

# Re: (Score:2) by Nite\_Hawk (1304) Terribly sorry to hear about your situation. I hope things improve! FWIW, I think it's helpful to look at these issues

• **Re: (Score:2)** 

by AHuxley (892839)

(and really the the world in general) as a system of probabilities. Even absent these vulnerabilities your system is quite likely vulnerable to some other attack vector (as is mine, and as is basically every computer on the planet). It's just a question of how difficult is it to exploit and how likely is it that someone is going to do so.

Buy an older computer and find a supported OS for it.

## It's just a question of how difficult is it to exploit as If you are truly worried that your government mig

are already hosed.

Quick! Everyone panic! (Score:2, Interesting)
 by GerryGilmore (663905)
 IMNSHO, the whole realm of Spectre/Meltdown vulnerabilities - while an interesting lab experiment - are complete horseshit. Consider:

2) Given the enormous realms of malware extant than can much more quickly and easily grab your data (Hello, Equifax!), any true hacker would laugh at trying to use these vulnerabilities, because...

1) In order for ANY of these vulnerabilities to be useful, you MUST be running malware on your system. If so, you

3) The idea that malware can tickle the cache m
 6 hidden comments
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Re:Quick! Everyone panic! (Score:5, Insightful)

Homepage Journal
IMNSHO, the whole realm of Spectre/Meltdown vulnerabilities - while an interesting lab experiment - are complete horseshit.
Intel apologists are equally irrational to YHWH apologists.

by <u>drinkypoo</u> (153816) < <u>martin.espinoza@gmail.com</u> > on Saturday August 11, 2018 @07:24PM (#57109100)

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In order for ANY of these vulnerabilities to be useful, you MUST be running malware on your system. If so, you are
  already hosed.
 Javascript. Malware hidden in software. Virtualization. These are all real-world scenarios which affect basically
  everyone.
  Given the enormous realms of malware extant than can much more quickly and easily grab your data (Hello,
  Equifax!), any true hacker would laugh at trying to use these vulnerabilities, because...
 You're already vulnerable to shooting, so why worry about stabbing?
 The idea that malware can tickle the cache millions of times to grab data (presuming it has not already been
 flushed), interpret said data and then prey that it is something useful, like passwords, when cache is normally
 filled with instructions more than data...
  ...has been demonstrated. Millions of times, so what? My computer does millions of things thousands of times per
  second.
 Any of you who are now delaying purchases, etc. while you twist your hanky are doing the rest of us a favor by
 forcing prices down, so - Keep It Up!!
 I'm not delaying purchases. I'm just happy I'm not using Intel, which is not only vulnerable to MELTDOWN, but is
 more vulnerable to SPECTRE-type attacks than my AMD CPU.
   Reply to This
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Re: (Score:2)
 by GerryGilmore (663905)
  "Intel apologists are equally irrational to YHWH apologists."
  Considering that these vulnerabilities also (largely) apply to AMD and ARM, your cheap-shot snark is duly noted
  and ignored for the shit it is.
  "Javascript. Malware hidden in software. Virtualization. These are all real-world scenarios which affect basically
  everyone."
 Lots of word salad with no proof. Yawn...
```

#### ■ Re:Quick! Everyone panic! (Score:4, Informative) by <u>drinkypoo (153816)</u> < <u>martin.espinoza@gmail.com</u> > on Saturday August 11, 2018 @08:32PM (#57109378)

"You're already vulnerable to shooting, so why worry about stabbing?"

That's a really stupid analogy, but let's pursue it for the fuck of it.

Homepage Journal Considering that these vulnerabilities also (largely) apply to AMD and ARM, your cheap-shot snark is duly noted and ignored for the shit it is.

Mitigation is cheaper on AMD, because they at least tried to do the right thing. And they only tend to be a problem for 64-bit ARM. The biggest failures here are Intel and IBM. Lots of word salad with no proof. Yawn... There's no proof that those are real-world scenarios?

Javascript is on your system. Malware hidden in applications is real, and on people's systems. The rest of your statements are equally delusional and devoid of rationality, so... ...they're totally rational and you couldn't find any good arguments against them, either, so you just gave up.

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I can much more easily defend against a stabbing, because they need to be at very close range. (i.e. On your

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**■ Re:** (Score:2) by <u>ArylAkamov</u> ( 4036877 )

fucking system) whereas a bullet can travel over a mile and kill you.

#### "Mitigation is cheaper on AMD, because they at least tried to do the right thing. And they only tend to be a problem for 64-bit ARM. The biggest failures here are Intel and IBM."

**■ Re:** (Score:1)

One damn good post.

by GerryGilmore (663905)

Noted.

"There's no proof that those are real-world scenarios?"

"Javascript is on your system. Malware hidden in applications is real, and on people's systems." Wait a minute! Th

Nope, none outside of lab conditions. Show me otherwise....I'm waiting....

2 hidden comments

OK, so everyone replace all of your Intel, 32-bit ARM and IBM CPUs immediately, because...

by Anonymous Coward

are already hosed.

• 1 hidden comment

• **Re:** (Score:1)

hacked...

### • Re: (Score:2, Informative)

by Anonymous Coward

1. The family of Spectre vulnerabilities are exploitable from javascript. 2. Yes, there is much malware, that doesn't make Spectre and meltdown attacks any less viable/devastating.

It sounds like you haven't read the details of these attack vectors.

3. Statistical attacks have been used for a long time. Computers are great at performing them, because, yes, they are computers. Side channels don't need much bandwidth to steal critical information, like sav. a users password

or bank account details. These att

1) In order for ANY of these vulnerabilities to be useful, you MUST be running malware on your system. If so, you

Javascript is sufficient for many of these timing based attacks, even if it slows things down a little more. Proof of

reasonably spend on a page. I hope you're running NoScript and none of the sites you grant exceptions to ever get

principle code already exists and show it can read quite a bit of browser memory in the time a person would

2 hidden comments

I thought the same thing, more or less, based on my understanding of basically how the low-level attack works. As

it turns out, I was wrong. They have figured out how to use a "no big deal" issue to build an important and

1 hidden comment

FFS!!

by raymorris (2726007)

#### powerful attack around it. I got lost in the details and "couldn't see the forest for the trees", so to speak. Others have pointed out "maleware running" could be JavaScript. Not even that is necessary, though - even sending specially crafted TCP packets to the target can do the trick! Goog

That's what I thought too but no. That's all wrong (Score:2)

• **Re:** (Score:1) by GerryGilmore (663905) Well, when google is your technical authority, it's understandable that you'd be dead wrong...."even sending specially crafted TCP packets to the target can do the trick! Google Netspectre for details." IF you actually READ TFA, you'll see that it REQUIRES a "gadget" (read: malware code) running on your fucking

machine!! (I swear, the tech level on /. has descended to fucking Alex Jones level of paranoia - facts be damned!!)

 Gadgets are vulnerable OS components (Score:3) by raymorris (2726007) The term "gadget", in this context, means vulnerable code, preferably OS code, an especially kernel code. That's pre-existing code, part of the OS, that's vulnerable.

Gadget does NOT mean malware.

**■ Re: (Score:1)** by GerryGilmore (663905) "For Netspectre, an interesting gadget is a network card driver that is vulnerable." OK, show me one. Or, to be more exact (and I have written device drivers, BTW) show me a vulnerability worth its

name that relies on ONE specific flaw in ONE specific NIC device driver, given the wide range of NIC drivers. Sheesh! The lengths you guys will go to to defend the indefensible. (Indefensible, in this case, that the whole realm

if (x array1 size)

y = array2[array1[x] \* 4096];

Can you spot the problem?

by <u>raymorris</u> (2726007)

of SM panic is manifested by this weakest of arguments....) • 1 hidden comment

makes it even more interesting to use against chosen HTTPS sites to retrieve the private key.

For Netspectre, an interesting gadget is a network card driver that is vulnerable.

 Here are a couple of example gadgets. Bounds check (Score:2) by <u>raymorris</u> (2726007) Here a couple of examples of Spectre gadgets. Suppose we have this code making sure the input doesn't try to access beyond the end of an array:

Or maybe this code you might find in a firewall such as iptables. It checks to make sure the protocol of the packet

if (packet.ethertype = maxtype) { CurrentProt = EtherTypes[packet.ethertype];

is either TCP, udp, icmp, or another valid protocol:

1 hidden comment ■ The current network based has an important limit (Score:2)

by <u>raymorris</u> (2726007) The current network based variant has an important limitation in regards exfiltration rate. Based on past vulnerabilities and exploits, we can guesstimate that new developments might make it roughly 10X faster. That

Nobody uses Intel gigabit NIC, right? (Score:2)

The JavaScript based ones aren't currently the easiest way to build a botnet, but deploying such JavaScript on a site frequented by Lockheed Martin employees, or bank employees, could be really interesti

Here's the code for the driver uses with Intel network gigabit network cards. Hardly anyone ever uses that, right? Only people with Intel motherboards or Intel network cards, and other companies network cards that use the Intel chip. https://github.com/torvalds/li... [github.com] I see a couple hundred if statements in there. Maybe 20% of those will serve as a gadget. I bet you can find three

or four bounds checks. In my other reply I showed you how to use a bounds check as a Spectre gadget.

• She wrote upon it (Score:5) by TeknoHog (164938) on Saturday August 11, 2018 @07:08PM (#57109040) Homepage Journal

return to Spectre

address stack blown

go side channel

no safe zone

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Burma-Shave THis goes back (Score:2)

Well all of this goes back to what I have said to everyone I know, "Do nothing important in a WEB Browser". Which I get "It is safe and easy I do it all the time.

The way things are going lynx is looking pretty good :)

At least paying for a stamp to mail in a bill payment buys you protection that is lacking in WEB based tools. If your mail is tampered with, it is a crime. Granted the Gov my take a peek, but better than someone trying to drain your

• 1 hidden comment **Re:** (Score:2)

by <u>HiThere</u> ( 15173 )

vou forgot the ending... (Score:2)

by <u>Gravis Zero</u> (934156)

by <u>imccue</u> (834797)

accounts.

Well, it may not necessarily be safer, but I believe that at least it blocks attacks depending on Javascript.

• <u>Re:</u> (<u>Score:2</u>)

by <u>drinkypoo</u> (153816) Granted the Gov my take a peek, but better than someone trying to drain your accounts. The CA FTB decided I owed them money (I didn't) and drained my bank account. I filed for the back taxes and naturally I haven't heard from them since. They stole my money and I will never see it again. Assuming the government isn't going to steal from you is ridiculous.

**Re:** (Score:2) by Nivag064 ( 904744 ) What is the CA FTB?

Caribbean Associated Flying Transport Board??? • 1 hidden comment

#### • <u>It's too late</u> (<u>Score:2</u>) by <u>AndyKron</u> (937105)

Maybe it's too late. There was a chance back with the DOS, but not now. Computers are great but people are shit

#### • by the time researchers find all the flaws in CPUs (Score:2) by FudRucker (866063)

the only safe computers will be the ones completely disconnected from the internet, kept locked in a secure room where only authorized personnel are allowed to enter, i think its time for a completely new architecture built with security in mind from the ground up and the same goes for the software, no back doors, no remote code allowed to execute unless it is sandboxed and unable to touch the system • 2 hidden comments

#### by mentil (1748130) Manufacturers were notified of the weaknesses in May 2018 and were granted 90 days to remedy them before the

• 90 Days for Your New Chip (Score:2)

• Stallman the Seer? (Score:1)

by Gerald Butler (3528265)

results were published.

90 days may be the standard for Responsible Disclosure, but that's only reasonable for issuing a software patch. Intel doesn't issue new silicon to everyone affected within 90 days, it can take over a year before the next chips are available, and those might've had their design locked down well beyond that.

Richard Stallman clearly predicted this: <a href="https://en.wikipedia.org/wiki/...">https://en.wikipedia.org/wiki/...</a> [wikipedia.org]

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