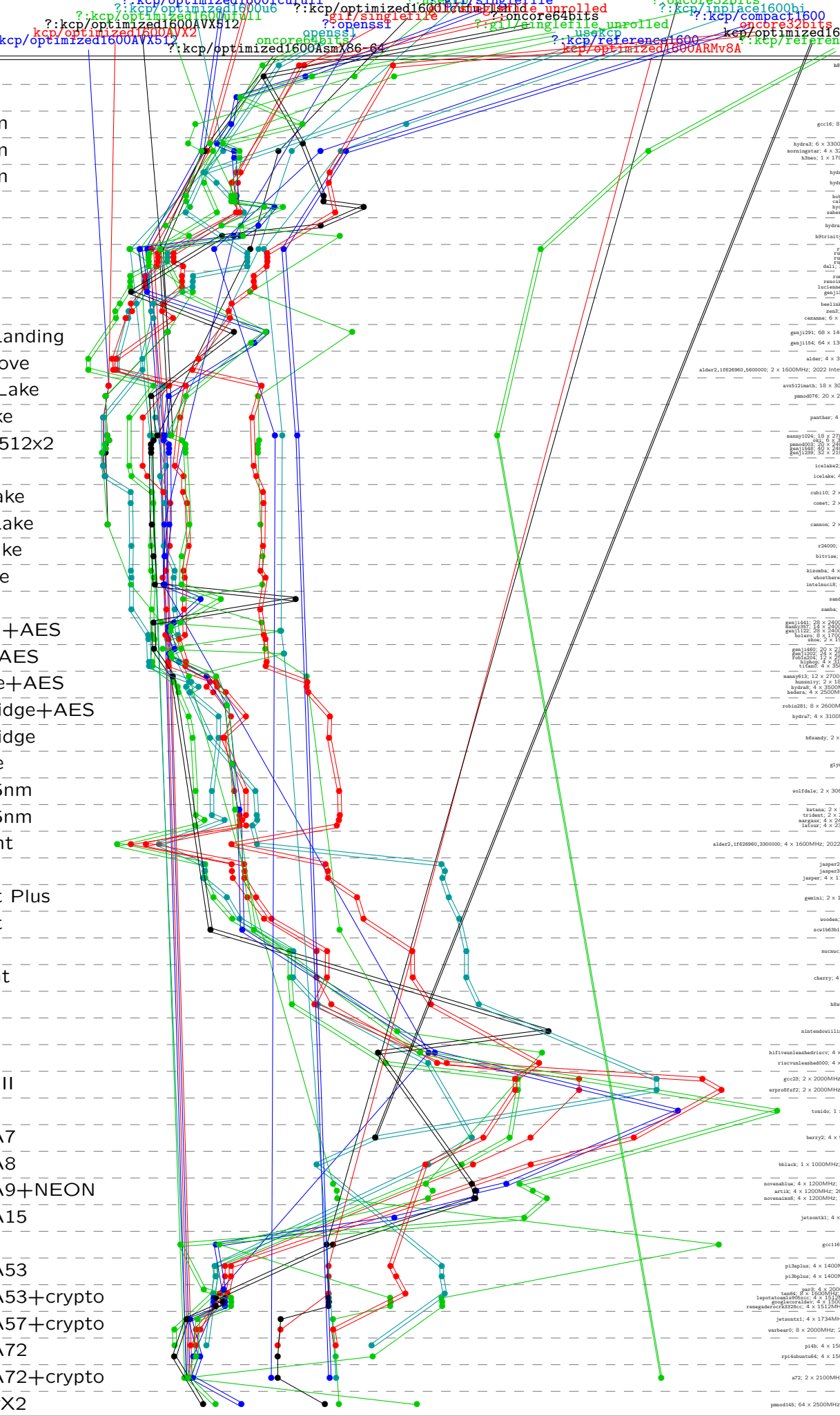


crypto\_hash  
 shake256  
 implementations  
 amd64 Bobcat  
 amd64 K8  
 amd64 K10 65nm  
 amd64 K10 45nm  
 amd64 K10 32nm  
 amd64 Bulldozer  
 amd64 Piledriver  
 amd64 Zen  
 amd64 Zen 2  
 amd64 Zen 3  
 amd64 Knights Landing  
 amd64 Golden Cove  
 amd64 Cascade Lake  
 amd64 Tiger Lake  
 amd64 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  
 mipso32 Octeon II  
 armeabi Armada  
 armeabi Cortex-A7  
 armeabi Cortex-A8  
 armeabi Cortex-A9+NEON  
 armeabi Cortex-A15  
 aarch64 X-Genie  
 aarch64 Cortex-A53  
 aarch64 Cortex-A53+crypto  
 aarch64 Cortex-A57+crypto  
 aarch64 Cortex-A72  
 aarch64 Cortex-A72+crypto  
 aarch64 ThunderX2  
 Time



Implementation	Configuration	Performance Metric
amd64 Bobcat	bBobcat: 2 x 1650MHz; 2011 AMD G-T56n; amd64; Bobcat (500F10); supercop-20230630	16384
amd64 K8	m4450; 2 x 1650MHz; 2011 AMD E-450; amd64; Bobcat (500F20); supercop-20200618	16384
amd64 K10 65nm	naaa; 2 x 2000MHz; 2006 AMD Athlon 64 X2; amd64; K8 (40fB2); supercop-20170105	16384
amd64 K10 45nm	gcc16; 8 x 2194MHz; 2008 AMD Opteron 8354; amd64; K10 65nm (100F23); supercop-20171218	16384
amd64 K10 32nm	hydra3; 6 x 3300MHz; 2010 AMD Phenom II X6 1100T; amd64; K10 45nm (100F40); supercop-20171218	16384
amd64 Bulldozer	sonnigstar; 4 x 3200MHz; 2009 AMD Phenom II X4 955; amd64; K10 45nm (100F42); supercop-20170904	16384
amd64 Piledriver	h3aw; 1 x 1700MHz; 2010 AMD Athlon II Neo K125; amd64; K10 45nm (100F63); supercop-20170105	16384
amd64 Zen	hydra4; 4 x 2600MHz; 2011 AMD A6-3650; amd64; K10 32nm (300F10); supercop-20230630	16384
amd64 Zen 2	hydra5; 4 x 2900MHz; 2011 AMD A8-3850; amd64; K10 32nm (300F10); supercop-20230630	16384
amd64 Zen 3	bobcat; 4 x 4000MHz; 2012 AMD FX-8350; amd64; Bulldozer (500F20); supercop-20171218	16384
amd64 Knights Landing	calista; 4 x 4000MHz; 2012 AMD FX-8350; amd64; Bulldozer (500F20); supercop-20171218	16384
amd64 Golden Cove	hydra4; 4 x 3100MHz; 2011 AMD FX-8120; amd64; Bulldozer (500F12); supercop-20171218	16384
amd64 Cascade Lake	nawer216; 4 x 4000MHz; 2012 AMD FX-8350; amd64; Bulldozer (500F20); supercop-20230630	16384
amd64 Tiger Lake	hydra3; 2 x 3800MHz; 2012 AMD A10-5800K; amd64; Piledriver (610F11); supercop-20171218	16384
amd64 Skylake+512x2	alprarity; 2 x 2000MHz; 2012 AMD A10-4655M; amd64; Piledriver (610F11); supercop-20200618	16384
amd64 Ice Lake	ryzen; 8 x 3000MHz; 2017 AMD Ryzen 7 1700; amd64; Zen (800H11); supercop-20170825	16384
amd64 Comet Lake	ryzen; 8 x 3000MHz; 2017 AMD Ryzen 7 1700; amd64; Zen (800H11); supercop-20170825	16384
amd64 Cannon Lake	ryzen; 8 x 3000MHz; 2017 AMD Ryzen 7 1700; amd64; Zen (800H11); supercop-20170825	16384
amd64 Coffee Lake	ryzen; 8 x 3000MHz; 2017 AMD Ryzen 7 1700; amd64; Zen (800H11); supercop-20170825	16384
amd64 Kaby Lake	ryzen; 8 x 3000MHz; 2017 AMD Ryzen 7 1700; amd64; Zen (800H11); supercop-20170825	16384
amd64 Skylake	ryzen; 8 x 3000MHz; 2017 AMD Ryzen 7 1700; amd64; Zen (800H11); supercop-20170825	16384
amd64 Broadwell+AES	ryzen; 8 x 3000MHz; 2017 AMD Ryzen 7 1700; amd64; Zen (800H11); supercop-20170825	16384
amd64 Haswell+AES	ryzen; 8 x 3000MHz; 2017 AMD Ryzen 7 1700; amd64; Zen (800H11); supercop-20170825	16384
amd64 Ivy Bridge+AES	ryzen; 8 x 3000MHz; 2017 AMD Ryzen 7 1700; amd64; Zen (800H11); supercop-20170825	16384
amd64 Sandy Bridge+AES	ryzen; 8 x 3000MHz; 2017 AMD Ryzen 7 1700; amd64; Zen (800H11); supercop-20170825	16384
amd64 Sandy Bridge	ryzen; 8 x 3000MHz; 2017 AMD Ryzen 7 1700; amd64; Zen (800H11); supercop-20170825	16384
amd64 Westmere	ryzen; 8 x 3000MHz; 2017 AMD Ryzen 7 1700; amd64; Zen (800H11); supercop-20170825	16384
amd64 Core 2 45nm	ryzen; 8 x 3000MHz; 2017 AMD Ryzen 7 1700; amd64; Zen (800H11); supercop-20170825	16384
amd64 Core 2 65nm	ryzen; 8 x 3000MHz; 2017 AMD Ryzen 7 1700; amd64; Zen (800H11); supercop-20170825	16384
amd64 Gracemont	ryzen; 8 x 3000MHz; 2017 AMD Ryzen 7 1700; amd64; Zen (800H11); supercop-20170825	16384
amd64 Tremont	ryzen; 8 x 3000MHz; 2017 AMD Ryzen 7 1700; amd64; Zen (800H11); supercop-20170825	16384
amd64 Goldmont Plus	ryzen; 8 x 3000MHz; 2017 AMD Ryzen 7 1700; amd64; Zen (800H11); supercop-20170825	16384
amd64 Goldmont	ryzen; 8 x 3000MHz; 2017 AMD Ryzen 7 1700; amd64; Zen (800H11); supercop-20170825	16384
amd64 Airmont	ryzen; 8 x 3000MHz; 2017 AMD Ryzen 7 1700; amd64; Zen (800H11); supercop-20170825	16384
amd64 Silvermont	ryzen; 8 x 3000MHz; 2017 AMD Ryzen 7 1700; amd64; Zen (800H11); supercop-20170825	16384
amd64 Bonnell	ryzen; 8 x 3000MHz; 2017 AMD Ryzen 7 1700; amd64; Zen (800H11); supercop-20170825	16384
ppc32 G3	alder; 4 x 3300MHz; 2022 Intel Core i3-12100; amd64; Golden Cove (906F3-00); supercop-20230630	16384
riscv64 U54	alder2;1f62690;5600000; 2 x 1600MHz; 2022 Intel Core i3-1215U performance cores; amd64; Golden Cove (906A4-00); supercop-20230630	16384
mipso32 Octeon II	avx512matb; 18 x 3000MHz; 2019 Intel Core i9-10980XE; amd64; Cascade Lake (506F7); supercop-20210126	16384
armeabi Armada	pmo0476; 20 x 2500MHz; 2019 Intel Xeon Gold 6248; amd64; Cascade Lake (506F7); supercop-20191017	16384
armeabi Cortex-A7	panther; 4 x 2800MHz; 2020 Intel Core i7-1165G7; amd64; Tiger Lake (806C1); supercop-20230630	16384
armeabi Cortex-A8	manj1024; 10 x 2100MHz; 2017 Intel Core i7-7700; amd64; Skylake (806C1); supercop-20230630	16384
armeabi Cortex-A9+NEON	manj1024; 10 x 2100MHz; 2017 Intel Core i7-7700; amd64; Skylake (806C1); supercop-20230630	16384
armeabi Cortex-A15	manj1024; 10 x 2100MHz; 2017 Intel Core i7-7700; amd64; Skylake (806C1); supercop-20230630	16384
aarch64 X-Genie	icelake2; 4 x 1000MHz; 2019 Intel Core i3-1035G1; amd64; Ice Lake (706E5); supercop-20221015	16384
aarch64 Cortex-A53	icelake2; 4 x 1100MHz; 2020 Intel Core i5-1030NG7; amd64; Ice Lake (706E5); supercop-20200626	16384
aarch64 Cortex-A53+crypto	comet; 2 x 2100MHz; 2019 Intel Core i3-10110U; amd64; Comet Lake (806C); supercop-20230630	16384
aarch64 Cortex-A57+crypto	comet; 2 x 2100MHz; 2019 Intel Core i3-10110U; amd64; Comet Lake (806C); supercop-20230630	16384
aarch64 Cortex-A72	canon; 2 x 2200MHz; 2018 Intel Core i3-8121U; amd64; Cannon Lake (906F3); supercop-20190910	16384
aarch64 Cortex-A72+crypto	c0800; 4 x 3300MHz; 2018 Intel Xeon E-2124; amd64; Coffee Lake (906A); supercop-20230630	16384
aarch64 ThunderX2	c0800; 4 x 3300MHz; 2018 Intel Xeon E-2124; amd64; Coffee Lake (906A); supercop-20230630	16384