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How To Use hashcat On CPU Only

By Scott Miller | 2017/01/31

9 Comments



No fancy GPU? No problem. One can use hashcat on a CPU only. Here is a quick how-to for Debian Linux and an Intel CPU!

1. First, download the latest version of hashcat from: https://hashcat.net/hashcat/

Run hashcat with **tack capital I** to show detected opencl devices.

In this example, hashcat sees a GPU, but no CPU. :/

```
$ ./hashcat64.bin -I
hashcat (v3.30) starting...
```

```
OpenCL Info:
 Platform ID #1
   Vendor : NVIDIA Corporation
   Name : NVIDIA CUDA
   Version: OpenCL 1.2 CUDA 8.0.0
   Device ID #1
     Type
                   : GPU
     Vendor ID : 32
     Vendor : NVIDIA Corporation
                   : GeForce GTX 970
     Name
     Version : OpenCL 1.2 CUDA
     Processor(s) : 13
     Clock : 1342
     Memory : 1009/4036 MB allocatable
     OpenCL Version: OpenCL C 1.2
     Driver Version: 375.26
For Intel CPU support, one must install OpenCL Drivers from intel.com (and not from distro
repositories as beignet).
Debian Linux quick how-to:
2. Remove any beignet drivers, should any be present:
 sudo apt remove --purge beignet*
3. Install lsb-compat to make the installer happy with Debian:
 sudo apt install lsb-compat
```

4. Download latest OpenCL Drivers and Runtimes for CPU:

https://software.intel.com/en-us/articles/opencl-drivers#latest_CPU_runtime

Latest release (16.1.1) – at time of writing

For Debian, select 'OpenCL™ Runtime 16.1.1 for Intel® Core™ and Intel® Xeon® Processors for Ubuntu* (64-bit)'

Extract the download, then run the installer via: sudo ./install.sh

A graphical installer will walk through installing the software to /opt/intel/

Now hashcat will detect and use your CPU!

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Processor(s): 13 Clock: 1342

Memory : 1009/4036 MB allocatable

OpenCL Version : OpenCL C 1.2

Driver Version: 375.26

Platform ID #2 Vendor : Intel(R) Corporation Name : Intel(R) OpenCL Version: OpenCL 1.2 LINUX Device ID #2 Type : CPU Vendor ID : 8 : Intel(R) Corporation Vendor : Intel(R) Core(TM) i5-4590 CPU @ 3.30GHz Name Version : OpenCL 1.2 (Build 25) Processor(s) : 4

Clock : 3300

Memory : 2047/32122 MB allocatable

OpenCL Version: OpenCL C 1.2 Driver Version: 1.2.0.25

Rock on,

Category: linux Tags: cpu, crack passwords, cracking passwords, debian, gpu, hashcat, intel, No Open CL compatible devices found, password cracking

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