

by Taboola

without any code change whatsoever, at the time this new exploit is invented? 1 hidden comment **■ Re:** (Score:2) by <u>Junta</u> ( 36770 ) The same can be said of functional bugs, they are buggy, but you don't know it until discovered. The discovery of the bug does not mean the code changed, it means that bug hadn't been caught yet. So yes, a system that is vulnerable to an as-yet unknown attack is buggy.

## **Re:** (Score:2)

by ranton (36917)

I disagree that you can view lack of security as a bug. Using your example, lets say a novel way to attack databases developed in 2018. Lets call it relationship mutations. Today we have no idea how it works and how to defend against it, because it isn't invented yet. Are all databases released today buggy as a result? Do they become buggy, without any code change whatsoever, at the time this new exploit is invented? I am not sure why you don't consider that a bug. If a new way of attacking any SQL command was discovered tomorrow, that would simply mean that 100% of existing SQL commands have a bug in them. It was a previously

undiscovered bug, but a bug which needs to be fixed none the less. Perhaps the bug is in the SQL syntax or ODBC interface, but it is still a bug in need of fixing.

#### **■ Re:** (Score:2) by ShanghaiBill (739463)

I am assuming Torvalds considers not building security into a system is a bug.

by <u>Dog-Cow</u> (21281) on Monday November 20, 2017 @10:38AM (#55587131)

By that measure, the code with the most bugs is the program that hasn't been written yet.

#### • Security problems are NOT just bugs (Score:2) by <u>sinij</u> (911942)

He is demonstrably wrong. True, some security problems are bugs, but there are also security problems that are

bad design choices, that are misconfigurations, that are counting use of old technology (e.g. RSA 1024), that are poor use cases (nobody follows policy, because it is too complex and/or convoluted). You can't secure systems with just code reviews and patching. No way, no how. 1 hidden comment • Re:Security problems are NOT just bugs (Score:4, Informative)

sequiturs. Reply to This Parent <u>Share</u>

Linus's context is entirely in terms of the kernel. If you ignore that, you write comments that are complete non-

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• <u>Re:</u> (<u>Score:2</u>)

he said they were "primarily" bugs. By "problem", I would guess he is talking about issues in properly set up software.

by <u>burhop</u> ( 2883223 )

• **Re:** (Score:1) by Anonymous Coward He is demonstrably wrong. True, some security problems are bugs, but there are also security problems that are

bad design choices, that are misconfigurations, that are counting use of old technology (e.g. RSA 1024), that are

You are right about there being other issues in practice but you might argue better without using a strawman.

poor use cases (nobody follows policy, because it is too complex and/or convoluted). You can't secure systems with just code reviews and patching. No way, no how. Considering that he is a kernel maintainer and that his was responding to a guy trying to push code into the kernel, it is pretty clear that he was talking about kernel code. So he is demonstrably right, if you understand that

he is talking about the kernel code.

#### • <u>Re:</u> (<u>Score:3</u>) by ranton (36917)

He is demonstrably wrong. True, some security problems are bugs, but there are also security problems that are bad design choices, that are misconfigurations, that are counting use of old technology (e.g. RSA 1024), that are poor use cases (nobody follows policy, because it is too complex and/or convoluted). You can't secure systems with just code reviews and patching. No way, no how. A software bug is an error, flaw, failure or fault in a computer program or system that causes it to produce an

incorrect or unexpected result, or to behave in unintended ways. [wikipedia.org] You may disagree with this definition of a software bug from Wikipedia, but I think it lines up with what I consider a bug. The bad design choices you mention are merely another potential cause of a bug. The context of Linus's statements must also be considered. He is talking about product level security (Linux kernal in this case),

#### • **Re:** (Score:1) by <u>Nutria</u> (679911)

Bad design choices

Like choosing to use insecure-by-design languages. The vast majority of security bugs would disappear if languages like Ada, PL/1, FORTRAN and COBOL were used

instead.

### • <u>Re:</u> (<u>Score:2</u>)

by mean pun (717227)

He is demonstrably wrong. True, some security problems are bugs, but there are also security problems that are bad design choices, that are misconfigurations, that are counting use of old technology (e.g. RSA 1024), that are poor use cases (nobody follows policy, because it is too complex and/or convoluted). You can't secure systems with just code reviews and patching. No way, no how. You are completely missing Linus' point. He is saying in the context of kernel development that security issues

don't get privileged treatment. There is one set of rules for all issues, be they outright bugs, bad design choices in any aspect, misconfiguration in any aspect, etc.

## **Re:** (Score:1)

by NicknameUnavailable (4134147) Bad development choices and programs which are able to be misconfigured are bugs. Examples of this are choices

not to use https for a login page - it's a bug in the implementation, or a config file which allows you to forgo a certification+keypair - which implies the underlying program lacks the means to prevent you from running it with that setting in place or is too lazy to generate some on the fly as needed. All security holes are bugs, they mostly revolve around imparting some degree of trust to the e

## • <u>Re:</u> (<u>Score:1</u>)

by TexasDiaz (4256139)

True, but I can think of many developers who build in security problems due to ineptitude. Ignorance is not an excuse.

## **■ Re:** (**Score:1**)

by NicknameUnavailable (4134147)

True, but I can think of many developers who build in security problems due to ineptitude. Ignorance is not an excuse.

Ineptitude is a bug. The resolution just involves a hammer to the face instead of an IDE.

#### • Bug or feature? (Score:2) by BKDotCom ( 542787 )

The alternative would be "features"

• <u>Re:</u> (<u>Score:2</u>)

#### by <u>Junta</u> ( 36770 ) The question was \*how\* equifax was hacked. Was it through a measure that this would have prevented? Probably

not, it was probably much more mundane. The patch may be a nice improvement and ultimately a good idea, but it's a hardening improvement, not a fix for a

specific vulnearabilty, so caution must be taken. You can't just invoke the 'security' card as a 'nothing else matters' when dealing with adding security features. Security vulnerablities are urgent, security mitigation features are important, but

## • Linus is mostly right (Score:2)

by gweihir (88907)

At least when you take into account that people should design security in today. So from the coding angle, pretty much "just bugs". From the testing angle often vastly different, as in functionality testing you check for the presence of functionality, but in security testing you check for the absence of functionality. Individual tests are still pretty similar, but getting test-coverage is very different and a lot more difficult.

Of course, the "just bugs" view also requires that the developers actually under

#### • **Re:** (Score:2) by DontBeAMoran (4843879)

We will NEVER, EVER have 100% of all developers understand security at the level required to make 100% secure programs. What we need is OS and languages that have security built-in, the same way programmers don't know assembly

and UEFI and yet can still code and make programs.

## • **Re:** (Score:1)

by NicknameUnavailable (4134147) Linus is usually right, it's just he says the right thing in the way which makes him sound like the largest asshole

possible. Personally I find it refreshing.

• <u>Re:</u> (<u>Score:3</u>) by <u>Junta</u> (36770)

Torvalds point is that it can wait, and that it can be phased in. The proposal is a hardening scheme and there's a long history of hardening schemes breaking valid usage inadvertently. Torvalds perspective is that it can be done carefully, it's a nice to have, but it's not going to save the world and it's not so terrible for it to wait a little while to make sure it is right. The patch submitter said that he d

The patch submitter agreed with him, don't know why everyone is jumping to white knight for him.

#### • Assuming he has a clear requirement for security (Score:2) by Chrisq (894406)

Assuming he has a requirement for security then of course he's right

by mspohr (589790)

• Doesn't matter (Score:2)

# by SCVonSteroids (2816091)

You can word it the way you want. If it's not secure, it's not secure.

## https://www.theregister.co.uk/... [theregister.co.uk]

• Here's a more complete discussion of the issue. (Score:2)

• <u>Didn't Linus approve this?</u> (Score:2) by <u>Hrrrq</u> (565259)

I thought that Linus personally approves all the changes to the kernel. So didn't he approve the changes he is complaining about?

• <u>I agree... with certain assumed contexts</u> (Score:2)

by <u>adosch</u> (1397357)

I couldn't agree more with Linus. It's not like we know each other or have Thanksgiving together; he's right in his own non-PC way. As long as we're talking about a bug not being: 1) maliciously intended code or put there 'on purpose', 2) functionality or operability that falls into as not-as-advertised, or blatantly didn't follow an RFP or standard or 3) hell, stuff that was just overlooked, seemingly over/under-engineered or ego-over-good-code. ...I'm sure there's a few more mental dice-up catalogs to

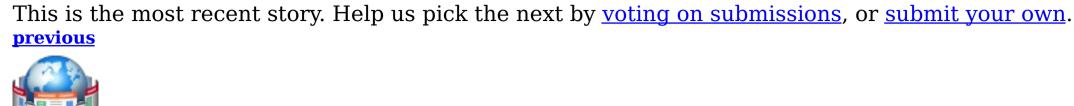
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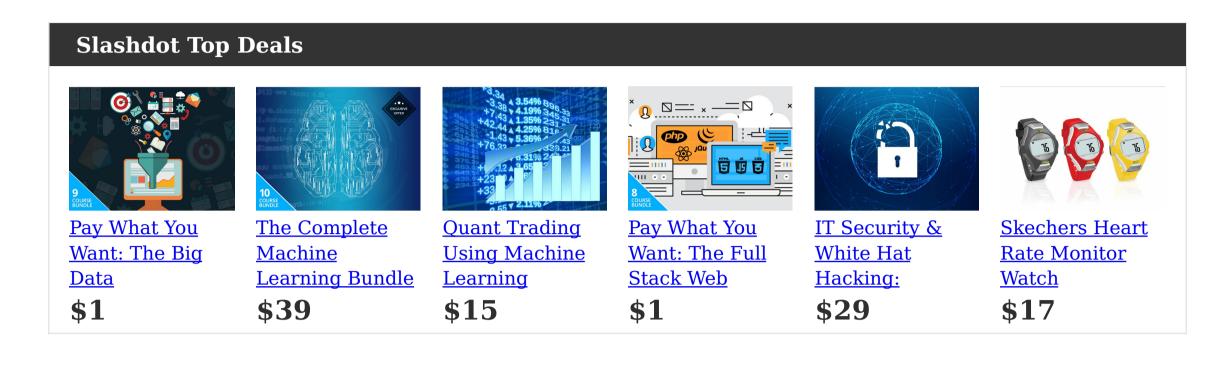


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