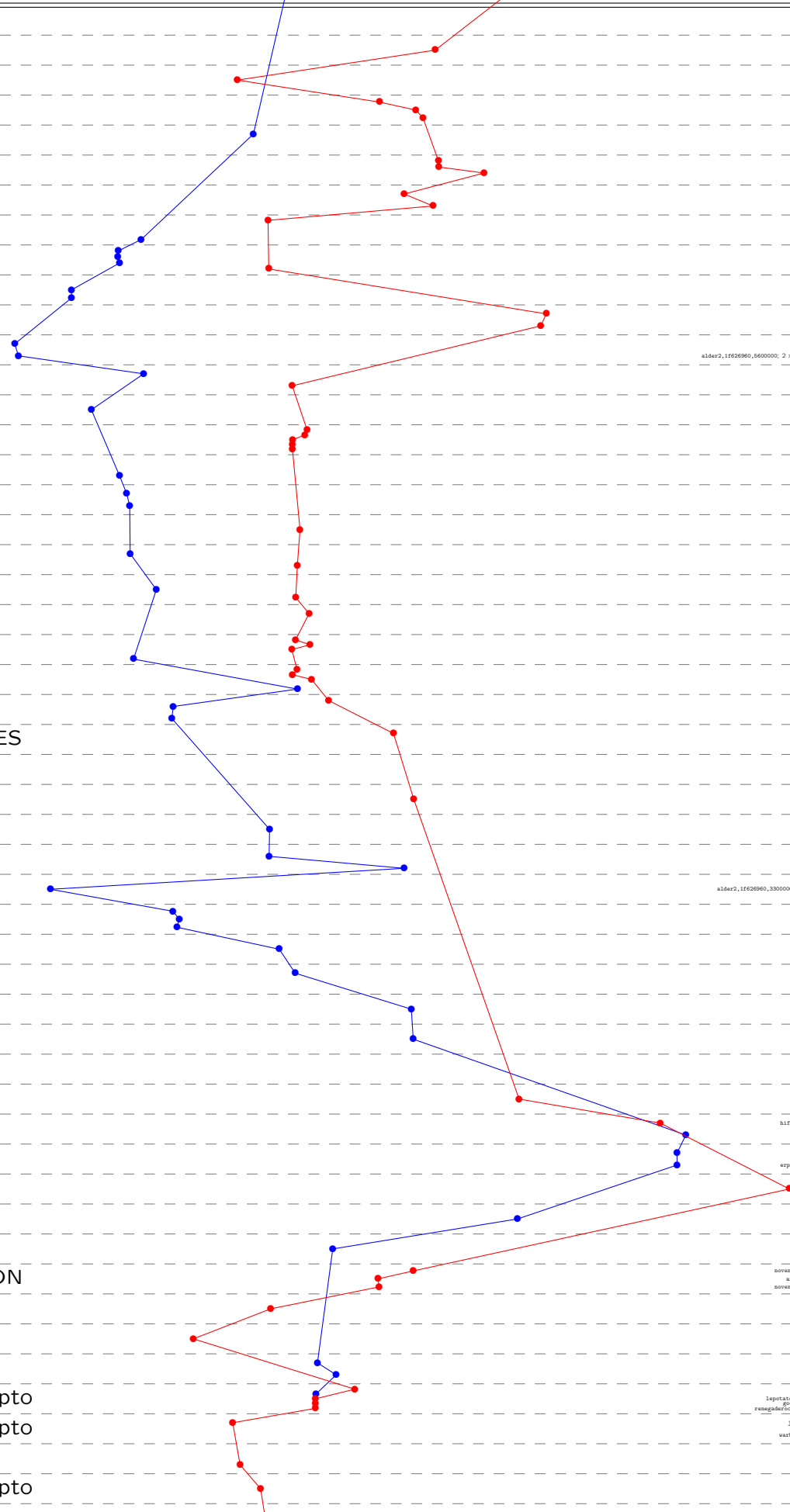


crypto_aead
cba2
implementations
amd64 Bobcat
amd64 K8
amd64 K10 65nm
amd64 K10 45nm
amd64 K10 32nm
amd64 Bulldozer
amd64 Piledriver
amd64 Zen
amd64 Zen 2
amd64 Zen 3
amd64 Knights Landing
amd64 Golden Cove
amd64 Cascade Lake
amd64 Tiger Lake
amd64 Skylake+512x2
amd64 Ice Lake
amd64 Comet Lake
amd64 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
mipso32 Octeon 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

T:ref

?:ref

https://bench.cr.jp.to
20230702



bobcat: 2 x 1650MHz; 2011 AMD G-T56N; amd64; Bobcat (600F10);	supercep-20230630
h4450: 2 x 1650MHz; 2011 AMD E-450; amd64; Bobcat (600F20);	supercep-20200618
naaa: 2 x 2000MHz; 2006 AMD Athlon 64 X2; amd64; K8 (40f2b);	supercep-20170105
gcc16: 8 x 2194MHz; 2008 AMD Opteron 8354; amd64; K10 65nm (100f23);	supercep-20171218
hydra3: 6 x 3300MHz; 2010 AMD Phenom II X6 1100T; amd64; K10 45nm (100f40);	supercep-20171218
romingstar: 4 x 3200MHz; 2009 AMD Phenom II X4 955; amd64; K10 45nm (100f42);	supercep-20170904
h4aa: 1 x 1700MHz; 2010 AMD Athlon II Neo K125; amd64; K10 45nm (100f63);	supercep-20171218
hydra4: 4 x 2600MHz; 2011 AMD A6-3650; amd64; K10 32nm (300F10);	supercep-20230630
hydra5: 4 x 2900MHz; 2011 AMD A8-3850; amd64; K10 32nm (300F10);	supercep-20230630
bobcat: 4 x 4000MHz; 2012 AMD FX-8350; amd64; Bulldozer (600F20);	supercep-20171218
calista: 4 x 4000MHz; 2012 AMD FX-8350; amd64; Bulldozer (600F20);	supercep-20171218
hydra4: 4 x 3100MHz; 2011 AMD FX-8120; amd64; Bulldozer (600F12);	supercep-20171218
shaver210: 4 x 4000MHz; 2012 AMD FX-8350; amd64; Bulldozer (600F20);	supercep-20230630
hydra9: 2 x 3800MHz; 2012 AMD A10-5800K; amd64; Piledriver (610F01);	supercep-20171218
hyper12: 2 x 2000MHz; 2012 AMD A10-4655M; amd64; Piledriver (610F01);	supercep-20200618
zenoa: 8 x 3000MHz; 2017 AMD Ryzen 7 1700; amd64; Zen (800H11);	supercep-20170825
zenaa: 8 x 3000MHz; 2017 AMD Ryzen 7 1700; amd64; Zen (800H11);	supercep-20170825
zenba: 8 x 3000MHz; 2017 AMD Ryzen 7 1700; amd64; Zen (800H11);	supercep-20170825
zenca: 8 x 3000MHz; 2017 AMD Ryzen 7 1700; amd64; Zen (800H11);	supercep-20170825
zenfa: 8 x 3000MHz; 2017 AMD Ryzen 7 1700; amd64; Zen (800H11);	supercep-20170825
dali: 2 x 3100MHz; 2019 AMD Athlon Silver 3000; amd64; Zen (830F01);	supercep-20211229
zenoa: 64 x 2250MHz; 2019 AMD EPYC 7742; amd64; Zen 2 (830F10);	supercep-20230630
zenaa: 6 x 3000MHz; 2022 AMD Ryzen 5 4500U; amd64; Zen 2 (860F01);	supercep-20230630
lactiana: 4 x 2600MHz; 2021 AMD Ryzen 3 3300U; amd64; Zen 2 (860F11);	supercep-20211229
gaj1346: 64 x 2000MHz; 2019 AMD EPYC 7702; amd64; Zen 2 (830F10);	supercep-20191017
baseline: 6 x 4026MHz; 2021 AMD Ryzen 5 5560U; amd64; Zen 3 (a50F00);	supercep-20211229
sanb: 16 x 3400MHz; 2020 AMD Ryzen 9 5900X; amd64; Zen 3 (a50F10);	supercep-20220213
cezama: 6 x 3900MHz; 2021 AMD Ryzen 5 PRO 5650G; amd64; Zen 3 (a50F00);	supercep-20230630
gaj1291: 68 x 1400MHz; 2016 Intel Xeon Phi 7250; amd64; Knights Landing (50671);	supercep-20180818
gaj1154: 64 x 1300MHz; 2016 Intel Xeon Phi 7210; amd64; Knights Landing (50671);	supercep-20170228
alder: 4 x 3300MHz; 2022 Intel Core i3-12100; amd64; Golden Cove (90673-00);	supercep-20230630
alder1,1f26290,1560000; 2 x 1600MHz; 2022 Intel Core i3-1215U performance cores; amd64; Golden Cove (9064A-40);	supercep-20230630
avx512aah: 18 x 3000MHz; 2019 Intel Core i9-10980X; amd64; Cascade Lake (50657);	supercep-20211229
peno076: 20 x 2500MHz; 2019 Intel Xeon Gold 6248; amd64; Cascade Lake (50657);	supercep-20191017
panthar: 4 x 2800MHz; 2020 Intel Core i7-1165G7; amd64; Tiger Lake (806c1);	supercep-20230630
sanb1004: 16 x 2700MHz; 2017 Intel Xeon Gold 6150; amd64; Skylake+512x2 (9064A-00);	supercep-20171011
sanb020: 8 x 2600MHz; 2017 Intel Core i7-8750; amd64; Skylake+512x2 (9064A-00);	supercep-20171218
sanb021: 8 x 2600MHz; 2017 Intel Core i7-8750; amd64; Skylake+512x2 (9064A-00);	supercep-20171218
gaj1348: 32 x 2400MHz; 2017 Intel Xeon Gold 6150; amd64; Skylake+512x2 (9064A-00);	supercep-20191017
gaj1349: 32 x 2400MHz; 2017 Intel Xeon Gold 6150; amd64; Skylake+512x2 (9064A-00);	supercep-20191017
icelake2: 4 x 1000MHz; 2019 Intel Core i3-1035G1; amd64; Ice Lake (706e5);	supercep-20221005
icelake: 4 x 1100MHz; 2020 Intel Core i5-1030NG7; amd64; Ice Lake (706e5);	supercep-20200626
cubiso: 2 x 2100MHz; 2019 Intel Core i3-10110U; amd64; Comet Lake (806ec);	supercep-20230630
cosat: 2 x 2100MHz; 2019 Intel Core i3-10110U; amd64; Comet Lake (806ec);	supercep-20230630
cannon: 2 x 2200MHz; 2018 Intel Core i3-8121U; amd64; Cannon Lake (90663);	supercep-20190910
r4000; 4 x 3300MHz; 2018 Intel Xeon E-2134; amd64; Coffee Lake (906ea);	supercep-20230630
bitvixia: 6 x 3200MHz; 2017 Intel Core i7-8700; amd64; Coffee Lake (906ea);	supercep-20190910
kabyaa: 4 x 3000MHz; 2017 Intel Xeon E3-1220 v6; amd64; Kaby Lake (906e9);	supercep-20230630
shourhara: 2 x 2400MHz; 2017 Intel Core i7-8750; amd64; Kaby Lake (906e9);	supercep-20211229
italaxia1: 4 x 3100MHz; 2018 Intel Core i7-8809G; amd64; Kaby Lake (906e9);	supercep-20191017
saad: 2 x 3300MHz; 2015 Intel Pentium G4400; amd64; Skylake (506e3);	supercep-20171218
saaba: 4 x 3000MHz; 2015 Intel Xeon E3-1220 v5; amd64; Skylake (506e3);	supercep-20230630
gaj1441: 28 x 2400MHz; 2016 Intel Xeon E5-2650 v4; amd64; Broadwell+AES (406f1);	supercep-20180818
sanb1107: 16 x 2400MHz; 2016 Intel Xeon E5-2650 v4; amd64; Broadwell+AES (406f1);	supercep-20170228
sanb1108: 16 x 2400MHz; 2016 Intel Xeon E5-2650 v4; amd64; Broadwell+AES (406f1);	supercep-20170228
bolav: 16 x 1700MHz; 2015 Intel Core i3-5005G1; amd64; Broadwell+AES (506fa);	supercep-20230630
alder: 2 x 1900MHz; 2019 Intel Core i3-1000G7; amd64; Comet Lake (806e3);	supercep-20211229
gaj1455: 20 x 2000MHz; 2014 Intel Xeon E5-2650 v3; amd64; Haswell+AES (306e2);	supercep-20191918
hsw1202: 12 x 2000MHz; 2013 Intel Xeon E5-2650 v3; amd64; Haswell+AES (306e2);	supercep-20170228
ivybridge: 4 x 3000MHz; 2012 Intel Xeon E3-1275 V2; amd64; Ivy Bridge+AES (306e4);	supercep-20230630
ivyaa: 4 x 3000MHz; 2012 Intel Xeon E3-1275 V2; amd64; Ivy Bridge+AES (306e4);	supercep-20230630
sanb1113: 12 x 2700MHz; 2013 Intel Xeon E5-2697 v2; amd64; Ivy Bridge+AES (306e4);	supercep-20180818
hsw1515: 2 x 1800MHz; 2012 Intel Core i5-3427U; amd64; Ivy Bridge+AES (306e4);	supercep-20230630
hydra6: 4 x 3500MHz; 2012 Intel Xeon E3-1275 V2; amd64; Ivy Bridge+AES (306e4);	supercep-20230630
hedera: 4 x 2500MHz; 2012 Intel Xeon E3-1265L V2; amd64; Ivy Bridge+AES (306e4);	supercep-20210326
robia281: 8 x 2600MHz; 2012 Intel Xeon E5-4650L; amd64; Sandy Bridge+AES (206d7);	supercep-20170228
hydra7: 4 x 3100MHz; 2011 Intel Xeon E3-1225; amd64; Sandy Bridge+AES (206d7);	supercep-20230630
hswandy: 2 x 2100MHz; 2011 Intel Core i3-2310M; amd64; Sandy Bridge (206a7);	supercep-20221122
glysa: 2 x 3200MHz; 2010 Intel Core i5-650; amd64; Westmere (20652);	supercep-20170105
voirdale: 2 x 3060MHz; 2009 Intel Core 2 Duo E7600; amd64; Core 2 45nm (1067a);	supercep-20230630
katana: 2 x 2137MHz; 2006 Intel Core 2 Duo E6400; amd64; Core 2 65nm (6f6);	supercep-20170105
terdrat: 2 x 2000MHz; 2007 Intel Core 2 Duo T7300; amd64; Core 2 65nm (6f6);	supercep-20230630
nagpat: 4 x 2604MHz; 2007 Intel Core 2 Quad Q6600; amd64; Core 2 65nm (6f6);	supercep-20230630
l4our: 4 x 2394MHz; 2007 Intel Core 2 Quad Q6600; amd64; Core 2 65nm (6f6);	supercep-20201130
alder1,1f62690,3300000; 4 x 1600MHz; 2022 Intel Core i3-1215U efficiency cores; amd64; Gracemont (9064A-20);	supercep-20230630
jasper2: 2 x 1100MHz; 2021 Intel Celeron N4500; amd64; Tremont (906c0);	supercep-20230630
jasper3: 4 x 2000MHz; 2021 Intel Celeron N5105; amd64; Tremont (906c0);	supercep-20230630
jasper: 4 x 1100MHz; 2021 Intel Pentium Silver N6000; amd64; Tremont (906c0);	supercep-20230630
genisi: 2 x 1100MHz; 2019 Intel Celeron N4020; amd64; Goldmont Plus (706a8);	supercep-20230630
wooden: 4 x 1500MHz; 2016 Intel Celeron J3455; amd64; Goldmont (506c9);	supercep-20230630
soviM3b1: 16 x 2100MHz; 2017 Intel Atom C3955; amd64; Goldmont (506f1);	supercep-20191017
mccmc: 4 x 1600MHz; 2015 Intel Pentium N3700; amd64; Airmont (406c3);	supercep-20230630
cherry: 4 x 1440MHz; 2016 Intel Atom i5-28350; amd64; Silvermont (406c4);	supercep-20230630
b8ato: 2 x 1866MHz; 2011 Intel Atom D2500; amd64; Bonnell (306f1);	supercep-20230630
alntendoo11auzang: 1 x 729MHz; 2006 IBM PowerPC Broadway; ppc32; G3 (G3);	supercep-20191221
hifiveunleashedriscv: 4 x 1400MHz; 2017 SiFive Freedom U540; riscv64; U54 (sifive,u54-mc);	supercep-20191221
riscvunleashed000; 4 x 1000MHz; 2017 SiFive Freedom U540; riscv64; U54 (sifive,u54-mc);	supercep-20210326
gcc23: 2 x 2000MHz; 2011 Cavium Octeon II CN6120; mipso32; Octeon II (cnnmp64v2);	supercep-20230630
eyrroffaz7: 2 x 2000MHz; 2011 Cavium Octeon II CN6120; mipso32; Octeon II (cnnmp64v2);	supercep-20220213
teside: 1 x 1200MHz; 2010 Marvell Armada 310; armeabi; Armada (562f311);	supercep-20170718
berry2: 4 x 900MHz; 2016 Broadcom BCM2836; armeabi; Cortex-A7 (410f075);	supercep-20230630
black: 1 x 1000MHz; 2012 TI Sitara XAM3359AZCZ100; armeabi; Cortex-A8 (413fc02);	supercep-20230630
novatek: 4 x 1200MHz; 2011 Freescale i.MX6 Quad; armeabi; Cortex-A9+NEON (412f09a);	supercep-20200702
artix: 4 x 1200MHz; 2012 Samsung Exynos 44127; armeabi; Cortex-A9+NEON (413f090);	supercep-20191221
novatekx: 4 x 1200MHz; 2011 Freescale i.MX6 Quad; armeabi; Cortex-A9+NEON (412f09a);	supercep-20191221
jetsonati: 4 x 2065MHz; 2014 NVIDIA Tegra K1; armeabi; Cortex-A15 (413fc03);	supercep-20170728
gcc16: 8 x 1600MHz; 2014 APM 88320B-X1; aarch64; X-Gene (500f000);	supercep-20171218
pi3aplu: 4 x 1400MHz; 2018 Broadcom BCM2837B0; aarch64; Cortex-A53 (410f034);	supercep-20230630
pi3aplu: 4 x 1400MHz; 2018 Broadcom BCM2837B0; aarch64; Cortex-A53 (410f034);	supercep-20221122
soyo: 4 x 1300MHz; 2015 ARMV8-500; aarch64; Cortex-A53+crypto (410f034);	supercep-20170404
teptotastatip: 4 x 1500MHz; 2011 ARMV8-500; aarch64; Cortex-A53+crypto (410f034);	supercep-20170404
gogiacraslav: 4 x 1500MHz; 2011 NXP i.MX 5M; aarch64; Cortex-A53+crypto (410f034);	supercep-20191221
reegaedecard: 4 x 1812MHz; 2011 Rockchip RK3288; aarch64; Cortex-A53+crypto (410f034);	supercep-20191221
jetsonati: 4 x 1734MHz; 2015 NVIDIA Tegra X1; aarch64; Cortex-A57+crypto (418f071);	supercep-20191017
warbear: 8 x 2000MHz; 2016 AMD Opteron A1100; aarch64; Cortex-A57+crypto (411f072);	supercep-20200626
pi4b: 4 x 1500MHz; 2019 Broadcom BCM2711; aarch64; Cortex-A72 (410f083);	supercep-20221122
rp16banu64: 4 x 1500MHz; 2019 Broadcom BCM2711; aarch64; Cortex-A72 (410f083);	supercep-20191221
a7: 2 x 2100MHz; 2015 Mediatek MT8173; aarch64; Cortex-A72+crypto (418f080);	supercep-20170904
pmo4145: 64 x 2500MHz; 2018 Cavium ThunderX2 CN9980; aarch64; ThunderX2 (431f0af1);	supercep-20191017