

NeatBench (CPU/GPU) Ergebnisse - Bench ist von Neat Video - video Plugin Hersteller

Beitrag von „mitchde“ vom 6. November 2022, 09:32

Hi, bin auf Neatbench (Metal) gestossen. Ist ein UB,a Iso native auch auf M1, M2...

DL: <https://www.neatvideo.com/download/neatbench>

Screenshoot: Neatbench im Standard Mode - Quelle Neat Video

NeatBench 5 run with default settings (1920x1080, 32-bit, temporal radius 2) on systems with different CPU and GPU models.

| CPU | Best speed (Frames/Sec) | GPU | Best speed (Frames/Sec) |
|------------------------------|-------------------------|----------------------------|-------------------------|
| AMD Ryzen Threadripper 3970X | 48.7 | NVIDIA GeForce RTX 4090 | 120.0 |
| Intel Core i9-12900K | 41.1 | AMD Radeon RX 6950 XT | 78.2 |
| Apple Silicon M1 Ultra | 38.2 | NVIDIA GeForce RTX 3090 | 70.0 |
| Intel Core i9-10980XE | 33.8 | NVIDIA GeForce RTX 3080 | 59.7 |
| Intel Xeon W-3245 | 31.3 | AMD Radeon RX 6800 XT | 58.9 |
| AMD Ryzen 9 3950X | 27.8 | Apple Silicon M1 Ultra | 52.0 |
| AMD Ryzen 9 3900X | 23.2 | NVIDIA GeForce RTX 2080 Ti | 42.9 |
| Apple Silicon M1 Max | 22.7 | Apple Silicon M1 Max | 36.5 |
| Apple Silicon M1 Pro | 22.5 | NVIDIA GeForce RTX 2080 | 35.5 |
| AMD Ryzen 7 3700X | 21.1 | AMD Radeon RX 5700 XT | 35.1 |
| AMD Ryzen TR 1950X | 18.5 | AMD Radeon Pro Vega II | 32.8 |
| Intel Xeon W-3223 | 17.7 | AMD Radeon Pro W5700X | 28.7 |
| Apple Silicon M2 | 14.9 | Apple Silicon M1 Pro | 20.6 |
| Apple Silicon M1 | 13.0 | Apple Silicon M2 | 11.5 |

Mein System: noch Monterey

CPU Model: Intel(R) Core(TM) **i7-7700** CPU @ 3.60GHz

GPU 1: AMD Radeon **RX 570** (Metal): 4096 MB total

Starten mit Terminal:

Neatbench

.. **Best combination: CPU (5 cores) and GPU (RX 570): 15.7 frames/sec**

Spoiler anzeigen

man kann noch Standardmode in **High Quali Mode** per parameter umstellen -

NeatBench **ulf+ q1**

Best combination: GPU only (AMD Radeon RX 570): 4.84 frames/sec

Spoiler anzeigen

in dem Mode bei mir GPU Only am schnellsten.

Wie läuft das bei euren CPU / GPU Kombis?

Beitrag von „mitchde“ vom 18. Januar 2024, 11:15

Hi, gibt neue Neatbench Version:

<https://www.neatvideo.com/download/neatbench>

Wie immer. einfach im Terminal starten.

Deren CPU / GPU Bench Liste wurde auch aktulisiert (neuere Apple CPU/GPUs auch dabei..)

GPU models.

| CPU | Best speed (Frames/Sec) | GPU | Best speed (Frames/Sec) |
|---------------------------------|-------------------------|-----------------------------------|-------------------------|
| AMD Ryzen Threadripper 3970X | 48.7 | NVIDIA GeForce RTX 4090 | 120.0 |
| Intel Core i9-13900K | 46.1 | AMD Radeon RX 7900 XTX | 97.0 |
| Apple Silicon M3 Max (16 cores) | 46.0 | AMD Radeon RX 6950 XT | 78.2 |
| Apple Silicon M2 Ultra | 42.1 | NVIDIA GeForce RTX 3090 | 70.0 |
| Intel Core i9-12900K | 41.1 | NVIDIA GeForce RTX 3080 | 59.7 |
| Apple Silicon M3 Max (14 cores) | 36.0 | Apple Silicon M2 Ultra (76 cores) | 56.0 |
| Intel Core i9-10980XE | 33.8 | NVIDIA GeForce RTX 2080 Ti | 42.9 |
| AMD Ryzen 9 5950X | 33.7 | Apple Silicon M2 Max | 42.5 |
| Intel Xeon W-3245 | 31.3 | Apple Silicon M1 Max | 36.5 |
| AMD Ryzen 9 3950X | 27.8 | Apple Silicon M3 Max (40 cores) | 35.4 |
| Apple Silicon M2 Pro | 26.9 | AMD Radeon RX 5700 XT | 35.1 |
| Apple Silicon M3 Pro | 24.3 | AMD Radeon Pro Vega II | 32.8 |
| Apple Silicon M2 Max | 23.9 | Apple Silicon M3 Max (30 cores) | 30.8 |
| AMD Ryzen 9 3900X | 23.2 | AMD Radeon Pro W5700X | 28.7 |
| Apple Silicon M1 Max | 22.7 | Apple Silicon M2 Pro | 24.2 |
| Intel i9-10900K | 19.8 | Apple Silicon M3 Pro | 17.4 |
| Apple Silicon M2 | 14.9 | Apple Silicon M2 | 11.5 |

Hier meine Werte i5-12400F, DDR4 + **RX 5600XT**

GPU only **25,9 fps** (mit RX 570 15 fps)

best CPU only mit 8 Cores : **21,9 fps** (mit i7-7700 9,53 fps, die 12400F ist echt ne sehr gute CPU / Kosten

)

```
Detecting the best combination of performance settings:
Running the test data set on up to 12 CPU cores and on up to 1 GPU

CPU Model: 12th Gen Intel(R) Core(TM) i5-12400P
GPU 1: AMD Radeon RX 5600 XT (Retail); 6128 MB total, using up to 288x

CPU only (1 core): 4.37 Frames/sec
CPU only (2 cores): 8.18 Frames/sec
CPU only (3 cores): 12.8 Frames/sec
CPU only (4 cores): 16.5 Frames/sec
CPU only (5 cores): 21.7 Frames/sec
CPU only (6 cores): 21 Frames/sec
CPU only (7 cores): 21.9 Frames/sec
CPU only (8 cores): 21.3 Frames/sec
CPU only (9 cores): 21.8 Frames/sec
CPU only (10 cores): 20.8 Frames/sec
CPU only (11 cores): 19.8 Frames/sec
CPU only (12 cores): 18.7 Frames/sec
GPU only (AMD Radeon RX 5600 XT): 25.9 Frames/sec
CPU (2 cores) and GPU (AMD Radeon RX 5600 XT): 18.5 Frames/sec
CPU (3 cores) and GPU (AMD Radeon RX 5600 XT): 24.2 Frames/sec
CPU (4 cores) and GPU (AMD Radeon RX 5600 XT): 25.8 Frames/sec
CPU (5 cores) and GPU (AMD Radeon RX 5600 XT): 28.4 Frames/sec
CPU (6 cores) and GPU (AMD Radeon RX 5600 XT): 29.2 Frames/sec
CPU (7 cores) and GPU (AMD Radeon RX 5600 XT): 30.3 Frames/sec
CPU (8 cores) and GPU (AMD Radeon RX 5600 XT): 29.5 Frames/sec
CPU (9 cores) and GPU (AMD Radeon RX 5600 XT): 30.5 Frames/sec
CPU (10 cores) and GPU (AMD Radeon RX 5600 XT): 28 Frames/sec
CPU (11 cores) and GPU (AMD Radeon RX 5600 XT): 28.7 Frames/sec
CPU (12 cores) and GPU (AMD Radeon RX 5600 XT): 30.6 Frames/sec

Best combination: CPU (12 cores) and GPU (AMD Radeon RX 5600 XT): 30.6 Frames/sec

Log has been saved to /Users/andreas/NeatBenchLog 2024-05-03 10-50-56.txt

Press Enter to exit
```

Mit parameter für HIGH quality Mode

NeatBench5 ulf+ q1

GPU only 8,1 fps (mit RX 570 4,8 fps)

best CPU only mit 11 Cores : 4,63 fps (mit i7-7700 2,17 fps)

```
Special Filter: Enabled
Quality Mode: High
Frequencies: High, Mid, Low, Very Low, Ultra Low
Artifact Removal: Enabled
Edge Smoothings: Disabled
Sharpening: Disabled

Detecting the best combination of performance settings:
Running the test data set on up to 12 CPU cores and on up to 1 GPU

CPU Model: 12th Gen Intel(R) Core(TM) i5-12400P
GPU 1: AMD Radeon RX 5600 XT (Retail); 6128 MB total, using up to 288x

CPU only (1 core): 6.969 Frames/sec
CPU only (2 cores): 1.89 Frames/sec
CPU only (3 cores): 2.05 Frames/sec
CPU only (4 cores): 3.28 Frames/sec
CPU only (5 cores): 3.87 Frames/sec
CPU only (6 cores): 4.24 Frames/sec
CPU only (7 cores): 4.46 Frames/sec
CPU only (8 cores): 4.54 Frames/sec
CPU only (9 cores): 4.57 Frames/sec
CPU only (10 cores): 4.59 Frames/sec
CPU only (11 cores): 4.63 Frames/sec
CPU only (12 cores): 4.6 Frames/sec
GPU only (AMD Radeon RX 5600 XT): 8.1 Frames/sec
CPU (2 cores) and GPU (AMD Radeon RX 5600 XT): 5.5 Frames/sec
CPU (3 cores) and GPU (AMD Radeon RX 5600 XT): 5.98 Frames/sec
CPU (4 cores) and GPU (AMD Radeon RX 5600 XT): 7.13 Frames/sec
CPU (5 cores) and GPU (AMD Radeon RX 5600 XT): 7.26 Frames/sec
CPU (6 cores) and GPU (AMD Radeon RX 5600 XT): 7.31 Frames/sec
CPU (7 cores) and GPU (AMD Radeon RX 5600 XT): 7.27 Frames/sec
CPU (8 cores) and GPU (AMD Radeon RX 5600 XT): 7.25 Frames/sec
CPU (9 cores) and GPU (AMD Radeon RX 5600 XT): 8.13 Frames/sec
CPU (10 cores) and GPU (AMD Radeon RX 5600 XT): 9.79 Frames/sec
CPU (11 cores) and GPU (AMD Radeon RX 5600 XT): 8.18 Frames/sec
CPU (12 cores) and GPU (AMD Radeon RX 5600 XT): 7.45 Frames/sec

Best combination: CPU (11 cores) and GPU (AMD Radeon RX 5600 XT): 9.79 Frames/sec
```

Beitrag von „CMMChris“ vom 18. Januar 2024, 15:51

Normal

Code

1. GPU 1: Apple M3 Max (Metal): 49152 MB total (49152 MB currently available), using up to 100%
- 2.
3. CPU only (1 core): 4.18 frames/sec
4. CPU only (2 cores): 8.67 frames/sec
5. CPU only (3 cores): 11.6 frames/sec
6. CPU only (4 cores): 15.7 frames/sec
7. CPU only (5 cores): 18.9 frames/sec
8. CPU only (6 cores): 21.7 frames/sec
9. CPU only (7 cores): 25.2 frames/sec
10. CPU only (8 cores): 28.1 frames/sec
11. CPU only (9 cores): 30.6 frames/sec
12. CPU only (10 cores): 33.4 frames/sec
13. CPU only (11 cores): 35.7 frames/sec
14. CPU only (12 cores): 37.6 frames/sec
15. CPU only (13 cores): 38.6 frames/sec
16. CPU only (14 cores): 39.3 frames/sec
17. CPU only (15 cores): 40.1 frames/sec
18. CPU only (16 cores): 40.3 frames/sec
19. GPU only (Apple M3 Max): 35.8 frames/sec
20. CPU (2 cores) and GPU (Apple M3 Max): 23.3 frames/sec
21. CPU (3 cores) and GPU (Apple M3 Max): 29.7 frames/sec
22. CPU (4 cores) and GPU (Apple M3 Max): 34.4 frames/sec
23. CPU (5 cores) and GPU (Apple M3 Max): 35.5 frames/sec
24. CPU (6 cores) and GPU (Apple M3 Max): 38.3 frames/sec
25. CPU (7 cores) and GPU (Apple M3 Max): 37.2 frames/sec
26. CPU (8 cores) and GPU (Apple M3 Max): 41.7 frames/sec
27. CPU (9 cores) and GPU (Apple M3 Max): 41.5 frames/sec
28. CPU (10 cores) and GPU (Apple M3 Max): 44.2 frames/sec
29. CPU (11 cores) and GPU (Apple M3 Max): 51.2 frames/sec
30. CPU (12 cores) and GPU (Apple M3 Max): 50.6 frames/sec
31. CPU (13 cores) and GPU (Apple M3 Max): 51.9 frames/sec
32. CPU (14 cores) and GPU (Apple M3 Max): 51.2 frames/sec
33. CPU (15 cores) and GPU (Apple M3 Max): 48.9 frames/sec
34. CPU (16 cores) and GPU (Apple M3 Max): 51.3 frames/sec

35.

36. Best combination: CPU (13 cores) and GPU (Apple M3 Max): 51.9 frames/sec

Alles anzeigen

High Quality Mode

Code

1. CPU Model: Apple M3 Max cpufamily 72015832 (Mac15,9)
2. GPU 1: Apple M3 Max (Metal): 49152 MB total (49152 MB currently available), using up to 100%
- 3.
4. CPU only (1 core): 0.925 frames/sec
5. CPU only (2 cores): 1.81 frames/sec
6. CPU only (3 cores): 2.49 frames/sec
7. CPU only (4 cores): 3.31 frames/sec
8. CPU only (5 cores): 4.02 frames/sec
9. CPU only (6 cores): 4.77 frames/sec
10. CPU only (7 cores): 5.54 frames/sec
11. CPU only (8 cores): 6.26 frames/sec
12. CPU only (9 cores): 6.93 frames/sec
13. CPU only (10 cores): 7.6 frames/sec
14. CPU only (11 cores): 8.22 frames/sec
15. CPU only (12 cores): 8.89 frames/sec
16. CPU only (13 cores): 9.09 frames/sec
17. CPU only (14 cores): 9.41 frames/sec
18. CPU only (15 cores): 9.69 frames/sec
19. CPU only (16 cores): 9.94 frames/sec
20. GPU only (Apple M3 Max): 11.3 frames/sec
21. CPU (2 cores) and GPU (Apple M3 Max): 6.45 frames/sec
22. CPU (3 cores) and GPU (Apple M3 Max): 8.61 frames/sec
23. CPU (4 cores) and GPU (Apple M3 Max): 8.93 frames/sec
24. CPU (5 cores) and GPU (Apple M3 Max): 9.05 frames/sec
25. CPU (6 cores) and GPU (Apple M3 Max): 10.9 frames/sec
26. CPU (7 cores) and GPU (Apple M3 Max): 10.6 frames/sec
27. CPU (8 cores) and GPU (Apple M3 Max): 10.8 frames/sec
28. CPU (9 cores) and GPU (Apple M3 Max): 11.2 frames/sec
29. CPU (10 cores) and GPU (Apple M3 Max): 12.6 frames/sec
30. CPU (11 cores) and GPU (Apple M3 Max): 12.7 frames/sec
31. CPU (12 cores) and GPU (Apple M3 Max): 13.5 frames/sec
32. CPU (13 cores) and GPU (Apple M3 Max): 13.3 frames/sec
33. CPU (14 cores) and GPU (Apple M3 Max): 13.9 frames/sec

34. CPU (15 cores) and GPU (Apple M3 Max): 14.1 frames/sec
35. CPU (16 cores) and GPU (Apple M3 Max): 15.7 frames/sec
- 36.
37. Best combination: CPU (16 cores) and GPU (Apple M3 Max): 15.7 frames/sec

Alles anzeigen

Beitrag von „jan2000“ vom 21. Januar 2024, 11:15

Da ist noch Luft nach oben für die M's. Aber wie immer, die Relation Leistung/Verbrauch sind sicherlich topp. Wenn man allerdings mal "schnell" 1000 Shots eines Spielfilms denoisen möchte, dann zählen eben doch die FPS 🤔

Beitrag von „CMMChris“ vom 21. Januar 2024, 14:04

Das mit der Luft nach oben wird auch immer so bleiben, da bin ich mir sehr sicher. Der SoC Ansatz hat halt auch einfach gewisse Limitationen.

Trotzdem ist die Performance affig, wenn man bedenkt, dass man es hier mit einem Laptop zu tun hat. Die Leistungsaufnahme lag im Schnitt bei 80 Watt bei CPU + GPU Rendering mit einem ganz kurzen Peak von 114 Watt.