



CVE-2023-1998

[MITRE](#)[NVD](#)[CVE.ORG](#)[Print: PDF](#)

Summary

CVE	CVE-2023-1998
State	PUBLIC
Assigner	security@google.com
Source Priority	CVE Program / NVD first with legacy fallback
Published	2023-04-21 15:15:00 UTC
Updated	2023-05-03 15:16:00 UTC
Description	The Linux kernel allows userspace processes to enable mitigations by calling prctl with PR_SET_SPECULATION_CTRL w

Risk And Classification

Problem Types: CWE-203

NVD Known Affected Configurations (CPE 2.3)

Type	Vendor	Product	Version	Update	Edition	Language
Operating System	Debian	Debian Linux	10.0	All	All	All
Operating System	Linux	Linux Kernel	All	All	All	All

References

Reference	Source	Link	Tags
Linux Kernel: Spectre v2 SMT mitigations problem · Advisory · google/security-research · GitHub	MISC	github.com	
[SECURITY] [DLA 3403-1] linux security update	MISC	lists.debian.org	Mailing List
[SECURITY] [DLA 3404-1] linux-5.10 security update	MISC	lists.debian.org	
x86/speculation: Allow enabling STIBP with legacy IBRS · torvalds/linux@6921ed9 · GitHub	MISC	github.com	
?????????	MISC	kernel.dance	
CVE Program record	CVE.ORG	www.cve.org	canonical
NVD vulnerability detail	NVD	nvd.nist.gov	canonical, e

No vendor comments have been submitted for this CVE.

Legacy QID Mappings

[160837](#) Oracle Enterprise Linux Security Update for kernel (ELSA-2023-4377)

161147 Oracle Enterprise Linux Security Update for kernel (ELSA-2023-7077)
181765 Debian Security Update for linux-5.10 (DLA 3404-1)
181768 Debian Security Update for linux (DLA 3403-1)
184827 Debian Security Update for linux (CVE-2023-1998)
199298 Ubuntu Security Notification for Linux kernel (OEM) Vulnerabilities (USN-6033-1)
199424 Ubuntu Security Notification for Linux kernel Vulnerabilities (USN-6172-1)
199425 Ubuntu Security Notification for Linux kernel Vulnerabilities (USN-6171-1)
199438 Ubuntu Security Notification for Linux kernel (IBM) Vulnerabilities (USN-6187-1)
199439 Ubuntu Security Notification for Linux kernel Vulnerabilities (USN-6185-1)
199451 Ubuntu Security Notification for Linux kernel (Intel IoTG) Vulnerabilities (USN-6207-1)
199463 Ubuntu Security Notification for Linux kernel (Azure CVM) Vulnerabilities (USN-6223-1)
199465 Ubuntu Security Notification for Linux kernel (Xilinx ZynqMP) Vulnerabilities (USN-6222-1)
199614 Ubuntu Security Notification for Linux kernel (IoT) Vulnerabilities (USN-6256-1)
241878 Red Hat Update for kernel security (RHSA-2023:4377)
241886 Red Hat Update for kernel-rt (RHSA-2023:4378)
242154 Red Hat Update for kernel (RHSA-2023:5604)
242157 Red Hat Update for kernel-rt (RHSA-2023:5603)
242434 Red Hat Update for kernel-rt security (RHSA-2023:6901)
242451 Red Hat Update for kernel security (RHSA-2023:7077)
242855 Red Hat Update for kernel (RHSA-2024:0412)
355138 Amazon Linux Security Advisory for kernel : ALAS-2023-138
355288 Amazon Linux Security Advisory for kernel : ALAS-2023-138
355291 Amazon Linux Security Advisory for kernel : ALAS-2023-138
355297 Amazon Linux Security Advisory for kernel : ALAS-2023-138
355301 Amazon Linux Security Advisory for kernel : ALAS-2023-138
355305 Amazon Linux Security Advisory for kernel : ALAS-2023-138
355307 Amazon Linux Security Advisory for kernel : ALAS-2023-138
355314 Amazon Linux Security Advisory for kernel : ALAS2023-2023-138

673393 EulerOS Security Update for kernel (EulerOS-SA-2023-2647)
674113 EulerOS Security Update for kernel (EulerOS-SA-2023-2689)
753980 SUSE Enterprise Linux Security Update for the Linux Kernel (SUSE-SU-2023:2151-1)
753981 SUSE Enterprise Linux Security Update for the Linux Kernel (SUSE-SU-2023:2146-1)
753982 SUSE Enterprise Linux Security Update for the Linux Kernel (SUSE-SU-2023:2148-1)
753985 SUSE Enterprise Linux Security Update for the Linux Kernel (SUSE-SU-2023:2162-1)
754005 SUSE Enterprise Linux Security Update for the Linux Kernel (SUSE-SU-2023:2163-1)
754023 SUSE Enterprise Linux Security Update for the Linux Kernel (SUSE-SU-2023:2232-1)
755851 SUSE Enterprise Linux Security Update for the linux kernel (SUSE-SU-2023:2646-1)
906894 Common Base Linux Mariner (CBL-Mariner) Security Update for kernel (26372-1)
906902 Common Base Linux Mariner (CBL-Mariner) Security Update for kernel (26368-1)
907090 Common Base Linux Mariner (CBL-Mariner) Security Update for hyperv-daemons (26234-1)
907149 Common Base Linux Mariner (CBL-Mariner) Security Update for hyperv-daemons (26261-1)
941213 AlmaLinux Security Update for kernel (ALSA-2023:4377)
941214 AlmaLinux Security Update for kernel-rt (ALSA-2023:4378)
941453 AlmaLinux Security Update for kernel (ALSA-2023:7077)
960961 Rocky Linux Security Update for kernel-rt (RLSA-2023:4378)

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