

Resources & Materials // 001-fundamentals

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What is a server

foss market

Public servers on the Internet

https://en.wikipedia.org/wiki/Usage_share_of_operating_systems#Public_servers_on_the_Internet

Technologies Overview

<https://w3techs.com/technologies>

Frequently Asked Questions

<https://w3techs.com/faq>

OS Market Share and Usage Trends

<https://web.archive.org/web/20150806093859/http://www.w3cook.com/os/summary/>

Usage of operating systems for websites

https://w3techs.com/technologies/overview/operating_system/all

processor dies

Intel to Keep Its Number One Semiconductor Supplier Ranking in 2020

<https://www.icinsights.com/news/bulletins/Intel-To-Keep-Its-Number-One-Semiconductor-Supplier-Ranking-In-2020/>

Top Semiconductor Sales Leaders – 1Q2020

<https://anysilicon.com/top-semiconductor-sales-leaders-1q2020/>

x86

Linus Torvalds Switches To AMD Ryzen Threadripper After 15 Years Of Intel Systems

https://www.phoronix.com/scan.php?page=news_item&px=Torvalds-Threadripper

Linux 5.7-rc7

https://lore.kernel.org/lkml/CAHk-=whan1CiRtcgBt-5SkW-ga_GeLH5+AO26RmK7vOA5yw9ng@mail.gmail.com/T/

Compiling a Benchmark for RISC-V

<https://www.youtube.com/watch?v=Q0jHbGQY9u0>

CPU 2020 Benchmarks

<https://www.anandtech.com/bench/CPU-2020/2974>

numa

INTRODUCTION 2016 NUMA DEEP DIVE SERIES

<https://frankdenneman.nl/2016/07/06/introduction-2016-numa-deep-dive-series/>

NUMA DEEP DIVE PART 1: FROM UMA TO NUMA

<https://frankdenneman.nl/2016/07/07/numa-deep-dive-part-1-uma-numa/>

NUMA Deep Dive Part 3: Cache Coherency

<https://frankdenneman.nl/2016/07/11/numa-deep-dive-part-3-cache-coherency/>

NUMA - Local memory

<https://stackoverflow.com/questions/7850862/numa-local-memory>

enterprise-class servers

AMD INTEGRATED ENTERPRISE SERVERS

<https://www.icc-usa.com/products/enterprise-servers/amd-integrated-enterprise-servers/>

GIGABYTE shows Cavium ThunderX2 ARM Server Portfolio

<https://www.youtube.com/watch?v=FMviiJaPHIE>

enterprise-class mobos

GIGABYTE C621 WD12 IPMI SERVER MOTHERBOARD

<https://www.gigabyte.com/FileUpload/Global/KeyFeature/1141/index.html>

ASRock Rack E3C246D4I 2T ASPEED AST2500

<https://www.servethehome.com/asrock-rack-e3c246d4i-2t-mitx-xeon-e-2200-review/asrock-rack-e3c246d4i-2t-aspeed-ast2500/>

ASRock Rack X570D4U 2L2T ASpeed AST2500 BMC

<https://www.servethehome.com/asrock-rack-x570d4u-2l2t-review-amd-ryzen-server-motherboard/asrock-rack-x570d4u-2l2t-aspeed-ast2500-bmc/>

Supermicro представила две серверные материнские платы для ADM EPYC

<https://www.hardwareluxx.ru/index.php/news/hardware/mainboards/42429-supermicro-is-launching-two-server-workstation-motherboards.html>

Supermicro X11SCL IF ASPEED AST2500 And Dual Intel LAN

<https://www.servethehome.com/supermicro-x11scl-if-mitx-server-motherboard-review/supermicro-x11scl-if-aspeed-ast2500-and-dual-intel-lan/>

Tyan Tomcat EX: The First AM4 Ryzen Motherboard with Management Control

<https://www.anandtech.com/show/12962/tyan-tomcat-ex-the-first-am4-ryzen-motherboard-with-management-control>

lights-out

Out-of-band management

https://en.wikipedia.org/wiki/Out-of-band_management

Intelligent Platform Management Interface

https://en.wikipedia.org/wiki/Intelligent_Platform_Management_Interface

Explaining the Baseboard Management Controller or BMC in Servers

<https://www.servethehome.com/explaining-the-baseboard-management-controller-or-bmc-in-servers/>

BMC

<https://www.gigabyte.com/Glossary/bmc>

AST2500

https://www.aspeedtech.com/server_ast2500/

UNIX history

Porting Linux to the DEC Alpha: The Kernel and Shell

<https://www.linuxjournal.com/article/1178>

SVR4 or BSD?

<https://www.unix.com/unix-for-advanced-and-expert-users/7653-svr4-bsd.html>

Jon “maddog” Hall talks Unix and Linux history

<https://www.youtube.com/watch?v=EZMA3Ge144U>

Operating systems

kernel

Mach (kernel)

[https://en.wikipedia.org/wiki/Mach_\(kernel\)](https://en.wikipedia.org/wiki/Mach_(kernel))

illumos

<https://en.wikipedia.org/wiki/Illumos> <https://www.illumos.org/>

Comparison of OpenSolaris distributions

https://en.wikipedia.org/wiki/Comparison_of_OpenSolaris_distributions

SmartOS

<https://en.wikipedia.org/wiki/SmartOS>

OmniOS

<https://omniosce.org/>

user-lands

Debian_GNUkFreeBSD_FAQ

https://wiki.debian.org/Debian_GNU/kFreeBSD_FAQ

oracle/solaris-userland

<https://github.com/oracle/solaris-userland>

The End of libc5: A Mini-Interview with H.J Lu

https://linuxgazette.net/issue32/tag_libc5.html

Linux libc

https://en.wikipedia.org/wiki/GNU_C_Library#Linux_libc

Software stali uses and/or might adopt

<https://sta.li/technologies/>

suckless linux base utils

<https://git.suckless.org/ubase/>

suckless unix tools

<https://git.suckless.org/sbase/>

Clang

<https://wiki.gentoo.org/wiki/Clang>

Init system

https://wiki.gentoo.org/wiki/Init_system

No systemd

<https://nosystemd.org/>

The Package System

<https://crux.nu/Main/Handbook2-3-Package>

distributions

Rolling release

https://en.wikipedia.org/wiki/Rolling_release

Devuan

<https://www.devuan.org/>

Free GNU/Linux distributions

<https://www.gnu.org/distros/free-distros.html>

NetBSD 9.0 release process has started
<https://mail-index.netbsd.org/netbsd-announce/2019/07/31/msg000301.html>

window managers

i3 - improved tiling wm
<https://i3wm.org/>

dwm - dynamic window manager
<https://dwm.suckless.org/>

ratpoison: Say good-bye to the rodent
<https://www.nongnu.org/ratpoison/>

Use X11 without a window manager
<https://github.com/patrickhaller/no-wm>

List of tiling window managers for X
https://en.wikipedia.org/wiki/Tiling_window_manager#List_of_tiling_window_managers_for_X

MATE Desktop Environment
<https://mate-desktop.org/>

KDE neon
<https://neon.kde.org/>