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In this work we introduce DMA malware, i.e., malware executed on dedicated hardware to launch stealthy attacks against the host using DMA. DMA malware goes beyond the capability to control DMA hardware. We implemented DAGGER, a keylogger that attacks Linux and Windows platforms. Our evaluation confirms that DMA malware can efficiently attack kernel structures even if memory address randomization is in place. DMA malware is stealthy to a point where the host cannot detect its presense.

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DMA malware is stealthy to a point where the host cannot detect its presense. We evaluate and discuss possible countermeasures and the (in)effectiveness of hardware extensions such as input/output memory management units. Keywords: Dedicated Hardware, Direct Memory Access, I/OMMU, Keylogger, Malware, Manageability Engine, Rootkit, Stealth, vPro, x86 1

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Since DMA usage is a key property of malware executed in isolated hardware (see Figure 1), we call this DMA malware. The execution environment of DMA malware is unaccessible from the host platform’s CPU. Anti-virus software therefore is unable to detect and disable it. To the best of our knowl-edge no previous work has presented mechanisms to detect

Poster: Towards detecting DMA malware

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the DMA based malware scenario that is the focus of this thesis: Beyond Secure Channels, Yacine Gasmi, Ahmad-Reza Sadeghi, Patrick Stewin, Martin Unger, N. Asokan, STC2007 Proceedings of the 2007 ACM Workshop on Scalable Trusted Computing, 2007 ([see52]) An E cient Implementation of Trusted Channels based on OpenSSL, Fred-

Detecting Peripheral-based Attacks on the Host Memory

Stewin took a piece of DMA malware called DAGGER (which SC Magazine says was created by Stewin and another security researcher) and inserted it into a PC. Then Stewin used BARM to

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Patrick Stewin's proof of concept demonstrated that a detector could be built to find the sophisticated malware that ran on dedicated devices and attacked direct memory access (DMA). The attacks launched by the malware dubbed DAGGER targeted host runtime memory using DMA provided to hardware devices.

Malware that attacks DMA and hides in peripherals
Malware writers constantly seek new methods to increase the infection lifetime of their malicious software. To that end, techniques such as code unpacking and polymorphism have become the norm for hindering automated or manual malware analysis and evading virus scanners. In this paper, we demonstrate how malware can take advantage of the ubiquitous and powerful graphics processing unit (GPU ...

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This work addresses stealthy peripheral-based attacks on host computers and presents a new approach to detecting them. Peripherals can be regarded as separate systems that have a dedicated processor and dedicated runtime memory to handle their tasks. The book addresses the problem that peripherals generally communicate with the host via the hosts main memory, storing cryptographic keys ...

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