



CVE-2022-39188

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Summary

CVE	CVE-2022-39188
State	PUBLIC
Assigner	cve@mitre.org
Source Priority	CVE Program / NVD first with legacy fallback
Published	2022-09-02 05:15:00 UTC
Updated	2023-11-07 03:50:00 UTC
Description	An issue was discovered in include/asm-generic/tlb.h in the Linux kernel before 5.19. Because of a race condition (unmap_

Risk And Classification

Problem Types: CWE-362

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	Debian	Debian Linux	11.0	All	All	All
Operating System	Linux	Linux Kernel	All	All	All	All

References

Reference	Source	Link	Tags
stable-backporting the VM_PFNMAP TLB flushing fix (b67fbedd4cf9) - Jann Horn		lore.kernel.org	
mmu_gather: Force tlb-flush VM_PFNMAP vmas · torvalds/linux@b67fbeb · GitHub	MISC	github.com	
[SECURITY] [DLA 3131-1] linux security update	MLIST	lists.debian.org	
2329 - project-zero - Project Zero - Monorail	MISC	bugs.chromium.org	
cdn.kernel.org/pub/linux/kernel/v5.x/ChangeLog-5.19	MISC	cdn.kernel.org	
Debian -- Security Information -- DSA-5257-1 linux	DEBIAN	www.debian.org	
[SECURITY] [DLA 3173-1] linux-5.10 security update	MLIST	lists.debian.org	
kernel/git/torvalds/linux.git - Linux kernel source tree	MISC	git.kernel.org	
stable-backporting the VM_PFNMAP TLB flushing fix (b67fbedd4cf9) - Jann Horn	MISC	lore.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

160583 Oracle Enterprise Linux Security Update for kernel (ELSA-2023-2458)
160692 Oracle Enterprise Linux Security Update for kernel (ELSA-2023-2951)
181044 Debian Security Update for linux (CVE-2022-39188)
181091 Debian Security Update for linux (DLA 3131-1)
181145 Debian Security Update for linux (DSA 5257-1)
181190 Debian Security Update for linux-5.10 (DLA 3173-1)
199029 Ubuntu Security Notification for Linux kernel Vulnerabilities (USN-5728-1)
199037 Ubuntu Security Notification for Linux kernel Vulnerabilities (USN-5728-2)
199051 Ubuntu Security Notification for Linux kernel (GCP) Vulnerabilities (USN-5728-3)
199087 Ubuntu Security Notification for Linux kernel Vulnerabilities (USN-5792-1)
199090 Ubuntu Security Notification for Linux kernel Vulnerabilities (USN-5790-1)
199094 Ubuntu Security Notification for Linux kernel Vulnerabilities (USN-5792-2)
199179 Ubuntu Security Notification for Linux kernel (GKE) Vulnerabilities (USN-5877-1)
199560 Ubuntu Security Notification for Linux kernel (AWS) Vulnerabilities (USN-6001-1)
199568 Ubuntu Security Notification for Linux kernel (AWS) Vulnerabilities (USN-6013-1)
199577 Ubuntu Security Notification for Linux kernel Vulnerabilities (USN-6014-1)
241417 Red Hat Update for kernel security (RHSA-2023:2458)
241468 Red Hat Update for kernel-rt (RHSA-2023:2148)
241504 Red Hat Update for kernel security (RHSA-2023:2951)
241527 Red Hat Update for kernel-rt (RHSA-2023:2736)
241567 Red Hat Update for kernel security (RHSA-2023:3388)
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
377766 Alibaba Cloud Linux Security Update for cloud-kernel (ALINUX2-SA-2022:0049)
377871 Alibaba Cloud Linux Security Update for cloud-kernel (ALINUX2-SA-2023:0001)

378710 Alibaba Cloud Linux Security Update for cloud-kernel (ALINUX3-SA-2023:0079)
379043 Alibaba Cloud Linux Security Update for cloud-kernel (ALINUX3-SA-2023:0136)
6140100 AWS Bottlerocket Security Update for kernel (GHSA-695h-xwh6-7cr5)
672354 EulerOS Security Update for kernel (EulerOS-SA-2022-2732)
672391 EulerOS Security Update for kernel (EulerOS-SA-2022-2767)
672410 EulerOS Security Update for kernel (EulerOS-SA-2022-2796)
672454 EulerOS Security Update for kernel (EulerOS-SA-2022-2848)
672474 EulerOS Security Update for kernel (EulerOS-SA-2022-2823)
672495 EulerOS Security Update for kernel (EulerOS-SA-2023-1012)
672516 EulerOS Security Update for kernel (EulerOS-SA-2023-1037)
672711 EulerOS Security Update for kernel (EulerOS-SA-2023-1507)
752589 SUSE Enterprise Linux Security Update for the Linux Kernel (SUSE-SU-2022:3264-1)
752594 SUSE Enterprise Linux Security Update for the Linux Kernel (SUSE-SU-2022:3293-1)
752596 SUSE Enterprise Linux Security Update for the Linux Kernel (SUSE-SU-2022:3291-1)
752615 SUSE Enterprise Linux Security Update for the Linux Kernel (SUSE-SU-2022:3408-1)
752632 SUSE Enterprise Linux Security Update for the Linux Kernel (SUSE-SU-2022:3450-1)
752668 SUSE Enterprise Linux Security Update for the Linux Kernel (SUSE-SU-2022:3586-1)
752669 SUSE Enterprise Linux Security Update for the Linux Kernel (SUSE-SU-2022:3587-1)
752671 SUSE Enterprise Linux Security Update for the Linux Kernel (SUSE-SU-2022:3584-1)
753063 SUSE Enterprise Linux Security Update for the Linux Kernel (SUSE-SU-2022:4617-1)
753114 SUSE Enterprise Linux Security Update for the Linux Kernel (Live Patch 16 for SLE 15 SP3) (SUSE-SU-2022:3407-1)
753167 SUSE Enterprise Linux Security Update for the Linux Kernel (SUSE-SU-2022:3288-1)
753177 SUSE Enterprise Linux Security Update for the Linux Kernel (Live Patch 29 for SLE 15 SP2) (SUSE-SU-2022:3465-1)
753192 SUSE Enterprise Linux Security Update for the Linux Kernel (Live Patch 28 for SLE 15) (SUSE-SU-2022:3360-1)
753201 SUSE Enterprise Linux Security Update for the Linux Kernel (Live Patch 22 for SLE 15 SP3) (SUSE-SU-2022:3377-1)
753221 SUSE Enterprise Linux Security Update for the Linux Kernel (Live Patch 32 for SLE 15) (SUSE-SU-2022:3362-1)
753254 SUSE Enterprise Linux Security Update for the Linux Kernel (Live Patch 26 for SLE 15 SP2) (SUSE-SU-2022:3476-1)
753283 SUSE Enterprise Linux Security Update for the Linux Kernel (Live Patch 19 for SLE 15 SP3) (SUSE-SU-2022:3432-1)

753314 SUSE Enterprise Linux Security Update for the Linux Kernel (Live Patch 25 for SLE 15 SP2) (SUSE-SU-2022:3445-1)
753332 SUSE Enterprise Linux Security Update for the Linux Kernel (Live Patch 27 for SLE 15 SP2) (SUSE-SU-2022:3463-1)
753335 SUSE Enterprise Linux Security Update for the Linux Kernel (Live Patch 0 for SLE 15 SP4) (SUSE-SU-2022:3370-1)
753356 SUSE Enterprise Linux Security Update for the Linux Kernel (Live Patch 20 for SLE 15 SP3) (SUSE-SU-2022:3369-1)
753365 SUSE Enterprise Linux Security Update for the Linux Kernel (Live Patch 32 for SLE 15 SP1) (SUSE-SU-2022:3366-1)
753367 SUSE Enterprise Linux Security Update for the Linux Kernel (Live Patch 23 for SLE 15 SP3) (SUSE-SU-2022:3415-1)
753370 SUSE Enterprise Linux Security Update for the Linux Kernel (SUSE-SU-2022:3609-1)
753374 SUSE Enterprise Linux Security Update for the Linux Kernel (SUSE-SU-2022:3809-1)
753376 SUSE Enterprise Linux Security Update for the Linux Kernel (Live Patch 14 for SLE 15 SP3) (SUSE-SU-2022:3368-1)
753379 SUSE Enterprise Linux Security Update for the Linux Kernel (Live Patch 29 for SLE 15) (SUSE-SU-2022:3424-1)
753395 SUSE Enterprise Linux Security Update for the Linux Kernel (Live Patch 26 for SLE 15) (SUSE-SU-2022:3409-1)
753424 SUSE Enterprise Linux Security Update for the Linux Kernel (Live Patch 30 for SLE 15 SP1) (SUSE-SU-2022:3359-1)
753428 SUSE Enterprise Linux Security Update for the Linux Kernel (Live Patch 31 for SLE 15) (SUSE-SU-2022:3406-1)
753449 SUSE Enterprise Linux Security Update for the Linux Kernel (Live Patch 1 for SLE 15 SP4) (SUSE-SU-2022:3412-1)
753458 SUSE Enterprise Linux Security Update for the Linux Kernel (Live Patch 13 for SLE 15 SP3) (SUSE-SU-2022:3433-1)
753480 SUSE Enterprise Linux Security Update for the Linux Kernel (Live Patch 18 for SLE 15 SP3) (SUSE-SU-2022:3464-1)
753703 SUSE Enterprise Linux Security Update for the Linux Kernel (SUSE-SU-2023:0416-1)
753707 SUSE Enterprise Linux Security Update for the Linux Kernel (SUSE-SU-2023:0416-1)
753727 SUSE Enterprise Linux Security Update for the Linux Kernel (SUSE-SU-2023:0416-1)
903732 Common Base Linux Mariner (CBL-Mariner) Security Update for kernel (10875)
903821 Common Base Linux Mariner (CBL-Mariner) Security Update for kernel (10858)
904080 Common Base Linux Mariner (CBL-Mariner) Security Update for kernel (10875-1)
904144 Common Base Linux Mariner (CBL-Mariner) Security Update for kernel (10858-1)
906225 Common Base Linux Mariner (CBL-Mariner) Security Update for kernel (10875-2)
906422 Common Base Linux Mariner (CBL-Mariner) Security Update for kernel (10858-2)
941023 AlmaLinux Security Update for kernel (ALSA-2023:2458)
941061 AlmaLinux Security Update for kernel-rt (ALSA-2023:2148)
941096 AlmaLinux Security Update for kernel (ALSA-2023:2951)
941114 AlmaLinux Security Update for kernel-rt (ALSA-2023:2720)

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