

crypto\_aead  
scream12v3  
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  
mips32 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  
Time

T:sss

?:sse

?:neon

T:ref

?:ref

<https://bench.cr.yp.to/20230702>

bhobcat: 2 x 1650MHz; 2011 AMD G-T56n; amd64; Bobcat (500F10); <a href="#">supercep-20230630</a>
m4e50: 2 x 1650MHz; 2011 AMD E-450; amd64; Bobcat (500F20); <a href="#">supercep-20200618</a>
mac: 2 x 2000MHz; 2006 AMD Athlon 64 X2; amd64; K8 (40fb2); <a href="#">supercep-20191010</a>
gcc16: 8 x 2194MHz; 2008 AMD Opteron 8354; amd64; K10 65nm (100f23); <a href="#">supercep-20171218</a>
hydra3: 6 x 3300MHz; 2010 AMD Phenom II X6 1100T; amd64; K10 45nm (100fa0); <a href="#">supercep-20171218</a>
nominstar: 4 x 3200MHz; 2009 AMD Phenom II X4 955; amd64; K10 45nm (100fa2); <a href="#">supercep-20170904</a>
hdaw: 1 x 1700MHz; 2010 AMD Athlon II Neo K125; amd64; K10 45nm (100fb3); <a href="#">supercep-20171218</a>
hydra4: 4 x 2600MHz; 2011 AMD A6-3850; amd64; K10 32nm (300F10); <a href="#">supercep-20230630</a>
hydra5: 4 x 2900MHz; 2011 AMD A8-3850; amd64; K10 32nm (300F10); <a href="#">supercep-20230630</a>
bobcat: 4 x 4000MHz; 2012 AMD FX-8350; amd64; Bulldozer (600P20); <a href="#">supercep-20171218</a>
calvin: 4 x 4000MHz; 2012 AMD FX-8300; amd64; Bulldozer (600P20); <a href="#">supercep-20171218</a>
hydra6: 4 x 3100MHz; 2011 AMD FX-8120; amd64; Bulldozer (600P12); <a href="#">supercep-20171218</a>
shaw1216: 4 x 4000MHz; 2012 AMD FX-8300; amd64; Bulldozer (600P20); <a href="#">supercep-20230630</a>
hydra7: 2 x 3800MHz; 2012 AMD A10-5800K; amd64; Piledriver (610F01); <a href="#">supercep-20171218</a>
lpiratry: 2 x 2000MHz; 2012 AMD A10-4655M; amd64; Piledriver (610F01); <a href="#">supercep-20200618</a>
ryzen: 8 x 3000MHz; 2017 AMD Ryzen 7 1700; amd64; Zen (800B11); <a href="#">supercep-20191010</a>
ryzen2: 8 x 3000MHz; 2017 AMD Ryzen 7 1700; amd64; Zen (800B11); <a href="#">supercep-20191010</a>
ryzen3: 4 x 3300MHz; 2017 AMD Ryzen 3 3300; amd64; Zen (800B11); <a href="#">supercep-20210212</a>
ryzen4: 4 x 3300MHz; 2017 AMD Ryzen 3 3300; amd64; Zen (800B11); <a href="#">supercep-20210212</a>
dali: 2 x 1800MHz; 2019 AMD EPYC 7702; amd64; Zen 2 (830F10); <a href="#">supercep-20230630</a>
ryzen5: 64 x 2250MHz; 2019 AMD EPYC 7742; amd64; Zen 2 (830F10); <a href="#">supercep-20230630</a>
ryzen6: 6 x 3000MHz; 2022 AMD Ryzen 5 4500U; amd64; Zen 2 (860B01); <a href="#">supercep-20230630</a>
lucienne: 4 x 2600MHz; 2021 AMD Ryzen 9 5950X; amd64; Zen 2 (860B01); <a href="#">supercep-20230630</a>
gwj1346: 64 x 2000MHz; 2019 AMD EPYC 7702; amd64; Zen 2 (830F10); <a href="#">supercep-20210107</a>
ryzen7: 6 x 4024MHz; 2021 AMD Ryzen 5 5600G; amd64; Zen 3 (a50F00); <a href="#">supercep-20210212</a>
ryzen8: 16 x 3400MHz; 2020 AMD Ryzen 9 5950X; amd64; Zen 3 (a50F10); <a href="#">supercep-20230630</a>
cezanne: 6 x 3900MHz; 2021 AMD Ryzen 5 PRO 5650G; amd64; Zen 3 (a50F00); <a href="#">supercep-20230630</a>
gwj1291: 68 x 1400MHz; 2016 Intel Xeon Phi 7250; amd64; Knights Landing (50671); <a href="#">supercep-20180818</a>
gwj1154: 64 x 1300MHz; 2016 Intel Xeon Phi 7210; amd64; Knights Landing (50671); <a href="#">supercep-20170228</a>
alder: 4 x 3300MHz; 2022 Intel Core i3-1210U; amd64; Golden Cove (90673-00); <a href="#">supercep-20230630</a>
alder1,rf2e900,5600000; 2 x 1600MHz; 2022 Intel Core i3-1215U performance cores; amd64; Golden Cove (906A4-40); <a href="#">supercep-20230630</a>
avx512math: 18 x 3000MHz; 2019 Intel Core i9-10980XE; amd64; Cascade Lake (50657); <a href="#">supercep-20201126</a>
juno0476: 20 x 2500MHz; 2019 Intel Xeon Gold 6248; amd64; Cascade Lake (50657); <a href="#">supercep-20191017</a>
panther: 4 x 2800MHz; 2020 Intel Core i7-1165G7; amd64; Tiger Lake (806c1); <a href="#">supercep-20230630</a>
sanj1024: 16 x 2100MHz; 2017 Intel Xeon Gold 6150; amd64; Skylake+512x2 (90654); <a href="#">supercep-20170804</a>
sanj1024: 8 x 2100MHz; 2017 Intel Xeon Gold 6150; amd64; Skylake+512x2 (90654); <a href="#">supercep-20171021</a>
sanj1024: 4 x 2100MHz; 2017 Intel Xeon Gold 6150; amd64; Skylake+512x2 (90654); <a href="#">supercep-20191017</a>
sanj1024: 2 x 2100MHz; 2017 Intel Xeon Gold 6150; amd64; Skylake+512x2 (90654); <a href="#">supercep-20191017</a>
icelake2: 4 x 1000MHz; 2019 Intel Core i3-1035G1; amd64; Ice Lake (706e5); <a href="#">supercep-20221005</a>
icelake: 4 x 1100MHz; 2020 Intel Core i5-1030NG7; amd64; Ice Lake (706e5); <a href="#">supercep-20200626</a>
cubio: 2 x 2100MHz; 2019 Intel Core i3-10110U; amd64; Comet Lake (806e6); <a href="#">supercep-20230630</a>
cosat: 2 x 2100MHz; 2019 Intel Core i3-10110U; amd64; Comet Lake (806e6); <a href="#">supercep-20230630</a>
cannon: 2 x 2200MHz; 2018 Intel Core i3-8121U; amd64; Cannon Lake (90663); <a href="#">supercep-20190910</a>
r3000: 4 x 3300MHz; 2018 Intel Xeon E-2134; amd64; Coffee Lake (906a3); <a href="#">supercep-20230630</a>
nlvison: 6 x 3200MHz; 2017 Intel Core i7-8700; amd64; Coffee Lake (906a3); <a href="#">supercep-20190910</a>
kiababa: 4 x 3000MHz; 2017 Intel Xeon E3-1220 v6; amd64; Kaby Lake (906e9); <a href="#">supercep-20230630</a>
shoushara: 2 x 2400MHz; 2017 Intel Core i7-8700; amd64; Kaby Lake (906e9); <a href="#">supercep-20221122</a>
intalaub18: 4 x 3100MHz; 2018 Intel Core i7-8809G; amd64; Kaby Lake (906e9); <a href="#">supercep-20191017</a>
saad: 2 x 3300MHz; 2015 Intel Pentium G4400; amd64; Skylake (506e3); <a href="#">supercep-20171218</a>
saaba: 4 x 3000MHz; 2015 Intel Xeon E3-1220 v5; amd64; Skylake (506e3); <a href="#">supercep-20230630</a>
em1461: 28 x 2400MHz; 2016 Intel Xeon E5-2680 v4; amd64; Broadwell+AES (406f1); <a href="#">supercep-20180818</a>
Sanj1772: 16 x 2400MHz; 2016 Intel Xeon E5-2680 v4; amd64; Broadwell+AES (406f1); <a href="#">supercep-20170228</a>
Sanj1772: 8 x 2400MHz; 2016 Intel Xeon E5-2680 v4; amd64; Broadwell+AES (406f1); <a href="#">supercep-20171021</a>
Sanj1772: 4 x 2400MHz; 2016 Intel Xeon E5-2680 v4; amd64; Broadwell+AES (406f1); <a href="#">supercep-20191017</a>
em1461: 28 x 2400MHz; 2016 Intel Xeon E5-2680 v4; amd64; Broadwell+AES (406f1); <a href="#">supercep-20230630</a>
em1461: 14 x 2400MHz; 2016 Intel Xeon E5-2680 v4; amd64; Broadwell+AES (406f1); <a href="#">supercep-20230630</a>
em1461: 7 x 2400MHz; 2016 Intel Xeon E5-2680 v4; amd64; Broadwell+AES (406f1); <a href="#">supercep-20230630</a>
em1461: 3 x 2400MHz; 2016 Intel Xeon E5-2680 v4; amd64; Broadwell+AES (406f1); <a href="#">supercep-20230630</a>
em1461: 1 x 2400MHz; 2016 Intel Xeon E5-2680 v4; amd64; Broadwell+AES (406f1); <a href="#">supercep-20230630</a>
em1461: 12 x 2700MHz; 2013 Intel Xeon E5-2697 v2; amd64; Ivy Bridge+AES (306e4); <a href="#">supercep-20180818</a>
hamsiviy: 2 x 1800MHz; 2012 Intel Core i5-3427U; amd64; Ivy Bridge+AES (306e4); <a href="#">supercep-20230630</a>
hydra8: 4 x 3500MHz; 2012 Intel Xeon E3-1275 V2; amd64; Ivy Bridge+AES (306e4); <a href="#">supercep-20230630</a>
bedera: 4 x 2500MHz; 2012 Intel Xeon E3-1265L V2; amd64; Ivy Bridge+AES (306e4); <a href="#">supercep-20210326</a>
robi281: 8 x 2600MHz; 2012 Intel Xeon E5-4650L; amd64; Sandy Bridge+AES (206d7); <a href="#">supercep-20170228</a>
hydra7: 4 x 3100MHz; 2011 Intel Xeon E3-1225; amd64; Sandy Bridge+AES (206d7); <a href="#">supercep-20230630</a>
h6saandy: 2 x 2100MHz; 2011 Intel Core i5-2310M; amd64; Sandy Bridge (206a7); <a href="#">supercep-20221122</a>
g1wy: 2 x 3200MHz; 2010 Intel Core i5-650; amd64; Westmere (20652); <a href="#">supercep-20171016</a>
volfdale: 2 x 3060MHz; 2009 Intel Core 2 Duo E7600; amd64; Core 2 45nm (1067a); <a href="#">supercep-20230630</a>
katana: 2 x 2137MHz; 2006 Intel Core 2 Duo E6400; amd64; Core 2 65nm (6f6); <a href="#">supercep-20171016</a>
trissant: 2 x 2000MHz; 2007 Intel Core 2 Duo T7300; amd64; Core 2 65nm (6f6); <a href="#">supercep-20230630</a>
augrasi: 4 x 2404MHz; 2007 Intel Core 2 Quad Q6600; amd64; Core 2 65nm (6f6); <a href="#">supercep-20230630</a>
latour: 4 x 2394MHz; 2007 Intel Core 2 Quad Q6600; amd64; Core 2 65nm (6f6); <a href="#">supercep-20201130</a>
alder1,1f62e90,3300000; 4 x 1600MHz; 2022 Intel Core i3-1215U efficiency cores; amd64; Gracemont (906A4-20); <a href="#">supercep-20230630</a>
jasper2: 2 x 1100MHz; 2021 Intel Celeron N4500; amd64; Tremont (906c0); <a href="#">supercep-20230630</a>
jasper3: 4 x 2000MHz; 2021 Intel Celeron N5105; amd64; Tremont (906c0); <a href="#">supercep-20230630</a>
jasper: 4 x 1100MHz; 2021 Intel Pentium Silver N6000; amd64; Tremont (906c0); <a href="#">supercep-20230630</a>
gemini: 2 x 1100MHz; 2019 Intel Celeron N4020; amd64; Goldmont Plus (706a8); <a href="#">supercep-20230630</a>
wooden: 4 x 1500MHz; 2016 Intel Celeron J3455; amd64; Goldmont (506c9); <a href="#">supercep-20230630</a>
scvi16b1: 16 x 2100MHz; 2017 Intel Atom C3955; amd64; Goldmont (506f1); <a href="#">supercep-20191017</a>
mucca: 4 x 1600MHz; 2015 Intel Pentium N3700; amd64; Airmont (406c3); <a href="#">supercep-20230630</a>
cherry: 4 x 1440MHz; 2016 Intel Atom i5-2835S; amd64; Silvermont (406c4); <a href="#">supercep-20230630</a>
h8aton: 2 x 1866MHz; 2011 Intel Atom D2500; amd64; Bonnell (306f1); <a href="#">supercep-20230630</a>
alntendocilluixang: 1 x 729MHz; 2006 IBM PowerPC Broadway; ppc32; G3 (G3); <a href="#">supercep-20191221</a>
hifiveunleashedriscv: 4 x 1400MHz; 2017 SiFive Freedom U540; riscv64; U54 (sifive,u54-mc); <a href="#">supercep-20191221</a>
riscvunleashed000: 4 x 1000MHz; 2017 SiFive Freedom U540; riscv64; U54 (sifive,u54-mc); <a href="#">supercep-20210326</a>
gcc23: 2 x 2000MHz; 2011 Cavium Octeon II CN6120; mips32; Octeon II (cmnip64v2); <a href="#">supercep-20230630</a>
erppoffaz2: 2 x 2000MHz; 2011 Cavium Octeon II CN6120; mips32; Octeon II (cmnip64v2); <a href="#">supercep-20220213</a>
teside: 1 x 1200MHz; 2010 Marvell Armada 310; armeabi; Armada (562f311); <a href="#">supercep-20170718</a>
berry2: 4 x 900MHz; 2016 Broadcom BCM2836; armeabi; Cortex-A7 (410fc075); <a href="#">supercep-20230630</a>
black: 1 x 1000MHz; 2012 TI Sitara XAM3359AZC1210; armeabi; Cortex-A8 (413fc082); <a href="#">supercep-20230630</a>
noveblue: 4 x 1200MHz; 2011 Freescale i.MX6 Quad; armeabi; Cortex-A9+NEON (412fc09a); <a href="#">supercep-20200702</a>
artix: 4 x 1200MHz; 2012 Samsung Exynos 44127; armeabi; Cortex-A9+NEON (413fc090); <a href="#">supercep-20191221</a>
noveblue8: 4 x 1200MHz; 2011 Freescale i.MX6 Quad; armeabi; Cortex-A9+NEON (412fc09a); <a href="#">supercep-20191221</a>
jetsonati: 4 x 2065MHz; 2014 NVIDIA Tegra K1; armeabi; Cortex-A15 (413fc0f3); <a href="#">supercep-20170728</a>
gcc16: 8 x 1600MHz; 2014 APM 88320B-X1; aarch64; X-Gene (500F000); <a href="#">supercep-20171218</a>
pi3aplu: 4 x 1400MHz; 2018 Broadcom BCM2837B0; aarch64; Cortex-A53 (410f034); <a href="#">supercep-20230630</a>
pi3aplu: 4 x 1400MHz; 2018 Broadcom BCM2837B0; aarch64; Cortex-A53 (410f034); <a href="#">supercep-20221122</a>
leeds: 4 x 1600MHz; 2015 ARM Cortex-A53; aarch64; Cortex-A53+crypto (410f034); <a href="#">supercep-20170414</a>
leeds: 2 x 1600MHz; 2015 ARM Cortex-A53; aarch64; Cortex-A53+crypto (410f034); <a href="#">supercep-20170414</a>
gogolacrasin: 4 x 1500MHz; 2016 NXP i.MX 8M; aarch64; Cortex-A53+crypto (410f034); <a href="#">supercep-20191221</a>
reegaedec4390cc: 4 x 1312MHz; 2013 Rockchip RVK328; aarch64; Cortex-A53+crypto (410f034); <a href="#">supercep-20191221</a>
jetsonati: 4 x 1734MHz; 2015 NVIDIA Tegra X1; aarch64; Cortex-A57+crypto (418f071); <a href="#">supercep-20191017</a>
warbear: 8 x 2000MHz; 2016 AMD Opteron A1100; aarch64; Cortex-A57+crypto (411f6073); <a href="#">supercep-20200626</a>
pi4b: 4 x 1500MHz; 2019 Broadcom BCM2711; aarch64; Cortex-A72 (410f083); <a href="#">supercep-20221122</a>
rpi4bunleashed: 4 x 1500MHz; 2019 Broadcom BCM2711; aarch64; Cortex-A72 (410f083); <a href="#">supercep-20191221</a>
a7: 2 x 2100MHz; 2015 Mediatek MT8173; aarch64; Cortex-A72+crypto (418f080); <a href="#">supercep-20170904</a>
pmo4145: 64 x 2500MHz; 2018 Cavium ThunderX2 CN9980; aarch64; ThunderX2 (431f0a1); <a href="#">supercep-20191017</a>

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