



CVE-2023-46813

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

Summary

CVE	CVE-2023-46813
State	PUBLIC
Assigner	cve@mitre.org
Source Priority	CVE Program / NVD first with legacy fallback
Published	2023-10-27 03:15:00 UTC
Updated	2023-11-07 20:42:00 UTC
Description	An issue was discovered in the Linux kernel before 6.5.9, exploitable by local users with userspace access to MMIO registers.

Risk And Classification

Problem Types: NVD-CWE-Other

NVD Known Affected Configurations (CPE 2.3)

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

References

Reference	Source	Link	Tags
kernel/git/torvalds/linux.git - Linux kernel source tree	MISC	git.kernel.org	
kernel/git/torvalds/linux.git - Linux kernel source tree	MISC	git.kernel.org	
1212649 – VUL-0: kernel: SEV-ES local priv escalation	MISC	bugzilla.suse.com	
cdn.kernel.org/pub/linux/kernel/v6.x/ChangeLog-6.5.9	MISC	cdn.kernel.org	
kernel/git/torvalds/linux.git - Linux kernel source tree	MISC	git.kernel.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

[161318](#) Oracle Enterprise Linux Security Update for kernel (ELSA-2024-12094)

[161352](#) Oracle Enterprise Linux Security Update for unbreakable enterprise kernel (ELSA-2024-12159)

161390 Oracle Enterprise Linux Security Update for kernel (ELSA-2024-12187)
161402 Oracle Enterprise Linux Security Update for kernel (ELSA-2024-0897)
161404 Oracle Enterprise Linux Security Update for kernel (ELSA-2024-0461)
199975 Ubuntu Security Notification for Linux kernel (OEM) Vulnerabilities (USN-6533-1)
200099 Ubuntu Security Notification for Linux kernel Vulnerabilities (USN-6624-1)
200100 Ubuntu Security Notification for Linux kernel Vulnerabilities (USN-6626-1)
200103 Ubuntu Security Notification for Linux kernel (Intel IoTG) Vulnerabilities (USN-6628-1)
200111 Ubuntu Security Notification for Linux kernel Vulnerabilities (USN-6626-2)
200118 Ubuntu Security Notification for Linux kernel (Intel IoTG) Vulnerabilities (USN-6628-2)
200120 Ubuntu Security Notification for Linux kernel (Azure) Vulnerabilities (USN-6626-3)
200132 Ubuntu Security Notification for Linux kernel (Azure) Vulnerabilities (USN-6652-1)
242759 Red Hat Update for kernel (RHSA-2024:0432)
242789 Red Hat Update for kernel (RHSA-2024:0575)
242839 Red Hat Update for kernel (RHSA-2024:0461)
242845 Red Hat Update for kernel (RHSA-2024:0448)
242846 Red Hat Update for kernel-rt (RHSA-2024:0439)
242847 Red Hat Update for kernel-rt (RHSA-2024:0431)
242890 Red Hat Update for kernel (RHSA-2024:0724)
242939 Red Hat Update for kernel (RHSA-2024:0897)
242983 Red Hat Update for kernel-rt (RHSA-2024:0881)
356887 Amazon Linux Security Advisory for kernel : ALAS2KERNEL-5.10-2023-043
356889 Amazon Linux Security Advisory for kernel : ALAS2KERNEL-5.15-2023-030
356908 Amazon Linux Security Advisory for kernel : ALAS2023-2023-430
6000419 Debian Security Update for linux (DSA 5594-1)
6000428 Debian Security Update for linux-5.10 (DLA 3711-1)
6140016 AWS Bottlerocket Security Update for kernel (GHSA-v6mr-65pv-hxxx)
6140270 AWS Bottlerocket Security Update for kernel (GHSA-v6mr-65pv-hxxx)
673595 EulerOS Security Update for kernel (EulerOS-SA-2023-3247)
673600 EulerOS Security Update for kernel (EulerOS-SA-2023-3275)

673692 EulerOS Security Update for kernel (EulerOS-SA-2023-3275)
755240 SUSE Enterprise Linux Security Update for the Linux Kernel (SUSE-SU-2023:4375-1)
755249 SUSE Enterprise Linux Security Update for the Linux Kernel (SUSE-SU-2023:4414-1)
755563 SUSE Security Update for the linux kernel (SUSE-SU-2023:4351-1)
755566 SUSE Security Update for the linux kernel (SUSE-SU-2023:4345-1)
756013 SUSE Enterprise Linux Security Update for the Linux Kernel RT (Live Patch 6 for SLE 15 SP5) (SUSE-SU-2024:0986-1)
756014 SUSE Enterprise Linux Security Update for the Linux Kernel RT (Live Patch 1 for SLE 15 SP5) (SUSE-SU-2024:0995-1)
756028 SUSE Enterprise Linux Security Update for the Linux Kernel (Live Patch 2 for SLE 15 SP5) (SUSE-SU-2024:1023-1)
756030 SUSE Enterprise Linux Security Update for the Linux Kernel (Live Patch 6 for SLE 15 SP5) (SUSE-SU-2024:1045-1)
756032 SUSE Enterprise Linux Security Update for the Linux Kernel (Live Patch 0 for SLE 15 SP5) (SUSE-SU-2024:1039-1)
756041 SUSE Enterprise Linux Security Update for the Linux Kernel (Live Patch 18 for SLE 15 SP4) (SUSE-SU-2024:1063-1)
756047 SUSE Enterprise Linux Security Update for the Linux Kernel RT (Live Patch 0 for SLE 15 SP5) (SUSE-SU-2024:1097-1)
907618 Common Base Linux Mariner (CBL-Mariner) Security Update for kernel (31815-1)
941584 AlmaLinux Security Update for kernel (ALSA-2024:0897)

© [CVE.report](#) 2026 |

Use of this information constitutes acceptance for use in an AS IS condition. There are NO warranties, implied or otherwise, with regard to this information or its use. Any use of this information is at the user's risk. It is the responsibility of user to evaluate the accuracy, completeness or usefulness of any information, opinion, advice or other content. EACH USER WILL BE SOLELY RESPONSIBLE FOR ANY consequences of his or her direct or indirect use of this web site. ALL WARRANTIES OF ANY KIND ARE EXPRESSLY DISCLAIMED. This site will NOT BE LIABLE FOR ANY DIRECT, INDIRECT or any other kind of loss.

CVE, CWE, and OVAL are registered trademarks of [The MITRE Corporation](#) and the authoritative source of CVE content is [MITRE's CVE web site](#). This site includes MITRE data granted under the following [license](#).

CVE.report and Source URL Uptime Status [status.cve.report](#)