

## Vysvětlení porovnání procesorů

V této příloze jsou uvedeny živé databáze výsledků a hodnoty se v nich mohou měnit v čase podle toho, jak přibývají měření od uživatelů. V čase mezi podáním nabídky a jejím zhodnocením může dojít k poklesu výkonnosti, a tudíž nesplnění zadání, přitom v době odeslání nabídky mohla sestava zadání splňovat. Abychom zabránili této potencionální diskriminaci dodavatelů, přikládáme opis z výše uvedených stránek, který se tímto stává neměnným. Akceptujeme taktéž sestavu, u které dodá dodavatel nebo výrobce vlastní měření jako důkaz, že splňuje zadání.

Výkonnostní testy hodnotí server (výrobce, model, typ) jako celek. Pro potřeby tohoto výběrového řízení porovnáváme pouze procesory. Je tedy možné nabídnout libovolný typ serveru od výrobce nebo modelu, který v seznamu není uveden, ale obsahuje procesor s bodovým hodnocením splňující zadávací podmínky (včetně ostatních jako je spotřeba, velikost L3 cache, počet threadů na jádro, ...) od jiného výrobce serveru (či modelu nebo typu).

Tato příloha slouží jako uchování hodnocení výkonu jednotlivých procesorů na trhu dle veřejně dostupné databáze. Je určena pro orientaci dodavatelů, který procesor výkonnostně vyhovuje či nevyhovuje zadání a pro zvýšení transparentnosti soutěže.

**Data byla z internetových databází získána dne 3.5.2023.**

### SPEC CPU2017 Floating Point Speed (SPEC CFP2017)

Bodové hodnocení procesorů v této příloze určuje pouze pořadí výkonnosti jednotlivých typů procesorů s ohledem na zapojení a dostupnosti měření procesorů. V tabulce je vždy seznam procesorů, které přicházejí v úvahu (splňují alespoň základní podmínku počtu jader a požadovanou rychlost) vždy pro každý typ serveru zvlášť. U každé konfigurace serveru je uveden odkaz na filtr, který byl použit pro vytvoření sestavy. CPU hodnotíme dle testu SPEC CPU2017 Floating Point Speed.

Adresa databáze: <https://www.spec.org/cgi-bin/osgresults?conf=cfp2017&op=form>

### CPU Benchmarks (PassMark)

Uspořádaný seznam procesorů, které svým výkonem odpovídají zadání, nemusí však odpovídat svým zapojením (Single, Dual, Quad) nebo ostatními parametry, ty je nutné ověřit na stránkách výrobce procesoru.

Adresa databáze: [https://www.cpubenchmark.net/CPU\\_mega\\_page.html](https://www.cpubenchmark.net/CPU_mega_page.html)

**CPU Benchmarks (PassMark)****URL:**[https://www.cpubenchmark.net/CPU\\_mega\\_page.html](https://www.cpubenchmark.net/CPU_mega_page.html)

<b>CPU Name</b>	<b>CPU Mark</b>
[Dual CPU] AMD EPYC 9654	149727
[Dual CPU] AMD EPYC 9554	143738
[Dual CPU] Intel Xeon Platinum 8480+	129411
AMD EPYC 9654	126045
[Dual CPU] AMD EPYC 7J13	119134
[Dual CPU] AMD EPYC 7763	118109
[Dual CPU] AMD EPYC 7643	115676
[Dual CPU] AMD EPYC 7T83	114203
[Dual CPU] AMD Ryzen Threadripper PRO 3995WX	113693
[Dual CPU] AMD EPYC 7713	112602
[Dual CPU] Intel Xeon Gold 6448Y	106832
[Dual CPU] AMD EPYC 7773X	106234
[Dual CPU] AMD EPYC 7573X	103531
[Dual CPU] AMD EPYC 7B12	102240
[Dual CPU] AMD EPYC 7K83	102053
[Dual CPU] AMD EPYC 7543	101710
[Dual CPU] AMD EPYC 7742	99760
[Dual CPU] AMD EPYC 75F3	99758
AMD EPYC 9474F	99068
[Dual CPU] AMD Ryzen Threadripper PRO 3975WX	98811
[Dual CPU] AMD EPYC 7H12	97449
AMD Ryzen Threadripper PRO 5995WX	97224
[Dual CPU] AMD EPYC 7662	97178
[Dual CPU] AMD EPYC 7513	96107
[Dual CPU] AMD EPYC 74F3	95545
[Dual CPU] AMD EPYC 7702	93706
[Dual CPU] Intel Xeon Gold 5420+	93290
[Dual CPU] AMD EPYC 7K62	93005
[Dual CPU] AMD EPYC 7R12	92961
[Dual CPU] Intel Xeon Platinum 8380 @ 2.30GHz	91485
[Dual CPU] AMD EPYC 9174F	90842
AMD EPYC 7773X	90731
[Dual CPU] Intel Xeon Platinum 8368 @ 2.40GHz	90457
[Dual CPU] AMD EPYC 7443	87675
[Dual CPU] Intel Xeon Platinum 8375C @ 2.90GHz	86346
AMD EPYC 7763	85915
AMD EPYC 7J13	85661
AMD EPYC 7713	85165
[Dual CPU] Intel Xeon Gold 5418Y	84673
[Quad CPU] Intel Xeon Platinum 8260 @ 2.40GHz	83793
[Dual CPU] AMD EPYC 7473X	83530
AMD EPYC 7713P	83439
AMD Ryzen Threadripper PRO 3995WX	83336
[Dual CPU] AMD EPYC 7532	82917
AMD EPYC 7V13	82878
[Dual CPU] Intel Xeon Platinum 8358 @ 2.60GHz	82802
AMD Ryzen Threadripper 3990X	81103
[Dual CPU] Intel Xeon Gold 6430	80969
[Dual CPU] AMD EPYC 7502	80226
AMD EPYC 9354P	79341
[Dual CPU] AMD EPYC 7453	79338
[Dual CPU] AMD EPYC 7452	77746
AMD EPYC 7B13	77460
[Quad CPU] Intel Xeon Gold 6256 @ 3.60GHz	76542
AMD EPYC 7643	76455
AMD Ryzen Threadripper PRO 5975WX	76103

[Dual CPU] Intel Xeon Gold 6348 @ 2.60GHz	75783
[Quad CPU] Intel Xeon E7-8890 v4 @ 2.20GHz	75539
[Dual CPU] AMD EPYC 7343	75422
[Dual CPU] AMD EPYC 7542	75117
AMD EPYC 7T83	74892
[Dual CPU] AMD EPYC 7R32	74520
[Dual CPU] AMD EPYC 7413	74417
[Dual CPU] Intel Xeon Gold 6342 @ 2.80GHz	73897
AMD EPYC 7662	73143
[Dual CPU] AMD EPYC 7552	72235
[Dual CPU] Intel Xeon Gold 6336Y @ 2.40GHz	71984
Intel Xeon w9-3475X	70850
AMD EPYC 7702	70618
[Dual CPU] Intel Xeon Gold 6338 @ 2.00GHz	68675
[Dual CPU] Intel Xeon Platinum 8352Y @ 2.20GHz	68643
AMD EPYC 75F3	68505
AMD EPYC 7543P	67081
[Dual CPU] Intel Xeon Platinum 8275CL @ 3.00GHz	66812
[Dual CPU] Intel Xeon Gold 5320 @ 2.20GHz	66409
AMD Ryzen Threadripper PRO 5965WX	66370
[Dual CPU] AMD EPYC 7352	66239
[Dual CPU] AMD EPYC 7313	66230
[Dual CPU] AMD EPYC 73F3	65909
[Dual CPU] Intel Xeon Gold 6338N @ 2.20GHz	65860
[Dual CPU] AMD EPYC 7F52	65659
AMD EPYC 7742	65629
[Dual CPU] Intel Xeon Gold 6354 @ 3.00GHz	65402
[Quad CPU] Intel Xeon Gold 6226 @ 2.70GHz	64957
AMD EPYC 7R32	64727
[Dual CPU] Intel Xeon Platinum 8280 @ 2.70GHz	64291
[Dual CPU] Intel Xeon Gold 6258R @ 2.70GHz	63984
AMD Ryzen 9 7950X3D	63952
[Dual CPU] AMD Ryzen Threadripper PRO 3955WX	63885
AMD Ryzen 9 7950X	63610
AMD Ryzen Threadripper 3970X	63437
[Dual CPU] Intel Xeon Gold 5416S	63239
AMD Ryzen Threadripper PRO 3975WX	62986
Intel Core i9-13900KS	62581
Intel Xeon Platinum 8380 @ 2.30GHz	62318
[Dual CPU] AMD EPYC 7402	62244
AMD EPYC 7702P	62007
[Dual CPU] Intel Xeon Platinum 8180 @ 2.50GHz	61751
AMD EPYC 7642	61573
[Dual CPU] Intel Xeon Gold 6330 @ 2.00GHz	61340
[Dual CPU] Intel Xeon Gold 6248R @ 3.00GHz	60716
AMD EPYC 74F3	60577
[Quad CPU] Intel Xeon E7-8894 v4 @ 2.40GHz	60496
[Dual CPU] Intel Xeon Platinum 8276L @ 2.20GHz	60188
Intel Core i9-13900K	60030
AMD EPYC 7513	59988
Intel Core i9-13900KF	59582
Intel Xeon w7-2495X	59424
Intel Xeon W-3365 @ 2.70GHz	59038
[Dual CPU] AMD EPYC 7451	58608
AMD Ryzen 9 7945HX	58596
[Dual CPU] Intel Xeon Platinum 8259CL @ 2.50GHz	58279
Intel Xeon W-3375 @ 2.50GHz	57896
[Dual CPU] Intel Xeon Platinum 8171M @ 2.60GHz	57780
AMD EPYC 7443P	57685
[Dual CPU] Intel Xeon Gold 5318Y @ 2.10GHz	57611

Intel Xeon Gold 5420+	57593
[Quad CPU] Intel Xeon E7-8895 v2 @ 2.80GHz	57307
Intel Xeon Gold 6414U	57200
AMD EPYC 7542	56728
AMD EPYC 7543	56562
[Dual CPU] Intel Xeon Platinum 8176 @ 2.10GHz	56381
[Dual CPU] Intel Xeon Gold 6238R @ 2.20GHz	56183
[Dual CPU] Intel Xeon Gold 6346 @ 3.10GHz	55882
[Dual CPU] Intel Xeon Platinum 8260M @ 2.30GHz	55297
[Dual CPU] AMD EPYC 7401	55280
[Dual CPU] Intel Xeon Gold 6240R @ 2.40GHz	55113
[Dual CPU] Intel Xeon Platinum 8173M @ 2.00GHz	54946
[Dual CPU] Intel Xeon Gold 5220R @ 2.20GHz	54889
[Dual CPU] Intel Xeon Gold 6254 @ 3.10GHz	54869
AMD Ryzen Threadripper 3960X	54777
[Dual CPU] AMD EPYC 7551	54736
[Dual CPU] Intel Xeon Platinum 8168 @ 2.70GHz	54687
AMD EPYC 7532	54670
[Quad CPU] Intel Xeon E5-4660 v4 @ 2.20GHz	54621
[Dual CPU] AMD EPYC 7601	54613
[Dual CPU] Intel Xeon Gold 6230R @ 2.10GHz	54605
Intel Xeon Platinum 8358 @ 2.60GHz	54416
[Quad CPU] Intel Xeon Gold 5218 @ 2.30GHz	54123
[Dual CPU] Intel Xeon Gold 6326 @ 2.90GHz	54114
AMD EPYC 7443	53770
[Dual CPU] Intel Xeon Gold 6242R @ 3.10GHz	53595
[Quad CPU] Intel Xeon E5-4667 v4 @ 2.20GHz	53402
[Dual CPU] Intel Xeon Platinum 8160M @ 2.10GHz	53398
[Dual CPU] Intel Xeon Silver 4316 @ 2.30GHz	53252
Intel Core i9-13900F	52496
AMD Ryzen 9 7900X	52428
[Dual CPU] Intel Xeon Platinum 8270CL @ 2.70GHz	52386
Intel Xeon Gold 6348 @ 2.60GHz	52276
[Dual CPU] Intel Xeon Gold 6266C @ 3.00GHz	51998
[Dual CPU] Intel Xeon Platinum 8260 @ 2.40GHz	51932
Intel Xeon Platinum 8375C @ 2.90GHz	51836
[Dual CPU] AMD EPYC 7282	51676
[Quad CPU] Intel Xeon E7-8890 v3 @ 2.50GHz	51476
AMD Ryzen 9 7900X3D	51292
Intel Xeon Gold 6314U @ 2.30GHz	51014
[Quad CPU] Intel Xeon E5-4669 v3 @ 2.10GHz	50719
[Dual CPU] Intel Xeon Gold 6262 @ 1.90GHz	50546
[Dual CPU] Intel Xeon Platinum 8273CL @ 2.20GHz	50348
AMD EPYC 7413	50223
AMD EPYC 7453	50209
[Quad CPU] Intel Xeon E7-8880 v3 @ 2.30GHz	50157
[Dual CPU] AMD EPYC 7302	50029
[Dual CPU] AMD EPYC 72F3	50017
[Dual CPU] Intel Xeon Platinum 8160 @ 2.10GHz	49903
[Dual CPU] Intel Xeon Gold 6252 @ 2.10GHz	49891
[Dual CPU] Intel Xeon Gold 6253CL @ 3.10GHz	49872
AMD EPYC 7502P	49748
Intel Core i9-13900	49545
[Dual CPU] Intel Xeon Gold 6240 @ 2.60GHz	49416
AMD Ryzen Threadripper PRO 5955WX	49388
Intel Xeon Platinum 8347C @ 2.10GHz	49386
AMD Ryzen 9 7900	49295
AMD EPYC 7502	49178
Intel Core i9-13980HX	49062
AMD EPYC 7R12	48934

[Dual CPU] Intel Xeon Platinum 8124M @ 3.00GHz	48775
[Dual CPU] Intel Xeon Gold 6154 @ 3.00GHz	48709
Intel Xeon W-3345 @ 3.00GHz	48261
[Dual CPU] Intel Xeon Platinum 8180M @ 2.50GHz	47880
[Dual CPU] Intel Xeon Platinum 8252C @ 3.80GHz	47757
AMD EPYC 7402	47668
[Dual CPU] Intel Xeon Gold 5317 @ 3.00GHz	47395
Intel Xeon Gold 6342 @ 2.80GHz	47320
Intel Core i9-13900T	47088
Intel Core i7-13700K	47052
AMD Ryzen 9 7845HX	46878
[Dual CPU] Intel Xeon Gold 6256 @ 3.60GHz	46814
Intel Core i7-13700KF	46774
Intel Core i9-13900HX	46659
Intel Xeon Gold 6338N @ 2.20GHz	46583
[Dual CPU] Intel Xeon Gold 6143 @ 2.80GHz	46473
[Dual CPU] Intel Xeon Gold 6150 @ 2.70GHz	46434
ARM Neoverse-N1 128 Core 3000 MHz	46271
AMD EPYC 73F3	46085
AMD Ryzen 9 5950X	45914
AMD EPYC 7343	45908
[Dual CPU] Intel Xeon Gold 6148 @ 2.40GHz	45897
[Dual CPU] Intel Xeon Silver 4410Y	45637
Intel Xeon Gold 6336Y @ 2.40GHz	45517
[Dual CPU] Intel Xeon Silver 4314 @ 2.40GHz	45313
Intel Xeon W-3275 @ 2.50GHz	44820
[Dual CPU] Intel Xeon Gold 6152 @ 2.10GHz	44713
[Dual CPU] Intel Xeon Gold 6230 @ 2.10GHz	44697
Intel Core i9-12900KS	44386
Intel Core i9-13950HX	44328
[Dual CPU] AMD EPYC 7272	44270
[Dual CPU] Intel Xeon Platinum P-8124 @ 3.00GHz	43913
Intel Xeon Gold 6312U @ 2.40GHz	43710
[Dual CPU] Intel Xeon Gold 6140 @ 2.30GHz	43248
ARM Neoverse-N1 128 Core 2800 MHz	43111
Intel Xeon Gold 6330 @ 2.00GHz	43056
[Dual CPU] Intel Xeon Gold 6246 @ 3.30GHz	42867
[Dual CPU] Intel Xeon Gold 6146 @ 3.20GHz	42569
Intel Core i7-13700F	42301
AMD EPYC 7402P	42245
AMD EPYC 7601	42244
[Dual CPU] Intel Xeon Gold 6139 @ 2.30GHz	42137
[Dual CPU] Intel Xeon Gold 6138 @ 2.00GHz	42129
AMD EPYC 7313P	42057
[Dual CPU] Intel Xeon Gold 5220 @ 2.20GHz	41925
AMD EPYC 7452	41871
[Dual CPU] Intel Xeon Gold 5218R @ 2.10GHz	41795
[Quad CPU] Intel Xeon E7-4890 v2 @ 2.80GHz	41683
[Dual CPU] Intel Xeon E5-2699A v4 @ 2.40GHz	41649
Intel Core i9-12900K	41590
[Dual CPU] Intel Xeon E5-2696 v4 @ 2.20GHz	41579
Intel Xeon Gold 6354 @ 3.00GHz	41445
Intel Core i9-12900KF	41403
AMD EPYC 7352	41281
[Dual CPU] AMD EPYC 7F32	41230
[Quad CPU] Intel Xeon E5-4650 v4 @ 2.20GHz	41126
[Dual CPU] Intel Xeon Gold 5218N @ 2.30GHz	41082
AMD EPYC 7F52	41023
[Dual CPU] Intel Xeon E5-2699 v4 @ 2.20GHz	40942
Apple M1 Ultra 20 Core	40940

AMD Ryzen Threadripper PRO 5945WX	40838
Intel Xeon Platinum 8275CL @ 3.00GHz	40794
[Dual CPU] Intel Xeon Gold 6122 @ 1.80GHz	40707
[Dual CPU] Intel Xeon Gold 6226R @ 2.90GHz	40615
AMD EPYC 7313	40605
AMD EPYC 7K62	40487
AMD Ryzen Threadripper PRO 3955WX	40254
AMD EPYC 7551P	40146
[Dual CPU] Intel Xeon Gold 6138T @ 2.00GHz	40064
Intel Xeon W-3275M @ 2.50GHz	39979
[Dual CPU] Intel Xeon E5-2673 v4 @ 2.30GHz	39894
[Dual CPU] Intel Xeon E5-2698 v4 @ 2.20GHz	39435
Intel Xeon W-3335 @ 3.40GHz	39317
[Dual CPU] Intel Xeon Gold 6242 @ 2.80GHz	39315
[Quad CPU] Intel Xeon E7-4880 v2 @ 2.50GHz	39311
AMD Ryzen 9 5900X	39299
Intel Core i7-13700	39294
AMD Ryzen 9 3950X	38980
Intel Xeon Gold 6248R @ 3.00GHz	38604
Intel Core i5-13600K	38496
Intel Core i5-13600KF	38373
[Dual CPU] Intel Xeon Gold 6142 @ 2.60GHz	37882
Intel Core i7-13700T	37790
Intel Xeon Gold 6346 @ 3.10GHz	37722
[Dual CPU] Intel Xeon E5-2697 v4 @ 2.30GHz	37700
Intel Xeon Gold 5320 @ 2.20GHz	37558
Intel Xeon Gold 6238R @ 2.20GHz	37511
[Dual CPU] Intel Xeon Silver 4310 @ 2.10GHz	37509
[Dual CPU] Intel Xeon Gold 5315Y @ 3.20GHz	37309
Intel Core i9-12900F	37288
Intel Xeon Silver 4316 @ 2.30GHz	37264
[Dual CPU] Intel Xeon Gold 6149 @ 3.10GHz	37240
Intel Xeon W-3175X @ 3.10GHz	37167
Intel Core i7-13850HX	36938
[Quad CPU] Intel Xeon E7-8867 v3 @ 2.50GHz	36908
AMD Ryzen 7 7700X	36554
ARM Neoverse-N1 80 Core 3000 MHz	36400
Intel Xeon Gold 5416S	36391
[Quad CPU] Intel Xeon E7-8857 v2 @ 3.00GHz	36304
AMD EPYC 7D12	36134
[Dual CPU] Intel Xeon Gold 6136 @ 3.00GHz	35996
Intel Core i7-13700HX	35847
[Dual CPU] Intel Xeon Gold 6126 @ 2.60GHz	35700
AMD Ryzen 7 7700	35644
Intel Core i9-12900HX	35570
[Dual CPU] Intel Xeon Gold 6130H @ 2.10GHz	35440
Intel Xeon Gold 6326 @ 2.90GHz	35224
Intel Xeon Platinum 8180 @ 2.50GHz	35208
[Dual CPU] Intel Xeon Gold 6250 @ 3.90GHz	35164
AMD Ryzen 7 7800X3D	35054
Intel Xeon Gold 6242R @ 3.10GHz	34963
[Dual CPU] Intel Xeon E5-2699 v3 @ 2.30GHz	34837
[Dual CPU] Intel Xeon E5-2696 v3 @ 2.30GHz	34808
Intel Core i7-12700K	34793
[Dual CPU] AMD EPYC 7252	34786
[Dual CPU] Intel Xeon Gold 5218T @ 2.10GHz	34757
AMD Ryzen 9 PRO 5945	34732
[Dual CPU] Intel Xeon Gold 6130 @ 2.10GHz	34720
Intel Core i9-12900	34710
Intel Core i7-12700KF	34606

AMD Ryzen 9 5900	34586
[Dual CPU] Intel Xeon E5-2695 v4 @ 2.10GHz	34573
[Dual CPU] Intel Xeon E5-2697A v4 @ 2.60GHz	34500
[Quad CPU] Intel Xeon E5-4657L v2 @ 2.40GHz	34499
[Dual CPU] AMD EPYC 7262	34227
Intel Xeon Gold 6230R @ 2.10GHz	34183
[Dual CPU] Intel Xeon Gold 5218 @ 2.30GHz	34176
[Dual CPU] AMD EPYC 7301	34148
[Dual CPU] Intel Xeon Gold 6334 @ 3.60GHz	34029
Intel Core i5-13600	33998
Intel Xeon Platinum 8260M @ 2.30GHz	33970
[Dual CPU] Intel Xeon E5-2690 v4 @ 2.60GHz	33939
Intel Xeon D-2799 @ 2.40GHz	33792
[Dual CPU] Intel Xeon E5-2686 v4 @ 2.30GHz	33569
AMD Ryzen Threadripper PRO 3945WX	33447
Intel Core i7-12800HX	33445
Intel Xeon Gold 5220R @ 2.20GHz	33370
[Dual CPU] Intel Xeon Gold 6244 @ 3.60GHz	33310
Intel Xeon Gold 5318Y @ 2.10GHz	33283
Intel Xeon Platinum 8259CL @ 2.50GHz	33279
Intel Core i9-12950HX	33033
Intel Core i9-10980XE @ 3.00GHz	33008
Intel Core i7-13650HX	32999
[Dual CPU] Intel Xeon E5-2699C v4 @ 2.20GHz	32889
Intel Core i5-13500	32859
Intel Xeon Gold 6278C @ 2.60GHz	32835
[Quad CPU] Intel Xeon E5-4650 v2 @ 2.40GHz	32805
AMD Ryzen 9 3900XT	32790
Intel Xeon Platinum 8280 @ 2.70GHz	32781
AMD Ryzen 9 3900X	32730
AMD EPYC 7302	32691
[Dual CPU] Intel Xeon Silver 4309Y @ 2.80GHz	32648
[Dual CPU] Intel Xeon Gold 6226 @ 2.70GHz	32627
AMD EPYC 7302P	32625
Intel Xeon Platinum 8168 @ 2.70GHz	32616
[Quad CPU] Intel Xeon E5-4627 v2 @ 3.30GHz	32324
[Dual CPU] Intel Xeon Gold 6132 @ 2.60GHz	32319
[Dual CPU] Intel Xeon Platinum 8153 @ 2.00GHz	32180
[Dual CPU] Intel Xeon E5-2698 v3 @ 2.30GHz	32164
AMD Ryzen Threadripper 2990WX	32129
Intel Core i9-9980XE @ 3.00GHz	32048
Intel Xeon W-3265M @ 2.70GHz	32025
[Dual CPU] Intel Xeon E5-2689 v4 @ 3.10GHz	31869
Intel Xeon Platinum 8173M @ 2.00GHz	31837
Intel Xeon Platinum 8268 @ 2.90GHz	31632
[Dual CPU] Intel Xeon Silver 4216 @ 2.10GHz	31603
Intel Core i9-12900E	31530
Intel Core i9-12900T	31515
[Dual CPU] Intel Xeon E5-4669 v3 @ 2.10GHz	31474
AMD Ryzen 9 PRO 3900	31446
Intel Core i5-13600HX	31439
Intel Core i9-13900H	31355
[Dual CPU] Intel Xeon Gold 5120 @ 2.20GHz	31350
Intel Core i7-12700F	31185
Intel Core i7-12700	31155
AMD EPYC 7371	31094
[Dual CPU] Intel Xeon E5-2695 v3 @ 2.30GHz	31008
Intel Xeon W-2295 @ 3.00GHz	30739
AMD Ryzen 9 3900	30697
Intel Xeon Platinum 8171M @ 2.60GHz	30632

AMD EPYC Embedded 7292P	30542
Intel Xeon Gold 6246R @ 3.40GHz	30468
Intel Core i9-9960X @ 3.10GHz	30354
[Dual CPU] Intel Xeon E5-2682 v4 @ 2.50GHz	30323
Intel Xeon W-3245 @ 3.20GHz	30308
Intel Core i9-7980XE @ 2.60GHz	30305
Intel Core i7-12850HX	30226
Intel Core i9-9990XE @ 4.00GHz	30162
Intel Xeon W-3265 @ 2.70GHz	30105
Intel Core i7-13700H	30029
[Dual CPU] Intel Xeon Silver 4214R @ 2.40GHz	29984
AMD Ryzen Threadripper 2970WX	29958
Intel Core i7-12800HE	29805
Intel Xeon Silver 4410Y	29585
Intel Xeon Gold 6248 @ 2.50GHz	29504
Intel Xeon Gold 6154 @ 3.00GHz	29488
AMD Ryzen Threadripper 2950X	29400
Intel Xeon Platinum 8260 @ 2.40GHz	29360
Intel Xeon Gold 6254 @ 3.10GHz	29356
Intel Xeon Silver 4314 @ 2.40GHz	29347
[Dual CPU] Intel Xeon E5-2680 v4 @ 2.40GHz	29267
[Dual CPU] Intel Xeon E5-4650 v4 @ 2.20GHz	29181
[Dual CPU] Intel Xeon Gold 6144 @ 3.50GHz	29154
Intel Core i5-13490F	29054
Intel Xeon Gold 6148 @ 2.40GHz	28993
Intel Core i9-12900H	28985
AMD Ryzen 5 7600X	28946
AMD EPYC 7282	28927
Intel Xeon Gold 6210U @ 2.50GHz	28915
[Dual CPU] Intel Xeon E5-2687W v4 @ 3.00GHz	28903
[Dual CPU] Intel Xeon Gold 6234 @ 3.30GHz	28888
Intel Xeon Silver 4410T	28859
Intel Xeon W-2191B @ 2.30GHz	28815
Intel Xeon Gold 6253CL @ 3.10GHz	28549
Intel Core i9-12900HK	28522
AMD Ryzen 7 7840HS	28429
[Quad CPU] Intel Xeon E7-8893 v4 @ 3.20GHz	28424
Intel Core i9-9940X @ 3.30GHz	28337
Intel Core i7-12700E	28292
AMD EPYC 7401P	28282
Intel Xeon W-2195 @ 2.30GHz	28221
[Dual CPU] Intel Xeon Gold 6134 @ 3.20GHz	28219
[Dual CPU] Intel Xeon Platinum 8253 @ 2.20GHz	28165
[Dual CPU] Intel Xeon E5-2683 v4 @ 2.10GHz	28140
AMD Ryzen 7 5800X3D	28104
AMD Ryzen 7 5800X	28072
Intel Core i7-13800H	28071
ARM Neoverse-N1 64 Core 0 MHz	28064
Intel Xeon W-2275 @ 3.30GHz	28037
Intel Xeon Platinum 8160 @ 2.10GHz	27968
AMD Ryzen 5 7600	27938
Intel Core i9-10940X @ 3.30GHz	27925
Intel Core i5-12600K	27821
[Dual CPU] Intel Xeon E5-2658 v4 @ 2.30GHz	27797
AMD Ryzen Threadripper 1950X	27713
Intel Xeon Gold 6238 @ 2.10GHz	27617
Intel Xeon W-3245M @ 3.20GHz	27503
Intel Xeon Gold 6212U @ 2.40GHz	27470
Intel Core i5-12600KF	27459
AMD EPYC 7571	27445



Intel Xeon Gold 5317 @ 3.00GHz

27402

**CPU Benchmarks (PassMark)****URL:**[https://www.cpubenchmark.net/CPU\\_mega\\_page.html](https://www.cpubenchmark.net/CPU_mega_page.html)

<b>CPU Name</b>	<b>CPU Mark</b>
[Dual CPU] AMD EPYC 9654	149727
[Dual CPU] AMD EPYC 9554	143738
[Dual CPU] Intel Xeon Platinum 8480+	129411
AMD EPYC 9654	126045
[Dual CPU] AMD EPYC 7J13	119134
[Dual CPU] AMD EPYC 7763	118109
[Dual CPU] AMD EPYC 7643	115676
[Dual CPU] AMD EPYC 7T83	114203
[Dual CPU] AMD Ryzen Threadripper PRO 3995WX	113693
[Dual CPU] AMD EPYC 7713	112602
[Dual CPU] Intel Xeon Gold 6448Y	106832
[Dual CPU] AMD EPYC 7773X	106234
[Dual CPU] AMD EPYC 7573X	103531
[Dual CPU] AMD EPYC 7B12	102240
[Dual CPU] AMD EPYC 7K83	102053
[Dual CPU] AMD EPYC 7543	101710
[Dual CPU] AMD EPYC 7742	99760
[Dual CPU] AMD EPYC 75F3	99758
AMD EPYC 9474F	99068
[Dual CPU] AMD Ryzen Threadripper PRO 3975WX	98811
[Dual CPU] AMD EPYC 7H12	97449
AMD Ryzen Threadripper PRO 5995WX	97224
[Dual CPU] AMD EPYC 7662	97178
[Dual CPU] AMD EPYC 7513	96107
[Dual CPU] AMD EPYC 74F3	95545
[Dual CPU] AMD EPYC 7702	93706
[Dual CPU] Intel Xeon Gold 5420+	93290
[Dual CPU] AMD EPYC 7K62	93005
[Dual CPU] AMD EPYC 7R12	92961
[Dual CPU] Intel Xeon Platinum 8380 @ 2.30GHz	91485
[Dual CPU] AMD EPYC 9174F	90842
AMD EPYC 7773X	90731
[Dual CPU] Intel Xeon Platinum 8368 @ 2.40GHz	90457
[Dual CPU] AMD EPYC 7443	87675
[Dual CPU] Intel Xeon Platinum 8375C @ 2.90GHz	86346
AMD EPYC 7763	85915
AMD EPYC 7J13	85661
AMD EPYC 7713	85165
[Dual CPU] Intel Xeon Gold 5418Y	84673
[Quad CPU] Intel Xeon Platinum 8260 @ 2.40GHz	83793
[Dual CPU] AMD EPYC 7473X	83530
AMD EPYC 7713P	83439
AMD Ryzen Threadripper PRO 3995WX	83336
[Dual CPU] AMD EPYC 7532	82917
AMD EPYC 7V13	82878
[Dual CPU] Intel Xeon Platinum 8358 @ 2.60GHz	82802
AMD Ryzen Threadripper 3990X	81103
[Dual CPU] Intel Xeon Gold 6430	80969
[Dual CPU] AMD EPYC 7502	80226
AMD EPYC 9354P	79341
[Dual CPU] AMD EPYC 7453	79338
[Dual CPU] AMD EPYC 7452	77746
AMD EPYC 7B13	77460
[Quad CPU] Intel Xeon Gold 6256 @ 3.60GHz	76542
AMD EPYC 7643	76455

AMD Ryzen Threadripper PRO 5975WX	76103
[Dual CPU] Intel Xeon Gold 6348 @ 2.60GHz	75783
[Quad CPU] Intel Xeon E7-8890 v4 @ 2.20GHz	75539
[Dual CPU] AMD EPYC 7343	75422
[Dual CPU] AMD EPYC 7542	75117
AMD EPYC 7T83	74892
[Dual CPU] AMD EPYC 7R32	74520
[Dual CPU] AMD EPYC 7413	74417
[Dual CPU] Intel Xeon Gold 6342 @ 2.80GHz	73897
AMD EPYC 7662	73143
[Dual CPU] AMD EPYC 7552	72235
[Dual CPU] Intel Xeon Gold 6336Y @ 2.40GHz	71984
Intel Xeon w9-3475X	70850
AMD EPYC 7702	70618
[Dual CPU] Intel Xeon Gold 6338 @ 2.00GHz	68675
[Dual CPU] Intel Xeon Platinum 8352Y @ 2.20GHz	68643
AMD EPYC 75F3	68505
AMD EPYC 7543P	67081
[Dual CPU] Intel Xeon Platinum 8275CL @ 3.00GHz	66812
[Dual CPU] Intel Xeon Gold 5320 @ 2.20GHz	66409
AMD Ryzen Threadripper PRO 5965WX	66370
[Dual CPU] AMD EPYC 7352	66239
[Dual CPU] AMD EPYC 7313	66230
[Dual CPU] AMD EPYC 73F3	65909
[Dual CPU] Intel Xeon Gold 6338N @ 2.20GHz	65860
[Dual CPU] AMD EPYC 7F52	65659
AMD EPYC 7742	65629
[Dual CPU] Intel Xeon Gold 6354 @ 3.00GHz	65402
[Quad CPU] Intel Xeon Gold 6226 @ 2.70GHz	64957
AMD EPYC 7R32	64727
[Dual CPU] Intel Xeon Platinum 8280 @ 2.70GHz	64291
[Dual CPU] Intel Xeon Gold 6258R @ 2.70GHz	63984
AMD Ryzen 9 7950X3D	63952
[Dual CPU] AMD Ryzen Threadripper PRO 3955WX	63885
AMD Ryzen 9 7950X	63610
AMD Ryzen Threadripper 3970X	63437
[Dual CPU] Intel Xeon Gold 5416S	63239
AMD Ryzen Threadripper PRO 3975WX	62986
Intel Core i9-13900KS	62581
Intel Xeon Platinum 8380 @ 2.30GHz	62318
[Dual CPU] AMD EPYC 7402	62244
AMD EPYC 7702P	62007
[Dual CPU] Intel Xeon Platinum 8180 @ 2.50GHz	61751
AMD EPYC 7642	61573
[Dual CPU] Intel Xeon Gold 6330 @ 2.00GHz	61340
[Dual CPU] Intel Xeon Gold 6248R @ 3.00GHz	60716
AMD EPYC 74F3	60577
[Quad CPU] Intel Xeon E7-8894 v4 @ 2.40GHz	60496
[Dual CPU] Intel Xeon Platinum 8276L @ 2.20GHz	60188
Intel Core i9-13900K	60030
AMD EPYC 7513	59988
Intel Core i9-13900KF	59582
Intel Xeon w7-2495X	59424
Intel Xeon W-3365 @ 2.70GHz	59038
[Dual CPU] AMD EPYC 7451	58608
AMD Ryzen 9 7945HX	58596
[Dual CPU] Intel Xeon Platinum 8259CL @ 2.50GHz	58279
Intel Xeon W-3375 @ 2.50GHz	57896
[Dual CPU] Intel Xeon Platinum 8171M @ 2.60GHz	57780
AMD EPYC 7443P	57685

[Dual CPU] Intel Xeon Gold 5318Y @ 2.10GHz	57611
Intel Xeon Gold 5420+	57593
[Quad CPU] Intel Xeon E7-8895 v2 @ 2.80GHz	57307
Intel Xeon Gold 6414U	57200
AMD EPYC 7542	56728
AMD EPYC 7543	56562
[Dual CPU] Intel Xeon Platinum 8176 @ 2.10GHz	56381
[Dual CPU] Intel Xeon Gold 6238R @ 2.20GHz	56183
[Dual CPU] Intel Xeon Gold 6346 @ 3.10GHz	55882
[Dual CPU] Intel Xeon Platinum 8260M @ 2.30GHz	55297
[Dual CPU] AMD EPYC 7401	55280
[Dual CPU] Intel Xeon Gold 6240R @ 2.40GHz	55113
[Dual CPU] Intel Xeon Platinum 8173M @ 2.00GHz	54946
[Dual CPU] Intel Xeon Gold 5220R @ 2.20GHz	54889
[Dual CPU] Intel Xeon Gold 6254 @ 3.10GHz	54869
AMD Ryzen Threadripper 3960X	54777
[Dual CPU] AMD EPYC 7551	54736
[Dual CPU] Intel Xeon Platinum 8168 @ 2.70GHz	54687
AMD EPYC 7532	54670
[Quad CPU] Intel Xeon E5-4660 v4 @ 2.20GHz	54621
[Dual CPU] AMD EPYC 7601	54613
[Dual CPU] Intel Xeon Gold 6230R @ 2.10GHz	54605
Intel Xeon Platinum 8358 @ 2.60GHz	54416
[Quad CPU] Intel Xeon Gold 5218 @ 2.30GHz	54123
[Dual CPU] Intel Xeon Gold 6326 @ 2.90GHz	54114
AMD EPYC 7443	53770
[Dual CPU] Intel Xeon Gold 6242R @ 3.10GHz	53595
[Quad CPU] Intel Xeon E5-4667 v4 @ 2.20GHz	53402
[Dual CPU] Intel Xeon Platinum 8160M @ 2.10GHz	53398
[Dual CPU] Intel Xeon Silver 4316 @ 2.30GHz	53252
Intel Core i9-13900F	52496
AMD Ryzen 9 7900X	52428
[Dual CPU] Intel Xeon Platinum 8270CL @ 2.70GHz	52386
Intel Xeon Gold 6348 @ 2.60GHz	52276
[Dual CPU] Intel Xeon Gold 6266C @ 3.00GHz	51998
[Dual CPU] Intel Xeon Platinum 8260 @ 2.40GHz	51932
Intel Xeon Platinum 8375C @ 2.90GHz	51836
[Dual CPU] AMD EPYC 7282	51676
[Quad CPU] Intel Xeon E7-8890 v3 @ 2.50GHz	51476
AMD Ryzen 9 7900X3D	51292
Intel Xeon Gold 6314U @ 2.30GHz	51014
[Quad CPU] Intel Xeon E5-4669 v3 @ 2.10GHz	50719
[Dual CPU] Intel Xeon Gold 6262 @ 1.90GHz	50546
[Dual CPU] Intel Xeon Platinum 8273CL @ 2.20GHz	50348
AMD EPYC 7413	50223
AMD EPYC 7453	50209
[Quad CPU] Intel Xeon E7-8880 v3 @ 2.30GHz	50157
[Dual CPU] AMD EPYC 7302	50029
[Dual CPU] AMD EPYC 72F3	50017
[Dual CPU] Intel Xeon Platinum 8160 @ 2.10GHz	49903
[Dual CPU] Intel Xeon Gold 6252 @ 2.10GHz	49891
[Dual CPU] Intel Xeon Gold 6253CL @ 3.10GHz	49872
AMD EPYC 7502P	49748
Intel Core i9-13900	49545
[Dual CPU] Intel Xeon Gold 6240 @ 2.60GHz	49416
AMD Ryzen Threadripper PRO 5955WX	49388
Intel Xeon Platinum 8347C @ 2.10GHz	49386
AMD Ryzen 9 7900	49295
AMD EPYC 7502	49178
Intel Core i9-13980HX	49062

AMD EPYC 7R12	48934
[Dual CPU] Intel Xeon Platinum 8124M @ 3.00GHz	48775
[Dual CPU] Intel Xeon Gold 6154 @ 3.00GHz	48709
Intel Xeon W-3345 @ 3.00GHz	48261
[Dual CPU] Intel Xeon Platinum 8180M @ 2.50GHz	47880
[Dual CPU] Intel Xeon Platinum 8252C @ 3.80GHz	47757
AMD EPYC 7402	47668
[Dual CPU] Intel Xeon Gold 5317 @ 3.00GHz	47395
Intel Xeon Gold 6342 @ 2.80GHz	47320
Intel Core i9-13900T	47088
Intel Core i7-13700K	47052
AMD Ryzen 9 7845HX	46878
[Dual CPU] Intel Xeon Gold 6256 @ 3.60GHz	46814
Intel Core i7-13700KF	46774
Intel Core i9-13900HX	46659
Intel Xeon Gold 6338N @ 2.20GHz	46583
[Dual CPU] Intel Xeon Gold 6143 @ 2.80GHz	46473
[Dual CPU] Intel Xeon Gold 6150 @ 2.70GHz	46434
ARM Neoverse-N1 128 Core 3000 MHz	46271
AMD EPYC 73F3	46085
AMD Ryzen 9 5950X	45914
AMD EPYC 7343	45908
[Dual CPU] Intel Xeon Gold 6148 @ 2.40GHz	45897
[Dual CPU] Intel Xeon Silver 4410Y	45637
Intel Xeon Gold 6336Y @ 2.40GHz	45517
[Dual CPU] Intel Xeon Silver 4314 @ 2.40GHz	45313
Intel Xeon W-3275 @ 2.50GHz	44820
[Dual CPU] Intel Xeon Gold 6152 @ 2.10GHz	44713
[Dual CPU] Intel Xeon Gold 6230 @ 2.10GHz	44697
Intel Core i9-12900KS	44386
Intel Core i9-13950HX	44328
[Dual CPU] AMD EPYC 7272	44270
[Dual CPU] Intel Xeon Platinum P-8124 @ 3.00GHz	43913
Intel Xeon Gold 6312U @ 2.40GHz	43710
[Dual CPU] Intel Xeon Gold 6140 @ 2.30GHz	43248
ARM Neoverse-N1 128 Core 2800 MHz	43111
Intel Xeon Gold 6330 @ 2.00GHz	43056
[Dual CPU] Intel Xeon Gold 6246 @ 3.30GHz	42867
[Dual CPU] Intel Xeon Gold 6146 @ 3.20GHz	42569
Intel Core i7-13700F	42301
AMD EPYC 7402P	42245
AMD EPYC 7601	42244
[Dual CPU] Intel Xeon Gold 6139 @ 2.30GHz	42137
[Dual CPU] Intel Xeon Gold 6138 @ 2.00GHz	42129
AMD EPYC 7313P	42057
[Dual CPU] Intel Xeon Gold 5220 @ 2.20GHz	41925
AMD EPYC 7452	41871
[Dual CPU] Intel Xeon Gold 5218R @ 2.10GHz	41795
[Quad CPU] Intel Xeon E7-4890 v2 @ 2.80GHz	41683
[Dual CPU] Intel Xeon E5-2699A v4 @ 2.40GHz	41649
Intel Core i9-12900K	41590
[Dual CPU] Intel Xeon E5-2696 v4 @ 2.20GHz	41579
Intel Xeon Gold 6354 @ 3.00GHz	41445
Intel Core i9-12900KF	41403
AMD EPYC 7352	41281
[Dual CPU] AMD EPYC 7F32	41230
[Quad CPU] Intel Xeon E5-4650 v4 @ 2.20GHz	41126
[Dual CPU] Intel Xeon Gold 5218N @ 2.30GHz	41082
AMD EPYC 7F52	41023
[Dual CPU] Intel Xeon E5-2699 v4 @ 2.20GHz	40942

Apple M1 Ultra 20 Core	40940
AMD Ryzen Threadripper PRO 5945WX	40838
Intel Xeon Platinum 8275CL @ 3.00GHz	40794
[Dual CPU] Intel Xeon Gold 6122 @ 1.80GHz	40707
[Dual CPU] Intel Xeon Gold 6226R @ 2.90GHz	40615
AMD EPYC 7313	40605
AMD EPYC 7K62	40487
AMD Ryzen Threadripper PRO 3955WX	40254
AMD EPYC 7551P	40146
[Dual CPU] Intel Xeon Gold 6138T @ 2.00GHz	40064
Intel Xeon W-3275M @ 2.50GHz	39979
[Dual CPU] Intel Xeon E5-2673 v4 @ 2.30GHz	39894
[Dual CPU] Intel Xeon E5-2698 v4 @ 2.20GHz	39435
Intel Xeon W-3335 @ 3.40GHz	39317
[Dual CPU] Intel Xeon Gold 6242 @ 2.80GHz	39315
[Quad CPU] Intel Xeon E7-4880 v2 @ 2.50GHz	39311
AMD Ryzen 9 5900X	39299
Intel Core i7-13700	39294
AMD Ryzen 9 3950X	38980
Intel Xeon Gold 6248R @ 3.00GHz	38604
Intel Core i5-13600K	38496
Intel Core i5-13600KF	38373
[Dual CPU] Intel Xeon Gold 6142 @ 2.60GHz	37882
Intel Core i7-13700T	37790
Intel Xeon Gold 6346 @ 3.10GHz	37722
[Dual CPU] Intel Xeon E5-2697 v4 @ 2.30GHz	37700
Intel Xeon Gold 5320 @ 2.20GHz	37558
Intel Xeon Gold 6238R @ 2.20GHz	37511
[Dual CPU] Intel Xeon Silver 4310 @ 2.10GHz	37509
[Dual CPU] Intel Xeon Gold 5315Y @ 3.20GHz	37309
Intel Core i9-12900F	37288
Intel Xeon Silver 4316 @ 2.30GHz	37264
[Dual CPU] Intel Xeon Gold 6149 @ 3.10GHz	37240
Intel Xeon W-3175X @ 3.10GHz	37167
Intel Core i7-13850HX	36938
[Quad CPU] Intel Xeon E7-8867 v3 @ 2.50GHz	36908
AMD Ryzen 7 7700X	36554
ARM Neoverse-N1 80 Core 3000 MHz	36400
Intel Xeon Gold 5416S	36391
[Quad CPU] Intel Xeon E7-8857 v2 @ 3.00GHz	36304
AMD EPYC 7D12	36134
[Dual CPU] Intel Xeon Gold 6136 @ 3.00GHz	35996
Intel Core i7-13700HX	35847
[Dual CPU] Intel Xeon Gold 6126 @ 2.60GHz	35700
AMD Ryzen 7 7700	35644
Intel Core i9-12900HX	35570
[Dual CPU] Intel Xeon Gold 6130H @ 2.10GHz	35440
Intel Xeon Gold 6326 @ 2.90GHz	35224
Intel Xeon Platinum 8180 @ 2.50GHz	35208
[Dual CPU] Intel Xeon Gold 6250 @ 3.90GHz	35164
AMD Ryzen 7 7800X3D	35054
Intel Xeon Gold 6242R @ 3.10GHz	34963
[Dual CPU] Intel Xeon E5-2699 v3 @ 2.30GHz	34837
[Dual CPU] Intel Xeon E5-2696 v3 @ 2.30GHz	34808
Intel Core i7-12700K	34793
[Dual CPU] AMD EPYC 7252	34786
[Dual CPU] Intel Xeon Gold 5218T @ 2.10GHz	34757
AMD Ryzen 9 PRO 5945	34732
[Dual CPU] Intel Xeon Gold 6130 @ 2.10GHz	34720
Intel Core i9-12900	34710

Intel Core i7-12700KF	34606
AMD Ryzen 9 5900	34586
[Dual CPU] Intel Xeon E5-2695 v4 @ 2.10GHz	34573
[Dual CPU] Intel Xeon E5-2697A v4 @ 2.60GHz	34500
[Quad CPU] Intel Xeon E5-4657L v2 @ 2.40GHz	34499
[Dual CPU] AMD EPYC 7262	34227
Intel Xeon Gold 6230R @ 2.10GHz	34183
[Dual CPU] Intel Xeon Gold 5218 @ 2.30GHz	34176
[Dual CPU] AMD EPYC 7301	34148
[Dual CPU] Intel Xeon Gold 6334 @ 3.60GHz	34029
Intel Core i5-13600	33998
Intel Xeon Platinum 8260M @ 2.30GHz	33970
[Dual CPU] Intel Xeon E5-2690 v4 @ 2.60GHz	33939
Intel Xeon D-2799 @ 2.40GHz	33792
[Dual CPU] Intel Xeon E5-2686 v4 @ 2.30GHz	33569
AMD Ryzen Threadripper PRO 3945WX	33447
Intel Core i7-12800HX	33445
Intel Xeon Gold 5220R @ 2.20GHz	33370
[Dual CPU] Intel Xeon Gold 6244 @ 3.60GHz	33310
Intel Xeon Gold 5318Y @ 2.10GHz	33283
Intel Xeon Platinum 8259CL @ 2.50GHz	33279
Intel Core i9-12950HX	33033
Intel Core i9-10980XE @ 3.00GHz	33008
Intel Core i7-13650HX	32999
[Dual CPU] Intel Xeon E5-2699C v4 @ 2.20GHz	32889
Intel Core i5-13500	32859
Intel Xeon Gold 6278C @ 2.60GHz	32835
[Quad CPU] Intel Xeon E5-4650 v2 @ 2.40GHz	32805
AMD Ryzen 9 3900XT	32790
Intel Xeon Platinum 8280 @ 2.70GHz	32781
AMD Ryzen 9 3900X	32730
AMD EPYC 7302	32691
[Dual CPU] Intel Xeon Silver 4309Y @ 2.80GHz	32648
[Dual CPU] Intel Xeon Gold 6226 @ 2.70GHz	32627
AMD EPYC 7302P	32625
Intel Xeon Platinum 8168 @ 2.70GHz	32616
[Quad CPU] Intel Xeon E5-4627 v2 @ 3.30GHz	32324
[Dual CPU] Intel Xeon Gold 6132 @ 2.60GHz	32319
[Dual CPU] Intel Xeon Platinum 8153 @ 2.00GHz	32180
[Dual CPU] Intel Xeon E5-2698 v3 @ 2.30GHz	32164
AMD Ryzen Threadripper 2990WX	32129
Intel Core i9-9980XE @ 3.00GHz	32048
Intel Xeon W-3265M @ 2.70GHz	32025
[Dual CPU] Intel Xeon E5-2689 v4 @ 3.10GHz	31869
Intel Xeon Platinum 8173M @ 2.00GHz	31837
Intel Xeon Platinum 8268 @ 2.90GHz	31632
[Dual CPU] Intel Xeon Silver 4216 @ 2.10GHz	31603
Intel Core i9-12900E	31530
Intel Core i9-12900T	31515
[Dual CPU] Intel Xeon E5-4669 v3 @ 2.10GHz	31474
AMD Ryzen 9 PRO 3900	31446
Intel Core i5-13600HX	31439
Intel Core i9-13900H	31355
[Dual CPU] Intel Xeon Gold 5120 @ 2.20GHz	31350
Intel Core i7-12700F	31185
Intel Core i7-12700	31155
AMD EPYC 7371	31094
[Dual CPU] Intel Xeon E5-2695 v3 @ 2.30GHz	31008
Intel Xeon W-2295 @ 3.00GHz	30739
AMD Ryzen 9 3900	30697

Intel Xeon Platinum 8171M @ 2.60GHz	30632
AMD EPYC Embedded 7292P	30542
Intel Xeon Gold 6246R @ 3.40GHz	30468
Intel Core i9-9960X @ 3.10GHz	30354
[Dual CPU] Intel Xeon E5-2682 v4 @ 2.50GHz	30323
Intel Xeon W-3245 @ 3.20GHz	30308
Intel Core i9-7980XE @ 2.60GHz	30305
Intel Core i7-12850HX	30226
Intel Core i9-9990XE @ 4.00GHz	30162
Intel Xeon W-3265 @ 2.70GHz	30105
Intel Core i7-13700H	30029
[Dual CPU] Intel Xeon Silver 4214R @ 2.40GHz	29984
AMD Ryzen Threadripper 2970WX	29958
Intel Core i7-12800HE	29805
Intel Xeon Silver 4410Y	29585
Intel Xeon Gold 6248 @ 2.50GHz	29504
Intel Xeon Gold 6154 @ 3.00GHz	29488
AMD Ryzen Threadripper 2950X	29400
Intel Xeon Platinum 8260 @ 2.40GHz	29360
Intel Xeon Gold 6254 @ 3.10GHz	29356
Intel Xeon Silver 4314 @ 2.40GHz	29347
[Dual CPU] Intel Xeon E5-2680 v4 @ 2.40GHz	29267
[Dual CPU] Intel Xeon E5-4650 v4 @ 2.20GHz	29181
[Dual CPU] Intel Xeon Gold 6144 @ 3.50GHz	29154
Intel Core i5-13490F	29054
Intel Xeon Gold 6148 @ 2.40GHz	28993
Intel Core i9-12900H	28985
AMD Ryzen 5 7600X	28946
AMD EPYC 7282	28927
Intel Xeon Gold 6210U @ 2.50GHz	28915
[Dual CPU] Intel Xeon E5-2687W v4 @ 3.00GHz	28903
[Dual CPU] Intel Xeon Gold 6234 @ 3.30GHz	28888
Intel Xeon Silver 4410T	28859
Intel Xeon W-2191B @ 2.30GHz	28815
Intel Xeon Gold 6253CL @ 3.10GHz	28549
Intel Core i9-12900HK	28522
AMD Ryzen 7 7840HS	28429
[Quad CPU] Intel Xeon E7-8893 v4 @ 3.20GHz	28424
Intel Core i9-9940X @ 3.30GHz	28337
Intel Core i7-12700E	28292
AMD EPYC 7401P	28282
Intel Xeon W-2195 @ 2.30GHz	28221
[Dual CPU] Intel Xeon Gold 6134 @ 3.20GHz	28219
[Dual CPU] Intel Xeon Platinum 8253 @ 2.20GHz	28165
[Dual CPU] Intel Xeon E5-2683 v4 @ 2.10GHz	28140
AMD Ryzen 7 5800X3D	28104
AMD Ryzen 7 5800X	28072
Intel Core i7-13800H	28071
ARM Neoverse-N1 64 Core 0 MHz	28064
Intel Xeon W-2275 @ 3.30GHz	28037
Intel Xeon Platinum 8160 @ 2.10GHz	27968
AMD Ryzen 5 7600	27938
Intel Core i9-10940X @ 3.30GHz	27925
Intel Core i5-12600K	27821
[Dual CPU] Intel Xeon E5-2658 v4 @ 2.30GHz	27797
AMD Ryzen Threadripper 1950X	27713
Intel Xeon Gold 6238 @ 2.10GHz	27617
Intel Xeon W-3245M @ 3.20GHz	27503
Intel Xeon Gold 6212U @ 2.40GHz	27470
Intel Core i5-12600KF	27459



AMD EPYC 7571	27445
Intel Xeon Gold 5317 @ 3.00GHz	27402
[Dual CPU] Intel Xeon E5-2660 v4 @ 2.00GHz	27375
Intel Xeon Platinum 8124M @ 3.00GHz	27336
AMD EPYC 72F3	27252
Intel Xeon Gold 6252 @ 2.10GHz	27148
Intel Core i5-13600T	27143
Intel Core i9-7960X @ 2.80GHz	27130
[Dual CPU] Intel Xeon E5-2697 v3 @ 2.60GHz	27103
Intel Xeon Gold 6226R @ 2.90GHz	27092
Intel Xeon Gold 6208U @ 2.90GHz	27085
[Quad CPU] Intel Xeon E5-4650 @ 2.70GHz	27008
Intel Xeon Gold 6230 @ 2.10GHz	26888
[Dual CPU] Intel Xeon Gold 5117 @ 2.00GHz	26863
AMD Ryzen 7 5700X	26815
Intel Core i7-13620H	26751
AMD Ryzen 7 PRO 5845	26737
Intel Xeon Platinum 8175M @ 2.50GHz	26659
Intel Core i7-12700H	26633
AMD Ryzen Threadripper 2990X	26469
Apple M2 Pro 12 Core 3480 MHz	26457
[Dual CPU] Intel Xeon E5-2690 v3 @ 2.60GHz	26444
Intel Core i9-10920X @ 3.50GHz	26369
Intel Core i9-7940X @ 3.10GHz	26338
Intel Xeon Gold 6242 @ 2.80GHz	26288
Apple M2 Max 12 Core 3680 MHz	26189
Intel Xeon W-3235 @ 3.30GHz	26063
[Dual CPU] Intel Xeon Silver 4214 @ 2.20GHz	26027
Intel Core i5-13400	25966
[Dual CPU] Intel Xeon E7-8880 v2 @ 2.50GHz	25966
AMD Ryzen 7 5800	25950
Intel Core i5-13400F	25948
Intel Xeon W-2265 @ 3.50GHz	25926
Intel Xeon Gold 5218R @ 2.10GHz	25916
Intel Xeon W-3323 @ 3.50GHz	25875
Intel Core i5-13500T	25747
Intel Xeon E5-2698R v4 @ 2.20GHz	25605
AMD EPYC 7272	25568
Intel Core i9-11900K @ 3.50GHz	25499
AMD Ryzen 7 7735H	25496
Intel Core i5-13600H	25491
Intel Xeon Gold 6150 @ 2.70GHz	25487
AMD EPYC 7351P	25484
[Dual CPU] Intel Xeon Gold 5217 @ 3.00GHz	25455
Intel Xeon W-1390P @ 3.50GHz	25451
[Dual CPU] Intel Xeon E5-2650L v4 @ 1.70GHz	25440
[Dual CPU] AMD EPYC 7351	25431
Intel Core i9-11900KF @ 3.50GHz	25397
Intel Xeon Platinum 8167M @ 2.00GHz	25396
Intel Core i9-9920X @ 3.50GHz	25295
[Dual CPU] Intel Xeon Silver 4215R @ 3.20GHz	25172
Intel Core i5-13500H	25096
[Dual CPU] Intel Xeon E7-4890 v2 @ 2.80GHz	25055
Intel Xeon Gold 5415+	25033
AMD Ryzen Threadripper 2920X	24993
Intel Xeon W-1370P @ 3.60GHz	24961
AMD EPYC 7501	24925
AMD Ryzen 9 6900HX	24872
Intel Xeon Gold 6138T @ 2.00GHz	24800
Intel Xeon Gold 6143 @ 2.80GHz	24786

Intel Core i7-12800H	24771
Intel Xeon Gold 5220 @ 2.20GHz	24736
[Dual CPU] Intel Xeon E5-2678 v3 @ 2.50GHz	24728
[Dual CPU] Intel Xeon Gold 5118 @ 2.30GHz	24723
Intel Xeon E5-2696 v4 @ 2.20GHz	24705
Intel Xeon Gold 6152 @ 2.10GHz	24680
AMD Ryzen 7 5700G	24678
Intel Core i7-11700K @ 3.60GHz	24672
Intel Xeon E5-2699 v4 @ 2.20GHz	24645
AMD Ryzen 7 7735HS	24586
AMD Ryzen 7 PRO 5750G	24514
Intel Xeon Gold 6246 @ 3.30GHz	24446
[Dual CPU] Intel Xeon E5-2667 v4 @ 3.20GHz	24439
[Quad CPU] Intel Xeon E7- 8870 @ 2.40GHz	24434
[Dual CPU] Intel Xeon E5-4660 v4 @ 2.20GHz	24421
[Dual CPU] Intel Xeon E5-2683 v3 @ 2.00GHz	24355
[Dual CPU] Intel Xeon E5-2680 v3 @ 2.50GHz	24298
Intel Core i5-12600HX	24295
Intel Core i7-12650H	24260
AMD Ryzen 7 5700	24156
Intel Xeon E5-2679 v4 @ 2.50GHz	24131
Intel Core i7-11700KF @ 3.60GHz	24085
AMD Ryzen 9 6900HS	24056
[Dual CPU] Intel Xeon Silver 4116 @ 2.10GHz	24050
Intel Xeon W-2170B @ 2.50GHz	23964
Intel Xeon Gold 6140 @ 2.30GHz	23937
Intel Xeon W-1370 @ 2.90GHz	23908
Intel Xeon W-1390 @ 2.80GHz	23902
AMD Ryzen 7 7736U	23860
AMD Ryzen 7 6800H	23805
[Dual CPU] Intel Xeon E5-2696 v2 @ 2.50GHz	23794
Intel Xeon Gold 6122 @ 1.80GHz	23781
[Dual CPU] Intel Xeon Silver 4210 @ 2.20GHz	23776
AMD Ryzen 9 5980HX	23774
AMD Ryzen 7 3800XT	23732
[Dual CPU] Intel Xeon E5-2687W v3 @ 3.10GHz	23732
Intel Xeon E-2388G @ 3.20GHz	23725
Intel Xeon W-11865MRE @ 2.60GHz	23702
[Quad CPU] Intel Xeon E7- 4870 @ 2.40GHz	23649
Intel Core i9-7920X @ 2.90GHz	23601
[Dual CPU] Intel Xeon Silver 4210R @ 2.40GHz	23570
AMD EPYC 7351	23566
[Dual CPU] Intel Xeon E5-2666 v3 @ 2.90GHz	23501
AMD Ryzen 7 PRO 6850H	23402
Intel Xeon Silver 4310 @ 2.10GHz	23372
[Quad CPU] Intel Xeon E5-4610 @ 2.40GHz	23354
AMD EPYC 7F32	23311
Intel Xeon E5-2696 v3 @ 2.30GHz	23299
Intel Xeon Gold 6146 @ 3.20GHz	23296
AMD Ryzen 9 PRO 6950HS	23295
Intel Core i9-10900K @ 3.70GHz	23287
AMD Ryzen 7 3800X	23260
Intel Core i9-11980HK @ 2.60GHz	23187
Intel Xeon Platinum 8176 @ 2.10GHz	23179
Intel Core i9-11900KB @ 3.30GHz	23147
Intel Core i7-1370P	23103
Intel Xeon E5-2698 v4 @ 2.20GHz	23048
Intel Xeon W-11955M @ 2.60GHz	23029
Intel Core i9-11900 @ 2.50GHz	23024
AMD Ryzen 7 6800HS	23022

AMD Ryzen 7 PRO 3700	23000
Intel Core i5-12600H	22998
AMD Ryzen 7 6800HS Creator Edition	22981
[Dual CPU] Intel Xeon Gold 6128 @ 3.40GHz	22967
Intel Xeon W-2175 @ 2.50GHz	22962
Intel Core i9-10900KF @ 3.70GHz	22957
Intel Core i7-11700B @ 3.20GHz	22832
[Dual CPU] Intel Xeon E5-2673 v3 @ 2.40GHz	22830
AMD Ryzen 9 5900HX	22828
AMD Ryzen Threadripper 1920X	22813
Intel Xeon E-2378G @ 2.80GHz	22755
[Dual CPU] Intel Xeon E5-2697 v2 @ 2.70GHz	22744
Intel Xeon Gold 6132 @ 2.60GHz	22734
Intel Xeon W-1290P @ 3.70GHz	22730
Intel Core i9-11900F @ 2.50GHz	22711
Intel Core i9-10850K @ 3.60GHz	22698
Intel Xeon Platinum P-8124 @ 3.00GHz	22674
AMD Ryzen 7 3700X	22669
[Dual CPU] Intel Xeon E5-2650 v4 @ 2.20GHz	22641
[Dual CPU] Intel Xeon E5-4640 v4 @ 2.10GHz	22559
AMD Ryzen 9 PRO 6950H	22532
Intel Core i9-10900X @ 3.70GHz	22511
AMD Ryzen 9 6900HS Creator Edition	22489
[Dual CPU] Intel Xeon E5-2695 v2 @ 2.40GHz	22478
[Dual CPU] Intel Xeon Silver 4215 @ 2.50GHz	22379
Intel Xeon Gold 5218 @ 2.30GHz	22376
Intel Xeon Gold 6136 @ 3.00GHz	22348
Intel Xeon Gold 6144 @ 3.50GHz	22313
[Dual CPU] Intel Xeon E5-2670 v3 @ 2.30GHz	22309
Intel Xeon W-2255 @ 3.70GHz	22205
[Dual CPU] Intel Xeon E5-2660 v3 @ 2.60GHz	22201
AMD Ryzen 7 5700GE	22196
[Dual CPU] Intel Xeon E5-4627 v4 @ 2.60GHz	22162
Intel Xeon Gold 6334 @ 3.60GHz	22160
AMD Ryzen 9 5900HS Creator Edition	22138
Apple M1 Max 10 Core 3200 MHz	22121
AMD Ryzen 7 PRO 5750GE	22089
AMD Ryzen Threadripper 1920	22066
[Dual CPU] Intel Xeon Gold 5215 @ 2.50GHz	22066
AMD Ryzen 9 5900HS	21987
AMD EPYC 7281	21981
AMD Ryzen 5 5600X	21952
AMD Ryzen 7 PRO 6850HS	21910
AMD Ryzen 5 PRO 5645	21904
Apple M1 Pro 10 Core 3200 MHz	21902
Intel Core i9-9900X @ 3.50GHz	21894
[Dual CPU] Intel Xeon E5-2676 v3 @ 2.40GHz	21875
[Dual CPU] Intel Xeon E5-2658 v3 @ 2.20GHz	21856
Intel Core i9-10910 @ 3.60GHz	21813
Intel Xeon Gold 6130T @ 2.10GHz	21804
Apple M2 Pro 10 Core 3480 MHz	21769
Intel Core i9-11950H @ 2.60GHz	21693
Intel Xeon E5-2697A v4 @ 2.60GHz	21685
Intel Core i7-12700T	21682
[Dual CPU] Intel Xeon E5-2663 v3 @ 2.80GHz	21671
Intel Xeon D-2796TE @ 2.00GHz	21641
AMD Ryzen 5 5600	21623
Intel Xeon E7-8891 v3 @ 2.80GHz	21615
AMD EPYC 7551	21600
[Dual CPU] Intel Xeon E5-4657L v2 @ 2.40GHz	21548

Intel Core i5-12500H	21534
Intel Xeon E5-2699C v4 @ 2.20GHz	21493
AMD Ryzen 7 7735U	21486
Intel Core i5-12600	21467
Intel Xeon Gold 5218T @ 2.10GHz	21433
[Quad CPU] Intel Xeon E7- 4850 @ 2.00GHz	21385
[Quad CPU] Intel Xeon E5-4640 @ 2.40GHz	21374
[Dual CPU] Intel Xeon E5-2690 v2 @ 3.00GHz	21368
[Dual CPU] Intel Xeon E5-2680 v2 @ 2.80GHz	21341
[Dual CPU] Intel Xeon Silver 4114 @ 2.20GHz	21327
AMD Ryzen 7 5800H	21282
AMD EPYC 3451	21273
Intel Core i7-1360P	21231
Intel Core i7-11700F @ 2.50GHz	21221
Intel Core i9-7900X @ 3.30GHz	21221
[Dual CPU] Intel Xeon E5-2640 v4 @ 2.40GHz	21180
AMD Ryzen 7 5800HS Creator Edition	21166
Intel Core i9-11900H @ 2.50GHz	21113
[Dual CPU] Intel Xeon E5-2667 v2 @ 3.30GHz	21113
Intel Core i5-1340P	21073
AMD Ryzen 9 5980HS	21058
Intel Xeon E5-2673 v4 @ 2.30GHz	21056
Intel Xeon E5-2686 v4 @ 2.30GHz	21044
[Dual CPU] Intel Xeon E5-2673 v2 @ 3.30GHz	21039
AMD Ryzen 7 PRO 6860Z	21019
Intel Core i7-7900X @ 3.30GHz	21008
Intel Xeon W-2155 @ 3.30GHz	20984
Intel Xeon Silver 4310T @ 2.30GHz	20973
AMD Ryzen 9 5900H	20960
Intel Xeon Gold 6130 @ 2.10GHz	20956
Intel Core i7-11800H @ 2.30GHz	20949
[Dual CPU] Intel Xeon E5-2667 v3 @ 3.20GHz	20927
AMD Ryzen 7 PRO 6850U	20917
Intel Xeon Gold 6250 @ 3.90GHz	20915
AMD Ryzen 7 PRO 4700G	20848
Intel Xeon E5-2697R v4 @ 2.30GHz	20843
Intel Core i7-11850H @ 2.50GHz	20838
AMD EPYC 7262	20795
Intel Core i5-12490F	20738
Intel Xeon Gold 5315Y @ 3.20GHz	20724
Intel Core i5-12500E	20699
AMD Ryzen 7 6800U	20616
Intel Xeon Silver 4216 @ 2.10GHz	20613
AMD Ryzen 7 5800HS	20581
AMD Ryzen 7 PRO 4750G	20568
[Dual CPU] Intel Xeon E5-2687W v2 @ 3.40GHz	20537
Intel Core i9-10900F @ 2.80GHz	20490
AMD EPYC 7451	20471
Intel Xeon W-2150B @ 3.00GHz	20418
Intel Core i7-1280P	20367
[Quad CPU] Intel Xeon E7- 4860 @ 2.27GHz	20367
Intel Xeon E5-4667 v4 @ 2.20GHz	20319
[Dual CPU] Intel Xeon E5-4627 v3 @ 2.60GHz	20294
AMD Ryzen 7 4700G	20255
AMD Ryzen 7 4700GE	20249
[Dual CPU] Intel Xeon E5-2685 v3 @ 2.60GHz	20233
Intel Xeon Gold 6138 @ 2.00GHz	20221
Intel Core i9-10900 @ 2.80GHz	20210
[Dual CPU] Intel Xeon Gold 5115 @ 2.40GHz	20202
Intel Xeon W-1290 @ 3.20GHz	20157

AMD Ryzen 5 PRO 6650H	20103
Intel Xeon E5-2690 v4 @ 2.60GHz	20095
AMD Ryzen 5 PRO 5650G	20085
Intel Xeon E5-2699 v3 @ 2.30GHz	20083
Intel Core i7-11700 @ 2.50GHz	20060
[Dual CPU] Intel Xeon E5-2670 v2 @ 2.50GHz	20036
Intel Xeon W-1350P @ 4.00GHz	20032
Intel Core i5-12500	19997
[Quad CPU] Intel Xeon E7-4830 @ 2.13GHz	19981
Intel Xeon E5-2697 v4 @ 2.30GHz	19920
AMD Ryzen 5 5600G	19917
Intel Xeon D-1747NTE @ 2.50GHz	19822
Intel Xeon Gold 6226 @ 2.70GHz	19810
[Dual CPU] Intel Xeon Silver 4208 @ 2.10GHz	19793
[Dual CPU] Intel Xeon E5-2630L v4 @ 1.80GHz	19755
Intel Core i5-11600K @ 3.90GHz	19744
Intel Core i5-12400F	19736
Intel Core i9-9820X @ 3.30GHz	19729
[Quad CPU] AMD Opteron 6376	19717
Intel Core i5-11600KF @ 3.90GHz	19713
Intel Core i9-10900E @ 2.80GHz	19705
Intel Xeon E5-2682 v4 @ 2.50GHz	19702
[Dual CPU] Intel Core i5-12400F	19680
AMD Ryzen 7 7730U	19662
Intel Xeon E5-2695 v4 @ 2.10GHz	19656
[Dual CPU] Intel Xeon E5-2643 v4 @ 3.40GHz	19629
AMD Ryzen 5 5500	19621
Intel CoreT i7-1360P	19618
AMD EPYC 7252	19616
Intel Core i9-9900KS @ 4.00GHz	19595
Intel Core i5-12400	19551
Intel Core i5-1250P	19543
[Dual CPU] Intel Xeon E5-2630 v4 @ 2.20GHz	19528
[Dual CPU] Intel Xeon E5-2650 v3 @ 2.30GHz	19525
AMD Ryzen 5 7535HS	19523
Intel Xeon Gold 6244 @ 3.60GHz	19500
Intel Xeon W-2245 @ 3.90GHz	19475
Intel Xeon E-2356G @ 3.20GHz	19473
Intel Xeon E-2386G @ 3.50GHz	19439
Intel Xeon Gold 6137 @ 3.90GHz	19365
AMD Ryzen 9 4900H	19336
Intel Xeon W-1270P @ 3.80GHz	19245
AMD Ryzen 9 4900HS	19233
Intel Xeon Silver 4309Y @ 2.80GHz	19227
Intel Xeon Gold 6126 @ 2.60GHz	19223
AMD Ryzen 5 6600H	19132
AMD Ryzen 5 6600HS Creator Edition	19129
Intel Core i7-10700K @ 3.80GHz	19067
[Dual CPU] Intel Xeon E5-4640 v2 @ 2.20GHz	19028
Intel Xeon W-1350 @ 3.30GHz	19015
Intel Xeon E5-2676 v4 @ 2.40GHz	18978
Intel Core i7-10700KF @ 3.80GHz	18934
Intel Xeon E5-2697 v3 @ 2.60GHz	18933
AMD Ryzen 5 5600GE	18932
Intel Xeon E5-2698 v3 @ 2.30GHz	18862
[Dual CPU] Intel Xeon E5-2650L v3 @ 1.80GHz	18840
Hygon C86 7255 16-core	18831
ARM Neoverse-N1 80 Core 2600 MHz	18823
AMD Ryzen 7 4800H	18798
Intel Xeon W-1290E @ 3.50GHz	18786

AMD Ryzen 5 3600XT	18715
AMD Ryzen 7 5800U	18706
AMD Ryzen 7 4800HS	18679
AMD Ryzen 5 7535U	18645
Intel Xeon W-1270E @ 3.40GHz	18635
AMD Ryzen 7 5825U	18562
Intel Core i9-10900TE @ 1.80GHz	18548
Intel Core i9-9900K @ 3.60GHz	18519
Intel Core i9-9900KF @ 3.60GHz	18504
AMD Ryzen 5 PRO 5650GE	18489
AMD Ryzen 7 PRO 4750GE	18445
Intel Core i5-1345U	18417
Intel Xeon W-1290T @ 1.90GHz	18409
[Dual CPU] Intel Xeon E5-2660 v2 @ 2.20GHz	18404
Intel Xeon D-2183IT @ 2.20GHz	18385
AMD Ryzen Embedded V3C48	18361
[Dual CPU] Intel Xeon E5-2470 v2 @ 2.40GHz	18357
Intel Xeon W-11855M @ 3.20GHz	18349
Intel Core i9-11900T @ 1.50GHz	18276
AMD Ryzen 5 3600X	18258
[Dual CPU] Intel Xeon E5-2658 v2 @ 2.40GHz	18250
Intel Xeon E7-8880 v3 @ 2.30GHz	18244
Intel Xeon Silver 4214R @ 2.40GHz	18227
Intel Xeon E5-2687W v4 @ 3.00GHz	18208
AMD Ryzen 7 Extreme Edition	18185
Intel Core i5-11600 @ 2.80GHz	18171
Intel Xeon E5-2686 v3 @ 2.00GHz	18148
Intel Xeon W-2145 @ 3.70GHz	18142
Intel Xeon Gold 5120T @ 2.20GHz	18127
Intel Core i7-9800X @ 3.80GHz	18111
AMD 4700S	18084
Intel Xeon D-2187NT @ 2.00GHz	18070
[Quad CPU] Intel Xeon E5-4620 v2 @ 2.60GHz	18048
Intel Core i5-12450H	17992
Intel Xeon E5-2680 v4 @ 2.40GHz	17939
Intel Xeon E-2378 @ 2.60GHz	17931
Intel Xeon W-1270 @ 3.40GHz	17906
[Dual CPU] Intel Xeon E5-2643 v3 @ 3.40GHz	17843
[Dual CPU] Intel Xeon Gold 5222 @ 3.80GHz	17836
Intel Xeon D-1736NT @ 2.70GHz	17826
Intel Core i5-11500B @ 3.30GHz	17801
AMD Ryzen 5 3600	17796
AMD Ryzen 5 PRO 3600	17743
[Dual CPU] Intel Xeon E5-2687W @ 3.10GHz	17737
Intel Xeon Gold 5120 @ 2.20GHz	17686
Intel Core i7-1270P	17669
[Dual CPU] Intel Xeon E5-2640 v3 @ 2.60GHz	17600
Intel Xeon E5-2683 v4 @ 2.10GHz	17595
AMD Ryzen 7 2700X	17584
Intel Core i5-1240P	17566
Intel Core i5-11500 @ 2.70GHz	17470
AMD Ryzen 7 4980U Microsoft Surface Edition	17469
[Dual CPU] Intel Xeon E5-2650 v2 @ 2.60GHz	17450
Intel Xeon W-3223 @ 3.50GHz	17441
Intel Core i7-1260P	17440
Intel Xeon E5-4669 v3 @ 2.10GHz	17430
Intel Xeon E-2288G @ 3.70GHz	17418
Intel Core i5-12600T	17399
Intel Core i7-6950X @ 3.00GHz	17397
AMD Ryzen 7 PRO 5850U	17358

Intel Xeon W-2140B @ 3.20GHz	17319
AMD Ryzen 5 6600U	17274
Intel Core i7-7820X @ 3.60GHz	17266
Intel Core i5-1335U	17228
Intel Core i5-11400F @ 2.60GHz	17194
Apple M1 Pro 8 Core 3200 MHz	17186
AMD Ryzen 5 5600H	17182
AMD Ryzen Embedded V2748	17166
Intel Core i5-12500T	17152
[Dual CPU] Intel Xeon E5-2643 v2 @ 3.50GHz	17099
Intel Core i5-11400 @ 2.60GHz	17073
Intel Xeon E5-2689 v4 @ 3.10GHz	17040
[Dual CPU] Intel Xeon Silver 4110 @ 2.10GHz	17040
AMD Ryzen Threadripper 1900X	17035
[Dual CPU] Intel Xeon E5-2630 v3 @ 2.40GHz	17034
AMD EPYC 7232P	17017
Intel Xeon E-2278G @ 3.40GHz	16964
AMD Ryzen 7 4800U	16955
[Dual CPU] Intel Xeon E5-4620 v2 @ 2.60GHz	16913
[Quad CPU] Intel Xeon E5-4617 @ 2.90GHz	16902
Intel Xeon E5-2680R v4 @ 2.40GHz	16865
[Dual CPU] Intel Xeon Platinum 8156 @ 3.60GHz	16852
Intel Core i7-10700F @ 2.90GHz	16848
AMD Ryzen 7 PRO 2700X	16846
[Dual CPU] Intel Xeon E5-2690 @ 2.90GHz	16835
[Dual CPU] Intel Xeon Platinum 8256 @ 3.80GHz	16787
Intel Core i9-9900 @ 3.10GHz	16755
AMD Ryzen 5 PRO 6650U	16690
Intel Xeon E-2336 @ 2.90GHz	16673
Intel Core i7-10700 @ 2.90GHz	16672
Intel Xeon Gold 6134 @ 3.20GHz	16651
Intel Xeon E5-2698B v3 @ 2.00GHz	16633
Intel Core i5-12500TE	16584
Intel Core i5-12400T	16566
Intel Xeon E5-2690 v3 @ 2.60GHz	16471
AMD Ryzen Embedded V2718	16456
Intel Xeon E5-2695 v3 @ 2.30GHz	16452
AMD Ryzen 5 7530U	16444
Intel Xeon Silver 4214Y @ 2.20GHz	16442
AMD Ryzen 7 1800X	16418
Intel Core i7-10700E @ 2.90GHz	16418
Intel Core i7-11850HE @ 2.60GHz	16409
Intel Xeon Gold 5118 @ 2.30GHz	16409
AMD Ryzen 5 PRO 4400G	16354
AMD Ryzen 7 PRO 5875U	16349
AMD Ryzen 5 PRO 4650G	16338
Intel Core i7-10700TE @ 2.00GHz	16332
[Dual CPU] Intel Xeon Gold 5122 @ 3.60GHz	16256
AMD Ryzen 5 4500	16223
Intel Xeon E5-2669 v3 @ 2.30GHz	16107
Intel Core i5-11500H @ 2.90GHz	16095
Intel Xeon Silver 4214 @ 2.20GHz	16074
[Dual CPU] Intel Xeon E5-2648L v2 @ 1.90GHz	16028
Intel Core i7-11700T @ 1.40GHz	15998
[Dual CPU] Intel Xeon E5-2450 v2 @ 2.50GHz	15978
Intel Xeon E5-2660 v4 @ 2.00GHz	15975
Intel Xeon W-11865MLE @ 1.50GHz	15958
[Dual CPU] Intel Xeon E5-2620 v4 @ 2.10GHz	15955
[Dual CPU] Intel Xeon E5-2680 @ 2.70GHz	15924
AMD Ryzen 7 4850U Mobile	15920

Intel Core i7-11600H @ 2.90GHz	15919
Intel Core i5-11400H @ 2.70GHz	15915
[Dual CPU] Intel Xeon E5-2689 @ 2.60GHz	15911
AMD Ryzen 5 4600G	15905
[Dual CPU] Intel Xeon E5-4627 v2 @ 3.30GHz	15898
Intel Xeon E-2278GE @ 3.30GHz	15895
Intel Core i9-10980HK @ 2.40GHz	15855
AMD Ryzen 7 5700U	15847
Intel Xeon Gold 5117 @ 2.00GHz	15816
Intel Xeon D-2733NT @ 2.10GHz	15799
Intel Xeon W-10885M @ 2.40GHz	15786
AMD Ryzen 7 2700	15745
[Dual CPU] Intel Xeon E5-2670 @ 2.60GHz	15720
AMD Ryzen 7 PRO 1700X	15718
Intel Core i7-1355U	15700
AMD Ryzen 7 1700X	15685
Intel Core i5-11260H @ 2.60GHz	15661
AMD Ryzen 5 4600GE	15641
AMD Ryzen 5 PRO 4650GE	15636
[Dual CPU] Intel Xeon Silver 4108 @ 1.80GHz	15628
[Dual CPU] Intel Xeon E5-2651 v2 @ 1.80GHz	15611
Intel Xeon Gold 5215 @ 2.50GHz	15608
Intel Xeon D-1726 @ 2.90GHz	15511
AMD Ryzen 5 5600U	15451
Intel Xeon Gold 5217 @ 3.00GHz	15429
Intel Xeon E5-4667 v3 @ 2.00GHz	15397
Intel Core i9-10885H @ 2.40GHz	15384
Apple M2 8 Core 3500 MHz	15377
Intel Xeon E5-4660 v4 @ 2.20GHz	15375
Intel Xeon E5-2680 v3 @ 2.50GHz	15341
[Quad CPU] Intel Xeon X7560 @ 2.27GHz	15329
Intel Core i3-13100	15320
AMD Ryzen 7 PRO 2700	15288
AMD Ryzen 7 PRO 4750U	15259
AMD Ryzen 5 5560U	15255
Intel Core i3-13100F	15203
Intel Core i7-10875H @ 2.30GHz	15192
Intel Xeon Silver 4116T @ 2.10GHz	15187
Intel Core i5-1250PE	15178
Intel Xeon Silver 4116 @ 2.10GHz	15146
Intel Xeon E-2286M @ 2.40GHz	15141
Intel Xeon Silver 4210R @ 2.40GHz	15130
AMD Ryzen 5 5625U	15106
Intel Xeon D-2166NT @ 2.00GHz	15105
[Dual CPU] Intel Xeon E5-4610 v4 @ 1.80GHz	15084
AMD Ryzen 5 PRO 5650U	15075
Intel Xeon Silver 4215R @ 3.20GHz	15056
AMD EPYC 7301	14991
AMD EPYC 7251	14935
Intel Core i3-12300	14927
Intel Xeon E5-2699A v4 @ 2.40GHz	14917
Intel Core i9-10900T @ 1.90GHz	14887
Intel Xeon E5-2658A v3 @ 2.20GHz	14879
AMD Ryzen 7 1700	14849
Intel Xeon D-1733NT @ 2.00GHz	14849
Intel Xeon E5-1681 v3 @ 2.90GHz	14820
AMD Ryzen 5 PRO 4400GE	14795
[Dual CPU] Intel Xeon E5-2470 @ 2.30GHz	14785
Intel Core i7-10870H @ 2.20GHz	14780
AMD Ryzen 5 PRO 5675U	14764



Intel Core i9-10880H @ 2.30GHz	14736
Intel Xeon E5-2687W v3 @ 3.10GHz	14716
Intel Core i5-11600T @ 1.70GHz	14713
Intel Xeon E5-2678 v3 @ 2.50GHz	14685
AMD Ryzen 7 2700E	14657
[Dual CPU] Intel Xeon E5-2630L v3 @ 1.80GHz	14652
Intel Xeon Gold 5115 @ 2.40GHz	14649
[Dual CPU] Intel Xeon E5-2665 @ 2.40GHz	14647
AMD Ryzen 5 4600H	14645
Intel Xeon E5-2683 v3 @ 2.00GHz	14645
[Quad CPU] AMD Opteron 6380	14622
Intel Core i7-9700K @ 3.60GHz	14548
Intel Core i7-1365U	14530
Intel Core i7-6900K @ 3.20GHz	14501
AMD Ryzen 7 PRO 1700	14497
Intel Core i9-9980HK @ 2.40GHz	14484
[Dual CPU] Intel Xeon E5-2650L v2 @ 1.70GHz	14482
AMD Ryzen 5 4600HS	14477
Intel Core i5-10600K @ 4.10GHz	14448
Intel Core i5-10600KF @ 4.10GHz	14445
Intel Core i7-9700KF @ 3.60GHz	14442
Intel Xeon W-1250P @ 4.10GHz	14440
Intel Xeon Silver 4215 @ 2.50GHz	14439
Intel Xeon E5-2658 v4 @ 2.30GHz	14434
Intel Core i7-8086K @ 4.00GHz	14420
Intel Xeon Silver 4123 @ 3.00GHz	14405
Intel Xeon E5-2696 v2 @ 2.50GHz	14395
Intel Xeon W-2235 @ 3.80GHz	14375
Intel Core i3-1220P	14368
Intel Xeon E5-2697 v2 @ 2.70GHz	14334
Intel Core i5-1240U	14323
Intel Xeon E5-2666 v3 @ 2.90GHz	14311
[Dual CPU] Intel Xeon E5-4650 @ 2.70GHz	14309
Intel Core i3-12100F	14299
Intel Xeon E5-4660 v3 @ 2.10GHz	14256
Intel Xeon D-1732TE @ 1.90GHz	14254
Intel Xeon W-2135 @ 3.70GHz	14224
Intel Xeon E-2236 @ 3.40GHz	14214
Apple M1 8 Core 3200 MHz	14168
Intel Xeon E5-2673 v3 @ 2.40GHz	14150
[Dual CPU] Intel Xeon E5-2660 @ 2.20GHz	14108
Intel Xeon E-2246G @ 3.60GHz	14105
Intel Xeon E5-2650 v4 @ 2.20GHz	14017
AMD EPYC 3251	13993
AMD Ryzen 5 2600X	13982
Intel Xeon E5-2676 v3 @ 2.40GHz	13964
Intel Core i3-1315U	13962
Intel Core i9-9880H @ 2.30GHz	13956
Intel Core i7-1255U	13943
Intel Xeon E-2186G @ 3.80GHz	13940
Intel Xeon E5-2667 v4 @ 3.20GHz	13934
Intel Xeon Silver 4210 @ 2.20GHz	13908
Intel Xeon W-1250E @ 3.50GHz	13888
Intel Core i7-1265U	13865
AMD Ryzen 3 PRO 5350G	13860
Intel Xeon E-2374G @ 3.70GHz	13860
Intel Core i3-12100	13851

SPEC CPU2017 Floating Point Speed (SPEC CFP2017)					
URL:	<a href="https://www.spec.org/cgi-bin/osgresults?conf=cfp2017&amp;op=fetch&amp;proj-COMPANY=0&amp;proj-SYSTEM=256&amp;proj-CORES=256&amp;critop-CORES=1&amp;crit-CORES=23&amp;proj-CHIPS=256&amp;critop-CHIPS=0&amp;crit-CHIPS=1&amp;proj-THREADS=0&amp;proj-CPU=0&amp;proj-CPU_MHZ=0&amp;proj-NCPUORD=0&amp;proj-PARALLEL=0&amp;proj-BASEPTR=0&amp;proj-PEAKPTR=0&amp;proj-CACHE1=0&amp;proj-CACHE2=0&amp;proj-CACHE3=256&amp;proj-OCACHE=0&amp;proj-MEMORY=0&amp;proj-STORAGE=0&amp;proj-OS=0&amp;proj-FS=0&amp;proj-COMPILER=0&amp;proj-HWAVAIL=0&amp;crit2-HWAVAIL=Jan&amp;proj-SWAVAIL=0&amp;crit2-SWAVAIL=Jan&amp;proj-PEAK=256&amp;critop-PEAK=1&amp;crit-PEAK=217&amp;proj-BASE=0&amp;proj-ENERGYPEAK=0&amp;proj-ENERGYBASE=0&amp;proj-603PEAK=0&amp;proj-603BASE=0&amp;proj-607PEAK=0&amp;proj-607BASE=0&amp;proj-619PEAK=0&amp;proj-619BASE=0&amp;proj-621PEAK=0&amp;proj-621BASE=0&amp;proj-627PEAK=0&amp;proj-627BASE=0&amp;proj-628PEAK=0&amp;proj-628BASE=0&amp;proj-638PEAK=0&amp;proj-638BASE=0&amp;proj-644PEAK=0&amp;proj-644BASE=0&amp;proj-649PEAK=0&amp;proj-649BASE=0&amp;proj-654PEAK=0&amp;proj-654BASE=0&amp;proj-LICENSE=0&amp;proj-TESTER=0&amp;proj-SPONSOR=0&amp;proj-TESTDAT=0&amp;crit2-TESTDAT=Jan&amp;proj-PUBLISH=0&amp;crit2-PUBLISH=Jan&amp;proj-UPDATE=0&amp;crit2-UPDATE=Jan&amp;dups=1&amp;duplist=CPU&amp;dupkey=PUBLISH&amp;latest=Dec-9999&amp;sort1=PEAK&amp;sdir1=-1&amp;sort2=COMPANY&amp;sdir2=-1&amp;sort3=SYSTEM&amp;sdir3=-1&amp;format=pre">https://www.spec.org/cgi-bin/osgresults?conf=cfp2017&amp;op=fetch&amp;proj-COMPANY=0&amp;proj-SYSTEM=256&amp;proj-CORES=256&amp;critop-CORES=1&amp;crit-CORES=23&amp;proj-CHIPS=256&amp;critop-CHIPS=0&amp;crit-CHIPS=1&amp;proj-THREADS=0&amp;proj-CPU=0&amp;proj-CPU_MHZ=0&amp;proj-NCPUORD=0&amp;proj-PARALLEL=0&amp;proj-BASEPTR=0&amp;proj-PEAKPTR=0&amp;proj-CACHE1=0&amp;proj-CACHE2=0&amp;proj-CACHE3=256&amp;proj-OCACHE=0&amp;proj-MEMORY=0&amp;proj-STORAGE=0&amp;proj-OS=0&amp;proj-FS=0&amp;proj-COMPILER=0&amp;proj-HWAVAIL=0&amp;crit2-HWAVAIL=Jan&amp;proj-SWAVAIL=0&amp;crit2-SWAVAIL=Jan&amp;proj-PEAK=256&amp;critop-PEAK=1&amp;crit-PEAK=217&amp;proj-BASE=0&amp;proj-ENERGYPEAK=0&amp;proj-ENERGYBASE=0&amp;proj-603PEAK=0&amp;proj-603BASE=0&amp;proj-607PEAK=0&amp;proj-607BASE=0&amp;proj-619PEAK=0&amp;proj-619BASE=0&amp;proj-621PEAK=0&amp;proj-621BASE=0&amp;proj-627PEAK=0&amp;proj-627BASE=0&amp;proj-628PEAK=0&amp;proj-628BASE=0&amp;proj-638PEAK=0&amp;proj-638BASE=0&amp;proj-644PEAK=0&amp;proj-644BASE=0&amp;proj-649PEAK=0&amp;proj-649BASE=0&amp;proj-654PEAK=0&amp;proj-654BASE=0&amp;proj-LICENSE=0&amp;proj-TESTER=0&amp;proj-SPONSOR=0&amp;proj-TESTDAT=0&amp;crit2-TESTDAT=Jan&amp;proj-PUBLISH=0&amp;crit2-PUBLISH=Jan&amp;proj-UPDATE=0&amp;crit2-UPDATE=Jan&amp;dups=1&amp;duplist=CPU&amp;dupkey=PUBLISH&amp;latest=Dec-9999&amp;sort1=PEAK&amp;sdir1=-1&amp;sort2=COMPANY&amp;sdir2=-1&amp;sort3=SYSTEM&amp;sdir3=-1&amp;format=pre</a>				
Benchmark	System	# Cores	# Chips	3rd Level Cache	Result
CFP2017	ASUS RS520A-E12-RS12U (2.40 GHz, AMD EPYC 9654)	96	1	384 MB I+D on chip per chip, 32 MB shared / 8 cores	331
CFP2017	ThinkSystem SR655 V3 (2.40 GHz,AMD EPYC 9654P)	96	1	384 MB I+D on chip per chip, 32 MB shared / 8 cores	328
CFP2017	ThinkSystem SR655 V3 (2.25 GHz,AMD EPYC 9634)	84	1	384 MB I+D on chip per chip, 32 MB shared / 7 cores	317
CFP2017	ThinkSystem SR655 V3 (3.10 GHz,AMD EPYC 9554)	64	1	256 MB I+D on chip per chip, 32 MB shared / 8 cores	308
CFP2017	ThinkSystem SR635 V3 (3.10 GHz,AMD EPYC 9554P)	64	1	256 MB I+D on chip per chip, 32 MB shared / 8 cores	308
CFP2017	ASUS RS520A-E12-RS12U (3.10 GHz, AMD EPYC 9554)	64	1	256 MB I+D on chip per chip, 32 MB shared / 8 cores	307
CFP2017	ThinkSystem SR655 V3 (3.10 GHz,AMD EPYC 9554)	64	1	256 MB I+D on chip per chip, 32 MB shared / 8 cores	304
CFP2017	ThinkSystem SR635 V3 (2.45 GHz,AMD EPYC 9534)	64	1	256 MB I+D on chip per chip, 32 MB shared / 8 cores	302
CFP2017	ASUS RS520A-E12-RS12U (3.60 GHz, AMD EPYC 9474F)	48	1	256 MB I+D on chip per chip, 32 MB shared / 6 cores	290
CFP2017	ThinkSystem SR655 V3 (2.75 GHz,AMD EPYC 9454P)	48	1	256 MB I+D on chip per chip, 32 MB shared / 6 cores	278
CFP2017	ThinkSystem SR655 V3 (2.75 GHz,AMD EPYC 9454)	48	1	256 MB I+D on chip per chip, 32 MB shared / 6 cores	278
CFP2017	ThinkSystem SR635 V3 (2.75 GHz,AMD EPYC 9454)	48	1	256 MB I+D on chip per chip, 32 MB shared / 6 cores	276
CFP2017	ThinkSystem SR655 V3 (3.85 GHz,AMD EPYC 9374F)	32	1	256 MB I+D on chip per chip, 32 MB shared / 4 cores	267
CFP2017	ASUS RS520A-E12-RS12U (3.25 GHz, AMD EPYC 9354P)	32	1	256 MB I+D on chip per chip, 32 MB shared / 4 cores	255
CFP2017	ThinkSystem SR655 V3 (3.25 GHz,AMD EPYC 9354)	32	1	256 MB I+D on chip per chip, 32 MB shared / 4 cores	248
CFP2017	ThinkSystem SR655 V3 (2.70 GHz,AMD EPYC 9334)	32	1	128 MB I+D on chip per chip, 32 MB shared / 8 cores	246
CFP2017	ThinkSystem SR635 V3 (2.70 GHz,AMD EPYC 9334)	32	1	128 MB I+D on chip per chip, 32 MB shared / 8 cores	246
CFP2017	SuperServer SYS-211E-FRDN2T (X13SEM-TF , Intel Xeon Platinum 8490H)	60	1	112.5 MB I+D on chip per chip	239
CFP2017	ASUS RS520A-E12-RS12U (4.05 GHz, AMD EPYC 9274F)	24	1	256 MB I+D on chip per chip, 32 MB shared / 3 cores	230
CFP2017	PowerEdge R760 (Intel Xeon Platinum 8471N)	52	1	97.5 MB I+D on chip per chip	229
CFP2017	PowerEdge R660 (Intel Xeon Platinum 8471N)	52	1	97.5 MB I+D on chip per chip	229
CFP2017	ThinkSystem SR655 V3 (4.05 GHz,AMD EPYC 9274F)	24	1	256 MB I+D on chip per chip, 32 MB shared / 3 cores	228
CFP2017	PowerEdge MX760c (Intel Xeon Platinum 8468V)	48	1	97.5 MB I+D on chip per chip	227
CFP2017	PowerEdge C6620 (Intel Xeon Platinum 8461V)	48	1	97.5 MB I+D on chip per chip	222
CFP2017	ThinkSystem SR655 V3 (2.90 GHz,AMD EPYC 9254)	24	1	128 MB I+D on chip per chip, 32 MB shared / 6 cores	218