

# CPU Benchmarks

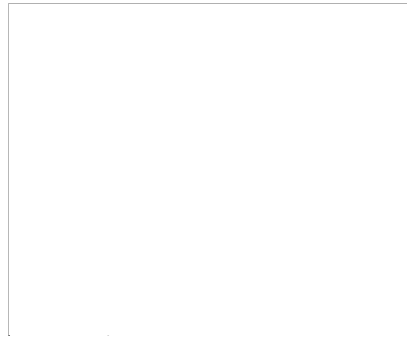
Over 1,000,000 CPUs Benchmarked

## New Laptop CPU Performance

This chart comparing performance of CPUs designed for laptop and portable machines is made using thousands of [PerformanceTest](#) benchmark results and is updated daily.

**Notes:**

- While we try to keep this chart mainly desktop CPU free, there might be some desktop processors in the list. This is because the classification of a laptop CPU is determined at result submission time by the user of PerformanceTest. Some users incorrectly clicked the "Laptop" check box.
- The chart shows only CPUs that had their benchmark first submitted within the last 36 months. Older laptop CPUs may not appear.



Home CPUS

CPU Mark	Price Performance	Sorted by Date
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High End

- High Mid Range
- Low Mid Range
- Low End

Best Value (On Market)

- Best Value XY Scatter
- Best Value (All time)

New Desktop

- New Laptop

Single Thread

- Systems with Multiple CPUs
- Overclocked
- Power Performance
- CPU Mark by Socket Type
- Cross-Platform CPU Performance
- Top Gaming CPUs

CPU Mega List

## PassMark - CPU Mark

Laptop & Portable CPU Performance  
Updated 26th of August 2023

CPU	CPU Mark	Price (USD)
<a href="#">AMD Ryzen 9 7945HX</a>	<b>57,041</b>	NA
<a href="#">Intel Core i9-13980HX</a>	<b>48,380</b>	\$668.00*
<a href="#">AMD Ryzen 9 7845HX</a>	<b>46,796</b>	NA
<a href="#">Intel Core i9-13950HX</a>	<b>45,786</b>	\$590.00*
<a href="#">Intel Core i9-13900HX</a>	<b>44,982</b>	\$668.00*
<a href="#">Intel Core i7-13850HX</a>	<b>39,101</b>	\$428.00*
<a href="#">Intel Core i9-12900HX</a>	<b>34,909</b>	\$606.00*
<a href="#">Intel Core i7-13700HX</a>	<b>34,655</b>	\$485.00*
<a href="#">Intel Core i7-12800HX</a>	<b>33,386</b>	\$457.00*
<a href="#">Intel Core i9-13900HK</a>	<b>33,167</b>	\$697.00*
<a href="#">Intel Core i9-12950HX</a>	<b>33,031</b>	\$590.00*
<a href="#">AMD Ryzen 7 7745HX</a>	<b>32,902</b>	NA
<a href="#">Intel Core i7-13650HX</a>	<b>32,226</b>	\$485.00*
<a href="#">Intel Core i9-13905H</a>	<b>31,441</b>	\$697.00*
<a href="#">AMD Ryzen 9 7940H</a>	<b>31,099</b>	NA
<a href="#">AMD Ryzen 9 7940HS</a>	<b>30,982</b>	NA
<a href="#">Intel Core i7-12850HX</a>	<b>30,534</b>	\$428.00*
<a href="#">Intel Core i9-13900H</a>	<b>30,321</b>	\$617.00*
<a href="#">AMD Ryzen 7 7840HS</a>	<b>30,099</b>	NA
<a href="#">Intel Core i5-13600HX</a>	<b>29,864</b>	\$284.00*
<a href="#">AMD Ryzen 7 7840H</a>	<b>29,134</b>	NA

Search Model

<a href="#">Intel Core i5-13500HX</a>	<b>28,863</b>	\$326.00*
<a href="#">Intel Core i9-12900H</a>	<b>28,742</b>	\$617.00*
<a href="#">AMD Ryzen 9 PRO 7940HS</a>	<b>28,367</b>	NA
<a href="#">Intel Core i9-12900HK</a>	<b>28,160</b>	\$635.00*
<a href="#">Intel Core i7-13800H</a>	<b>27,879</b>	\$457.00*
<a href="#">Intel Core i7-13620H</a>	<b>27,057</b>	\$502.00*
<a href="#">Intel Core i7-12700H</a>	<b>26,559</b>	\$457.00*
<a href="#">Intel Core i5-13450HX</a>	<b>26,533</b>	\$326.00*
<a href="#">Apple M2 Pro 12 Core 3480 MHz</a>	<b>26,453</b>	NA
<a href="#">Apple M2 Max 12 Core 3680 MHz</a>	<b>26,261</b>	NA
<a href="#">Intel Core i5-13600H</a>	<b>25,354</b>	\$311.00*
<a href="#">AMD Ryzen 9 6900HX</a>	<b>24,948</b>	NA
<a href="#">Intel Core i7-12800H</a>	<b>24,937</b>	\$457.00*
<a href="#">AMD Ryzen 7 PRO 7840HS</a>	<b>24,445</b>	NA
<a href="#">AMD Ryzen 7 7735H</a>	<b>24,427</b>	NA
<a href="#">AMD Ryzen 7 7735HS</a>	<b>24,201</b>	NA
<a href="#">AMD Ryzen 9 6900HS</a>	<b>24,041</b>	NA
<a href="#">Intel Core i5-12600HX</a>	<b>23,908</b>	\$284.00*
<a href="#">AMD Ryzen 7 6800H</a>	<b>23,783</b>	NA
<a href="#">Intel Core i7-13705H</a>	<b>23,753</b>	\$502.00*
<a href="#">Intel Core i7-12650H</a>	<b>23,707</b>	\$457.00*
<a href="#">AMD Ryzen 9 5980HX</a>	<b>23,694</b>	NA
<a href="#">AMD Ryzen 5 7640HS</a>	<b>23,557</b>	NA
<a href="#">AMD Ryzen 9 PRO 6950HS</a>	<b>23,295</b>	NA
<a href="#">AMD Ryzen 7 7736U</a>	<b>23,163</b>	NA
<a href="#">Intel Core i9-11980HK @ 2.60GHz</a>	<b>23,115</b>	\$583.00*
<a href="#">Intel Xeon W-11955M @ 2.60GHz</a>	<b>23,023</b>	\$623.00*
<a href="#">AMD Ryzen 7 6800HS</a>	<b>23,014</b>	NA
<a href="#">Intel Core i5-12600H</a>	<b>23,012</b>	\$311.00*
<a href="#">Intel Core i5-13500H</a>	<b>22,933</b>	NA
<a href="#">AMD Ryzen 7 PRO 6850H</a>	<b>22,866</b>	NA
<a href="#">AMD Ryzen 9 5900HX</a>	<b>22,781</b>	NA
<a href="#">AMD Ryzen 7 6800HS Creator Edition</a>	<b>22,624</b>	NA
<a href="#">Intel Core i7-1370P</a>	<b>22,605</b>	NA
<a href="#">AMD Ryzen 9 PRO 6950H</a>	<b>22,553</b>	NA
<a href="#">AMD Ryzen 9 6900HS Creator Edition</a>	<b>22,488</b>	NA
<a href="#">Intel Core i5-1350P</a>	<b>22,137</b>	\$320.00*
<a href="#">Apple M1 Max 10 Core 3200 MHz</a>	<b>22,080</b>	NA
<a href="#">AMD Ryzen 7 PRO 6850HS</a>	<b>22,044</b>	NA
<a href="#">AMD Ryzen 9 5900HS</a>	<b>21,909</b>	NA
<a href="#">Apple M1 Pro 10 Core 3200 MHz</a>	<b>21,862</b>	NA
<a href="#">Intel Core i5-12500H</a>	<b>21,664</b>	\$311.00*
<a href="#">Apple M2 Pro 10 Core 3480 MHz</a>	<b>21,653</b>	NA
<a href="#">Intel Core i9-11950H @ 2.60GHz</a>	<b>21,552</b>	\$556.00*
<a href="#">AMD Ryzen 9 5980HS</a>	<b>21,232</b>	NA
<a href="#">AMD Ryzen 7 5800H</a>	<b>21,209</b>	NA
<a href="#">AMD Ryzen 7 5800HS Creator Edition</a>	<b>21,166</b>	NA
<a href="#">AMD Ryzen 7 7735U</a>	<b>21,043</b>	NA

🏠 CPU Benchmarks ▼

☆ Common  
Most Benchmarked

📈 AMD vs Intel Market Share  
Year on Year Performance

 CPU Benchmarks ▼

<a href="#">Intel Core i9-11900H @ 2.50GHz</a>	<b>21,011</b>	\$546.00*
<a href="#">AMD Ryzen 7 PRO 6860Z</a>	<b>20,994</b>	NA
<a href="#">AMD Ryzen 7 PRO 6850U</a>	<b>20,918</b>	NA
<a href="#">Intel Core i7-11800H @ 2.30GHz</a>	<b>20,839</b>	\$395.00*
<a href="#">Intel Core i7-11850H @ 2.50GHz</a>	<b>20,819</b>	\$395.00*
<a href="#">Intel Core i5-1340P</a>	<b>20,760</b>	\$353.00*
<a href="#">Intel Core i5-1250P</a>	<b>20,690</b>	NA
<a href="#">AMD Ryzen 7 6800U</a>	<b>20,649</b>	NA
<a href="#">AMD Ryzen 7 5800HS</a>	<b>20,511</b>	NA
<a href="#">Intel Core i7-1280P</a>	<b>20,383</b>	\$482.00*
<a href="#">AMD Ryzen 5 7540U</a>	<b>20,083</b>	NA
<a href="#">AMD Ryzen 5 PRO 6650H</a>	<b>19,907</b>	NA
<a href="#">Intel Core i7-1360P</a>	<b>19,642</b>	\$480.00*
<a href="#">AMD Ryzen 5 7535HS</a>	<b>19,250</b>	NA
<a href="#">AMD Ryzen 5 6600H</a>	<b>19,136</b>	NA
<a href="#">AMD Ryzen 7 7730U</a>	<b>18,979</b>	NA
<a href="#">AMD Ryzen 5 6600HS Creator Edition</a>	<b>18,695</b>	NA
<a href="#">AMD Ryzen 7 5800U</a>	<b>18,687</b>	NA
<a href="#">AMD Ryzen 7 5825U</a>	<b>18,493</b>	NA
<a href="#">Intel Core i5-13420H</a>	<b>18,492</b>	\$342.00*
<a href="#">Intel Xeon W-11855M @ 3.20GHz</a>	<b>18,295</b>	\$450.00*
<a href="#">Intel Core i5-1335U</a>	<b>18,259</b>	\$340.00*
<a href="#">AMD Ryzen 5 PRO 7540U</a>	<b>18,045</b>	NA
<a href="#">Intel Core i5-12450H</a>	<b>18,011</b>	\$311.00*
<a href="#">Intel Core i7-1270P</a>	<b>17,667</b>	NA
<a href="#">AMD Ryzen 7 4980U Microsoft Surface Edition</a>	<b>17,469</b>	NA
<a href="#">Intel Core i5-1240P</a>	<b>17,414</b>	NA
<a href="#">Intel Core i7-1260P</a>	<b>17,330</b>	NA
<a href="#">AMD Ryzen 7 PRO 5850U</a>	<b>17,316</b>	NA
<a href="#">AMD Ryzen 5 6600U</a>	<b>17,223</b>	NA
<a href="#">Apple M1 Pro 8 Core 3200 MHz</a>	<b>17,169</b>	NA
<a href="#">AMD Ryzen 5 7535U</a>	<b>17,163</b>	NA
<a href="#">AMD Ryzen 5 5600H</a>	<b>17,124</b>	NA
<a href="#">AMD Ryzen 5 PRO 6650U</a>	<b>16,818</b>	NA
<a href="#">AMD Ryzen 7 PRO 5875U</a>	<b>16,748</b>	NA
<a href="#">Intel Core i5-12500TE</a>	<b>16,456</b>	\$205.00*
<a href="#">Intel Core i7-10700E @ 2.90GHz</a>	<b>16,418</b>	\$330.00*
<a href="#">AMD Ryzen 5 PRO 7530U</a>	<b>16,365</b>	NA
<a href="#">Intel Core i7-10700TE @ 2.00GHz</a>	<b>16,332</b>	\$330.00*
<a href="#">AMD Ryzen 5 7530U</a>	<b>16,197</b>	NA
<a href="#">Intel Core i5-11500H @ 2.90GHz</a>	<b>15,959</b>	\$250.00*
<a href="#">AMD Ryzen 7 4850U Mobile</a>	<b>15,920</b>	NA
<a href="#">Intel Core i7-11600H @ 2.90GHz</a>	<b>15,919</b>	\$395.00*
<a href="#">Intel Core i5-11260H @ 2.60GHz</a>	<b>15,875</b>	\$250.00*
<a href="#">Intel Core i5-11400H @ 2.70GHz</a>	<b>15,868</b>	\$250.00*
<a href="#">AMD Ryzen 7 5700U</a>	<b>15,823</b>	NA
<a href="#">Intel Core i7-1355U</a>	<b>15,636</b>	\$469.00*
<a href="#">Intel Core i7-12700TE</a>	<b>15,616</b>	\$344.00*

 CPU Benchmarks ▼

<a href="#">Intel Core i7-1365U</a>	<b>15,546</b>	\$426.00*
<a href="#">Intel Core i5-1345U</a>	<b>15,533</b>	\$309.00*
<a href="#">Apple M2 8 Core 3500 MHz</a>	<b>15,353</b>	NA
<a href="#">AMD Ryzen 5 5625U</a>	<b>15,181</b>	NA
<a href="#">AMD Ryzen 5 5560U</a>	<b>15,178</b>	NA
<a href="#">AMD Ryzen 5 PRO 5650U</a>	<b>15,042</b>	NA
<a href="#">AMD Ryzen 5 PRO 4400GE</a>	<b>14,795</b>	NA
<a href="#">Intel Core i7-10870H @ 2.20GHz</a>	<b>14,688</b>	\$417.00*
<a href="#">AMD Ryzen 5 PRO 5675U</a>	<b>14,474</b>	NA
<a href="#">Intel Core i3-1220P</a>	<b>14,420</b>	\$281.00*
<a href="#">Intel Core i5-1240U</a>	<b>14,323</b>	NA
<a href="#">Intel Core i7-1265U</a>	<b>14,147</b>	\$426.00*
<a href="#">Apple M1 8 Core 3200 MHz</a>	<b>14,074</b>	NA
<a href="#">Intel Core i7-1255U</a>	<b>13,925</b>	\$426.00*
<a href="#">Intel Core i5-1235U</a>	<b>13,649</b>	\$309.00*
<a href="#">Intel Core i5-1245U</a>	<b>13,648</b>	\$309.00*
<a href="#">AMD Ryzen 5 5500U</a>	<b>13,179</b>	NA
<a href="#">Intel Core i3-1315U</a>	<b>13,033</b>	\$309.00*
<a href="#">Intel Core i3-12100TE</a>	<b>12,961</b>	\$125.00*
<a href="#">AMD Ryzen 3 PRO 7330U</a>	<b>12,846</b>	NA
<a href="#">Intel Core i7-1250U</a>	<b>12,746</b>	\$426.00*
<a href="#">Intel Core i7-1260U</a>	<b>12,698</b>	NA
<a href="#">Intel Core i7-11375H @ 3.30GHz</a>	<b>12,159</b>	\$482.00*
<a href="#">Intel Core i7-11370H @ 3.30GHz</a>	<b>11,787</b>	\$426.00*
<a href="#">Snapdragon 8cx Gen 3 @ 3.0 GHz</a>	<b>11,784</b>	NA
<a href="#">AMD Ryzen 3 5425U</a>	<b>11,553</b>	NA
<a href="#">AMD Ryzen 3 5400U</a>	<b>11,540</b>	NA
<a href="#">Intel Core i5-10500H @ 2.50GHz</a>	<b>11,354</b>	\$250.00*
<a href="#">AMD Ryzen 3 PRO 5475U</a>	<b>11,272</b>	NA
<a href="#">Intel Core i3-1215U</a>	<b>11,164</b>	NA
<a href="#">AMD Ryzen 3 PRO 5450U</a>	<b>11,110</b>	NA
<a href="#">Intel Core i3-1210U</a>	<b>11,087</b>	NA
<a href="#">Intel Core i7-1195G7 @ 2.90GHz</a>	<b>11,078</b>	\$426.00*
<a href="#">Intel Core i5-11300H @ 3.10GHz</a>	<b>11,003</b>	\$309.00*
<a href="#">Intel Core i5-11320H @ 3.20GHz</a>	<b>10,938</b>	\$309.00*
<a href="#">AMD Ryzen 3 PRO 4200GE</a>	<b>10,930</b>	NA
<a href="#">AMD Ryzen 3 7330U</a>	<b>10,909</b>	NA
<a href="#">Intel Core i5-1230U</a>	<b>10,861</b>	\$309.00*
<a href="#">Intel Core i7-11390H @ 3.40GHz</a>	<b>10,493</b>	\$426.00*
<a href="#">Intel Core i7-1185G7E @ 2.80GHz</a>	<b>10,444</b>	\$431.00*
<a href="#">Intel Core i5-1334U</a>	<b>10,366</b>	\$340.00*
<a href="#">Intel Core i5-1155G7 @ 2.50GHz</a>	<b>10,313</b>	\$309.00*
<a href="#">Intel Core i3-N305</a>	<b>10,265</b>	\$309.00*
<a href="#">Intel Core i5-1145G7 @ 2.60GHz</a>	<b>9,959</b>	NA
<a href="#">Intel Core i3-1125G4 @ 2.00GHz</a>	<b>9,841</b>	NA
<a href="#">AMD Ryzen 5 7520U</a>	<b>9,757</b>	NA
<a href="#">AMD Ryzen 3 5300U</a>	<b>9,735</b>	NA
<a href="#">Intel Core i3-1305U</a>	<b>9,724</b>	\$309.00*
<a href="#">AMD Ryzen 3 7320U</a>	<b>9,253</b>	NA

## 🏠 CPU Benchmarks ▼

<a href="#">Intel Core i7-1265UE</a>	<b>9,195</b>	\$472.00*
<a href="#">Intel Core i7-1160G7 @ 1.20GHz</a>	<b>9,166</b>	\$426.00*
<a href="#">Intel Pentium Gold 8505</a>	<b>9,035</b>	NA
<a href="#">Intel Core i5-1130G7 @ 1.10GHz</a>	<b>8,600</b>	\$309.00*
<a href="#">Intel Core i7-1180G7 @ 1.30GHz</a>	<b>8,486</b>	\$426.00*
<a href="#">Intel Core i5-10500TE @ 2.30GHz</a>	<b>8,449</b>	\$195.00*
<a href="#">AMD Ryzen 3 7320C</a>	<b>8,386</b>	NA
<a href="#">AMD Athlon Gold PRO 4150GE</a>	<b>8,259</b>	NA
<a href="#">Intel Core i5-10200H @ 2.40GHz</a>	<b>8,239</b>	\$250.00*
<a href="#">Intel Core i3-N300</a>	<b>8,064</b>	\$309.00*
<a href="#">Intel Core i5-8269U @ 2.60GHz</a>	<b>8,055</b>	\$320.00*
<a href="#">AMD Ryzen 7 3700C</a>	<b>7,145</b>	NA
<a href="#">Snapdragon 8cx Gen 2 @ 3.0 GHz</a>	<b>6,770</b>	NA
<a href="#">AMD Ryzen 5 3450U</a>	<b>6,756</b>	NA
<a href="#">Snapdragon 8cx Gen 2 @ 3.15 GHz</a>	<b>6,511</b>	NA
<a href="#">Intel Core i3-1115G4 @ 3.00GHz</a>	<b>6,157</b>	\$281.00*
<a href="#">AMD Ryzen 3 3350U</a>	<b>5,846</b>	NA
<a href="#">Intel Core i5-7440EQ @ 2.90GHz</a>	<b>5,711</b>	\$250.00*
<a href="#">AMD Ryzen 5 3500C</a>	<b>5,564</b>	NA
<a href="#">Intel N95</a>	<b>5,459</b>	NA
<a href="#">Intel Pentium Silver N6005 @ 2.00GHz</a>	<b>5,395</b>	NA
<a href="#">Intel Pentium Gold 7505 @ 2.00GHz</a>	<b>5,265</b>	NA
<a href="#">Snapdragon 8c @ 2.46 GHz</a>	<b>5,230</b>	NA
<a href="#">AMD Athlon Gold 7220U</a>	<b>4,958</b>	NA
<a href="#">Snapdragon 8cx @ 2.84 GHz</a>	<b>4,660</b>	NA
<a href="#">AMD Athlon Silver 3050GE</a>	<b>4,545</b>	NA
<a href="#">Intel Core i3-9100TE @ 2.20GHz</a>	<b>4,501</b>	\$122.00*
<a href="#">Intel Pentium 6805 @ 1.10GHz</a>	<b>4,424</b>	\$161.00*
<a href="#">Intel Core i5-6350HQ @ 2.30GHz</a>	<b>4,255</b>	\$306.00*
<a href="#">Intel Core i3-8140U @ 2.10GHz</a>	<b>4,227</b>	NA
<a href="#">AMD Athlon PRO 300U</a>	<b>4,080</b>	NA
<a href="#">Snapdragon 7c Gen 2 @ 2.55 GHz</a>	<b>3,791</b>	NA
<a href="#">Snapdragon 7c @ 1.96 GHz</a>	<b>3,712</b>	NA
<a href="#">Intel Pentium Silver N5020 @ 1.10GHz</a>	<b>3,404</b>	NA
<a href="#">Intel Celeron N5100 @ 1.10GHz</a>	<b>3,359</b>	NA
<a href="#">Snapdragon 850 @ 2.96 GHz</a>	<b>3,326</b>	NA
<a href="#">AMD Athlon Gold 3150C</a>	<b>3,292</b>	NA
<a href="#">Snapdragon 7c @ 2.40 GHz</a>	<b>3,269</b>	NA
<a href="#">AMD Ryzen 3 3250C</a>	<b>3,208</b>	NA
<a href="#">Intel Core i3-6167U @ 2.70GHz</a>	<b>3,206</b>	NA
<a href="#">AMD Athlon Silver 3050e</a>	<b>3,038</b>	NA
<a href="#">AMD Ryzen Embedded R1305G</a>	<b>2,980</b>	NA
<a href="#">AMD Athlon Silver 7120U</a>	<b>2,558</b>	NA
<a href="#">Intel Celeron 7305</a>	<b>2,367</b>	\$107.00*
<a href="#">Snapdragon 835</a>	<b>2,211</b>	NA
<a href="#">Intel Celeron 6305 @ 1.80GHz</a>	<b>2,083</b>	NA
<a href="#">Intel Celeron N4020C @ 1.10GHz</a>	<b>1,587</b>	NA
<a href="#">AMD Athlon PRO 3045B</a>	<b>1,487</b>	NA

 CPU Benchmarks ▼

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