

# Performance Impact of Serious CPU Defects

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[Hardware](#) [2] [Security](#) [3]

- [Spectre/Meltdown/L1TF/MDS Mitigation Costs On An Intel Dual Core + HT Laptop](#)[4]

Following the recent desktop CPU benchmarks and server CPU benchmarks following the MDS/Zombieload mitigations coming to light and looking at the overall performance cost to mitigating these current CPU vulnerabilities, there was some speculation by some in the community that the older dual-core CPUs with Hyper Threading would be particularly hard hit. Here are some benchmarks of a Lenovo ThinkPad with Core i7 Broadwell CPU looking at those mitigation costs.

- [Fending off Zombieload attacks will crush your performance](#) [5]

- [List of MDS Speculative Execution Vulnerability Advisories & Updates](#) [6]

**Links:**

- [1] <http://www.tuxmachines.org/taxonomy/term/148>
- [2] <http://www.tuxmachines.org/taxonomy/term/39>
- [3] <http://www.tuxmachines.org/taxonomy/term/59>
- [4] [https://www.phoronix.com/scan.php?page=news\\_item&px=Spec-Melt-L1TF-MDS-Laptop-Run](https://www.phoronix.com/scan.php?page=news_item&px=Spec-Melt-L1TF-MDS-Laptop-Run)
- [5] <https://www.zdnet.com/article/fending-off-zombieload-attacks-will-crush-your-performance/>
- [6] <https://www.bleepingcomputer.com/news/security/list-of-mds-speculative-execution-vulnerability-advisories-and-updates/>