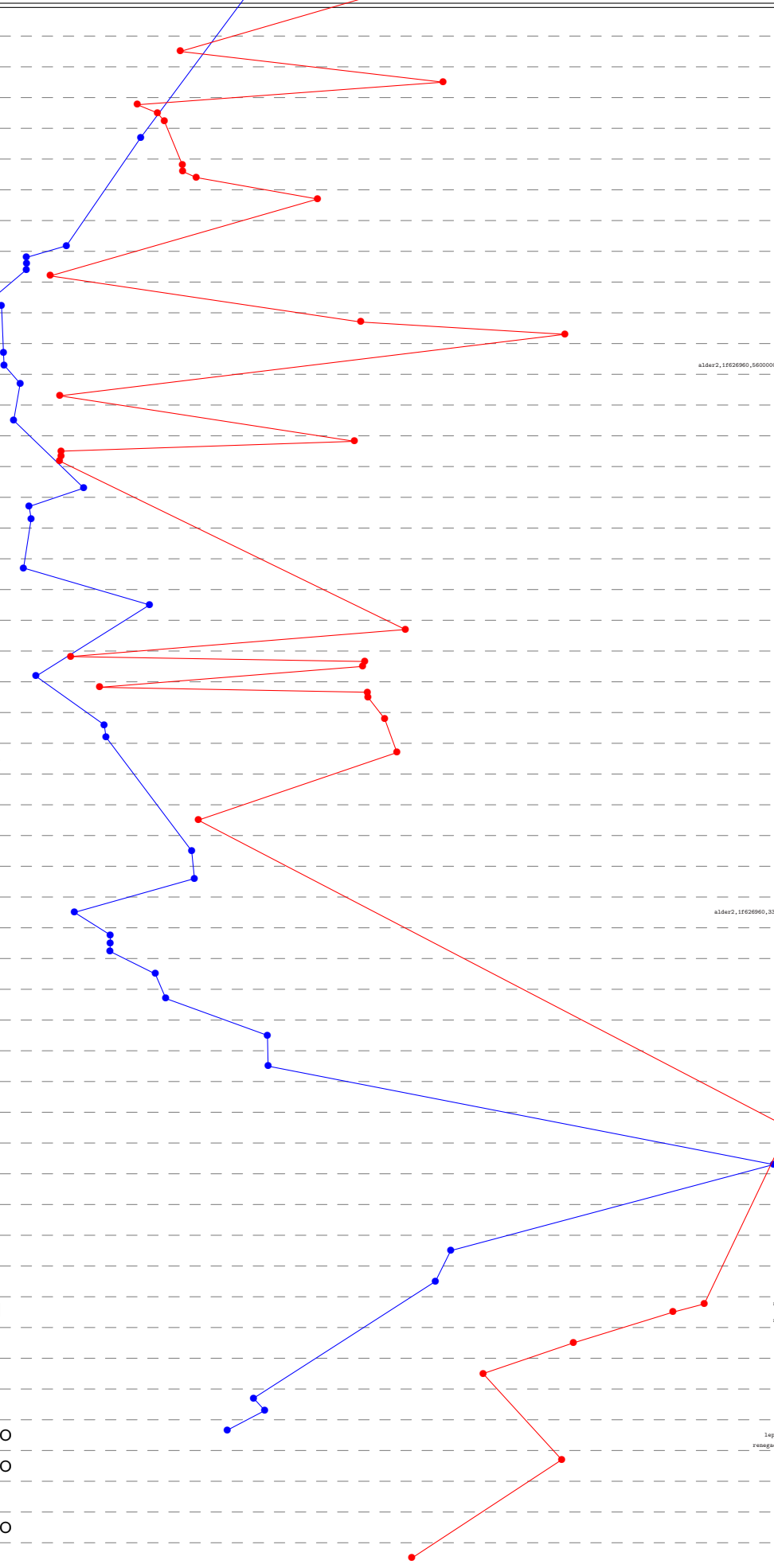


- crypto_sign
- ecdna1dp256
- implementations
- amd64 Bobcat
- amd64 K8
- amd64 K10 65nm
- amd64 K10 45nm
- amd64 K10 32nm
- amd64 Bulldozer
- amd64 Piledriver
- amd64 Zen
- amd64 Zen 2
- amd64 Zen 3
- amd64 Knights Landing
- amd64 Golden Cove
- amd64 Cascade Lake
- amd64 Tiger Lake
- amd64 Skylake+512x2
- amd64 Ice Lake
- amd64 Comet Lake
- amd64 Cannon Lake
- amd64 Coffee Lake
- amd64 Kaby Lake
- amd64 Skylake
- amd64 Broadwell+AES
- amd64 Haswell+AES
- amd64 Ivy Bridge+AES
- amd64 Sandy Bridge+AES
- amd64 Sandy Bridge
- amd64 Westmere
- amd64 Core 2 45nm
- amd64 Core 2 65nm
- amd64 Gracemont
- amd64 Tremont
- amd64 Goldmont Plus
- amd64 Goldmont
- amd64 Airmont
- amd64 Silvermont
- amd64 Bonnell
- ppc32 G3
- riscv64 U54
- mpipso32 Ocheon II
- armeabi Armada
- armeabi Cortex-A7
- armeabi Cortex-A8
- armeabi Cortex-A9+NEON
- armeabi Cortex-A15
- aarch64 X-Gene
- aarch64 Cortex-A53
- aarch64 Cortex-A53+crypto
- aarch64 Cortex-A57+crypto
- aarch64 Cortex-A72
- aarch64 Cortex-A72+crypto
- aarch64 ThunderX2
- Time

T:opensslnew

:openssl

https://bench.cr.y.p.to
20230702



hBobcat: 2 x 1650MHz; 2011 AMD G-T56n; amd64; Bobcat (500F10); supercop-20230630
 h4450: 2 x 1650MHz; 2011 AMD E-450; amd64; Bobcat (500F20); supercop-20200618

saa: 2 x 2000MHz; 2006 AMD Athlon 64 X2; amd64; K8 (40f2); supercop-20170105

gc16: 8 x 2194MHz; 2008 AMD Opteron 8354; amd64; K10 65nm (100f23); supercop-20171218

hydra3: 6 x 3300MHz; 2010 AMD Phenom II X6 1100T; amd64; K10 45nm (100f40); supercop-20171218
 sornjastar: 4 x 3200MHz; 2009 AMD Phenom II X4 955; amd64; K10 45nm (100f42); supercop-20170904
 h3wae: 1 x 1700MHz; 2010 AMD Athlon II Neo K125; amd64; K10 45nm (100f63); supercop-20170105

hydra4: 4 x 2600MHz; 2011 AMD A6-3650; amd64; K10 32nm (300F10); supercop-20230630
 hydra5: 4 x 2900MHz; 2011 AMD A8-3850; amd64; K10 32nm (300F10); supercop-20230630
 bobcat: 4 x 4000MHz; 2012 AMD FX-8350; amd64; Bulldozer (600F20); supercop-20171218
 calista: 4 x 4000MHz; 2012 AMD FX-8350; amd64; Bulldozer (600F20); supercop-20171218
 hydra6: 4 x 3100MHz; 2013 AMD FX-8120; amd64; Bulldozer (600F12); supercop-20171218
 saher151: 4 x 4000MHz; 2012 AMD FX-8350; amd64; Bulldozer (600F20); supercop-20230630

hydra9: 2 x 3800MHz; 2012 AMD A10-5800K; amd64; Piledriver (610F11); supercop-20171218
 sbrariaty: 2 x 2000MHz; 2012 AMD A10-6655M; amd64; Piledriver (610F11); supercop-20200618

zenae: 8 x 3000MHz; 2017 AMD Ryzen 7 1700; amd64; Zen (800H11); supercop-20170865
 zenab: 8 x 3000MHz; 2017 AMD Ryzen 7 1700; amd64; Zen (800H11); supercop-20170865
 zenba: 4 x 3100MHz; 2017 AMD Ryzen 3 3300; amd64; Zen (800H11); supercop-20221122
 zenbc: 4 x 3100MHz; 2017 AMD Ryzen 3 3300; amd64; Zen (800H11); supercop-20221122
 dali: 2 x 3400MHz; 2019 AMD Athlon Silver E3000; amd64; Zen 2 (830F11); supercop-20191017

zenod: 64 x 2250MHz; 2019 AMD EPYC 7742; amd64; Zen 2 (830F10); supercop-20230630
 zenod2: 6 x 3000MHz; 2022 AMD Ryzen 5 4500U; amd64; Zen 2 (860H01); supercop-20230630
 lucienne: 4 x 2600MHz; 2021 AMD Ryzen 9 9950X; amd64; Zen 3 (c50F10); supercop-20230630
 gwj1346: 64 x 2000MHz; 2019 AMD EPYC 7702; amd64; Zen 2 (830F10); supercop-20191017

bealins: 6 x 4062MHz; 2021 AMD Ryzen 5 5600G; amd64; Zen 3 (a50F00); supercop-20210211
 saah: 16 x 3400MHz; 2020 AMD Ryzen 9 9950X; amd64; Zen 3 (c50F10); supercop-20230630
 cezanne: 6 x 3900MHz; 2021 AMD Ryzen 5 PRO 5650G; amd64; Zen 3 (a50F00); supercop-20230630

gwj1291: 68 x 1400MHz; 2016 Intel Xeon Phi 7250; amd64; Knights Landing (50671); supercop-20180818
 gwj1154: 64 x 1300MHz; 2016 Intel Xeon Phi 7210; amd64; Knights Landing (50671); supercop-20170228

alder: 4 x 3300MHz; 2022 Intel Core i3-12100; amd64; Golden Cove (90673-00); supercop-20230630
 alder2.1f26290.5600000: 2 x 1600MHz; 2022 Intel Core i3-1215U performance cores; amd64; Golden Cove (906A4-40); supercop-20230630

avx512naoh: 18 x 3000MHz; 2019 Intel Core i9-10980XE; amd64; Cascade Lake (50657); supercop-20201126
 pmso476: 20 x 2500MHz; 2019 Intel Xeon Gold 6248; amd64; Cascade Lake (50657); supercop-20191017

panzhar: 4 x 2800MHz; 2020 Intel Core i7-1165G7; amd64; Tiger Lake (806c1); supercop-20230630

sanmy1024: 18 x 2100MHz; 2017 Intel Xeon Gold 6150; amd64; Skylake (706e4); supercop-20171024
 sanmy1024: 8 x 2500MHz; 2017 Intel Core i7-7700; amd64; Skylake (706e4); supercop-20171024
 sanmy1024: 18 x 2100MHz; 2017 Intel Core i7-7700; amd64; Skylake (706e4); supercop-20171024
 gwj1298: 30 x 2400MHz; 2017 Intel Xeon Gold 6150; amd64; Skylake (706e4); supercop-20191017
 gwj1298: 30 x 2400MHz; 2017 Intel Xeon Gold 6150; amd64; Skylake (706e4); supercop-20191017

icelake2: 4 x 1000MHz; 2019 Intel Core i3-1035G1; amd64; Ice Lake (706e5); supercop-20221005
 icelake2: 4 x 1100MHz; 2020 Intel Core i5-1030NG7; amd64; Ice Lake (706e5); supercop-20200626

cus10: 2 x 2100MHz; 2019 Intel Core i3-10110U; amd64; Comet Lake (806ec); supercop-20230630
 coast: 2 x 2100MHz; 2019 Intel Core i3-10110U; amd64; Comet Lake (806ec); supercop-20230630

cannon: 2 x 2200MHz; 2018 Intel Core i3-8121U; amd64; Cannon Lake (90663); supercop-20190910

r2000: 4 x 3300MHz; 2018 Intel Xeon E-2134; amd64; Coffee Lake (906a3); supercop-20230630
 r2000: 4 x 3300MHz; 2018 Intel Xeon E-2134; amd64; Coffee Lake (906a3); supercop-20230630
 ivyriae: 6 x 3200MHz; 2017 Intel Core i7-8700; amd64; Coffee Lake (906a3); supercop-20190910

kiyamba: 4 x 3000MHz; 2017 Intel Xeon E3-1220 v6; amd64; Kaby Lake (906e9); supercop-20230630
 shoshura: 2 x 2400MHz; 2017 Intel Core i3-7100; amd64; Kaby Lake (906e9); supercop-20221122
 itastalac1: 4 x 3100MHz; 2018 Intel Core i7-8809G; amd64; Kaby Lake (906e9); supercop-20191017

saah: 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-20230630

gwj1141: 28 x 2200MHz; 2016 Intel Xeon E5-2650 v4; amd64; Broadwell+AES (406f1); supercop-20180818
 sanmy1024: 18 x 2100MHz; 2016 Intel Xeon E5-2650 v4; amd64; Broadwell+AES (406f1); supercop-20170228
 sanmy1024: 18 x 2100MHz; 2016 Intel Xeon E5-2650 v4; amd64; Broadwell+AES (406f1); supercop-20170228
 bolsh: 18 x 1700MHz; 2016 Intel Xeon E5-2650 v4; amd64; Broadwell+AES (406f1); supercop-20230630
 bolsh: 18 x 1700MHz; 2016 Intel Xeon E5-2650 v4; amd64; Broadwell+AES (406f1); supercop-20230630

gwj1145: 20 x 2200MHz; 2014 Intel Xeon E5-2650 v3; amd64; Haswell+AES (306e2); supercop-20191018
 hml1024: 18 x 2100MHz; 2014 Intel Xeon E5-2650 v3; amd64; Haswell+AES (306e2); supercop-20191018
 gwj1298: 30 x 2400MHz; 2013 Intel Xeon E3-1275 V2; amd64; Ivy Bridge+AES (306e9); supercop-20230630
 gwj1298: 30 x 2400MHz; 2013 Intel Xeon E3-1275 V2; amd64; Ivy Bridge+AES (306e9); supercop-20230630

sanmy613: 12 x 2700MHz; 2013 Intel Xeon E5-2697 v2; amd64; Ivy Bridge+AES (306e4); supercop-20180818
 sanmy613: 12 x 2700MHz; 2013 Intel Xeon E5-2697 v2; amd64; Ivy Bridge+AES (306e4); supercop-20180818
 hanaiv3: 2 x 1800MHz; 2012 Intel Core i5-3427U; amd64; Ivy Bridge+AES (306e9); supercop-20230630
 hydra8: 4 x 3500MHz; 2012 Intel Core i3-2735 V2; amd64; Sandy Bridge+AES (206a7); supercop-20230630
 bedera: 4 x 2500MHz; 2012 Intel Xeon E3-1265L V2; amd64; Ivy Bridge+AES (306e9); supercop-20210326

rob1281: 8 x 2600MHz; 2012 Intel Xeon E5-4650L; amd64; Sandy Bridge+AES (206a7); supercop-20170228
 hydra7: 4 x 3100MHz; 2011 Intel Xeon E3-1225; amd64; Sandy Bridge+AES (206a7); supercop-20230630

hfsandy: 2 x 2100MHz; 2011 Intel Core i3-2310M; amd64; Sandy Bridge (206a7); supercop-20221122

glyse: 2 x 3200MHz; 2010 Intel Core i5-650; amd64; Westmere (20652); supercop-20170105

voirdale: 2 x 3060MHz; 2009 Intel Core 2 Duo E7600; amd64; Core 2 45nm (1067a); supercop-20230630

katana: 2 x 2137MHz; 2006 Intel Core 2 Duo E6400; amd64; Core 2 65nm (6f6); supercop-20170105
 trsdart: 2 x 2000MHz; 2007 Intel Core 2 Duo T7300; amd64; Core 2 65nm (6f6); supercop-20230630
 nargad: 4 x 2604MHz; 2007 Intel Core 2 Quad Q6600; amd64; Core 2 65nm (6f6); supercop-20230630
 lafour: 4 x 2394MHz; 2007 Intel Core 2 Quad Q6600; amd64; Core 2 65nm (6f6); supercop-20201130

alder2.1f26290.3300000: 4 x 1600MHz; 2022 Intel Core i3-1215U efficiency cores; amd64; Gracemont (906A4-20); supercop-20230630

jasper2: 2 x 1100MHz; 2021 Intel Celeron N4500; amd64; Tremont (906c0); supercop-20230630
 jaspar3: 4 x 2000MHz; 2021 Intel Celeron N5105; amd64; Tremont (906c0); supercop-20230630
 jaspar: 4 x 1100MHz; 2021 Intel Pentium Silver N6000; amd64; Tremont (906c0); supercop-20230630

genisi: 2 x 1100MHz; 2019 Intel Celeron N4020; amd64; Goldmont Plus (706a8); supercop-20230630

wooden: 4 x 1500MHz; 2016 Intel Celeron J3455; amd64; Goldmont (506c9); supercop-20230630
 sov1M8h1: 16 x 2100MHz; 2017 Intel Atom C3955; amd64; Goldmont (506f1); supercop-20191017

mcsmc: 4 x 1600MHz; 2015 Intel Pentium N3700; amd64; Airmont (406c3); supercop-20230630

cherry: 4 x 1440MHz; 2016 Intel Atom i5-2835U; amd64; Silvermont (406c4); supercop-20230630

hbaton: 2 x 1866MHz; 2011 Intel Atom D2500; amd64; Bonnell (306f1); supercop-20230630

alntendosillluzang: 1 x 729MHz; 2006 IBM PowerPC Broadway; ppc32; G3 (G3); supercop-20191221

hlfiveunleashedrelic: 4 x 1400MHz; 2017 SiFive Freedom U540; riscv64; U54 (sfive,u54-mc); supercop-20191221
 riscvunleashed000: 4 x 1000MHz; 2017 SiFive Freedom U540; riscv64; U54 (sfive,u54-mc); supercop-20210326

gcc23: 2 x 2000MHz; 2011 Cavium Octeon II CN6120; mpipso32; Octeon II (cmnipp64v2); supercop-20230630
 expyoffa2: 2 x 2000MHz; 2011 Cavium Octeon II CN6120; mpipso32; Octeon II (cmnipp64v2); supercop-20220213

teside: 1 x 1200MHz; 2010 Marvel Armada 310; armeabi; Armada (562f311); supercop-20170718

berry2: 4 x 900MHz; 2016 Broadcom BCM2836; armeabi; Cortex-A7 (410fc075); supercop-20230630

hblack: 1 x 1000MHz; 2012 TI Sitara XAM3359AZCZ100; armeabi; Cortex-A8 (413fc082); supercop-20230630

novavealix: 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
 novevealix: 4 x 1200MHz; 2011 Freescale i.MX6 Quad; armeabi; Cortex-A9+NEON (412fc09a); supercop-20191221

jetsontxt: 4 x 2065MHz; 2014 NVIDIA Tegra K1; armeabi; Cortex-A15 (413fc0f3); supercop-20170726

gcc116: 8 x 1600MHz; 2014 APM 88320B-X1; aarch64; X-Gene (500f000); supercop-20171218

pi3hplia: 4 x 1400MHz; 2018 Broadcom BCM2837B0; aarch64; Cortex-A53 (410fd034); supercop-20230630
 pi3hplia: 4 x 1400MHz; 2018 Broadcom BCM2837B0; aarch64; Cortex-A53 (410fd034); supercop-20221122

leufs: 4 x 1600MHz; 2015 Ampere AP900; aarch64; Cortex-A53+crypto (410fd034); supercop-20171014
 leptostanislav: 4 x 1600MHz; 2015 Ampere AP900; aarch64; Cortex-A53+crypto (410fd034); supercop-20171014
 gogiacracraia: 4 x 1600MHz; 2015 NXP i.MX 8M; aarch64; Cortex-A53+crypto (410fd034); supercop-20191221
 renegeadefec320cc: 4 x 1600MHz; 2015 Freescale i.MX 8M; aarch64; Cortex-A53+crypto (410fd034); supercop-20191221

jetsontxt: 4 x 1734MHz; 2015 NVIDIA Tegra X1; aarch64; Cortex-A57+crypto (418fd071); supercop-20191017
 warbear: 8 x 2000MHz; 2016 AMD Opteron A1100; aarch64; Cortex-A57+crypto (411fd072); supercop-20200626

pi4h: 4 x 1500MHz; 2019 Broadcom BCM2711; aarch64; Cortex-A72 (410fd083); supercop-20221122
 rpi4bun64: 4 x 1500MHz; 2019 Broadcom BCM2711; aarch64; Cortex-A72 (410fd083); supercop-20191221

a7: 2 x 2100MHz; 2015 Mediatek MT8173; aarch64; Cortex-A72+crypto (418fd080); supercop-20170904

pmo445: 64 x 2500MHz; 2018 Cavium ThunderX2 CN9980; aarch64; ThunderX2 (431fdaf1); supercop-20191017

524288 2097152 8388608