



x86/mm/pat: fix VM_PAT handling in COW mappings

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

Summary

CVE	CVE-2024-35877
State	PUBLISHED
Assigner	Linux
Source Priority	CVE Program / NVD first with legacy fallback
Published	2024-05-19 09:15:08 UTC
Updated	2026-05-12 12:16:38 UTC
Description	In the Linux kernel, the following vulnerability has been resolved: x86/mm/pat: fix VM_PAT handling in COW mappings PAT

Risk And Classification

Primary CVSS: v3.1 5.5 MEDIUM from nvd@nist.gov

CVSS: 3.1/AV:L/AC:L/PR:L/UI:N/S:U/C:N/I:N/A:H

Problem Types: CWE-401 | CWE-noinfo Not enough information

CVSS v3.1 Breakdown

Attack Vector

Local

Attack Complexity

Low

Privileges Required

Low

User Interaction

None

Scope

Unchanged

Confidentiality

None

Integrity

None

Availability

High

CVSS: 3.1/AV:L/AC:L/PR:L/UI:N/S:U/C:N/I:N/A:H

NVD Known Affected Configurations (CPE 2.3)

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

Vendor Declared Affected Products

Source	Vendor	Product	Version
CNA	Linux	Linux	affected 5899329b19100c0b82dc78e9b21ed8b920c9ffb3 f18681
CNA	Linux	Linux	affected 5899329b19100c0b82dc78e9b21ed8b920c9ffb3 09e6bk
CNA	Linux	Linux	affected 5899329b19100c0b82dc78e9b21ed8b920c9ffb3 c2b243
CNA	Linux	Linux	affected 5899329b19100c0b82dc78e9b21ed8b920c9ffb3 7cfee2
CNA	Linux	Linux	affected 5899329b19100c0b82dc78e9b21ed8b920c9ffb3 97e933
CNA	Linux	Linux	affected 5899329b19100c0b82dc78e9b21ed8b920c9ffb3 51b784
CNA	Linux	Linux	affected 5899329b19100c0b82dc78e9b21ed8b920c9ffb3 1341e4
CNA	Linux	Linux	affected 5899329b19100c0b82dc78e9b21ed8b920c9ffb3 04c35e
CNA	Linux	Linux	affected 2.6.29
CNA	Linux	Linux	unaffected 2.6.29 semver
CNA	Linux	Linux	unaffected 4.19.312 4.19.* semver
CNA	Linux	Linux	unaffected 5.4.274 5.4.* semver
CNA	Linux	Linux	unaffected 5.10.215 5.10.* semver
CNA	Linux	Linux	unaffected 5.15.155 5.15.* semver
CNA	Linux	Linux	unaffected 6.1.85 6.1.* semver
CNA	Linux	Linux	unaffected 6.6.26 6.6.* semver
CNA	Linux	Linux	unaffected 6.8.5 6.8.* semver
CNA	Linux	Linux	unaffected 6.9 * original_commit_for_fix
ADP	Siemens	SIMATIC S7-1500 TM MFP - GNU/Linux Subsystem	affected * custom

References

Reference	Source	Link
lists.debian.org/debian-lts-announce/2024/06/msg00017.html	af854a3a-2127-422b-91ae-364da2661108	lists.debian.org
cert-portal.siemens.com/productcert/html/ssa-265688.html	0b142b55-0307-4c5a-b3c9-f314f3fb7c5e	cert-portal.siemens.com
git.kernel.org/stable/c/97e93367e82752e475a33839a80b33bdbef1209f	af854a3a-2127-422b-91ae-364da2661108	git.kernel.org
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git.kernel.org/stable/c/09e6bb53217bf388a0d2fd7fb21e74ab9dffc173	af854a3a-2127-422b-91ae-364da2661108	git.kernel.org
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lists.debian.org/debian-lts-announce/2024/06/msg00020.html	af854a3a-2127-422b-91ae-364da2661108	lists.debian.org
git.kernel.org/stable/c/7cfee26d1950250b14c5cb0a37b142f3fcc6396a	af854a3a-2127-422b-91ae-364da2661108	git.kernel.org
git.kernel.org/stable/c/04c35ab3bdae7fefbd7c7a7355f29fa03a035221	af854a3a-2127-422b-91ae-364da2661108	git.kernel.org
CVE Program record	CVE.ORG	www.cve.org
NVD vulnerability detail	NVD	nvd.nist.gov

No vendor comments have been submitted for this CVE.

There are currently no legacy QID mappings associated with this CVE.

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