Elcomsoft Distributed Password Recovery 4.0 with Automatic Dictionary Distribution and Intel GPU Acceleration

Moscow, Russia – August 14, 2018 - ElcomSoft Co. Ltd. updates Distributed Password Recovery with major performance boost on NVIDIA video cards and graphic cores built into Intel CPUs, nearly doubling the recovery speed on many configurations. The tool adds automatic distribution of custom dictionaries across running agents, and adds support for several new data formats and encryption algorithms.

"This is a major upgrade", says Vladimir Katalov, ElcomSoft CEO. "We've nearly doubled the performance on many configurations, and squeezed that last bit of performance out of existing hardware. We listened to our customers and added things they asked for and fixed things they complained about. We're truly proud of this release as this is the best version of Distributed Password Recovery so far."
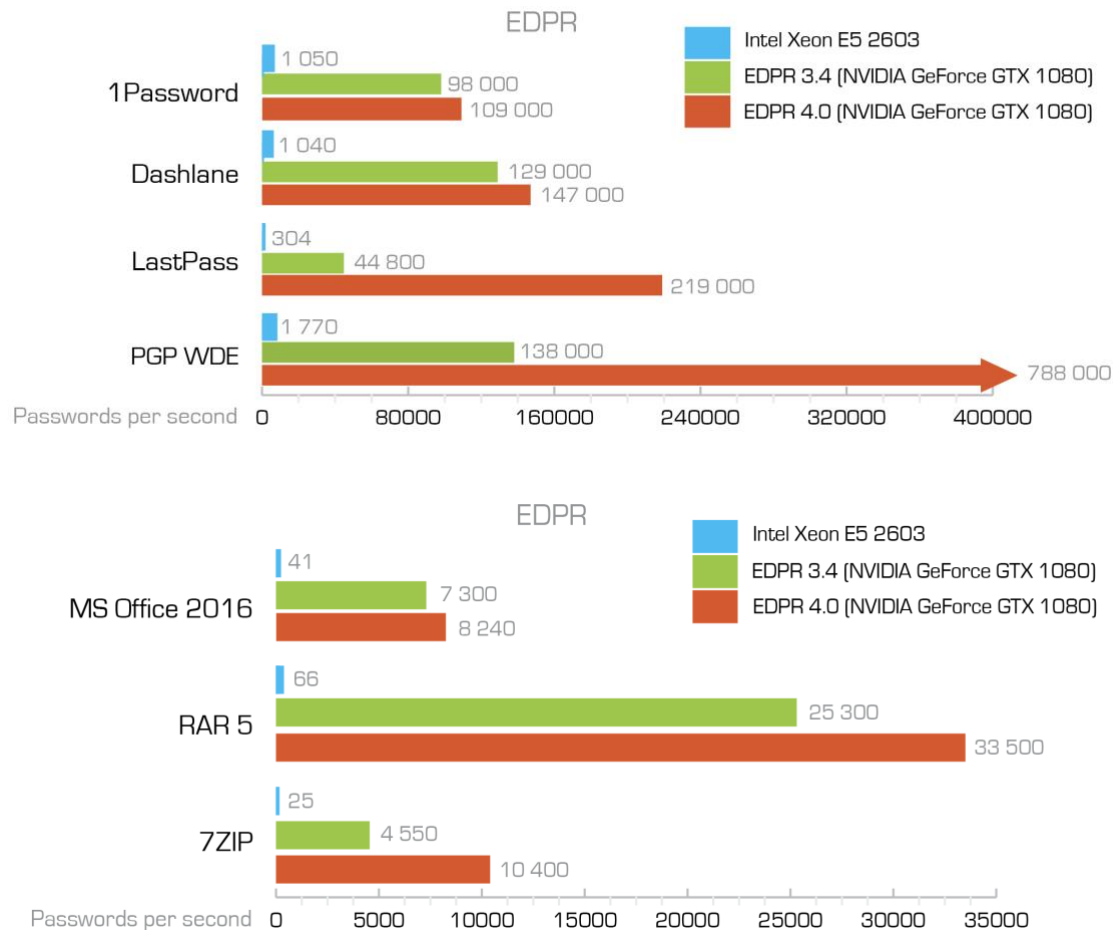
Doubling the Performance with Intel Built-In Graphics

Elcomsoft Distributed Password Recovery was one of the first password recovery tools on the market to make use of the powerful GPU cores found in consumer-grade video cards. Using a single NVIDIA 1080 board allows boosting recovery speeds 50 to 100 times compared to a CPU alone.

Before this day, GPU acceleration was only available on systems equipped with dedicated video cards. Meanwhile, GPU cores shipping with Intel's last-generation processors started offering performance that is more than just reasonable.

Elcomsoft Distributed Password Recovery 4.0 unleashes the additional processing power available in Intel's last-generation CPUs by utilizing Intel HD Graphics, UHD Graphics and Intel Iris GPU cores. This additional processing power comes free of charge in computers relying on built-in graphics as opposed to using a dedicated video card. By utilizing Intel's built-in GPU cores for accelerating password recovery, users without dedicated video cards will receive double or triple the performance compared to using general CPU cores alone.

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NVIDIA Users Get a Performance Boost

Users whose computers are equipped with a dedicated NVIDIA video card are expected to see performance improvements of up to 100% compared to earlier versions of Elcomsoft Distributed Password Recovery. The extra performance comes from a number of low-level internal optimizations and code migration to the latest version of CUDA 9. This allowed squeezing that last bit of performance out of NVIDIA GTX 1080 and other 1000-series NVIDIA boards, with many attacks getting nearly double the performance over the previous version.

EDPR

	Intel Xeon E5 2603	EDPR 3.4 (NVIDIA GeForce GTX 1080)	EDPR 4.0 (NVIDIA GeForce GTX 1080)
1Password	1 050	98 000	109 000
Dashlane	1 040	129 000	147 000
LastPass	304	44 800	219 000
PGP WDE	1 770	138 000	788 000

Passwords per second

EDPR

	Intel Xeon E5 2603	EDPR 3.4 (NVIDIA GeForce GTX 1080)	EDPR 4.0 (NVIDIA GeForce GTX 1080)
MS Office 2016	41	7 300	8 240
RAR 5	66	25 300	33 500
7ZIP	25	4 550	10 400

Passwords per second

Finally, EDPR 4.0 adds support NVIDIA's latest technology, the NVIDIA Volta, enabling the use of the mighty Titan V, Tesla V100 and future boards based on the new architecture.

Automatic Deployment of Custom Dictionaries

Dictionary attacks often allow breaking a password in almost no time compared to brute-forcing all possible combinations of characters. A high-quality custom dictionary comprised of the user's existing passwords (extracted with Elcomsoft Internet Password Breaker or similar tools) may reveal passwords that would be otherwise unbreakable.

Elcomsoft Distributed Password Recovery has always been shipped with dictionaries of common words. These dictionaries were preinstalled with the software and available to remotely installed clients. The new release makes using those custom dictionaries easier by enabling automatic distribution and synchronization of such dictionaries across agents in local area network as well as those connected over the Internet. The automatic distribution makes it possible to quickly deploy highly targeted dictionaries for each individual job remotely without having to access each individual workstation.

About Elcomsoft Distributed Password Recovery

Elcomsoft Distributed Password Recovery is a one-stop forensic solution to helping investigators access protected data and extract critical evidence in the shortest timeframe possible. The product enables hardware-accelerated password recovery for over a hundred data formats including Microsoft Office documents, Adobe PDF, PGP disks and archives, personal security certificates and exchange keys, MD5 hashes and Oracle passwords, Windows and UNIX login and domain passwords. Supporting ElcomSoft's patent-pending GPU acceleration technology and being able to scale to over 10,000 workstations with zero scalability overhead, Elcomsoft Distributed Password Recovery is a high-end password recovery solution offering the speediest recovery with the most sophisticated commercially available technologies.

Pricing and Availability

Elcomsoft Distributed Password Recovery is available immediately. Licensing starts from 599 EUR for 5 clients. A license for 100 clients is available for 4999 EUR. Other tiers are available on request. Customers are welcome to contact ElcomSoft about larger purchases. Local pricing may vary. An additional licensing option is now available for smaller networks. The affordable option covers concurrent GPU-accelerated distributive recovery on up to 5 computers. Even this minimal 5-PC license supports up to 8 GPU cores, offering a maximum computational power of 40 GPU cores per license. Elcomsoft Distributed Password Recovery supports Windows 7, 8.x, 10, as well as the corresponding versions of Windows Server.

About ElcomSoft Co. Ltd.

Founded in 1990, ElcomSoft Co.Ltd. is a global industry-acknowledged expert in computer and mobile forensics providing tools, training, and consulting services to law enforcement, forensics, financial and intelligence agencies. ElcomSoft pioneered and patented numerous cryptography techniques, setting and exceeding expectations by consistently breaking the industry's performance records. ElcomSoft is Microsoft Certified Partner (Gold competency), and Intel Software Premier Elite Partner.