# CVE-2020-13844

MITRE | NVD | CVE.ORG | Print: PDF

## Summary

| | |
|---|---|
| **CVE** | CVE-2020-13844 |
| **State** | PUBLIC |
| **Assigner** | cve@mitre.org |
| **Source Priority** | CVE Program / NVD first with legacy fallback |
| **Published** | 2020-06-08 23:15:00 UTC |
| **Updated** | 2022-04-28 19:30:00 UTC |
| **Description** | Arm Armv8-A core implementations utilizing speculative execution past unconditional changes in control flow may allow una |

## Risk And Classification

**Problem Types:** CWE-203

## NVD Known Affected Configurations (CPE 2.3)

| Type | Vendor | Product | Version | Update | Edition | Language |
|---|---|---|---|---|---|---|
| Hardware | Arm | Cortex-a32 | - | All | All | All |
| Hardware | Arm | Cortex-a32 | - | All | All | All |
| Operating System | Arm | Cortex-a32 Firmware | - | All | All | All |
| Operating System | Arm | Cortex-a32 Firmware | - | All | All | All |
| Hardware | Arm | Cortex-a34 | - | All | All | All |
| Hardware | Arm | Cortex-a34 | - | All | All | All |
| Operating System | Arm | Cortex-a34 Firmware | - | All | All | All |
| Operating System | Arm | Cortex-a34 Firmware | - | All | All | All |
| Hardware | Arm | Cortex-a35 | - | All | All | All |
| Hardware | Arm | Cortex-a35 | - | All | All | All |
| Operating System | Arm | Cortex-a35 Firmware | - | All | All | All |
| Operating System | Arm | Cortex-a35 Firmware | - | All | All | All |
| Hardware | Arm | Cortex-a53 | - | All | All | All |
| Hardware | Arm | Cortex-a53 | - | All | All | All |
| Operating System | Arm | Cortex-a53 Firmware | - | All | All | All |
| Operating System | Arm | Cortex-a53 Firmware | - | All | All | All |
| Hardware | Arm | Cortex-a57 | - | All | All | All |

| | | | | | | |
|---|---|---|---|---|---|---|
| Hardware | Arm | Cortex-a57 | - | All | All | All |
| Operating System | Arm | Cortex-a57 Firmware | - | All | All | All |
| Operating System | Arm | Cortex-a57 Firmware | - | All | All | All |
| Hardware | Arm | Cortex-a72 | - | All | All | All |
| Hardware | Arm | Cortex-a72 | - | All | All | All |
| Operating System | Arm | Cortex-a72 Firmware | - | All | All | All |
| Operating System | Arm | Cortex-a72 Firmware | - | All | All | All |
| Hardware | Arm | Cortex-a73 | - | All | All | All |
| Hardware | Arm | Cortex-a73 | - | All | All | All |
| Operating System | Arm | Cortex-a73 Firmware | - | All | All | All |
| Operating System | Arm | Cortex-a73 Firmware | - | All | All | All |
| Operating System | Opensuse | Leap | 15.1 | All | All | All |
| Operating System | Opensuse | Leap | 15.2 | All | All | All |

## References

| Reference | Source | Link | Tags |
|---|---|---|---|
| [llvm-dev] Mitigating straight-line speculation vulnerability CVE-2020-13844 | CONFIRM | lists.llvm.org | Mailing List, Third P |
| Straight Line Speculation (SLS) mitigation. | CONFIRM | gcc.gnu.org | Patch, Third Party A |
| [security-announce] openSUSE-SU-2020:1692-1: moderate: Security update f | SUSE | lists.opensuse.org | |
| developer.arm.com/support/arm-security-updates/speculative-processor-vulnerabil... | MISC | developer.arm.com | Vendor Advisory |
| Speculative Processor Vulnerability \| Frequently asked questions – Arm Developer | CONFIRM | developer.arm.com | Vendor Advisory |
| Speculative Processor Vulnerability – Arm Developer | CONFIRM | developer.arm.com | Vendor Advisory |
| [security-announce] openSUSE-SU-2020:1693-1: moderate: Security update f | SUSE | lists.opensuse.org | |
| CVE Program record | CVE.ORG | www.cve.org | canonical |
| NVD vulnerability detail | NVD | nvd.nist.gov | canonical, analysis |

No vendor comments have been submitted for this CVE.

## Legacy QID Mappings

610406 Google Pixel Android April 2022 Security Patch Missing

750477 OpenSUSE Security Update for gcc7 (openSUSE-SU-2020:2300-1)

750478 OpenSUSE Security Update for gcc7 (openSUSE-SU-2020:2301-1)

755898 SUSE Enterprise Linux Security Update for gcc7 (SUSE-SU-2023:3662-1)