CVE-2022-23960

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Summary

CVE	CVE-2022-23960
State	PUBLIC
Assigner	cve@mitre.org
Source Priority	CVE Program / NVD first with legacy fallback
Published	2022-03-13 00:15:00 UTC
Updated	2023-01-20 02:34:00 UTC
Description	Certain Arm Cortex and Neoverse processors through 2022-03-08 do not properly restrict cache speculation, aka Spectre-B

Risk And Classification

Problem Types: NVD-CWE-noinfo

NVD Known Affected Configurations (CPE 2.3)

Type	Vendor	Product	Version	Update	Edition	Language
Hardware	Arm	Cortex-a57	-	All	All	All
Operating System	Arm	Cortex-a57 Firmware	-	All	All	All
Hardware	Arm	Cortex-a65	-	All	All	All
Hardware	Arm	Cortex-a65ae	-	All	All	All
Operating System	Arm	Cortex-a65ae Firmware	-	All	All	All
Operating System	Arm	Cortex-a65 Firmware	-	All	All	All
Hardware	Arm	Cortex-a710	-	All	All	All
Operating System	Arm	Cortex-a710 Firmware	-	All	All	All
Hardware	Arm	Cortex-a72	-	All	All	All
Operating System	Arm	Cortex-a72 Firmware	-	All	All	All
Hardware	Arm	Cortex-a73	-	All	All	All
Operating System	Arm	Cortex-a73 Firmware	-	All	All	All
Hardware	Arm	Cortex-a75	-	All	All	All
Operating System	Arm	Cortex-a75 Firmware	-	All	All	All
Hardware	Arm	Cortex-a76	-	All	All	All
Hardware	Arm	Cortex-a76ae	-	All	All	All
Operating System	Arm	Cortex-a76ae Firmware	-	All	All	All

Operating System	Arm	Cortex-a76 Firmware	-	All	All	All
Hardware	Arm	Cortex-a77	-	All	All	All
Operating System	Arm	Cortex-a77 Firmware	-	All	All	All
Hardware	Arm	Cortex-a78	-	All	All	All
Hardware	Arm	Cortex-a78ae	-	All	All	All
Operating System	Arm	Cortex-a78ae Firmware	-	All	All	All
Operating System	Arm	Cortex-a78 Firmware	-	All	All	All
Hardware	Arm	Cortex-r7	-	All	All	All
Operating System	Arm	Cortex-r7 Firmware	-	All	All	All
Hardware	Arm	Cortex-r8	-	All	All	All
Operating System	Arm	Cortex-r8 Firmware	-	All	All	All
Hardware	Arm	Cortex-x1	-	All	All	All
Operating System	Arm	Cortex-x1 Firmware	-	All	All	All
Hardware	Arm	Cortex-x2	-	All	All	All
Operating System	Arm	Cortex-x2 Firmware	-	All	All	All
Hardware	Arm	Neoverse-e1	-	All	All	All
Operating System	Arm	Neoverse-e1 Firmware	-	All	All	All
Hardware	Arm	Neoverse-v1	-	All	All	All
Operating System	Arm	Neoverse-v1 Firmware	-	All	All	All
Hardware	Arm	Neoverse N1	-	All	All	All
Operating System	Arm	Neoverse N1 Firmware	-	All	All	All
Hardware	Arm	Neoverse N2	-	All	All	All
Operating System	Arm	Neoverse N2 Firmware	-	All	All	All
Operating System	Debian	Debian Linux	10.0	All	All	All
Operating System	Debian	Debian Linux	9.0	All	All	All
Operating System	Xen	Xen	-	All	All	All

References

Reference	Source	Link	Tags
Arm Security Center	MISC	developer.arm.com	
Debian -- Security Information -- DSA-5173-1 linux	DEBIAN	www.debian.org	
oss-security - Xen Security Advisory 398 v2 - Multiple speculative security issues	MLIST	www.openwall.com	
[SECURITY] [DLA 3065-1] linux security update	MLIST	lists.debian.org	
Speculative Processor Vulnerability – Arm Developer	CONFIRM	developer.arm.com	
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

- 159727 Oracle Enterprise Linux Security Update for unbreakable enterprise kernel-container (ELSA-2022-9245)
- 159729 Oracle Enterprise Linux Security Update for unbreakable enterprise kernel (ELSA-2022-9244)
- 159754 Oracle Enterprise Linux Security Update for unbreakable enterprise kernel-container (ELSA-2022-9274)
- 159755 Oracle Enterprise Linux Security Update for unbreakable enterprise kernel (ELSA-2022-9273)
- 160210 Oracle Enterprise Linux Security Update for kernel (ELSA-2022-7683)
- 179221 Debian Security Update for linux (CVE-2022-23960)
- 180282 Debian Security Update for linux (DLA 3065-1)
- 180605 Debian Security Update for linux (DSA 5173-1)
- 198694 Ubuntu Security Notification for Linux kernel Vulnerabilities (USN-5317-1)
- 198695 Ubuntu Security Notification for Linux kernel Vulnerabilities (USN-5318-1)
- 198728 Ubuntu Security Notification for Linux kernel (Intel IOTG) Vulnerabilities (USN-5362-1)
- 240817 Red Hat Update for kernel security (RHSA-2022:7683)
- 242941 Red Hat Update for kernel (RHSA-2024:0930)
- 354279 Amazon Linux Security Advisory for kernel : ALAS2022-2022-039
- 354468 Amazon Linux Security Advisory for kernel : ALAS2022-2022-185
- 354542 Amazon Linux Security Advisory for kernel : ALAS-2022-185
- 355199 Amazon Linux Security Advisory for kernel : ALAS2023-2023-070
- 376925 Alibaba Cloud Linux Security Update for cloud-kernel (ALINUX3-SA-2022:0125)
- 378043 Alibaba Cloud Linux Security Update for cloud-kernel (ALINUX2-SA-2023:0011)
- 500806 Alpine Linux Security Update for xen
- 610452 Google Android Devices December 2022 Security Patch Missing
- 610462 Google Android Devices January 2023 Security Patch Missing
- 610463 Google Android January 2023 Security Patch Missing for Samsung
- 610467 Google Android February 2023 Security Patch Missing for Samsung
- 671870 EulerOS Security Update for kernel (EulerOS-SA-2022-1934)

671915 EulerOS Security Update for kernel (EulerOS-SA-2022-1969)

671975 EulerOS Security Update for kernel (EulerOS-SA-2022-2159)

752039 SUSE Enterprise Linux Security Update for the Linux Kernel (SUSE-SU-2022:1196-1)

752120 SUSE Enterprise Linux Security Update for the Linux Kernel (SUSE-SU-2022:1651-1)

940732 AlmaLinux Security Update for kernel (ALSA-2022:7683)

960184 Rocky Linux Security Update for kernel (RLSA-2022:7683)