

crypto\_hash  
bblake512  
implementations  
amd64 Zen3  
amd64 Zen2  
amd64 Zen  
amd64 KnLanding  
amd64 CascadeLake  
amd64 SL+512x2  
amd64 IceLake  
amd64 CometLake  
amd64 CannonLake  
amd64 CoffeeLake  
amd64 KabyLake  
amd64 Skylake  
amd64 BW+AES  
amd64 HW+AES  
amd64 IB+AES  
amd64 SB+AES  
amd64 Sandy Bridge  
amd64 Piledriver  
amd64 Bulldozer  
amd64 Westmere  
amd64 C2 65nm  
amd64 K10 32nm  
amd64 K10 45nm  
amd64 K10 65nm  
amd64 Airmont  
amd64 Goldmont  
amd64 K8  
amd64 Bobcat  
amd64 Atom  
ppc32 G3  
riscv64 U54  
mipso32 Ocheon II  
armeabi Armada  
armeabi Cortex-A7  
armeabi Cortex-A8  
armeabi Cortex-A9+NEON  
armeabi Cortex-A15  
aarch64 X-Gene  
aarch64 A53  
aarch64 A53+crypto  
aarch64 A57+crypto  
aarch64 A72  
aarch64 A72+crypto  
aarch64 ThunderX2

? : xop

https://bench.cr.yp.to  
20230113

beelink: 6 x 4062MHz; 2021 AMD Ryzen 5 5600U; amd64; Zen3 (a50f00); supercop-20221122
zen3: 16 x 3400MHz; 2020 AMD Ryzen 9 5950X; amd64; Zen3 (a20f10); supercop-20220213
gej1346: 64 x 2000MHz; 2019 AMD EPYC 7702; amd64; Zen2 (830f10); supercop-20191017
ryzen: 8 x 2994MHz; 2017 AMD Ryzen 7 1700; amd64; Zen (800f11); supercop-20170904
rabat7: 8 x 3000MHz; 2017 AMD Ryzen 7 1700; amd64; Zen (800f11); supercop-20220606
rabat6: 6 x 3200MHz; 2017 AMD Ryzen 5 1600; amd64; Zen (800f11); supercop-20220606
rabat3: 4 x 3100MHz; 2017 AMD Ryzen 3 1200; amd64; Zen (800f11); supercop-20200906
gej1291: 68 x 1400MHz; 2016 Intel Xeon Phi 7250; amd64; KnLanding (50671); supercop-20180818
gej1154: 64 x 1300MHz; 2016 Intel Xeon Phi 7210; amd64; KnLanding (50671); supercop-20170228
avx512aath: 18 x 3000MHz; 2019 Intel Core i9-10900XE; amd64; CascadeLake (50657); supercop-20210126
pmo0876: 20 x 2500MHz; 2019 Intel Xeon Gold 6248; amd64; CascadeLake (50657); supercop-20191017
aanay1024: 18 x 2700MHz; 2017 Intel Xeon Gold 6150; amd64; SL+512x2 (50654); supercop-20170804
ph1: 6 x 3500MHz; 2017 Intel Core i7-7800X; amd64; SL+512x2 (50654); supercop-20181123
pmo0903: 20 x 2400MHz; 2017 Intel Xeon Gold 6148; amd64; BW+AES (50654); supercop-20191017
gej1548: 40 x 2400MHz; 2017 Intel Xeon Gold 6148; amd64; SL+512x2 (50654); supercop-20191017
gej1338: 32 x 2100MHz; 2017 Intel Xeon Gold 6130; amd64; BW+AES (50654); supercop-20211122
icelake2: 4 x 1000MHz; 2019 Intel Core i3-1035G1; amd64; IceLake (706e5); supercop-20221008
icelake: 4 x 1100MHz; 2020 Intel Core i5-1030NG7; amd64; IceLake (706e5); supercop-20200826
comet: 2 x 2100MHz; 2019 Intel Core i3-10110U; amd64; CometLake (806e); supercop-20221026
cannon: 2 x 2200MHz; 2018 Intel Core i3-8121U; amd64; CannonLake (60663); supercop-20191010
r2400: 4 x 3300MHz; 2018 Intel Xeon E-2124; amd64; CoffeeLake (906ea); supercop-20221019
bitvis: 6 x 3200MHz; 2017 Intel Core i7-8700; amd64; CoffeeLake (906ea); supercop-20191010
ebrothera: 2 x 2400MHz; 2017 Intel Core i3-7100; amd64; KabyLake (806d9); supercop-20221122
kiwoha: 4 x 3000MHz; 2017 Intel Xeon E3-1220 v6; amd64; KabyLake (906d9); supercop-20220606
intelauic8: 4 x 3100MHz; 2018 Intel Core i7-8809G; amd64; KabyLake (906d9); supercop-20191017
saat: 2 x 3300MHz; 2015 Intel Pentium G4400; amd64; Skylake (506e3); supercop-20171218
saaba: 4 x 3000MHz; 2015 Intel Xeon E3-1220 v5; amd64; Skylake (506e3); supercop-20221122
gej1441: 28 x 2400MHz; 2016 Intel Xeon E5-2680 v4; amd64; BW+AES (406f1); supercop-20180818
aanay087: 14 x 2400MHz; 2016 Intel Xeon E5-2680 v4; amd64; BW+AES (406f1); supercop-20170228
gej1122: 28 x 2400MHz; 2016 Intel Xeon E5-2680 v4; amd64; BW+AES (406f1); supercop-20171020
beelink8: 8 x 1500MHz; 2015 Intel Core i5-5200U; amd64; BW+AES (406f1); supercop-20221122
gej1462: 20 x 2300MHz; 2014 Intel Xeon E5-2650 v4; amd64; HW+AES (30627); supercop-20180818
gej1202: 24 x 2500MHz; 2014 Intel Xeon E5-2680 v3; amd64; HW+AES (30627); supercop-20171020
rabat04: 12 x 2500MHz; 2014 Intel Xeon E5-2680 v3; amd64; HW+AES (30627); supercop-20221122
titand: 4 x 3500MHz; 2013 Intel Xeon E5-1275 V2; amd64; HW+AES (306c3); supercop-20221122
kiwoha: 4 x 3100MHz; 2013 Intel Xeon E3-1220 v5; amd64; HW+AES (306c3); supercop-20221122
aanay13: 12 x 2700MHz; 2013 Intel Xeon E5-2697 v2; amd64; IB+AES (306e4); supercop-20180818
hydra8: 4 x 3500MHz; 2012 Intel Xeon E3-1275 V2; amd64; IB+AES (306e9); supercop-20221122
bedera: 4 x 2500MHz; 2012 Intel Xeon E3-1265L V2; amd64; IB+AES (306e9); supercop-20210326
robin281: 8 x 2600MHz; 2012 Intel Xeon E5-4650L; amd64; SB+AES (206d7); supercop-20170228
h6aandy: 2 x 2100MHz; 2011 Intel Core i3-2310M; amd64; Sandy Bridge (206a7); supercop-20200618
hydra9: 2 x 3800MHz; 2012 AMD A10-5800K; amd64; Piledriver (610f01); supercop-20171218
lbtirsty1: 2 x 2000MHz; 2012 AMD A10-4655M; amd64; Piledriver (610f01); supercop-20200618
babbar: 4 x 4000MHz; 2012 AMD FX-8350; amd64; Bulldozer (600f20); supercop-20171218
calvian: 4 x 4000MHz; 2012 AMD FX-8350; amd64; Bulldozer (600f20); supercop-20171218
hydra6: 4 x 3100MHz; 2011 AMD FX-8120; amd64; Bulldozer (600f20); supercop-20171218
abbar14: 4 x 4000MHz; 2012 AMD FX-8350; amd64; Bulldozer (600f20); supercop-20220606
glywa: 2 x 3300MHz; 2010 Intel Core i5-650; amd64; Westmere (20652); supercop-20171010
katana: 2 x 2137MHz; 2006 Intel Core 2 Duo E6400; amd64; C2 65nm (6f6); supercop-20171010
nargaus: 4 x 2404MHz; 2007 Intel Core 2 Quad Q6600; amd64; C2 65nm (6f6); supercop-20221122
latour: 4 x 2394MHz; 2007 Intel Core 2 Quad Q6600; amd64; C2 65nm (6f6); supercop-20201130
hydra5: 4 x 2900MHz; 2011 AMD A8-3850; amd64; K10 32nm (300f10); supercop-20191221
hydra6: 6 x 3300MHz; 2010 AMD Phenom II X6 1100T; amd64; K10 45nm (100f00); supercop-20171218
norstagat: 4 x 3200MHz; 2009 AMD Phenom II X4 955; amd64; K10 45nm (100f42); supercop-20170904
h3wo: 1 x 1700MHz; 2010 AMD Athlon II Neo K125; amd64; K10 45nm (100f63); supercop-20171010
gcc16: 8 x 2194MHz; 2008 AMD Opteron 8354; amd64; K10 65nm (100f23); supercop-20171218
mucacu: 4 x 1600MHz; 2015 Intel Pentium N3700; amd64; Airmont (406c3); supercop-20221122
voodea: 4 x 1500MHz; 2016 Intel Celeron J3455; amd64; Goldmont (506c9); supercop-20221122
scv163n1: 16 x 2100MHz; 2017 Intel Atom C3955; amd64; Goldmont (506f1); supercop-20191017
sace: 2 x 2000MHz; 2006 AMD Athlon 64 X2; amd64; K8 (40fb2); supercop-20171010
bBobcat: 2 x 1650MHz; 2011 AMD G-T56M; amd64; Bobcat (500f10); supercop-20171218
h4e80: 2 x 1650MHz; 2011 AMD E-450; amd64; Bobcat (500f20); supercop-20200618
hlatoa: 2 x 1866MHz; 2011 Intel Atom D2500; amd64; Atom (306f1); supercop-20200618
nintendowilliams: 1 x 729MHz; 2006 IBM PowerPC Broadway; ppc32; G3 (G3); supercop-20191221
hifiveu5aashadricv: 4 x 1400MHz; 2017 SiFive Freedom U54; riscv64; U54 (sifive,u54-mc); supercop-20191221
riscvua54shad800: 4 x 1000MHz; 2017 SiFive Freedom U54; riscv64; U54 (sifive,u54-mc); supercop-20210326
gcc23: 2 x 2000MHz; 2011 Cavium Octeon II CN6120; mipso32; Octeon II (cnnips64v2); supercop-20221122
egproffat2: 2 x 2000MHz; 2011 Cavium Octeon II CN6120; mipso32; Octeon II (cnnips64v2); supercop-20220213
tonido: 1 x 1200MHz; 2010 Marvell Armada 310; armeabi; Armada (562f1311); supercop-20170718
berry2: 4 x 900MHz; 2016 Broadcom BCM2836; armeabi; Cortex-A7 (410fc075); supercop-20221122
tblack: 1 x 1000MHz; 2012 TI Sitara XAM3359AZCZ100; armeabi; Cortex-A8 (413fc082); supercop-20221005
novealbu: 4 x 1200MHz; 2011 Freescale i.MX6 Quad; armeabi; Cortex-A9+NEON (412fc09a); supercop-20200702
artix: 4 x 1200MHz; 2012 Samsung Exynos 4412; armeabi; Cortex-A9+NEON (413fc090); supercop-20191221
novealbu6: 4 x 1200MHz; 2011 Freescale i.MX6 Quad; armeabi; Cortex-A9+NEON (412fc09a); supercop-20211221
jetsontat: 4 x 2065MHz; 2014 NVIDIA Tegra K1; armeabi; Cortex-A15 (413fc0f3); supercop-20170726
gcc116: 8 x 1600MHz; 2014 APM 88320B-X1; aarch64; X-Gene (500f0000); supercop-20171218
pi3plus: 4 x 1400MHz; 2018 Broadcom BCM2837B0; aarch64; A53 (410f034); supercop-20221122
pi3plus: 4 x 1400MHz; 2018 Broadcom BCM2837B0; aarch64; A53 (410f034); supercop-20221122
par3: 4 x 2000MHz; 2015 Amlogic S905; aarch64; A53+crypto (410f034); supercop-20170718
tanu6: 8 x 1600MHz; 2015 NXP QorIQ LS1088; aarch64; A53+crypto (410f034); supercop-20210604
lepotatoa9b8cc: 4 x 1312MHz; 2016 Amlogic S900X; aarch64; A53+crypto (410f034); supercop-20191221
congaccara1dw: 4 x 1500MHz; 2018 NXP i.MX 8M; aarch64; A53+crypto (410f034); supercop-20191221
rengadesfor888cc: 4 x 1312MHz; 2017 Rockchip RK3288; aarch64; A53+crypto (410f034); supercop-20211122
jetsontat: 4 x 1734MHz; 2015 NVIDIA Tegra X1; aarch64; A57+crypto (418f071); supercop-20191017
warbaar: 8 x 2000MHz; 2016 AMD Opteron A1100; aarch64; A57+crypto (411f072); supercop-20200826
pi4b: 4 x 1500MHz; 2019 Broadcom BCM2711; aarch64; A72 (410f083); supercop-20221122
pi4abstus64: 4 x 1500MHz; 2019 Broadcom BCM2711; aarch64; A72 (410f083); supercop-20191221
a7: 2 x 2100MHz; 2015 Mediatek MT8173; aarch64; A72+crypto (418f080); supercop-20170904
pmo0146: 64 x 2500MHz; 2018 Cavium ThunderX2 CN980; aarch64; ThunderX2 (431f0af1); supercop-20191017

Time

8192

16384