

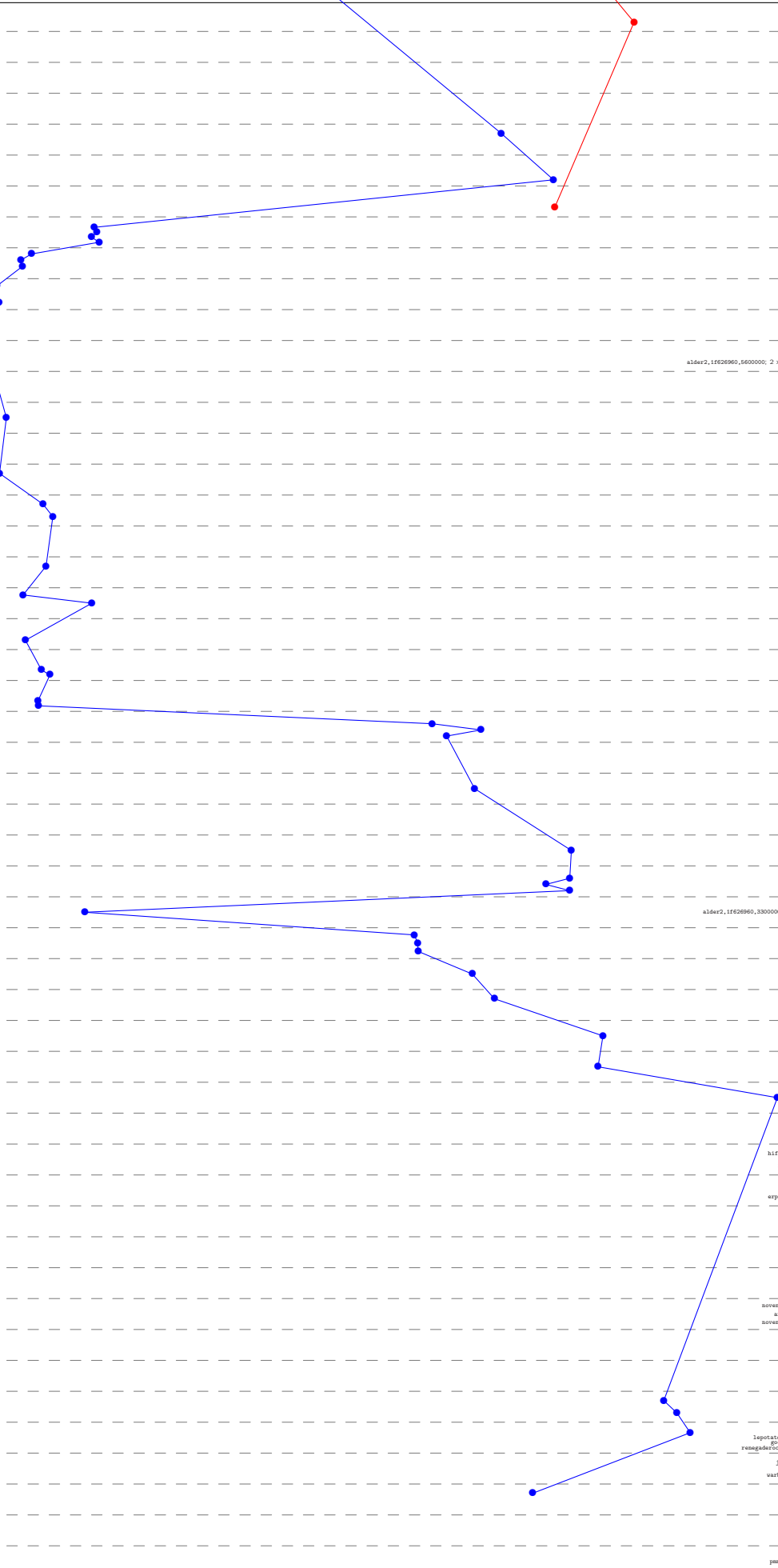
crypto_encrypt
ledapkc13s1
implementations

T:portableopt

?:portableopt

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

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 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



hBobcat: 2 x 1650MHz; 2011 AMD G-T56n; amd64; Bobcat (500F10); [supercep-20230630](#)
h4e50: 2 x 1650MHz; 2011 AMD E-450; amd64; Bobcat (500F20); [supercep-20200618](#)
mac: 2 x 2000MHz; 2006 AMD Athlon 64 X2; amd64; K8 (40fb2); [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](#)
sonnigstar: 4 x 3200MHz; 2009 AMD Phenom II X4 955; amd64; K10 45nm (100F42); [supercep-20170904](#)
h3aw: 1 x 1700MHz; 2010 AMD Athlon II Neo K125; amd64; K10 45nm (100F63); [supercep-20170105](#)
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 (500P20); [supercep-20171218](#)
calvin: 4 x 4000MHz; 2012 AMD FX-8350; amd64; Bulldozer (500P20); [supercep-20171218](#)
hydra4: 4 x 3100MHz; 2011 AMD FX-8120; amd64; Bulldozer (500P12); [supercep-20171218](#)
shawr216: 4 x 4000MHz; 2012 AMD FX-8350; amd64; Bulldozer (500P20); [supercep-20230630](#)
hydra9: 2 x 3800MHz; 2012 AMD A10-6650K; amd64; Piledriver (610F01); [supercep-20171218](#)
h3rriaty: 2 x 2000MHz; 2012 AMD A10-6650M; amd64; Piledriver (610F01); [supercep-20200618](#)
zen2: 8 x 3000MHz; 2017 AMD Ryzen 7 1700; amd64; Zen (800H11); [supercep-20170605](#)
zen3: 8 x 3000MHz; 2017 AMD Ryzen 7 3800; amd64; Zen (800H11); [supercep-20170605](#)
ruba8: 4 x 3100MHz; AV10 AMD Ryzen 3 1300G; amd64; Zen (800H11); [supercep-20221022](#)
dell: 2 x 1600MHz; 2012 AMD Athlon 580; amd64; Zen (800H11); [supercep-20191017](#)
rozer: 64 x 2250MHz; 2019 AMD EPYC 7742; amd64; Zen 2 (830F10); [supercep-20230630](#)
rozer: 6 x 3000MHz; 2022 AMD Ryzen 5 4500U; amd64; Zen 2 (860H01); [supercep-20230630](#)
lactemus: 4 x 2600MHz; 2021 AMD Ryzen 3 3300U; amd64; Zen 3 (820F01); [supercep-20201122](#)
gaj1346: 64 x 2000MHz; 2019 AMD EPYC 7702; amd64; Zen 2 (830F10); [supercep-20191017](#)
baseline: 6 x 4062MHz; 2021 AMD Ryzen 5 5600G; amd64; Zen 3 (a50F00); [supercep-20211122](#)
saw: 16 x 3400MHz; 2020 AMD Ryzen 9 5900X; amd64; Zen 3 (a20F10); [supercep-20230630](#)
cezanne: 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](#)
alder2_1f62690_5600000: 2 x 1600MHz; 2022 Intel Core i3-12150U performance cores; amd64; Golden Cove (906A4-40); [supercep-20230630](#)
avx512iaht: 18 x 3000MHz; 2019 Intel Core i9-10980XE; amd64; Cascade Lake (50657); [supercep-20210126](#)
jemod076: 20 x 2500MHz; 2019 Intel Xeon Gold 6248; amd64; Cascade Lake (50657); [supercep-20191017](#)
panther: 4 x 2800MHz; 2020 Intel Core i7-1165G7; amd64; Tiger Lake (806c1); [supercep-20230630](#)
nany1024: 18 x 2700MHz; 2017 Intel Xeon Gold 6150; amd64; Skylake-11702 (906A4); [supercep-20170804](#)
nany2048: 8 x 2500MHz; 2017 Intel Core i7-9750; amd64; Skylake-11702 (906A4); [supercep-20181122](#)
gaj1346: 20 x 2400MHz; 2017 Intel Core i7-9750; amd64; Skylake-11702 (906A4); [supercep-20221122](#)
gaj1346: 20 x 2400MHz; 2017 Intel Xeon Gold 6150; amd64; Skylake-11702 (906A4); [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](#)
cubio: 2 x 2100MHz; 2019 Intel Core i3-10110U; amd64; Comet Lake (806ec); [supercep-20230630](#)
covst: 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-2124; amd64; Coffee Lake (906a3); [supercep-20230630](#)
blivias: 6 x 3200MHz; 2017 Intel Core i7-8700; amd64; Coffee Lake (906a3); [supercep-20190910](#)
kaby: 4 x 3000MHz; 2017 Intel Xeon E3-1220 v6; amd64; Kaby Lake (906e9); [supercep-20230630](#)
skoutbars: 2 x 2400MHz; 2017 Intel Core i3-7100; amd64; Kaby Lake (906e9); [supercep-20211122](#)
intelauric: 4 x 3100MHz; 2018 Intel Core i7-8809G; amd64; Kaby Lake (906e9); [supercep-20191017](#)
saw: 2 x 3300MHz; 2015 Intel Pentium G4400; amd64; Skylake (506e3); [supercep-20171218](#)
saw: 4 x 3000MHz; 2015 Intel Xeon E3-1220 v5; amd64; Skylake (506e3); [supercep-20230630](#)
bowl: 18 x 1700MHz; 2016 Intel Xeon E5-2650 v4; amd64; Broadwell-AES (406f1); [supercep-20180818](#)
bowl: 18 x 1700MHz; 2016 Intel Xeon E5-2650 v4; amd64; Broadwell-AES (406f1); [supercep-20170628](#)
bowl: 18 x 1700MHz; 2016 Intel Xeon E5-2650 v4; amd64; Broadwell-AES (406f1); [supercep-20170628](#)
bowl: 18 x 1700MHz; 2016 Intel Xeon E5-2650 v4; amd64; Broadwell-AES (406f1); [supercep-20230630](#)
saw: 4 x 1900MHz; 2015 Intel Core i3-5005A; amd64; Broadwell-AES (506d4); [supercep-20230630](#)
gaj1166: 20 x 2000MHz; 2014 Intel Xeon E5-2650 v3; amd64; Haswell-AES (306e7); [supercep-20191017](#)
h3rriaty: 18 x 2400MHz; 2012 Intel Xeon E3-1275 v2; amd64; Haswell-AES (306e7); [supercep-20221122](#)
h3rriaty: 18 x 2400MHz; 2012 Intel Xeon E3-1275 v2; amd64; Haswell-AES (306e7); [supercep-20230630](#)
h3rriaty: 18 x 2400MHz; 2012 Intel Xeon E3-1275 v2; amd64; Haswell-AES (306e7); [supercep-20230630](#)
h3rriaty: 18 x 2400MHz; 2012 Intel Xeon E3-1275 v2; amd64; Haswell-AES (306e7); [supercep-20230630](#)
nanyv13: 12 x 2700MHz; 2013 Intel Xeon E5-2697 v2; amd64; Ivy Bridge+AES (306e4); [supercep-20180818](#)
nanyv13: 12 x 2700MHz; 2013 Intel Xeon E5-2697 v2; amd64; Ivy Bridge+AES (306e4); [supercep-20230630](#)
hydra4: 4 x 3500MHz; 2012 Intel Xeon E3-1275 V2; amd64; Ivy Bridge+AES (306e4); [supercep-20230630](#)
bedera: 4 x 2500MHz; 2012 Intel Xeon E3-1265L V2; amd64; Ivy Bridge+AES (306e4); [supercep-20210326](#)
robin281: 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](#)
h3sandy: 2 x 2100MHz; 2011 Intel Core i3-2310M; amd64; Sandy Bridge (206d7); [supercep-20221122](#)
g3ys: 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](#)
k3tana: 2 x 2137MHz; 2006 Intel Core 2 Duo E6400; amd64; Core 2 65nm (6f6); [supercep-20170105](#)
trsdant: 2 x 2000MHz; 2007 Intel Core 2 Duo T7300; amd64; Core 2 65nm (6f6); [supercep-20230630](#)
nagrad: 4 x 2040MHz; 2007 Intel Core 2 Quad Q6600; amd64; Core 2 65nm (6f6); [supercep-20230630](#)
latur: 4 x 2394MHz; 2007 Intel Core 2 Quad Q6600; amd64; Core 2 65nm (6f6); [supercep-20201130](#)
alder2_1f62690_3300000: 4 x 1600MHz; 2022 Intel Core i3-12150U efficiency cores; amd64; Gracemont (906A4-20); [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](#)
gemini: 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](#)
scv1M8h1: 16 x 2100MHz; 2017 Intel Atom C3955; amd64; Goldmont (506f1); [supercep-20191017](#)
m3ccc: 4 x 1600MHz; 2015 Intel Pentium N3700; amd64; Airmont (406c3); [supercep-20230630](#)
cherry: 4 x 1440MHz; 2016 Intel Atom i5-2B350; amd64; Silvermont (406c4); [supercep-20230630](#)
h3aton: 2 x 1866MHz; 2011 Intel Atom D2500; amd64; Bonnell (306f1); [supercep-20230630](#)
alntendovillilaung: 1 x 729MHz; 2006 IBM PowerPC Broadway; ppc32; G3 (G3); [supercep-20191221](#)
h3ifveunleashetrice: 4 x 1400MHz; 2017 SiFive Freedom U540; riscv64; U54 (sifive,u54-mc); [supercep-20191221](#)
riscvunleash4000: 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 (cmnips64v2); [supercep-20230630](#)
expofafz7: 2 x 2000MHz; 2011 Cavium Octeon II CN6120; mipso32; Octeon II (cmnips64v2); [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](#)
h3lack: 1 x 1000MHz; 2012 TI Sitara XAM3359AZC2100; armeabi; Cortex-A8 (413fc082); [supercep-20230630](#)
noveblue: 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](#)
noveblue: 4 x 1200MHz; 2011 Freescale i.MX6 Quad; armeabi; Cortex-A9+NEON (412f09a); [supercep-20191221](#)
j3stovati: 4 x 2065MHz; 2014 NVIDIA Tegra K1; armeabi; Cortex-A15 (413fc0f3); [supercep-20170728](#)
gcc16: 8 x 1600MHz; 2014 APM 88320B-X1; aarch64; X-Gene (500F000); [supercep-20171218](#)
p3h3p3a1: 4 x 1400MHz; 2018 Broadcom BCM2837B0; aarch64; Cortex-A53 (410f034); [supercep-20230630](#)
p3h3p3a1: 4 x 1400MHz; 2018 Broadcom BCM2837B0; aarch64; Cortex-A53 (410f034); [supercep-20221122](#)
saw: 4 x 1600MHz; 2015 AMD A10-7850; aarch64; Cortex-A53+crypto (410f034); [supercep-20170605](#)
leptonm1: 4 x 1500MHz; 2015 AMD A10-7850; aarch64; Cortex-A53+crypto (410f034); [supercep-20170605](#)
gogiacrasai: 4 x 1500MHz; 2015 NXP iMX 8M; aarch64; Cortex-A53+crypto (410f034); [supercep-20191221](#)
noveblue: 4 x 1500MHz; 2011 Freescale i.MX6 Quad; aarch64; Cortex-A53+crypto (410f034); [supercep-20191221](#)
j3stovati: 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](#)
p3h3: 4 x 1500MHz; 2019 Broadcom BCM2711; aarch64; Cortex-A72 (410f083); [supercep-20221122](#)
rpi4bunleash64: 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-20190904](#)
j3m0416: 64 x 2500MHz; 2018 Cavium ThunderX2 CN980; aarch64; ThunderX2 (431f0a1); [supercep-20191017](#)

Time 4194304 8388608 16777216 33554432