



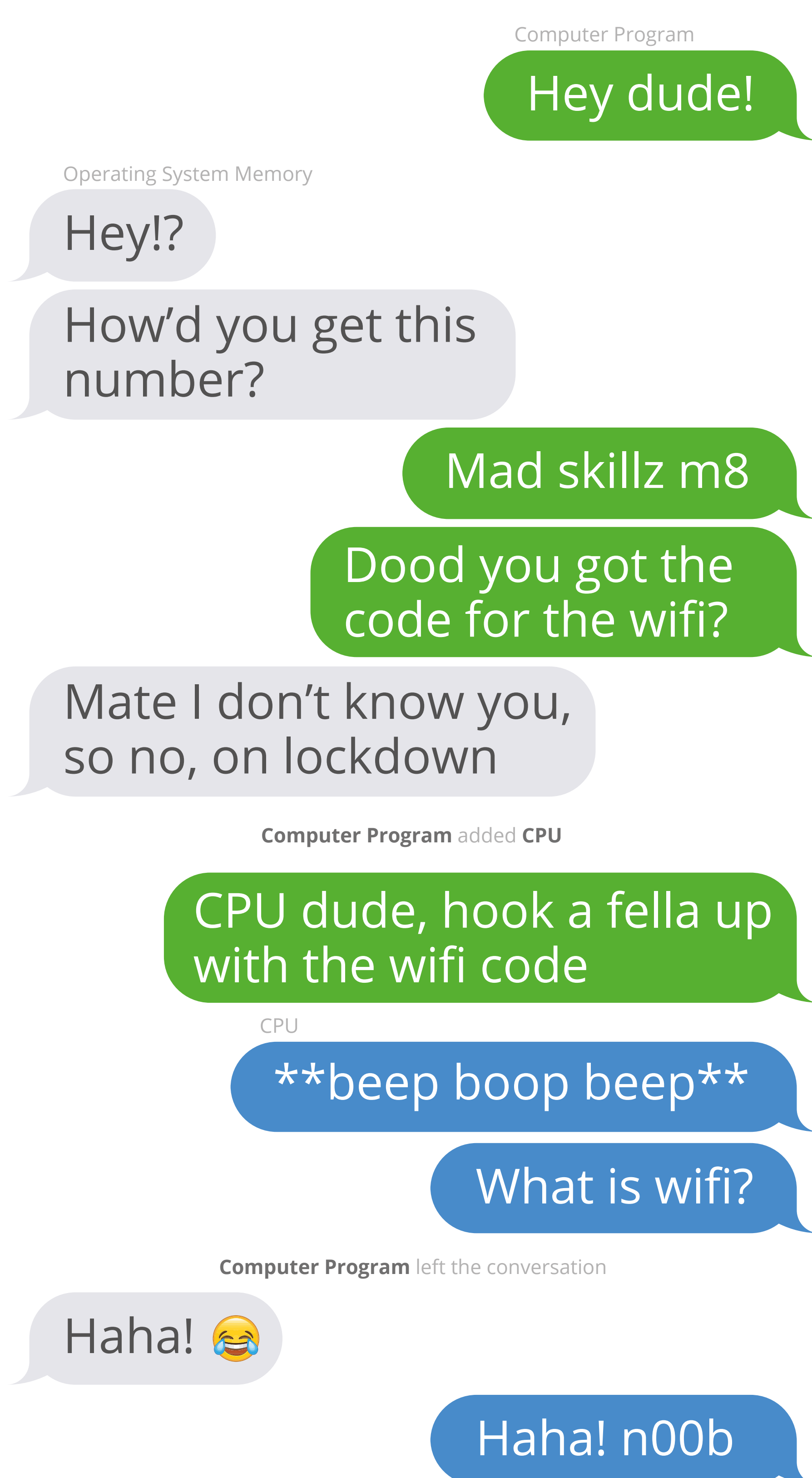
What is the Meltdown bug?

The Meltdown bug looks to gain access to where all your Wifi keys, passwords and other information is stored. These are kept under lock and key by the operating system. However during **speculative execution**, the CPU may cache some data and you can measure if something is there or not. If the CPU has the Meltdown bug then it can be forced to push usually protected data into the cache.

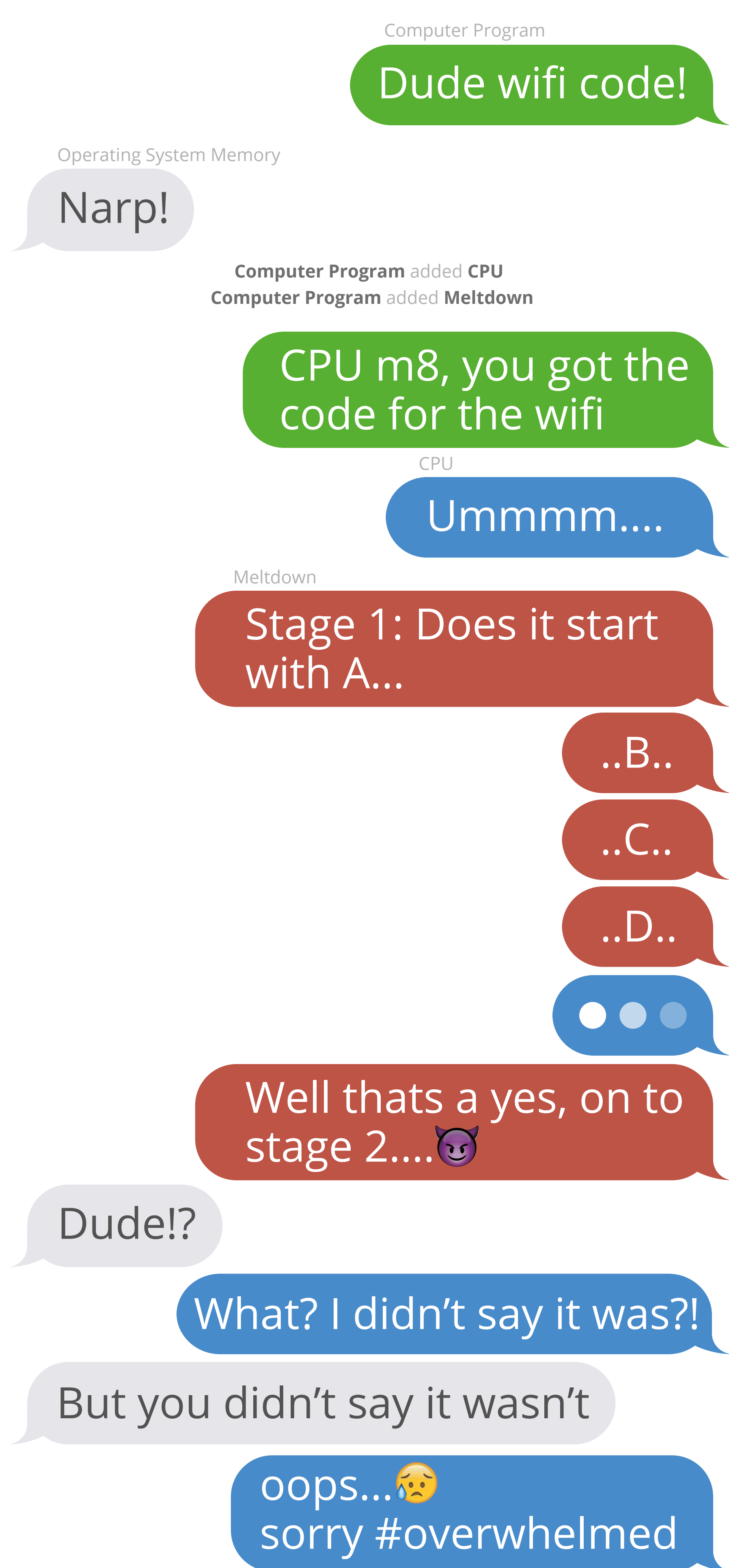
Multiple CPU architectures are vulnerable to Meltdown, including Apple, ARM and Intel.



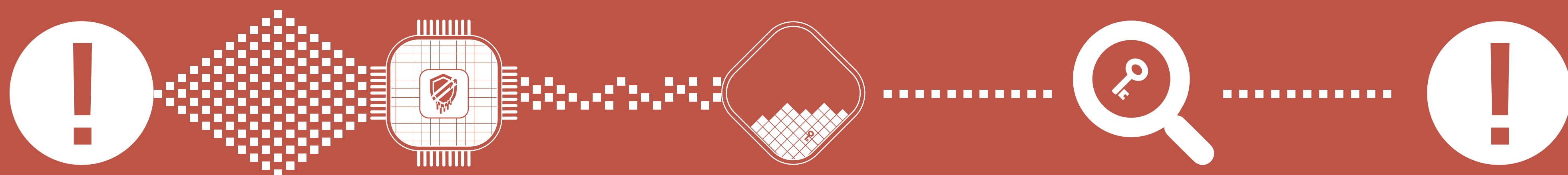
Here's how a conversation should look between a computer program and the OS memory



A conversation between a computer program and OS memory if the CPU has the Meltdown bug



Another way of looking at this is, that by bombarding the CPU, it gets too busy to think regularly so it has to push things to cache to make thinking room. While cached, this information could be open to interrogation from malicious sources via a side channel.

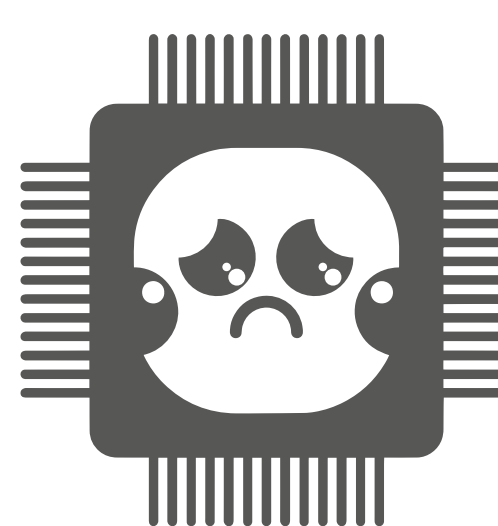
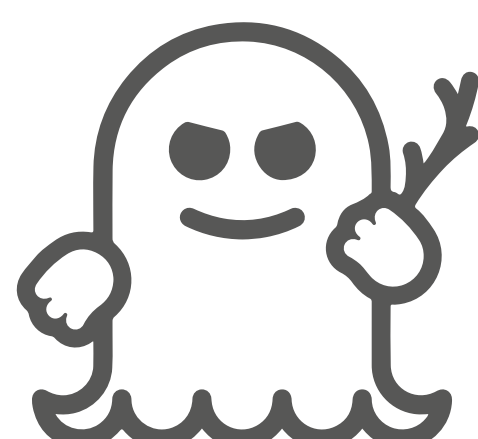


Help is at hand

Patches are available to fix your devices, visit: <https://xtravirt.com/cybersecurity/#spectre-meltdown> to see the latest news and trusted patches for Meltdown and Spectre



What is the Spectre bug?



5 things you should know about Speculative Execution