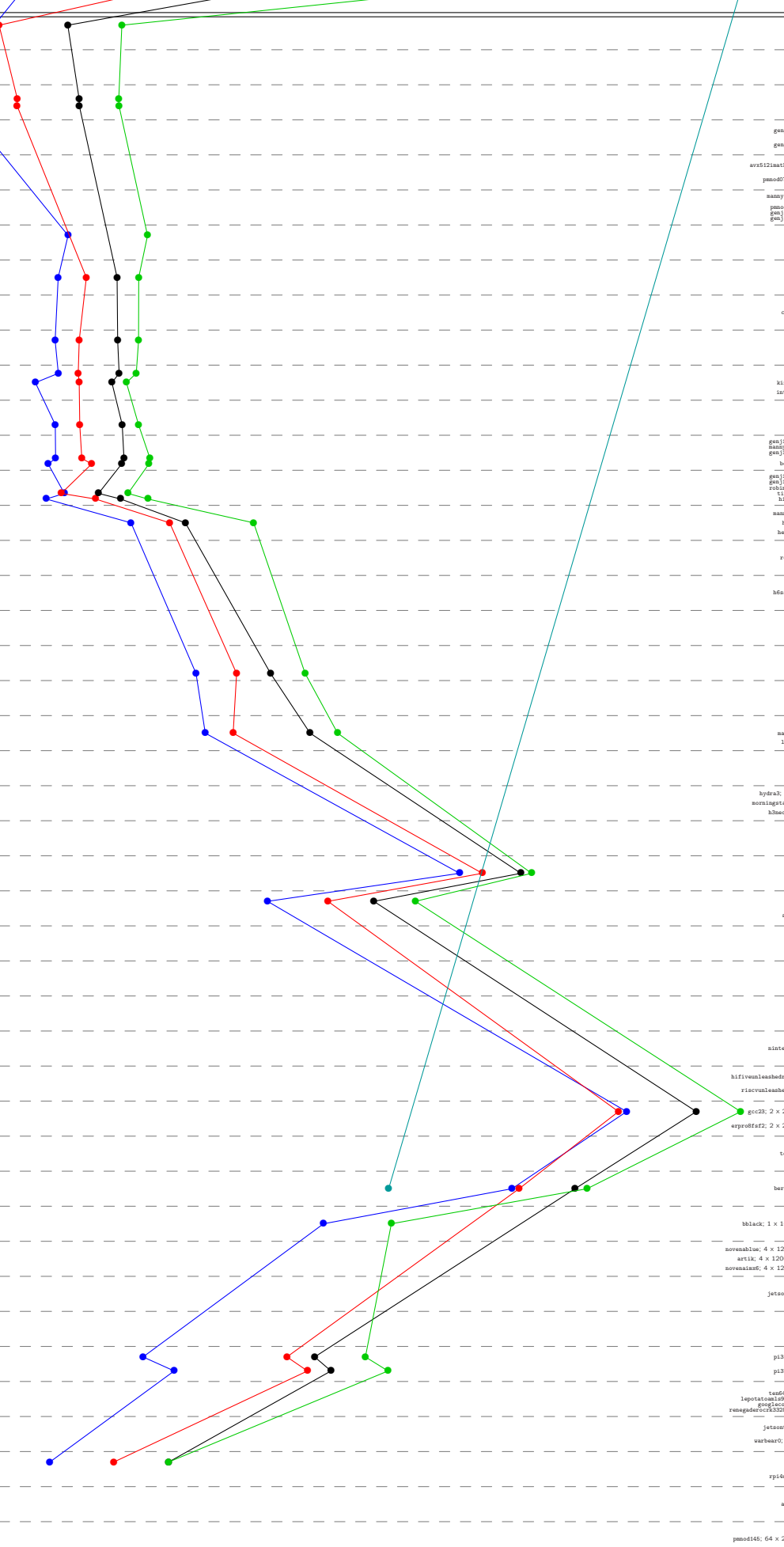


crypto_aead
ascon128abi32v12
implementations

amd64 Zen3
amd64 Zen2
amd64 Zen
amd64 KnLanding
amd64 CascadeLake
amd64 SL+512x2
amd64 IceLake
amd64 CometLake
amd64 CannonLake
amd64 CoffeeLake
amd64 KabyLake
amd64 Skylake
amd64 BW+AES
amd64 HW+AES
amd64 IB+AES
amd64 SB+AES
amd64 Sandy Bridge
amd64 Piledriver
amd64 Bulldozer
amd64 Westmere
amd64 C2 65nm
amd64 K10 32nm
amd64 K10 45nm
amd64 K10 65nm
amd64 Airmont
amd64 Goldmont
amd64 K8
amd64 Bobcat
amd64 Atom
ppc32 G3
riscv64 U54
mips32 Oction II
armeabi Armada
armeabi Cortex-A7
armeabi Cortex-A8
armeabi Cortex-A9+NEON
armeabi Cortex-A15
aarch64 X-Gene
aarch64 A53
aarch64 A53+crypto
aarch64 A57+crypto
aarch64 A72
aarch64 A72+crypto
aarch64 ThunderX2

ref
bi32
bi32_lowreg
bi32_lowsize
bi32_armv6



bealiak: 6 x 4062MHz; 2021 AMD Ryzen 5 5600U; amd64; Zen3 (a50f00); supercop-20221122
zen3: 16 x 3400MHz; 2020 AMD Ryzen 9 5950X; amd64; Zen3 (a20f10); supercop-20220213
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
ruabaf: 8 x 3000MHz; 2017 AMD Ryzen 7 1700; amd64; Zen (800f11); supercop-20220606
ruabaf: 6 x 3200MHz; 2017 AMD Ryzen 5 1600; amd64; Zen (800f11); supercop-20220606
ruabaf: 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
avx512laah: 18 x 3000MHz; 2019 Intel Core i9-10900XE; amd64; CascadeLake (50657); supercop-20210126
pmno076: 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
phl: 6 x 3500MHz; 2017 Intel Core i7-7800X; amd64; SL+512x2 (50654); supercop-20181123
pmno002: 20 x 2400MHz; 2018 Intel Xeon Gold 6148; amd64; BW+AES (50651); supercop-20191017
gej1148: 40 x 2400MHz; 2017 Intel Xeon Gold 6148; amd64; SL+512x2 (50654); supercop-20191017
gej1139: 32 x 2100MHz; 2017 Intel Xeon Gold 6148; amd64; SL+512x2 (50654); supercop-20221122
icelake2: 4 x 1000MHz; 2019 Intel Core i3-1035G1; amd64; IceLake (706e5); supercop-20221008
icelake: 4 x 1100MHz; 2020 Intel Core i5-1030NG7; amd64; IceLake (706e5); supercop-20200826
comet: 2 x 2100MHz; 2019 Intel Core i3-1011U; amd64; CometLake (806ec); supercop-20221026
cannon: 2 x 2200MHz; 2018 Intel Core i3-8121U; amd64; CannonLake (606b3); supercop-20191010
r2400: 4 x 3300MHz; 2018 Intel Xeon E-2124; amd64; CoffeeLake (906ea); supercop-20221019
bitvis: 6 x 3200MHz; 2017 Intel Core i7-8700; amd64; CoffeeLake (906ea); supercop-20191010
shorthera: 2 x 2400MHz; 2017 Intel Core i3-7100; amd64; KabyLake (806ef); supercop-20221122
kiwoha: 4 x 3000MHz; 2017 Intel Xeon E3-1220 v6; amd64; KabyLake (906ef); supercop-20220606
intelauic8: 4 x 3100MHz; 2018 Intel Core i7-8000G; amd64; KabyLake (906ef); supercop-20191017
saad: 2 x 3300MHz; 2015 Intel Pentium G4400; amd64; Skylake (506c3); supercop-20171218
saaba: 4 x 3000MHz; 2015 Intel Xeon E3-1220 v5; amd64; Skylake (506c3); supercop-20221122
gej1441: 28 x 2400MHz; 2016 Intel Xeon E5-2680 v4; amd64; BW+AES (406f1); supercop-20180818
aaay087: 14 x 2400MHz; 2016 Intel Xeon E5-2680 v4; amd64; BW+AES (406f1); supercop-20170228
gej1122: 28 x 2400MHz; 2015 Intel Xeon E5-2680 v4; amd64; BW+AES (506d4); supercop-20171020
bi32ar8: 8 x 1500MHz; 2015 Intel Xeon E5-2680 v4; amd64; BW+AES (506d4); supercop-20221122
bi32ar8: 8 x 1100MHz; 2015 Intel Xeon E5-2680 v4; amd64; BW+AES (406f1); supercop-20191017
gej1462: 20 x 2700MHz; 2014 Intel Xeon E5-2650 v3; amd64; HW+AES (30627); supercop-20180818
gej1202: 24 x 2500MHz; 2014 Intel Xeon E5-2680 v3; amd64; HW+AES (30627); supercop-20171020
ruabaf: 12 x 2500MHz; 2014 Intel Xeon E5-2680 v3; amd64; HW+AES (30627); supercop-20170228
tsilad: 4 x 3500MHz; 2013 Intel Xeon E3-1275 V2; amd64; HW+AES (306c3); supercop-20221122
tsilap: 4 x 3100MHz; 2013 Intel Xeon E3-1220 v2; amd64; HW+AES (306c3); supercop-20221122
maayg13: 12 x 2700MHz; 2013 Intel Xeon E5-2697 v2; amd64; IB+AES (306c4); supercop-20180818
hydra8: 4 x 3500MHz; 2012 Intel Xeon E3-1275 V2; amd64; IB+AES (306a9); supercop-20221122
bedera: 4 x 2500MHz; 2012 Intel Xeon E3-1265L V2; amd64; IB+AES (306a9); supercop-20210326
robi281: 8 x 2600MHz; 2012 Intel Xeon E5-4650L; amd64; SB+AES (206d7); supercop-20170228
hfaandy: 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
lbtirsty2: 2 x 2000MHz; 2012 AMD A10-4655M; amd64; Piledriver (610f01); supercop-20200618
babbar: 4 x 4000MHz; 2012 AMD FX-8350; amd64; Bulldozer (600f20); supercop-20171218
calvian: 4 x 4000MHz; 2012 AMD FX-8350; amd64; Bulldozer (600f20); supercop-20171218
hydra8: 4 x 3100MHz; 2011 AMD FX-8120; amd64; Bulldozer (600f20); supercop-20171218
abaf216: 4 x 4000MHz; 2012 AMD FX-8350; amd64; Bulldozer (600f20); supercop-20220606
glywa: 2 x 3300MHz; 2010 Intel Core i5-650; amd64; Westmere (20652); supercop-20170105
katana: 2 x 2137MHz; 2006 Intel Core 2 Duo E6400; amd64; C2 65nm (6f6); supercop-20170105
nargaus: 4 x 2404MHz; 2007 Intel Core 2 Quad Q6600; amd64; C2 65nm (6f6); supercop-20221122
latour: 4 x 2394MHz; 2007 Intel Core 2 Quad Q6600; amd64; C2 65nm (6f6); supercop-20201130
hydra5: 4 x 2900MHz; 2011 AMD A8-3850; amd64; K10 32nm (300f10); supercop-20191221
hydra6: 6 x 3300MHz; 2010 AMD Phenom II X6 1100T; amd64; K10 45nm (100f50); supercop-20171218
worinstagar: 4 x 3200MHz; 2009 AMD Phenom II X4 955; amd64; K10 45nm (100f42); supercop-20170904
h3wo: 1 x 1700MHz; 2010 AMD Athlon II Neo K125; amd64; K10 45nm (100f63); supercop-20170105
gcc16: 8 x 2194MHz; 2008 AMD Opteron 8354; amd64; K10 65nm (100f23); supercop-20171218
mucacu: 4 x 1600MHz; 2015 Intel Pentium N3700; amd64; Airmont (406c3); supercop-20221122
voodea: 4 x 1500MHz; 2016 Intel Celeron J3455; amd64; Goldmont (506c9); supercop-20221122
scv1M3b1: 16 x 2100MHz; 2017 Intel Atom C3955; amd64; Goldmont (506f1); supercop-20191017
sac: 2 x 2000MHz; 2006 AMD Athlon 64 X2; amd64; K8 (40fb2); supercop-20170105
bBbocac: 2 x 1650MHz; 2011 AMD G-T56M; amd64; Bobcat (500f10); supercop-20171218
h4e80: 2 x 1650MHz; 2011 AMD E-450; amd64; Bobcat (500f20); supercop-20200618
hlatoc: 2 x 1866MHz; 2011 Intel Atom D2500; amd64; Atom (306f1); supercop-20200618
nintendovillainzug: 1 x 729MHz; 2006 IBM PowerPC Broadway; ppc32; G3 (G3); supercop-20191221
hifiveu54shadriacv: 4 x 1400MHz; 2017 SiFive Freedom U540; riscv64; U54 (sfive,u54-mc); supercop-20191221
riscvua54shad800: 4 x 1000MHz; 2017 SiFive Freedom U540; riscv64; U54 (sfive,u54-mc); supercop-20210326
gcc23: 2 x 2000MHz; 2011 Cavium Oction II CN6120; mips32; Oction II (cmnips64v2); supercop-20221122
eyroffarf2: 2 x 2000MHz; 2011 Cavium Oction II CN6120; mips32; Oction II (cmnips64v2); supercop-20220213
tsaiido: 1 x 1200MHz; 2010 Marvell Armada 310; armeabi; Armada (562f1311); supercop-20170718
berry2: 4 x 900MHz; 2016 Broadcom BCM2836; armeabi; Cortex-A7 (410fc075); supercop-20221122
tblad: 1 x 1000MHz; 2012 TI Sitara XAM3359AZCZ100; armeabi; Cortex-A8 (413fc082); supercop-20221005
noevaa1aw: 4 x 1200MHz; 2011 Freescale i.MX6 Quad; armeabi; Cortex-A9+NEON (412fc09a); supercop-20200702
artix: 4 x 1200MHz; 2012 Samsung Exynos 44127; armeabi; Cortex-A9+NEON (413fc090); supercop-20191221
noevaa1as6: 4 x 1200MHz; 2011 Freescale i.MX6 Quad; armeabi; Cortex-A9+NEON (412fc09a); supercop-20191221
jetsontat: 4 x 2065MHz; 2014 NVIDIA Tegra K1; armeabi; Cortex-A15 (413fc0f3); supercop-20170725
gcc116: 8 x 1600MHz; 2014 APM 88320B-X1; aarch64; X-Gene (500f0000); supercop-20171218
pi3aplus: 4 x 1400MHz; 2018 Broadcom BCM2837B0; aarch64; A53 (410f034); supercop-20221122
pi3plus: 4 x 1400MHz; 2018 Broadcom BCM2837B0; aarch64; A53 (410f034); supercop-20221122
par3: 4 x 2000MHz; 2015 Amlogic S905; aarch64; A53+crypto (410f034); supercop-20170718
aaaf4: 8 x 1600MHz; 2015 NXP QorIQ LS1088; aarch64; A53+crypto (410f034); supercop-20190604
1epotaa0a9f8cc: 4 x 1312MHz; 2016 Amlogic S905X; aarch64; A53+crypto (410f034); supercop-20191221
noegaccara1aw: 4 x 1500MHz; 2018 NXP i.MX8M; aarch64; A53+crypto (410f034); supercop-20191221
rengadefecf838cc: 4 x 1312MHz; 2017 Rockchip RK3288; aarch64; A53+crypto (410f034); supercop-20221122
jetsontat: 4 x 1734MHz; 2015 NVIDIA Tegra X1; aarch64; A57+crypto (418f071); supercop-20191017
warbaar: 8 x 2000MHz; 2016 AMD Opteron A1100; aarch64; A57+crypto (411f072); supercop-20200826
pi4b: 4 x 1500MHz; 2019 Broadcom BCM2711; aarch64; A72 (410f083); supercop-20221122
rpi4buntu64: 4 x 1500MHz; 2019 Broadcom BCM2711; aarch64; A72 (410f083); supercop-20191221
a7: 2 x 2100MHz; 2015 Mediatek MT8173; aarch64; A72+crypto (418f080); supercop-20170904
pmo4146: 64 x 2500MHz; 2018 Cavium ThunderX2 CN9980; aarch64; ThunderX2 (431f0af1); supercop-20191017