# Benchmarks

Benchmarks mit John the Ripper und Hashcat

# John Benchmark - Yoga C940 (docker)

```
┌──(root💀kali-docker)-[~]
└─# date
Fri Jan 13 00:02:13 UTC 2023

┌──(root💀kali-docker)-[~]
└─# john --format=descrypt --test
Will run 8 OpenMP threads
Benchmarking: descrypt, traditional crypt(3) [DES 512/512 AVX512F]... (8xOMP) DONE
Many salts:     40798K c/s real, 5577K c/s virtual
Only one salt:  22370K c/s real, 3035K c/s virtual


┌──(root💀kali-docker)-[~]
└─# john --format=LM --test
Will run 8 OpenMP threads
Benchmarking: LM [DES 512/512 AVX512F]... (8xOMP) DONE
Raw:     52490K c/s real, 6975K c/s virtual


┌──(root💀kali-docker)-[~]
└─# john --format=NT --test
Benchmarking: NT [MD4 512/512 AVX512BW 16x3]... DONE
Raw:     58049K c/s real, 58341K c/s virtual
```

# John Benchmark - Hetzner AX41 (docker)



```
┌──(root㉿kali-docker)-[~]
└─# date
Fri Jan 13 00:18:59 UTC 2023

┌──(root㉿kali-docker)-[~]
└─# john --format=descrypt --test
Will run 12 OpenMP threads
Benchmarking: descrypt, traditional crypt(3) [DES 256/256 AVX2]... (12xOMP) DONE
Many salts:      102445K c/s real, 8537K c/s virtual
Only one salt:   47812K c/s real, 3991K c/s virtual


┌──(root㉿kali-docker)-[~]
└─# john --format=LM --test
Will run 12 OpenMP threads
Benchmarking: LM [DES 256/256 AVX2]... (12xOMP) DONE
Raw:      85979K c/s real, 7197K c/s virtual


┌──(root㉿kali-docker)-[~]
└─# john --format=NT --test
Benchmarking: NT [MD4 256/256 AVX2 8x3]... DONE
Raw:      73254K c/s real, 73254K c/s virtual
```

```
$ hashcat -b -m 1500 -w 3
  Hashtype: descrypt, DES (Unix)
  Speed.Dev.#3.....: 786.8 MH/s

$ hashcat -b -m 3000 -w 3
  Hashtype: LM
  Speed.Dev.#3.....: 19241.4 MH/s

$ hashcat -b -m 1000 -w 3
  Hashtype: NTLM
  Speed.Dev.#3.....: 35765.0 MH/s
```

Mit hashcat 6.x
im September
2019 getestet

```
$ hashcat -b -m 1600 -w 3
  Hashtype: Apache $apr1$ MD5, md5apr1, MD5 (APR)
  Speed.Dev.#3.....:          9808.9 kH/s

$ hashcat -b -m 8900 -w 3
  Hashtype: scrypt
  Speed.Dev.#3.....: 857.6 kH/s

$ hashcat -b -m 3200 -w 3
  Hashtype: bcrypt $2*$, Blowfish (Unix)
  Speed.Dev.#3.....: 10260 H/s
```

**Mit hashcat 6.x im September 2019 getestet**

**hashcat**
@hashcat

hand-tuned hashcat 6.0.0 beta and 2080Ti (stock clocks)
breaks NTLM cracking speed mark of 100GH/s on a
single compute device

102,8 Milliarden Hashe/Sek.
Tweet vom Februar 2019

```
C:\Windows\System32\cmd.exe                                    —   □   ×

d:\tools\hashcat-6.0.0>hashcat64 -b -m 1000 -u 1024 -n 512 --opencl-vector-width 8 --force -O

OpenCL Platform #1: NVIDIA Corporation
======================================
* Device #1: GeForce RTX 2080 Ti, 2816/11264 MB allocatable, 68MCU

Benchmark relevant options:
===========================
* --force
* --optimized-kernel-enable
* --opencl-vector-width=8
* --kernel-accel=512

Hashmode: 1000 - NTLM

Speed.#1.........:    102.8 GH/s (10.48ms) @ Accel:512 Loops:1024 Thr:32 Vec:8

Started: Wed Feb 13 22:57:19 2019
Stopped: Wed Feb 13 22:57:26 2019

d:\tools\hashcat-6.0.0>_
```

**Chick3nman** 🔒
@Chick3nman512

First @hashcat benchmarks on the new @nvidia RTX 4090! Coming in at an insane >2x uplift over the 3090 for nearly every algorithm. Easily capable of setting records: 300GH/s NTLM and 200kh/s bcrypt w/ OC! Thanks to blazer for the run. Full benchmarks here: gist.github.com/Chick3nman/32e...

Tweet übersetzen

```
hashcat (v6.2.6) starting in benchmark mode

CUDA API (CUDA 11.8)
====================
* Device #1: NVIDIA GeForce RTX 4090, 20155/24563 MB, 128MCU

OpenCL API (OpenCL 3.0 CUDA 11.8.87) - Platform #1 [NVIDIA Corporation]
=====================================================================
* Device #2: NVIDIA GeForce RTX 4090, skipped

Benchmark relevant options:
===========================
* --benchmark-all
* --optimized-kernel-enable

-----------------------
* Hash-Mode 1000 (NTLM)
-----------------------

ALT d.#1.........:    288.5 GH/s (7.24ms) @ Accel:512 Loops:1024 Thr:32 Vec:8
```

2:08 vorm. · 14. Okt. 2022

> **288,5 Milliarden Hashe/Sek.**
> **Tweet vom Oktober 2022**

```
-----------------------
* Hash-Mode 1000 (NTLM)
-----------------------

Speed.#1.........:    288.5 GH/s (7.24ms)
```

Mehr Benchmarks:
https://t.co/Bftucib7P9

# Anmerkungen oder Fragen?