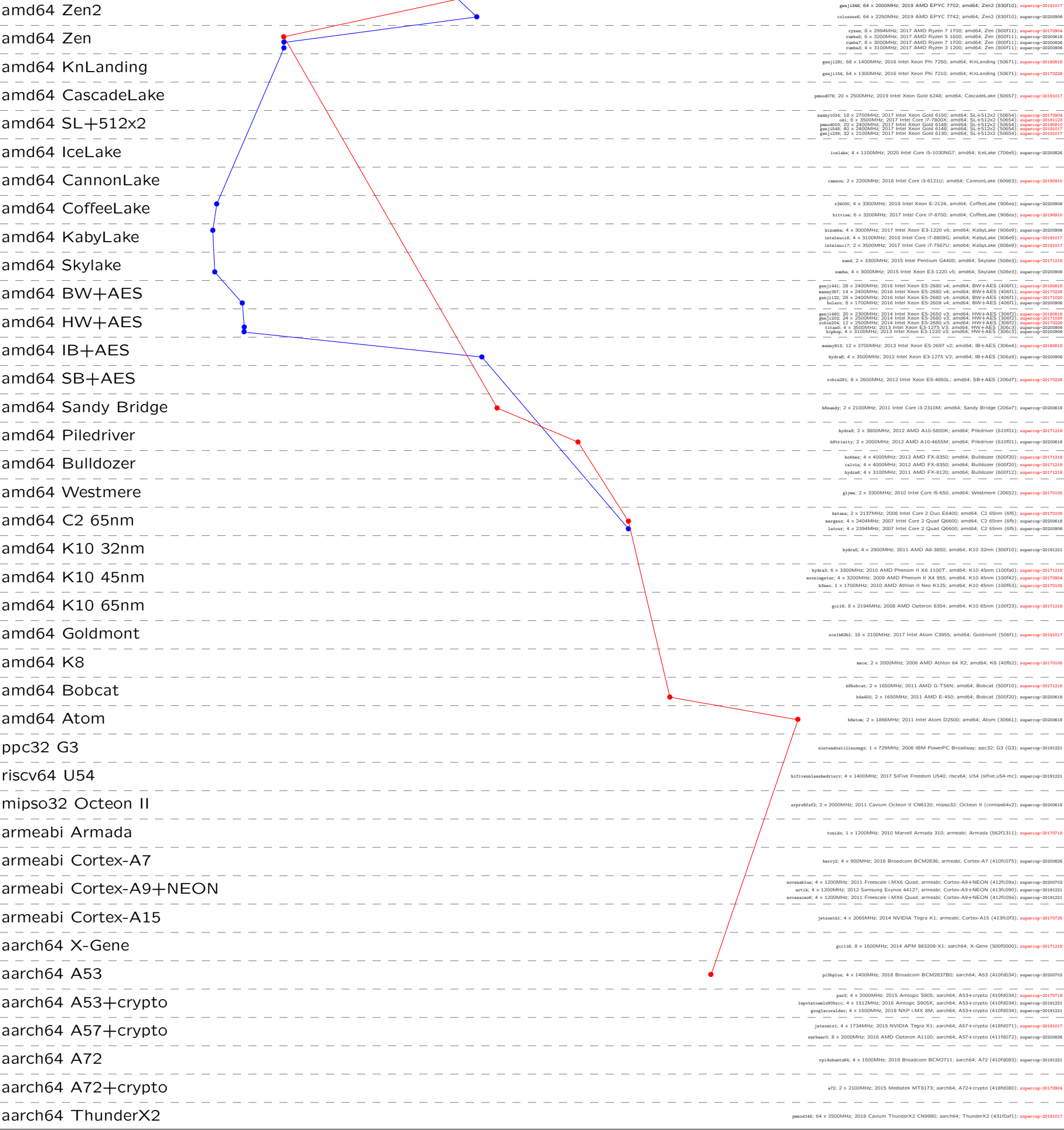


crypto_kem
ledakem33s1
implementations

https://bench.cr.yp.to
20200913



T:portableopt

?:portableopt

gej1346: 64 x 2000MHz; 2019 AMD EPYC 7702; amd64; Zen2 (830f10); supercop-20191017
colossus6: 64 x 2250MHz; 2019 AMD EPYC 7742; amd64; Zen2 (830f10); supercop-20200906
ryzen: 8 x 2994MHz; 2017 AMD Ryzen 7 1700; amd64; Zen (800f11); supercop-20170904
ruba6: 6 x 3200MHz; 2017 AMD Ryzen 5 1600; amd64; Zen (800f11); supercop-20200618
ruba7: 8 x 3800MHz; 2017 AMD Ryzen 7 1700; amd64; Zen (800f11); supercop-20200626
ruba3: 4 x 3100MHz; 2017 AMD Ryzen 3 1200; amd64; Zen (800f11); supercop-20200906
genj1291: 68 x 1400MHz; 2016 Intel Xeon Phi 7250; amd64; KnLanding (50671); supercop-20180818
genj1154: 64 x 1300MHz; 2016 Intel Xeon Phi 7210; amd64; KnLanding (50671); supercop-20170228
pno076: 20 x 2500MHz; 2019 Intel Xeon Gold 6248; amd64; CascadeLake (50657); supercop-20191017
aaay1024: 18 x 2700MHz; 2017 Intel Xeon Gold 6150; amd64; SL+512x2 (50654); supercop-20170904
sk1: 6 x 3500MHz; 2017 Intel Core i7-7800X; amd64; SL+512x2 (50654); supercop-20181123
pno003: 20 x 2500MHz; 2017 Intel Xeon Gold 6148; amd64; SL+512x2 (50654); supercop-20180910
genj1548: 40 x 2400MHz; 2017 Intel Xeon Gold 6148; amd64; SL+512x2 (50654); supercop-20191017
genj1295: 32 x 2100MHz; 2017 Intel Xeon Gold 6140; amd64; SL+512x2 (50654); supercop-20191017
icelake: 4 x 1100MHz; 2020 Intel Core i5-1030NG7; amd64; IceLake (706e5); supercop-20200826
cannon: 2 x 2200MHz; 2018 Intel Core i3-8121U; amd64; CannonLake (50663); supercop-20191010
r2400: 4 x 3300MHz; 2018 Intel Xeon E-2124; amd64; CoffeeLake (906ea); supercop-20200906
bitvis6: 6 x 3200MHz; 2017 Intel Core i7-8700; amd64; CoffeeLake (906ea); supercop-20191010
ziisa6: 4 x 3000MHz; 2017 Intel Xeon E3-1220 v6; amd64; KabyLake (906e9); supercop-20200906
intelauc18: 4 x 3100MHz; 2018 Intel Core i7-8809G; amd64; KabyLake (906e9); supercop-20191017
intelauc17: 2 x 3500MHz; 2017 Intel Core i7-7567U; amd64; KabyLake (806e9); supercop-20191017
sand: 2 x 3300MHz; 2015 Intel Pentium G4400; amd64; Skylake (506c3); supercop-20171218
saab: 4 x 3000MHz; 2015 Intel Xeon E3-1220 v5; amd64; Skylake (506c3); supercop-20200906
genj1441: 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
genj1122: 28 x 2400MHz; 2016 Intel Xeon E5-2680 v4; amd64; BW+AES (406f1); supercop-20171020
bkara: 8 x 1700MHz; 2016 Intel Xeon E5-2629 v4; amd64; BW+AES (406f1); supercop-20200906
genj1460: 20 x 2300MHz; 2016 Intel Xeon E5-2650 v3; amd64; HW+AES (306f2); supercop-20180818
genj1202: 24 x 2500MHz; 2014 Intel Xeon E5-2680 v3; amd64; HW+AES (306f2); supercop-20171020
rob0204: 12 x 2500MHz; 2014 Intel Xeon E5-2680 v3; amd64; HW+AES (306f2); supercop-20170228
tisa0: 4 x 3500MHz; 2013 Intel Xeon E3-1275 V3; amd64; HW+AES (306c3); supercop-20200906
hlp06: 4 x 3100MHz; 2013 Intel Xeon E3-1220 v3; amd64; HW+AES (306c3); supercop-20200906
naay613: 12 x 2700MHz; 2013 Intel Xeon E5-2697 v2; amd64; IB+AES (306e4); supercop-20180818
hydra8: 4 x 3500MHz; 2012 Intel Xeon E3-1275 V2; amd64; IB+AES (306a9); supercop-20200906
vokiz281: 8 x 2600MHz; 2012 Intel Xeon E5-4650L; amd64; SB+AES (20647); supercop-20170228
h6sandy: 2 x 2100MHz; 2011 Intel Core i3-2310M; amd64; Sandy Bridge (206a7); supercop-20200618
hydra9: 2 x 3800MHz; 2012 AMD A10-5800K; amd64; Piledriver (610f01); supercop-20171218
h6riasty: 2 x 2000MHz; 2012 AMD A10-4655M; amd64; Piledriver (610f01); supercop-20200618
bobba: 4 x 4000MHz; 2012 AMD FX-8350; amd64; Bulldozer (600f20); supercop-20171218
calvis: 4 x 4000MHz; 2012 AMD FX-8350; amd64; Bulldozer (600f20); supercop-20171218
hydra4: 4 x 3100MHz; 2011 AMD FX-8120; amd64; Bulldozer (600f12); supercop-20171218
glyw: 2 x 3200MHz; 2010 Intel Core i5-650; amd64; Westmere (20652); supercop-20171016
latana: 2 x 2137MHz; 2006 Intel Core 2 Duo E6400; amd64; C2 65nm (6f6); supercop-20171016
nargay: 4 x 2404MHz; 2007 Intel Core 2 Quad Q6600; amd64; C2 65nm (6f6); supercop-20200618
latour: 4 x 2394MHz; 2007 Intel Core 2 Quad Q6600; amd64; C2 65nm (6f6); supercop-20200906
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 (100f00); supercop-20171218
antigapar: 4 x 3200MHz; 2009 AMD Phenom II X6 955; amd64; K10 45nm (100f42); supercop-20170904
hbaoc: 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
scv1863n1: 16 x 2100MHz; 2017 Intel Atom C3955; amd64; Goldmont (506f1); supercop-20191017
sasc: 2 x 2000MHz; 2006 AMD Athlon 64 X2; amd64; K8 (40f02); supercop-20171016
hbbocac: 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
hbaaw: 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
hifivuaiaashedricv: 4 x 1400MHz; 2017 SiFive Freedom U540; riscv64; U54 (ufive,u54-mc); supercop-20191221
erprolraf2: 2 x 2000MHz; 2011 Cavium Octeon II CN6120; mipso32; Octeon II (cnmips64v2); supercop-20200618
tesido: 1 x 1200MHz; 2010 Marvel Armada 310; armeabi; Armada (562f311); supercop-20170718
berry2: 4 x 900MHz; 2016 Broadcom BCM2836; armeabi; Cortex-A7 (410f075); supercop-20200826
soreahluw: 4 x 1200MHz; 2011 Freescale i.MX6 Quad; armeabi; Cortex-A9+NEON (412f09a); supercop-20200702
artix: 4 x 1200MHz; 2012 Samsung Exynos 44127; armeabi; Cortex-A9+NEON (413f090); supercop-20191221
soreahluw: 4 x 1200MHz; 2011 Freescale i.MX6 Quad; armeabi; Cortex-A9+NEON (412f09a); supercop-20191221
jetsonts1: 4 x 2065MHz; 2014 NVIDIA Tegra K1; armeabi; Cortex-A15 (413f0f3); supercop-20170725
gcc116: 8 x 1600MHz; 2014 APM 88230X-1; aarch64; X-Gene (500f000); supercop-20171218
pi3pplu: 4 x 1400MHz; 2018 Broadcom BCM2837B0; aarch64; A53 (410f034); supercop-20200702
par3: 4 x 2000MHz; 2015 Amlogic S905; aarch64; A53+crypto (410f034); supercop-20170718
jepotocaa908cc: 4 x 1512MHz; 2016 Amlogic S905X; aarch64; A53+crypto (410f034); supercop-20191221
guelacaa908cc: 4 x 1500MHz; 2018 RXP i.MX 8M; aarch64; A53+crypto (410f034); supercop-20191221
jetsonts1: 4 x 1734MHz; 2015 NVIDIA Tegra X1; aarch64; A57+crypto (418f071); supercop-20191017
varbear0: 8 x 2000MHz; 2016 AMD Opteron A1100; aarch64; A57+crypto (411f072); supercop-20200826
rpi4ubutu64: 4 x 1500MHz; 2019 Broadcom BCM2711; aarch64; A72 (410f083); supercop-20191221
a72: 2 x 2100MHz; 2015 Mediatek MT8173; aarch64; A72+crypto (418f080); supercop-20170904
pno0146: 64 x 2500MHz; 2018 Cavium ThunderX2 CN9980; aarch64; ThunderX2 (431f0f1); supercop-20191017

Time 16777216 33554432 67108864