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Trust In Modern

Computers Author

Bryan Parno Aug

2011

Computers

Author

Bryan Parno

Aug 2011

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bryan parno aug

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Although the recent "Trusted Computing" initiative has drawn both positive and negative attention to this area, we consider the older and broader topic of bootstrapping trust in a computer. We cover issues ranging from the wide collection of secure hardware that can serve as a foundation

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for trust, to the usability issues that arise when trying to convey computer state information to humans.

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Bootstrapping Trust in Modern Computers.

Trusting a computer for a security-sensitive task (such as checking email or banking online) requires the

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user to know something about the computer's state. We examine research on securely capturing a computer's state, and consider the utility of this information both for improving security on the local computer (e.g., to convince the user that her computer is not infected with malware) and for communicating a remote computer's state (e.g., to ...

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**Bootstrapping Trust
in Modern
Computers -**

Microsoft Research

2 Bootstrapping Trust
in Modern Computers
to climb, CPU vendors
are increasingly willing
to provide hardware
support for se-cure
systems (see, for
example, Intel and
AMD's support for
virtualization [3,93],
and Intel's new AES
instructions, which

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provide greater
efficiency and resistance
to side-channel attacks
[81]).

Bootstrapping Trust in Modern Computers

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Bootstrapping Trust in
Modern Computers
(SpringerBriefs in
Computer Science)

eBook: Parno, Bryan,
McCune, Jonathan M.,
Perrig, Adrian, McCune,
Jonathan M. ...

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Bootstrapping Trust in
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[Bryan Parno; Jonathan
M McCune; Adrian
Perrig;] -- Trusting a
computer for a security-
sensitive task (such as
checking email or
banking online)
requires the user to
know something about
the computer's state.

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**Bootstrapping Trust
in Modern
Computers (eBook,
2011 ...**

Trusting a computer for a security-sensitive task (such as banking online) requires the user to know something about the computer's state. This title covers issues ranging from a collection of secure hardware that can serve as a foundation

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Bootstrapping trust in modern computers (Book, 2011 ...

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**Bootstrapping Trust
in Modern**

**Computers |
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Although the recent "Trusted Computing" initiative has drawn both positive and negative attention to this area, we consider the older and broader topic of bootstrapping trust in a computer. We cover issues ranging from the wide collection of secure hardware that can serve as a foundation for trust, to the usability issues that arise when trying to

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2014

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2011
nveycomputerstateinfo
rmationtohumans.
Thisapproachunifies
disparate research
efforts and highlights
opportunities for
additional

Bootstrapping Trust in Commodity Computers

Bootstrapping Trust in
a “Trusted” Platform.

Bryan Parno Carnegie
Mellon University.

Abstract. For the last
few years, many

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2011

commodity computers have come equipped with a Trusted Platform Module (TPM). Existing research shows that the TPM can be used to establish trust in the software executing on a computer.

Bootstrapping Trust in a “Trusted” Platform

Although the recent “Trusted Computing” initiative has drawn

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Erwan Farno Aug

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One way to bootstrap trust in a computer is to use secure hardware mechanisms to monitor and report on the software state of the platform. Given the software state, the user (or an agent acting on the user's behalf) can decide whether the platform should be trusted. Due to cost

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Bootstrapping Trust in a ``Trusted'' Platform

He coauthored a book on Bootstrapping Trust in Modern Computers, and his work in that area has been incorporated into the latest security enhancements in Intel CPUs. His research into security for new

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Windows and received

a Best Paper Awards at

the IEEE Symposium on

Security and Privacy

and the USENIX

Symposium on

Networked Systems

Design and

Implementation.

EECS Special

Seminar: Bryan

Parno "Fully Verified

...

Abstract. In this book,

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2014

we organize and clarify extensive research on bootstrapping trust in commodity systems.

We identify inconsistencies (e.g., in the types of attacks considered by various forms of secure and trusted boot), and commonalities (e.g., all existing attempts to capture dynamic system properties still rely in some sense on static, load-time guarantees) in

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Summary |

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With Bryan Parno and Jon McCune, Perrig published the introductory book "Bootstrapping Trust in Modern Computers". Starting in 2003, his group proposed software-based attestation, also known as time-based attestation, a

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mechanism for
performing attestation

without special
hardware support.

2011

Adrian Perrig -

Wikipedia

Background and
Related Work in Trust
Establishment

Bootstrapping Trust in
a Commodity

Computer On-Demand
Secure Code Execution
on Commodity

Computers Using
Trustworthy Host-

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Based Information in
the Network Verifiable

Computing: Secure

Code Execution

Despite Untrusted

Software and Hardware

Conclusion

Bibliography

**Trust Extension as a
Mechanism for
Secure Code
Execution ...**

He coauthored a book
on Bootstrapping Trust
in Modern Computers,
and his work in that

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Symposium on
Networked Systems

Design and
Implementation.

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Electrical and
Computer
Engineering ...**

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