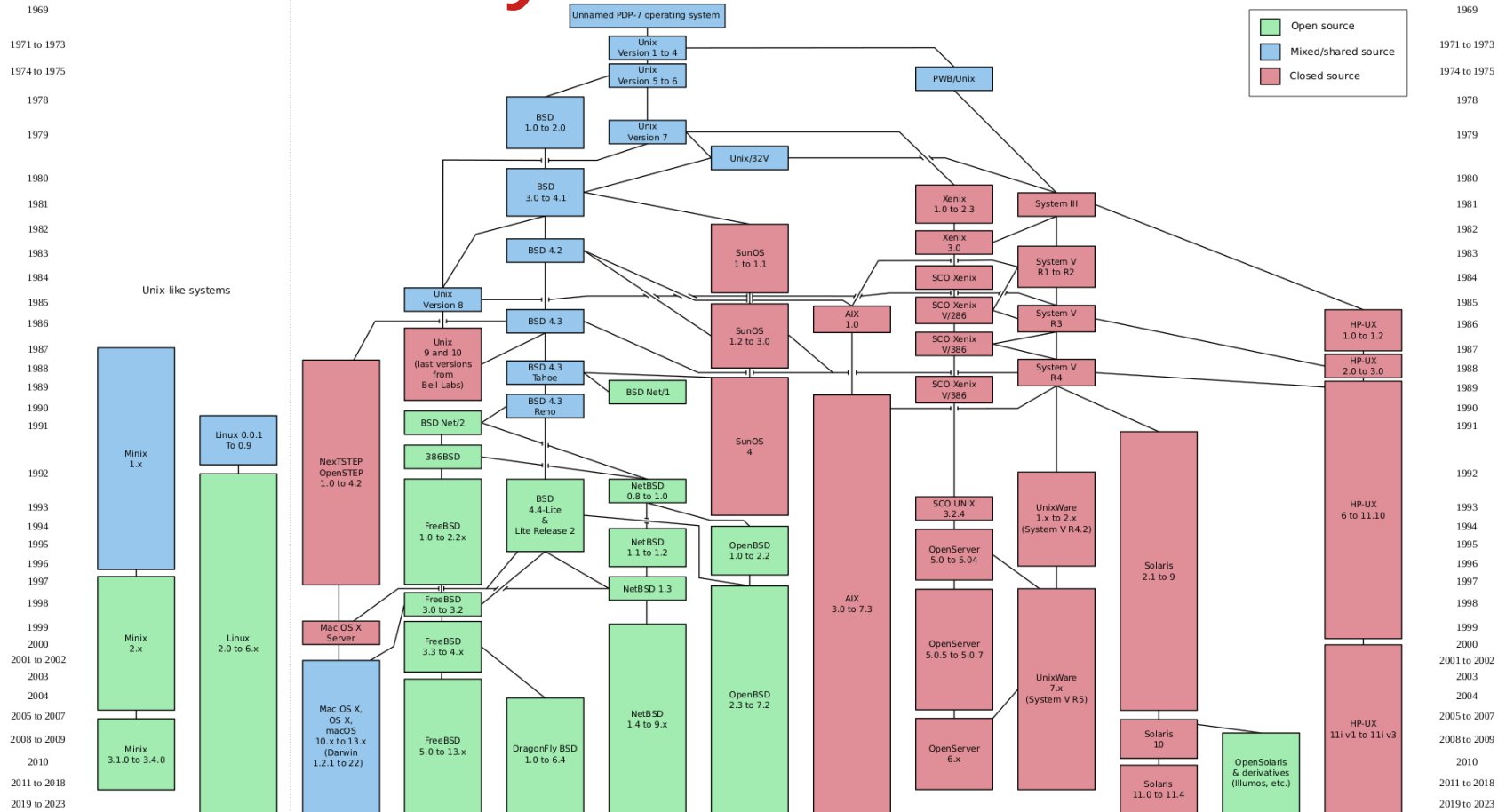
    -a      Display all of the man pages for a specified section and name
            combination. (Normally, only the first man page found is displayed.)

    -C      Use the specified file instead of the default configuration file.
            This permits users to configure their own man environment. See
            man.conf(5) for a description of the contents of this file.

/usr/share/man/cat1/man 0 20%
```

<https://pt.wikipedia.org/wiki/Unix#/media/Ficheiro:Man-man.png>

Unix History



https://upload.wikimedia.org/wikipedia/commons/7/77/Unix_history-simple.svg

Linux



Linus Benedict Torvalds



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 :-).



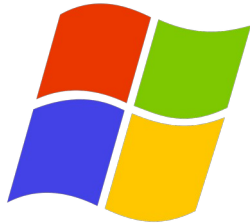
Imagens:

<https://fossbytes.com/wp-content/uploads/2016/08/linus-torvald-first-linux-email.png>

https://upload.wikimedia.org/wikipedia/commons/thumb/6/69/Linus_Torvalds.jpeg/440px-Linus_Torvalds.jpeg

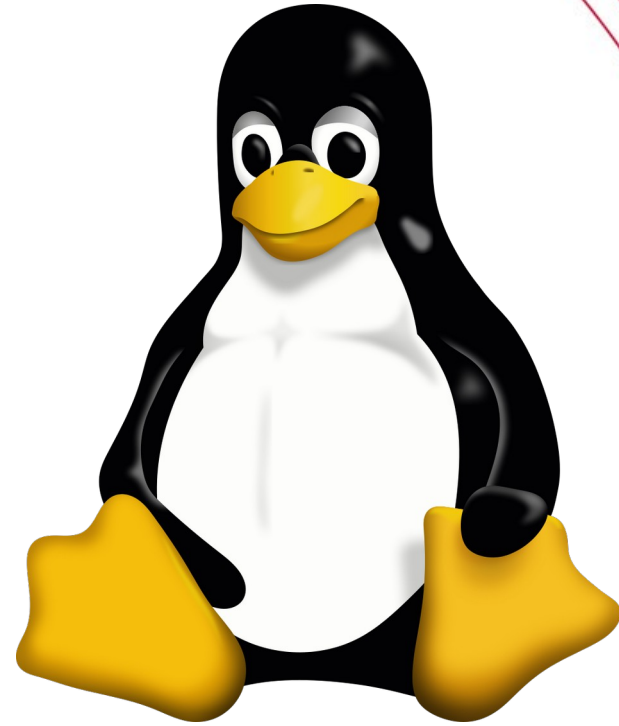
Sistemas operacionais

- Alguns exemplos:



Linux

- 2.09% do mercado de Desktops
- 47% devs usam linux
- 90% da nuvem
- 96.3% dos top um milhão de web servers
- 85% dos smartphones
- Todos os top500 supercomputadores
- 600+ distribuições (debian, redhat, arch)



<https://pt.wikipedia.org/wiki/Ficheiro:Tux.svg>

Rerefências

- <https://en.wikipedia.org/wiki/PDP-7>
- <https://pt.wikipedia.org/wiki/Unix>
- <https://pt.wikipedia.org/wiki/Linux>
- <https://fossbytes.com/linus-torvaldss-famous-email-first-linux-announcement/>
- <https://truelist.co/blog/linux-statistics/>