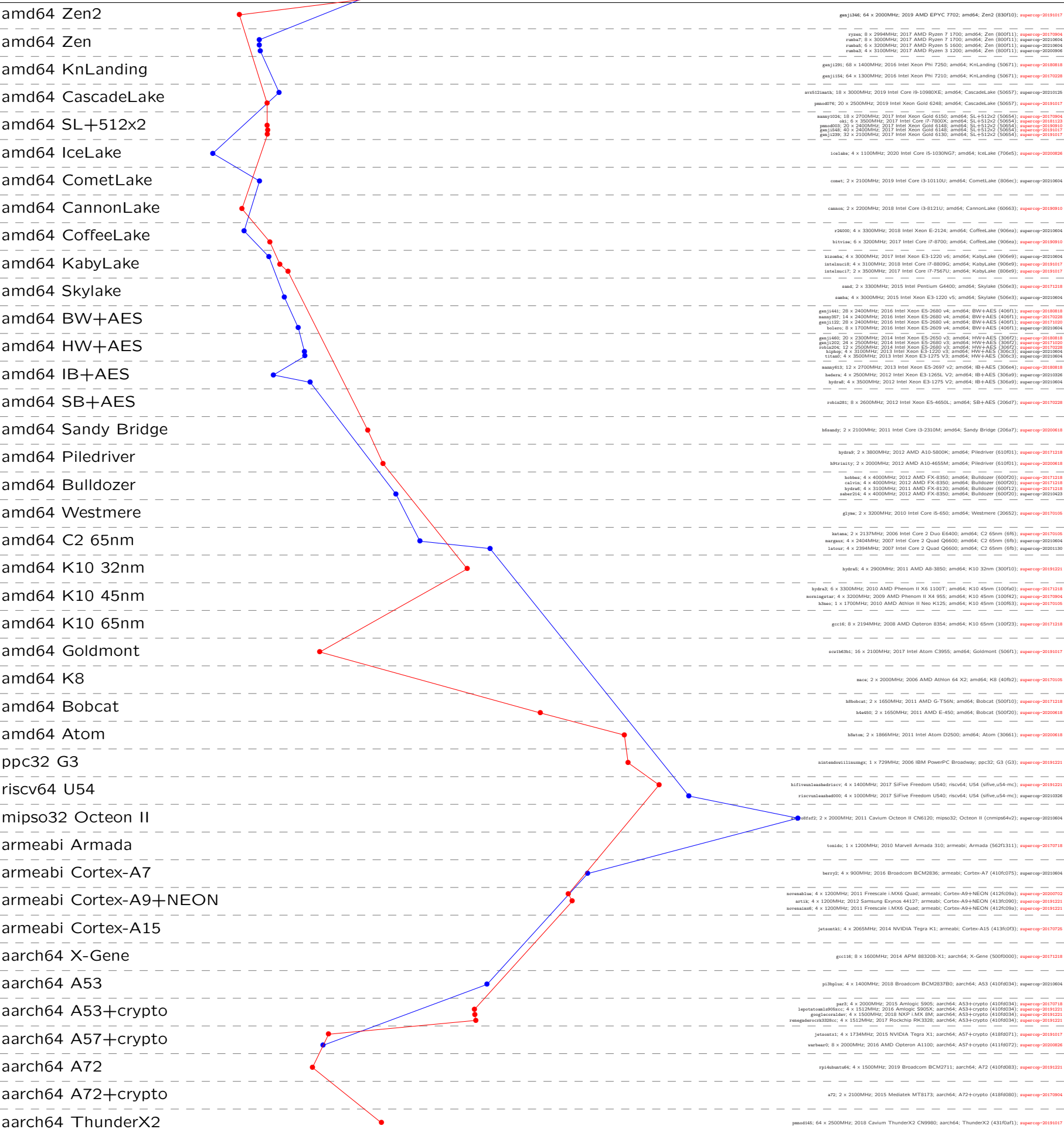


crypto\_aead  
romulusn2v1  
implementations

https://bench.cr.yp.to  
20210605



T:ref

?:ref

gej1346: 64 x 2000MHz; 2019 AMD EPYC 7702; amd64; Zen2 (830f10); supercop-20191017  
ryzen: 8 x 2994MHz; 2017 AMD Ryzen 7 1700; amd64; Zen (800f11); supercop-20170904  
ruba7: 8 x 3000MHz; 2017 AMD Ryzen 7 1700; amd64; Zen (800f11); supercop-20210604  
ruba8: 6 x 3200MHz; 2017 AMD Ryzen 5 1600; amd64; Zen (800f11); supercop-20210604  
ruba3: 4 x 3100MHz; 2017 AMD Ryzen 3 1200; amd64; Zen (800f11); supercop-20200906  
gej1291: 68 x 1400MHz; 2016 Intel Xeon Phi 7250; amd64; KnLanding (50671); supercop-20180818  
gej1154: 64 x 1300MHz; 2016 Intel Xeon Phi 7210; amd64; KnLanding (50671); supercop-20170228  
avx512math: 18 x 3000MHz; 2019 Intel Core i9-10980XE; amd64; CascadeLake (50657); supercop-20210126  
jmas076: 20 x 2500MHz; 2019 Intel Xeon Gold 6248; amd64; CascadeLake (50657); supercop-20210107  
naay1024: 18 x 2700MHz; 2017 Intel Xeon Gold 6150; amd64; SL+512x2 (50654); supercop-20170904  
sl: 6 x 3000MHz; 2017 Intel Core i7-7800X; amd64; SL+512x2 (50654); supercop-20181113  
jmas003: 20 x 2400MHz; 2017 Intel Xeon Gold 6148; amd64; SL+512x2 (50654); supercop-20190810  
gej1158: 40 x 2400MHz; 2017 Intel Xeon Gold 6148; amd64; SL+512x2 (50654); supercop-20191017  
gej1239: 32 x 2100MHz; 2017 Intel Xeon Gold 6130; amd64; SL+512x2 (50654); supercop-20191017  
icelake: 4 x 1100MHz; 2020 Intel Core i5-1030NG7; amd64; icelake (706e5); supercop-20200826  
comet: 2 x 2100MHz; 2019 Intel Core i3-10110U; amd64; CometLake (806ec); supercop-20210604  
cannon: 2 x 2200MHz; 2018 Intel Core i3-8121U; amd64; CannonLake (60663); supercop-20190910  
r2400: 4 x 3300MHz; 2018 Intel Xeon E-2124; amd64; CoffeeLake (906ea); supercop-20210604  
bitvisie: 6 x 3200MHz; 2017 Intel Core i7-8700; amd64; CoffeeLake (906ea); supercop-20190910  
kizaba: 4 x 3000MHz; 2017 Intel Xeon E3-1220 v6; amd64; KabyLake (906e9); supercop-20210604  
intelasc17: 4 x 3100MHz; 2018 Intel Core i7-8090G; amd64; KabyLake (906e9); supercop-20191017  
intelasc17: 2 x 3500MHz; 2017 Intel Core i7-7570U; amd64; KabyLake (906e9); supercop-20191017  
saad: 2 x 3000MHz; 2015 Intel Pentium G4400; amd64; Skylake (506e3); supercop-20171218  
saab: 4 x 3000MHz; 2015 Intel Xeon E3-1220 v5; amd64; Skylake (506e3); supercop-20210604  
gej1441: 28 x 2400MHz; 2016 Intel Xeon E5-2680 v4; amd64; BW+AES (406f1); supercop-20180818  
naay387: 14 x 2400MHz; 2016 Intel Xeon E5-2680 v4; amd64; BW+AES (406f1); supercop-20170228  
gej1122: 28 x 2400MHz; 2016 Intel Xeon E5-2680 v4; amd64; BW+AES (406f1); supercop-20171020  
bakera: 8 x 1700MHz; 2016 Intel Xeon E5-2609 v4; amd64; BW+AES (406f1); supercop-20210604  
gej1460: 20 x 2300MHz; 2014 Intel Xeon E5-2650 v3; amd64; HW+AES (306f2); supercop-20180818  
gej1202: 24 x 2500MHz; 2014 Intel Xeon E5-2680 v3; amd64; HW+AES (306f2); supercop-20171020  
rhlz004: 12 x 2500MHz; 2014 Intel Xeon E5-2650 v3; amd64; HW+AES (306f2); supercop-20170228  
pipap: 4 x 3100MHz; 2013 Intel Xeon E3-1220 v3; amd64; HW+AES (306c3); supercop-20210604  
11zaw: 4 x 3000MHz; 2013 Intel Xeon E3-1275 v3; amd64; HW+AES (306c3); supercop-20210604  
naay113: 12 x 2700MHz; 2013 Intel Xeon E5-2697 v2; amd64; IB+AES (306e4); supercop-20180818  
bakera: 4 x 2500MHz; 2012 Intel Xeon E3-1265L V2; amd64; IB+AES (306e9); supercop-20210326  
hydra8: 4 x 3500MHz; 2012 Intel Xeon E3-1275 V2; amd64; IB+AES (306e9); supercop-20210604  
robt281: 8 x 2600MHz; 2012 Intel Xeon E5-4650L; amd64; SB+AES (206d7); supercop-20170229  
h6andy: 2 x 2100MHz; 2011 Intel Core i3-2310M; amd64; Sandy Bridge (206a7); supercop-20200618  
hydra9: 2 x 3800MHz; 2012 AMD A10-5800K; amd64; Piledriver (610f1); supercop-20171218  
h8trinity: 2 x 2000MHz; 2012 AMD A10-6650M; amd64; Piledriver (610f1); supercop-20200618  
bobbae: 4 x 4000MHz; 2012 AMD FX-8350; amd64; Bulldozer (600f20); supercop-20171218  
hydra6: 4 x 3200MHz; 2012 AMD FX-8350; amd64; Bulldozer (600f20); supercop-20171218  
saber216: 4 x 4000MHz; 2012 AMD FX-8350; amd64; Bulldozer (600f20); supercop-20210423  
glyaw: 2 x 3300MHz; 2010 Intel Core i5-650; amd64; Westmere (20652); supercop-20171016  
katana: 2 x 2137MHz; 2006 Intel Core 2 Duo E6400; amd64; C2 65nm (6f6); supercop-20171016  
nargaux: 4 x 2404MHz; 2007 Intel Core 2 Quad Q6600; amd64; C2 65nm (6fb); supercop-20210604  
latour: 4 x 2394MHz; 2007 Intel Core 2 Quad Q6600; amd64; C2 65nm (6fb); supercop-20201130  
hydra5: 4 x 2900MHz; 2011 AMD A8-3850; amd64; K10 32nm (300f10); supercop-20191221  
hydra3: 6 x 3300MHz; 2010 AMD Phenom II X6 1100T; amd64; K10 45nm (100fa0); supercop-20171218  
sorningat: 4 x 3200MHz; 2009 AMD Phenom II X4 955; amd64; K10 45nm (100fa2); supercop-20170904  
h3aw: 1 x 1700MHz; 2010 AMD Athlon II Neo K125; amd64; K10 45nm (100f63); supercop-20171016  
gcc16: 8 x 2194MHz; 2008 AMD Opteron 8354; amd64; K10 65nm (100f23); supercop-20171218  
scv1M3h1: 16 x 2100MHz; 2017 Intel Atom C3955; amd64; Goldmont (506f1); supercop-20191017  
naca: 2 x 2000MHz; 2006 AMD Athlon 64 X2; amd64; K8 (40fb2); supercop-20210705  
h8bobcat: 2 x 1650MHz; 2011 AMD G-T56N; amd64; Bobcat (500f10); supercop-20171218  
h4450: 2 x 1650MHz; 2011 AMD E-450; amd64; Bobcat (500f20); supercop-20200618  
hlatex: 2 x 1866MHz; 2011 Intel Atom D2500; amd64; Atom (30661); supercop-20200618  
sinteadovilliauzag: 1 x 729MHz; 2006 IBM PowerPC Broadway; ppc32; G3 (G3); supercop-20191221  
hifiveu1aashdriscv: 4 x 1400MHz; 2017 SiFive Freedom U540; riscv64; U54 (sifive,u54-mc); supercop-20191221  
riscv1aash8000: 4 x 1000MHz; 2017 SiFive Freedom U540; riscv64; U54 (sifive,u54-mc); supercop-20210326  
hifsf2: 2 x 2000MHz; 2011 Cavium Octeon II CN6120; mips32; Octeon II (cmnips64v2); supercop-20210604  
tonido: 1 x 1200MHz; 2010 Marvell Armada 310; armeabi; Armada (562f1311); supercop-20170718  
berry2: 4 x 900MHz; 2016 Broadcom BCM2836; armeabi; Cortex-A7 (410f075); supercop-20210604  
svevalius: 4 x 1200MHz; 2011 Freescale i.MX6 Quad; armeabi; Cortex-A9+NEON (412f09a); supercop-20200702  
artik: 4 x 1200MHz; 2012 Samsung Exynos 4412; armeabi; Cortex-A9+NEON (413f090); supercop-20191221  
svevalius6: 4 x 1200MHz; 2011 Freescale i.MX6 Quad; armeabi; Cortex-A9+NEON (412f09a); supercop-20191221  
jatsont1: 4 x 2065MHz; 2014 NVIDIA Tegra K1; armeabi; Cortex-A15 (413f0f3); supercop-20170725  
gcc116: 8 x 1600MHz; 2014 APM 883208-X1; aarch64; X-Gene (500f000); supercop-20171218  
pi3plu: 4 x 1400MHz; 2018 Broadcom BCM2837B0; aarch64; A53 (410f034); supercop-20210604  
par3: 4 x 2000MHz; 2015 Amlogic S905; aarch64; A53+crypto (410f034); supercop-20170718  
1epostaaia908acc: 4 x 1512MHz; 2016 Amlogic S903X; aarch64; A53+crypto (410f034); supercop-20191221  
grogfacanizer: 4 x 1500MHz; 2018 Rockchip RK3398; aarch64; A53+crypto (410f034); supercop-20191221  
renepaderocr3328cc: 4 x 1512MHz; 2017 Rockchip RK3328; aarch64; A53+crypto (410f034); supercop-20191221  
jatsont1: 4 x 1734MHz; 2015 NVIDIA Tegra X1; aarch64; A57+crypto (418f071); supercop-20191017  
warbear0: 8 x 2000MHz; 2016 AMD Opteron A1100; aarch64; A57+crypto (411f072); supercop-20200826  
rpi4abatu64: 4 x 1500MHz; 2019 Broadcom BCM2711; aarch64; A72 (410f083); supercop-20191221  
a72: 2 x 2100MHz; 2015 Mediatek MT8173; aarch64; A72+crypto (418f080); supercop-20170904  
jmas045: 64 x 2500MHz; 2018 Cavium ThunderX2 CN9980; aarch64; ThunderX2 (431f0a1); supercop-20191017