

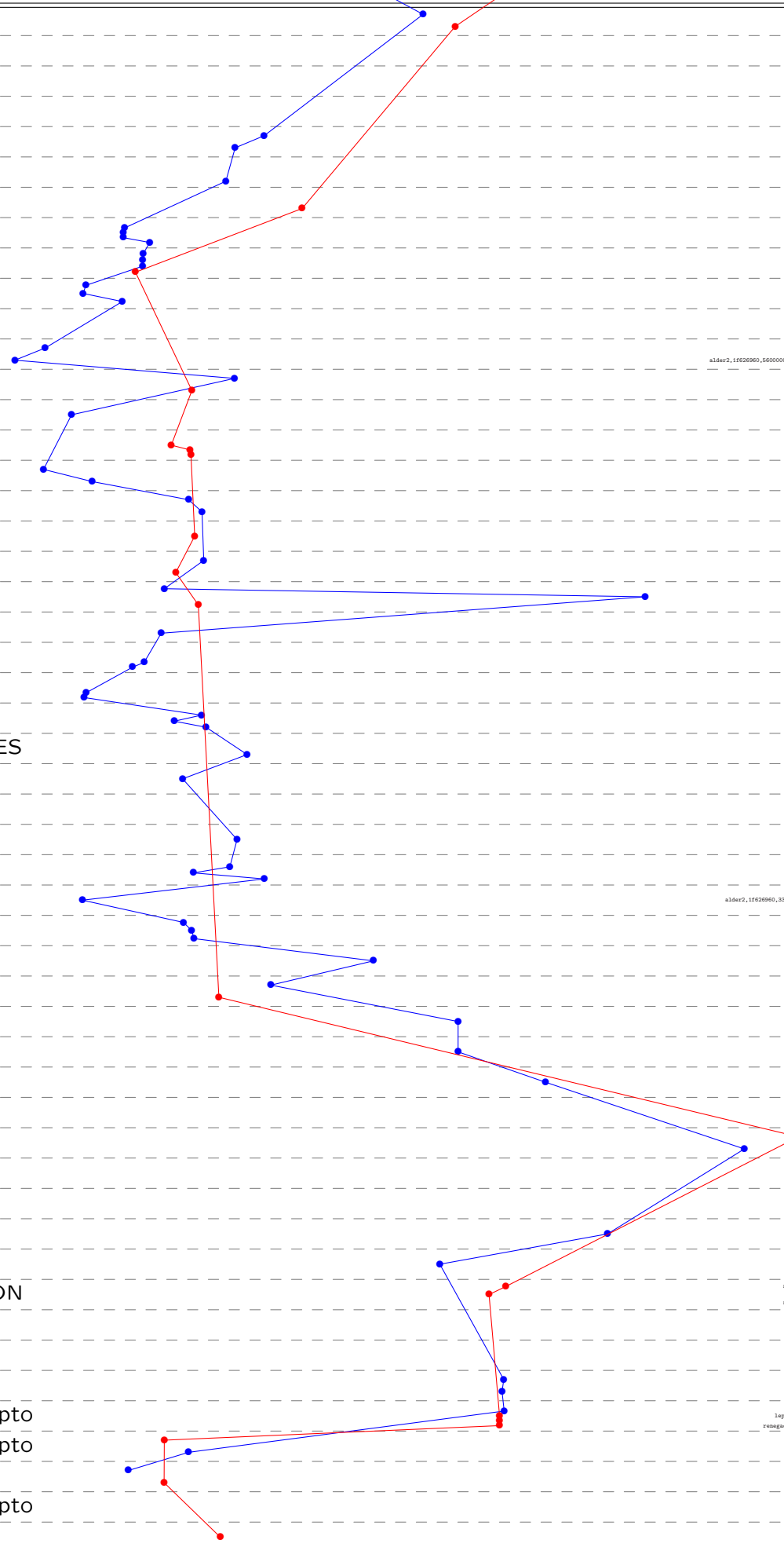
crypto\_aead  
spook128mu512v1  
implementations  
amd64 Bobcat  
amd64 K8  
amd64 K10 65nm  
amd64 K10 45nm  
amd64 K10 32nm  
amd64 Bulldozer  
amd64 Piledriver  
amd64 Zen  
amd64 Zen 2  
amd64 Zen 3  
amd64 Knights Landing  
amd64 Golden Cove  
amd64 Cascade Lake  
amd64 Tiger Lake  
amd64 Skylake+512x2  
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

524288  
1048576  
2097152

T:ref

?:ref

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



bhobcat: 2 x 1650MHz; 2011 AMD G-T56N; amd64; Bobcat (600F10); supercop-20230630  
m4e50: 2 x 1650MHz; 2011 AMD E-450; amd64; Bobcat (600F20); supercop-20200618  
...  
gcc16: 8 x 2194MHz; 2008 AMD Opteron 8354; amd64; K10 65nm (100F23); supercop-20171218  
...  
hydra3: 6 x 3300MHz; 2010 AMD Phenom II X4 1100T; amd64; K10 45nm (100F40); supercop-20171218  
...  
hydra4: 4 x 2900MHz; 2011 AMD A6-3850; amd64; K10 32nm (300F10); supercop-20230630  
...  
robo64: 64 x 2250MHz; 2019 AMD EPYC 7742; amd64; Zen 2 (830F10); supercop-20230630  
...  
a1der2: 1f62e960,5600000; 2 x 1600MHz; 2022 Intel Core i3-1215U performance cores; amd64; Golden Cove (906A4-40); supercop-20230630  
...  
sandy1404: 10 x 2700MHz; 2012 Intel Xeon Core E3-1220 v6; amd64; Skylake+AES (306E4); supercop-20191017  
...  
icelake2: 4 x 1000MHz; 2019 Intel Core i3-1035G1; amd64; Ice Lake (706E5); supercop-20221005  
...  
cannon: 2 x 2200MHz; 2018 Intel Core i3-8121U; amd64; Cannon Lake (90663); supercop-20191017  
...  
kaby16: 16 x 3000MHz; 2017 Intel Xeon E3-1220 v6; amd64; Kaby Lake (906E9); supercop-20230630  
...  
skylake: 4 x 3000MHz; 2015 Intel Xeon E3-1220 v5; amd64; Skylake (506E3); supercop-20230630  
...  
sandy1404: 10 x 2700MHz; 2012 Intel Xeon Core E3-1220 v6; amd64; Broadwell+AES (406F3); supercop-20191017  
...  
haswell: 20 x 2800MHz; 2014 Intel Xeon E5-2697 v2; amd64; Haswell+AES (306E4); supercop-20191017  
...  
ivy13: 13 x 2700MHz; 2013 Intel Xeon E5-2697 v2; amd64; Ivy Bridge+AES (306E4); supercop-20191017  
...  
sandy1404: 10 x 2700MHz; 2012 Intel Xeon Core E3-1220 v6; amd64; Sandy Bridge+AES (206A7); supercop-20191017  
...  
westmere: 2 x 2800MHz; 2010 Intel Core i5-650; amd64; Westmere (20652); supercop-20171016  
...  
volfdale: 2 x 3060MHz; 2009 Intel Core 2 Duo E7600; amd64; Core 2 45nm (1067A); supercop-20230630  
...  
k2ana: 2 x 2137MHz; 2006 Intel Core 2 Duo E6400; amd64; Core 2 65nm (66f); supercop-20171016  
...  
alder1: 1f62e960,3300000; 4 x 1600MHz; 2022 Intel Core i3-1215U efficiency cores; amd64; Gracemont (906A4-20); supercop-20230630  
...  
goldmont: 2 x 1100MHz; 2021 Intel Celeron N4500; amd64; Tremont (906C0); supercop-20230630  
...  
goldmont\_plus: 4 x 1100MHz; 2021 Intel Celeron N5105; amd64; Tremont (906C0); supercop-20230630  
...  
goldmont\_plus: 4 x 1100MHz; 2021 Intel Pentium Silver N6000; amd64; Tremont (906C0); supercop-20230630  
...  
goldmont\_plus: 2 x 1100MHz; 2019 Intel Celeron N4020; amd64; Goldmont Plus (706A8); supercop-20230630  
...  
goldmont: 4 x 1500MHz; 2016 Intel Celeron J3455; amd64; Goldmont (506C9); supercop-20230630  
...  
airmont: 16 x 2100MHz; 2017 Intel Atom C3955; amd64; Goldmont (506F1); supercop-20191017  
...  
airmont: 4 x 1600MHz; 2015 Intel Pentium N3700; amd64; Airmont (406C3); supercop-20230630  
...  
silvermont: 4 x 1440MHz; 2016 Intel Atom i5-Z8350; amd64; Silvermont (406C4); supercop-20230630  
...  
bonnell: 2 x 1866MHz; 2011 Intel Atom D2500; amd64; Bonnell (306F1); supercop-20230630  
...  
a1ntdnd0111u11axg: 1 x 720MHz; 2006 IBM PowerPC Broadway; ppc32; G3 (G3); supercop-20191221  
...  
u54: 4 x 1400MHz; 2017 SiFive Freedom U540; riscv64; U54 (sifive,u54-mc); supercop-20191221  
...  
octeon\_ii: 2 x 2000MHz; 2011 Cavium Octeon II CN6120; mips32; Octeon II (cmnips64v2); supercop-20230630  
...  
octeon\_ii: 2 x 2000MHz; 2011 Cavium Octeon II CN6120; mips32; Octeon II (cmnips64v2); supercop-20220213  
...  
armada: 1 x 1200MHz; 2010 Marvell Armada 310; armeabi; Armada (562F311); supercop-20170718  
...  
cortex\_a7: 4 x 900MHz; 2016 Broadcom BCM2836; armeabi; Cortex-A7 (410f075); supercop-20230630  
...  
cortex\_a8: 1 x 1000MHz; 2012 TI Sitara XAM359AZCZ100; armeabi; Cortex-A8 (413fc082); supercop-20230630  
...  
cortex\_a9\_neon: 4 x 1200MHz; 2011 Freescale i.MX6 Quad; armeabi; Cortex-A9+NEON (412fc09A); supercop-20200702  
...  
cortex\_a15: 4 x 1200MHz; 2012 Samsung Exynos 44127; armeabi; Cortex-A9+NEON (413fc090); supercop-20191221  
...  
cortex\_a15: 4 x 1200MHz; 2011 Freescale i.MX6 Quad; armeabi; Cortex-A9+NEON (412fc09A); supercop-20191221  
...  
thunderx2: 4 x 2065MHz; 2014 NVIDIA Tegra K1; armeabi; Cortex-A15 (413fc0F3); supercop-20170728  
...  
xgene: 8 x 1600MHz; 2014 APM 883208-X1; aarch64; X-Gene (500F000); supercop-20171218  
...  
cortex\_a53: 4 x 1400MHz; 2018 Broadcom BCM2837B0; aarch64; Cortex-A53 (410f0934); supercop-20230630  
...  
cortex\_a53: 4 x 1400MHz; 2018 Broadcom BCM2837B0; aarch64; Cortex-A53 (410f0934); supercop-20221122  
...  
cortex\_a53\_crypto: 4 x 1500MHz; 2015 ARMv8-A Cortex-A53; aarch64; Cortex-A53+crypto (410f0934); supercop-20171016  
...  
cortex\_a57\_crypto: 4 x 1500MHz; 2016 ARMv8-A Cortex-A57; aarch64; Cortex-A57+crypto (410f0934); supercop-20171016  
...  
cortex\_a72: 4 x 1500MHz; 2019 ARMv8-A Cortex-A72; aarch64; Cortex-A72 (410f08B3); supercop-20191221  
...  
cortex\_a72\_crypto: 4 x 1500MHz; 2019 ARMv8-A Cortex-A72; aarch64; Cortex-A72+crypto (410f08B3); supercop-20191221  
...  
thunderx2: 4 x 1734MHz; 2015 NVIDIA Tegra X1; aarch64; Cortex-A57+crypto (418f071); supercop-20191017  
...  
thunderx2: 8 x 2000MHz; 2016 AMD Opteron A1100; aarch64; Cortex-A57+crypto (411f0673); supercop-20200826  
...  
thunderx2: 4 x 1500MHz; 2019 Broadcom BCM2711; aarch64; Cortex-A72 (410f08B3); supercop-20221122  
...  
thunderx2: 4 x 1500MHz; 2019 Broadcom BCM2711; aarch64; Cortex-A72 (410f08B3); supercop-20191221  
...  
thunderx2: 2 x 2100MHz; 2015 Mediatek MT8173; aarch64; Cortex-A72+crypto (418f080); supercop-20170904  
...  
thunderx2: 64 x 2500MHz; 2018 Cavium ThunderX2 CN9980; aarch64; ThunderX2 (431f0af1); supercop-20191017