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# IGHASHGPU GPU Based Hash Crack

## //TOP\\ing SHA1, MD5 MD4



secondly, hash-based algorithms are able to produce hash values that are different for the same set of data, even when the data has not changed. this means that hashes can be generated that appear to be a valid cryptographic hash value, but are not valid. in this scenario, the only way to detect this is to attempt to generate the hash value, and if it matches the data then the data is protected by hash-based cryptography. igex is a software suite to crack hashes such as md5, sha1, sha256, sha384, sha512, and ripemd160. it is inspired by the gpu-based hash cracking project of kevthehermit, which is the most efficient gpu-based hash cracker, particularly for sha1. the gpu-based hash cracker is optimised for the most efficient cracking, with a focus on gpu efficiency. igex is optimised for the most efficient gpu-based hash cracking (particularly for sha1) on any platform. igex includes a cracker that takes advantage of gpu resources in modern graphics cards. igex provides gpu-based cracking of sha1, md4, md5, sha256, sha384, sha512, and ripemd160 hashes. igex provides the most efficient gpu-based cracking of sha1, as well as the most efficient gpu-based cracking of md5, md4, sha256, sha384, sha512, and ripemd160

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hashes. igex uses the gpu to accelerate cracking of hashes because the gpu is significantly more efficient at cracking hashes than the cpu, and because the gpu is significantly more efficient than the cpu for the more complex hashes like sha256, sha384, sha512, and ripemd160. the current version of igex is 0.9.0. igex includes an installer that will install the latest version of igex for you. the installer will also install the igex command line utility (ig\_hash\_gpu) and any dependencies. igex is written in c++.

## **IGHASHGPU GPU Based Hash Cracking SHA1, MD5 MD4**

Looking at the very first screenshot below, you can see all the hashes.

SHA1 and MD5 is the first layer of hashes and GPU seems to be performing well. The numbers after the SHA1 and MD5 hashes are time-stamps. So we can see that to crack all hashes we should be able to complete it in less than 3 hours. Let's go ahead and crack those hashes, we are using the fastest GPU for now, the very first one to test. Lets get cracking. As you can see in the second screenshot, by adding the third GPU, we achieved a total hash rate of around 50000 hashes per second. With the fourth GPU, it hit it's all time limit of more than 20 minutes per hash. This means we have been able to crack approx. 8000 of them. So with that in mind, we can conclude that GPU is the best way to crack hashes. As GPUs become more powerful, the level of difficulty will increase. This means that you are best advised to find a compromise between the speed and the difficulty. GPU are expensive but if you had no other option, GPU will help you finish your task. On this note I have an attempt to estimate the password for all passwords in a RAR file. The application has been installed on a test PC (i7, 3.3 GHz, 8 GB) and the workbench has been configured to use 8 cores of the CPU and 4 of the GPU. Rar.exe was executed with the following switches (skipping the encryption and password-protected checks): -z -p -m 0 -q 0 -N -a -z SHA1 \$SOURCE \$DESTINATION You can

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try it for yourself, for instance, there are about 200,000 passwords in a compressed file aac.rar which was created using 7zip. I used V-Ray to render the scene. I believe it would be more efficient on the CPU, given that most of the CPU is idle as the application is sitting in read mode. 5ec8ef588b

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