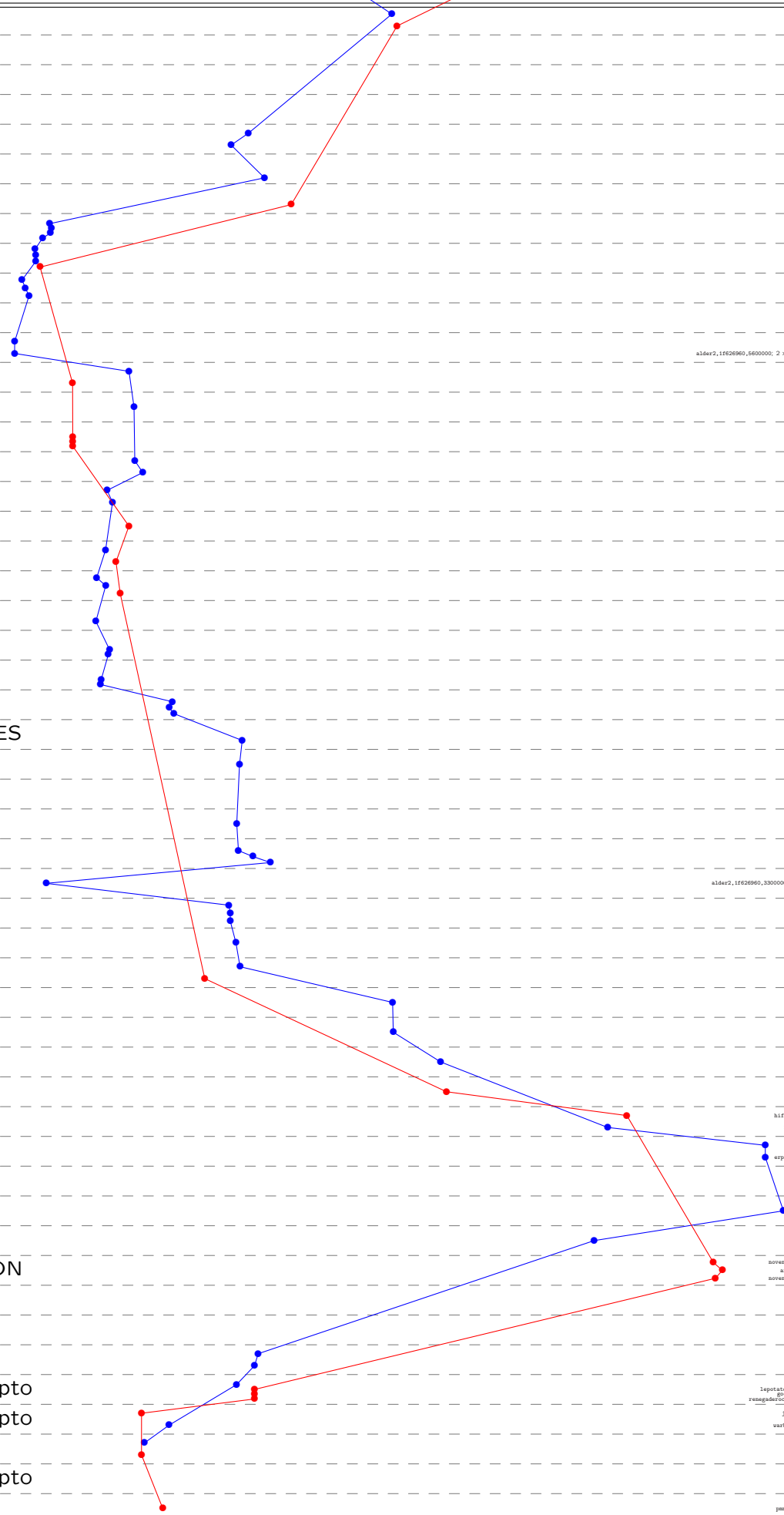


crypto\_hash  
knot384  
implementations  
amd64 Bobcat  
amd64 K8  
amd64 K10 65nm  
amd64 K10 45nm  
amd64 K10 32nm  
amd64 Bulldozer  
amd64 Piledriver  
amd64 Zen  
amd64 Zen 2  
amd64 Zen 3  
amd64 Knights Landing  
amd64 Golden Cove  
amd64 Cascade Lake  
amd64 Tiger Lake  
amd64 Skylake+512x2  
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 Oocteon 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

T:ref

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bbobcat: 2 x 1650MHz; 2011 AMD G-T56n; amd64; Bobcat (600F10); <a href="#">supercep-20230630</a>
m4e50: 2 x 1650MHz; 2011 AMD E-450; amd64; Bobcat (600F20); <a href="#">supercep-20200618</a>
mac: 2 x 2000MHz; 2006 AMD Athlon 64 X2; amd64; K8 (40fb2); <a href="#">supercep-20171015</a>
gcc16: 8 x 2194MHz; 2008 AMD Opteron 8354; amd64; K10 65nm (100F23); <a href="#">supercep-20171218</a>
hydra3: 6 x 3300MHz; 2010 AMD Phenom II X6 1100T; amd64; K10 45nm (100f0a); <a href="#">supercep-20171218</a>
sonnigstar: 4 x 3200MHz; 2009 AMD Phenom II X4 955; amd64; K10 45nm (100f42); <a href="#">supercep-20170904</a>
h3aw: 1 x 1700MHz; 2010 AMD Athlon II Neo K125; amd64; K10 45nm (100f63); <a href="#">supercep-20171218</a>
hydra4: 4 x 2600MHz; 2011 AMD A8-3850; amd64; K10 32nm (300F10); <a href="#">supercep-20230630</a>
hydra5: 4 x 2900MHz; 2011 AMD A8-3850; amd64; K10 32nm (300F10); <a href="#">supercep-20230630</a>
bobcat: 4 x 4000MHz; 2012 AMD FX-8350; amd64; Bulldozer (600P20); <a href="#">supercep-20171218</a>
calista: 4 x 4000MHz; 2012 AMD FX-8350; amd64; Bulldozer (600P20); <a href="#">supercep-20171218</a>
hydra4: 4 x 3100MHz; 2011 AMD FX-8120; amd64; Bulldozer (600P12); <a href="#">supercep-20171218</a>
hawer16: 4 x 4000MHz; 2012 AMD FX-8350; amd64; Bulldozer (600P20); <a href="#">supercep-20230630</a>
hydra9: 2 x 3800MHz; 2012 AMD A10-5800K; amd64; Piledriver (610F01); <a href="#">supercep-20171218</a>
fpriority: 2 x 2000MHz; 2012 AMD A10-4655M; amd64; Piledriver (610F01); <a href="#">supercep-20200618</a>
zeon: 8 x 3000MHz; 2017 AMD Ryzen 7 1700; amd64; Zen (800H11); <a href="#">supercep-20211222</a>
zeon: 8 x 3000MHz; 2017 AMD Ryzen 7 1700; amd64; Zen (800H11); <a href="#">supercep-20211222</a>
rubus4: 4 x 3100MHz; 2016 AMD Ryzen 3 1300U; amd64; Zen (800H11); <a href="#">supercep-20211222</a>
rubus4: 4 x 3100MHz; 2016 AMD Ryzen 3 1300U; amd64; Zen (800H11); <a href="#">supercep-20211222</a>
dali: 2 x 1600MHz; 2010 AMD Athlon 64 X2; amd64; K8 (40fb2); <a href="#">supercep-20171015</a>
zeon: 64 x 2250MHz; 2019 AMD EPYC 7742; amd64; Zen 2 (830F10); <a href="#">supercep-20230630</a>
zeon: 6 x 3600MHz; 2022 AMD Ryzen 5 4500U; amd64; Zen 2 (860H01); <a href="#">supercep-20230630</a>
lacienne: 4 x 2600MHz; 2021 AMD Ryzen 3 3300U; amd64; Zen 2 (830F10); <a href="#">supercep-20230630</a>
gwj1346: 64 x 2000MHz; 2019 AMD EPYC 7702; amd64; Zen 2 (830F10); <a href="#">supercep-20191017</a>
beeline: 6 x 4062MHz; 2021 AMD Ryzen 5 5560U; amd64; Zen 3 (a50F00); <a href="#">supercep-20211222</a>
swan: 16 x 3400MHz; 2020 AMD Ryzen 9 5950X; amd64; Zen 3 (a50F10); <a href="#">supercep-20211222</a>
cezanne: 6 x 3900MHz; 2021 AMD Ryzen 5 PRO 5650G; amd64; Zen 3 (a50F00); <a href="#">supercep-20230630</a>
gwj1291: 68 x 1400MHz; 2016 Intel Xeon Phi 7250; amd64; Knights Landing (50671); <a href="#">supercep-20180818</a>
gwj1154: 64 x 1300MHz; 2016 Intel Xeon Phi 7210; amd64; Knights Landing (50671); <a href="#">supercep-20170228</a>
alder: 4 x 3300MHz; 2022 Intel Core i3-12100; amd64; Golden Cove (90673-00); <a href="#">supercep-20230630</a>
alder1,1f62690,1560000: 2 x 1600MHz; 2022 Intel Core i3-1215U performance cores; amd64; Golden Cove (906A4-40); <a href="#">supercep-20230630</a>
avx512max: 18 x 3000MHz; 2019 Intel Core i9-10980XE; amd64; Cascade Lake (50657); <a href="#">supercep-20210126</a>
penod76: 20 x 2500MHz; 2019 Intel Xeon Gold 6248; amd64; Cascade Lake (50657); <a href="#">supercep-20191017</a>
panther: 4 x 2800MHz; 2020 Intel Core i7-1165G7; amd64; Tiger Lake (806c1); <a href="#">supercep-20230630</a>
sanjay1024: 18 x 2100MHz; 2017 Intel Xeon Gold 6150; amd64; Skylake+512x2 (906E4); <a href="#">supercep-20170804</a>
panther: 8 x 2500MHz; 2017 Intel Core i7-8750; amd64; Coffee Lake (906e4); <a href="#">supercep-20211222</a>
gwj1291: 68 x 1400MHz; 2016 Intel Xeon Phi 7250; amd64; Knights Landing (50671); <a href="#">supercep-20180818</a>
gwj1154: 64 x 1300MHz; 2016 Intel Xeon Phi 7210; amd64; Knights Landing (50671); <a href="#">supercep-20170228</a>
icelake2: 4 x 1000MHz; 2019 Intel Core i3-1035G1; amd64; Ice Lake (706e5); <a href="#">supercep-20221005</a>
icelake: 4 x 1100MHz; 2020 Intel Core i5-1030NG7; amd64; Ice Lake (706e5); <a href="#">supercep-20200626</a>
cubio: 2 x 2100MHz; 2019 Intel Core i3-10110U; amd64; Comet Lake (806ec); <a href="#">supercep-20230630</a>
cosat: 2 x 2100MHz; 2019 Intel Core i3-10110U; amd64; Comet Lake (806ec); <a href="#">supercep-20230630</a>
canon: 2 x 2200MHz; 2018 Intel Core i3-8121U; amd64; Cannon Lake (90663); <a href="#">supercep-20190910</a>
r3000: 4 x 3300MHz; 2018 Intel Xeon E-2124; amd64; Coffee Lake (906e4); <a href="#">supercep-20230630</a>
bitvix: 6 x 3200MHz; 2017 Intel Core i7-8700; amd64; Coffee Lake (906e4); <a href="#">supercep-20190910</a>
kizama: 4 x 3000MHz; 2017 Intel Xeon E3-1220 v6; amd64; Kaby Lake (906e9); <a href="#">supercep-20230630</a>
shoalwater: 2 x 2400MHz; 2017 Intel Core i3-7100; amd64; Kaby Lake (906e9); <a href="#">supercep-20211222</a>
italacali: 4 x 3100MHz; 2018 Intel Core i7-8809G; amd64; Kaby Lake (906e9); <a href="#">supercep-20191017</a>
saad: 2 x 3300MHz; 2015 Intel Pentium G4400; amd64; Skylake (506e3); <a href="#">supercep-20171218</a>
saaba: 4 x 3000MHz; 2015 Intel Xeon E3-1220 v5; amd64; Skylake (506e3); <a href="#">supercep-20230630</a>
gwj1154: 64 x 1300MHz; 2016 Intel Xeon Phi 7210; amd64; Knights Landing (50671); <a href="#">supercep-20170228</a>
Sanjay1024: 18 x 2100MHz; 2017 Intel Xeon Gold 6150; amd64; Skylake+512x2 (906E4); <a href="#">supercep-20170804</a>
panther: 8 x 2500MHz; 2017 Intel Core i7-8750; amd64; Coffee Lake (906e4); <a href="#">supercep-20211222</a>
bolshoi: 8 x 1900MHz; 2015 Intel Core i3-5005U; amd64; Broadwell+AES (406f1); <a href="#">supercep-20230630</a>
alder: 4 x 3300MHz; 2022 Intel Core i3-1215U efficiency cores; amd64; Gracemont (906A4-20); <a href="#">supercep-20230630</a>
gwj1154: 64 x 1300MHz; 2016 Intel Xeon Phi 7210; amd64; Knights Landing (50671); <a href="#">supercep-20170228</a>
Sanjay1024: 18 x 2100MHz; 2017 Intel Xeon Gold 6150; amd64; Skylake+512x2 (906E4); <a href="#">supercep-20170804</a>
panther: 8 x 2500MHz; 2017 Intel Core i7-8750; amd64; Coffee Lake (906e4); <a href="#">supercep-20211222</a>
bolshoi: 8 x 1900MHz; 2015 Intel Core i3-5005U; amd64; Broadwell+AES (406f1); <a href="#">supercep-20230630</a>
gwj1154: 64 x 1300MHz; 2016 Intel Xeon Phi 7210; amd64; Knights Landing (50671); <a href="#">supercep-20170228</a>
Sanjay1024: 18 x 2100MHz; 2017 Intel Xeon Gold 6150; amd64; Skylake+512x2 (906E4); <a href="#">supercep-20170804</a>
panther: 8 x 2500MHz; 2017 Intel Core i7-8750; amd64; Coffee Lake (906e4); <a href="#">supercep-20211222</a>
bolshoi: 8 x 1900MHz; 2015 Intel Core i3-5005U; amd64; Broadwell+AES (406f1); <a href="#">supercep-20230630</a>
sanjay113: 12 x 2700MHz; 2013 Intel Xeon E5-2697 v2; amd64; Ivy Bridge+AES (306e4); <a href="#">supercep-20180818</a>
sanjay13: 12 x 2700MHz; 2013 Intel Xeon E5-2697 v2; amd64; Ivy Bridge+AES (306e4); <a href="#">supercep-20180818</a>
hansiviy: 2 x 1800MHz; 2012 Intel Core i5-3427U; amd64; Ivy Bridge+AES (306e9); <a href="#">supercep-20230630</a>
hydra6: 4 x 3500MHz; 2012 Intel Xeon E3-1275 V2; amd64; Ivy Bridge+AES (306e9); <a href="#">supercep-20230630</a>
bedera: 4 x 2500MHz; 2012 Intel Xeon E3-1265L V2; amd64; Ivy Bridge+AES (306e9); <a href="#">supercep-20210326</a>
robia281: 8 x 2600MHz; 2012 Intel Xeon E5-4650L; amd64; Sandy Bridge+AES (206d7); <a href="#">supercep-20170228</a>
hydra7: 4 x 3100MHz; 2011 Intel Xeon E3-1225; amd64; Sandy Bridge+AES (206d7); <a href="#">supercep-20230630</a>
h6saandy: 2 x 2100MHz; 2011 Intel Core i3-2310M; amd64; Sandy Bridge (206a7); <a href="#">supercep-20221122</a>
g1ysw: 2 x 3200MHz; 2010 Intel Core i5-650; amd64; Westmere (20652); <a href="#">supercep-20171015</a>
voifdale: 2 x 3060MHz; 2009 Intel Core 2 Duo E7600; amd64; Core 2 45nm (1067a); <a href="#">supercep-20230630</a>
katana: 2 x 2137MHz; 2006 Intel Core 2 Duo E6400; amd64; Core 2 65nm (6f6); <a href="#">supercep-20171015</a>
trslant: 2 x 2000MHz; 2007 Intel Core 2 Duo T7300; amd64; Core 2 65nm (6f6); <a href="#">supercep-20230630</a>
naagat: 4 x 2604MHz; 2007 Intel Core 2 Quad Q6600; amd64; Core 2 65nm (6f6); <a href="#">supercep-20230630</a>
l'atour: 4 x 2394MHz; 2007 Intel Core 2 Quad Q6600; amd64; Core 2 65nm (6f6); <a href="#">supercep-20201130</a>
alder1,1f62690,3300000: 4 x 1600MHz; 2022 Intel Core i3-1215U efficiency cores; amd64; Gracemont (906A4-20); <a href="#">supercep-20230630</a>
jasper2: 2 x 1100MHz; 2021 Intel Celeron N4500; amd64; Tremont (906c0); <a href="#">supercep-20230630</a>
jasper3: 4 x 2000MHz; 2021 Intel Celeron N5105; amd64; Tremont (906c0); <a href="#">supercep-20230630</a>
jasper: 4 x 1100MHz; 2021 Intel Pentium Silver N6000; amd64; Tremont (906c0); <a href="#">supercep-20230630</a>
genisi: 2 x 1100MHz; 2019 Intel Celeron N4020; amd64; Goldmont Plus (706a8); <a href="#">supercep-20230630</a>
wooden: 4 x 1500MHz; 2016 Intel Celeron J3455; amd64; Goldmont (506c9); <a href="#">supercep-20230630</a>
soviM8h1: 16 x 2100MHz; 2017 Intel Atom C3955; amd64; Goldmont (506f1); <a href="#">supercep-20191017</a>
mucca: 4 x 1600MHz; 2015 Intel Pentium N3700; amd64; Airmont (406c3); <a href="#">supercep-20230630</a>
cherry: 4 x 1440MHz; 2016 Intel Atom i5-Z8350; amd64; Silvermont (406c4); <a href="#">supercep-20230630</a>
h8aton: 2 x 1866MHz; 2011 Intel Atom D2500; amd64; Bonnell (306e1); <a href="#">supercep-20230630</a>
alntendosilluaxng: 1 x 720MHz; 2006 IBM PowerPC Broadway; ppc32; G3 (G3); <a href="#">supercep-20191221</a>
hifiveu1aashedrivc: 4 x 1400MHz; 2017 SiFive Freedom U540; riscv64; U54 (sifive,u54-mc); <a href="#">supercep-20191221</a>
riscv1aashad000: 4 x 1000MHz; 2017 SiFive Freedom U540; riscv64; U54 (sifive,u54-mc); <a href="#">supercep-20210326</a>
gcc23: 2 x 2000MHz; 2011 Cavium Octeon II CN6120; mips32; Octeon II (cmnips64v2); <a href="#">supercep-20230630</a>
arproffaz7: 2 x 2000MHz; 2011 Cavium Octeon II CN6120; mips32; Octeon II (cmnips64v2); <a href="#">supercep-20220213</a>
teside: 1 x 1200MHz; 2010 Marvell Armada 310; armeabi; Armada (562f311); <a href="#">supercep-20170718</a>
berry2: 4 x 900MHz; 2016 Broadcom BCM2836; armeabi; Cortex-A7 (410f075); <a href="#">supercep-20230630</a>
hblack: 1 x 1000MHz; 2012 TI Sitara XAM3359AZCZ100; armeabi; Cortex-A8 (413fc082); <a href="#">supercep-20230630</a>
noevenblue: 4 x 1200MHz; 2011 Freescale i.MX6 Quad; armeabi; Cortex-A9+NEON (412fc09a); <a href="#">supercep-20200702</a>
artix: 4 x 1200MHz; 2012 Samsung Exynos 4412; armeabi; Cortex-A9+NEON (413fc090); <a href="#">supercep-20191221</a>
noevenblue: 4 x 1200MHz; 2011 Freescale i.MX6 Quad; armeabi; Cortex-A9+NEON (412fc09a); <a href="#">supercep-20191221</a>
jtsosati: 4 x 2065MHz; 2014 NVIDIA Tegra K1; armeabi; Cortex-A15 (413fc0f3); <a href="#">supercep-20170728</a>
gcc16: 8 x 1600MHz; 2014 APM 88320B-X1; aarch64; X-Gene (500f000); <a href="#">supercep-20171218</a>
pi3hplai: 4 x 1400MHz; 2018 Broadcom BCM2837B0; aarch64; Cortex-A53 (410f034); <a href="#">supercep-20230630</a>
pi3hplai: 4 x 1400MHz; 2018 Broadcom BCM2837B0; aarch64; Cortex-A53 (410f034); <a href="#">supercep-20221122</a>
leeds: 4 x 1500MHz; 2015 ARM Cortex-A53; aarch64; Cortex-A53+crypto (410f034); <a href="#">supercep-20170718</a>
leeds: 4 x 1500MHz; 2015 ARM Cortex-A53; aarch64; Cortex-A53+crypto (410f034); <a href="#">supercep-20170718</a>
goglacrasia: 4 x 1500MHz; 2015 NXP i.MX 8M; aarch64; Cortex-A53+crypto (410f034); <a href="#">supercep-20191221</a>
reagadeck8300c: 4 x 1820MHz; 2017 Rockchip RK3398; aarch64; Cortex-A53+crypto (410f034); <a href="#">supercep-20191221</a>
jtsosati: 4 x 1734MHz; 2015 NVIDIA Tegra X1; aarch64; Cortex-A57+crypto (418f071); <a href="#">supercep-20191017</a>
warbear: 8 x 2000MHz; 2016 AMD Opteron A1100; aarch64; Cortex-A57+crypto (411f072); <a href="#">supercep-20200626</a>
pi4h: 4 x 1500MHz; 2019 Broadcom BCM2711; aarch64; Cortex-A72 (410f083); <a href="#">supercep-20221122</a>
rpi4bunbu64: 4 x 1500MHz; 2019 Broadcom BCM2711; aarch64; Cortex-A72 (410f083); <a href="#">supercep-20191221</a>
a7: 2 x 2100MHz; 2015 Mediatek MT8173; aarch64; Cortex-A72+crypto (418f080); <a href="#">supercep-20170904</a>
pmo145: 64 x 2500MHz; 2018 Cavium ThunderX2 CN9980; aarch64; ThunderX2 (431f0af1); <a href="#">supercep-20191017</a>

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