COSTLY ATTEMPTS STILL NO SOLUTION

**LOSSES**
$2.7 billion loss per day from cyberattacks
*Cybersecurity Ventures, 2017*

**INVESTMENTS**
VC investments $4.0 billion per year in cybersecurity software
*CBINSIGHT, 2017*

**BUDGETS**
U.S. Government $19B cybersecurity budget
*Statista, 2017*

J.P. Morgan Chase & Co doubled its annual cybersecurity budget to $500 million (excluding $9.5B capital expenditure)
*CNBC, 2016*

FOR YET ANOTHER SECURITY PATCH
We estimate that it would take Intel at least 5 years to fundamentally change their x86 architecture, and after this, operating system and hypervisor companies will have to go through a similar effort to support the change.
Meltdown & Spectre

Major architectural flaws reported in January 2018

Across families of processors

LEGACY OPERATING SYSTEM

Are 8 new 'Spectre-class' flaws in Intel CPUs about to be exposed? -ZDNet, 5/4/18

Tech Firms Coordinate Disclosure of New Meltdown, Spectre Flaws – Security Week, 5/22/18

Demands a more comprehensive solution
AXIADO SOLUTION

New security paradigm
ARCHITECTED FOR SECURITY & EFFICIENCY

- 4x security enhanced RISC-V cores
- Integrated cryptographic engine
- Integrated AI Engine
- Secured boot
- Secured VMs
- Automated breach heuristics update across all Axiado-based systems
- OS: FreeBSD
- Compatibility with existing open source SW development, applications, and HW environments
  - TensorFlow
  - Caffe2
  - Open CL, CV, SL, VPN

“Axiado's Cyber Security Processor is the most secure chip, device, system and concept I have ever seen.”

U.S. Military Commander of Offensive and Defensive Cyber Warfare
PRODUCTS

Cyber Security System (processor + OS)
- General-Purpose Multi-Core Processor with integral AI and Crypto Accelerators
- Operating System
- Hypervisor
- APIs
- JAVA Compiler

Cyber Security Router
(Initial Market Entry)
- Cyber Security Processor (on the left)
- pfSense (security modifications)
BLOCK INTRUSIONS

Intrusion Points

Existing Server

Intrusion Points

Existing Router

Cyber Security Router

Perimeter secured

INTERNET

1st point of intrusion

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