CVE-2025-54518

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Summary

CVE	CVE-2025-54518
State	PUBLISHED
Assigner	AMD
Source Priority	CVE Program / NVD first with legacy fallback
Published	2026-05-15 05:16:33 UTC
Updated	2026-05-15 05:16:33 UTC
Description	Improper isolation of shared resources within the CPU operation cache on Zen 2-based products could allow an attacker to

Risk And Classification

Primary CVSS: v4.0 7.3 HIGH from psirt@amd.com

CVSS:4.0/AV:L/AC:H/AT:N/PR:L/UI:N/VC:H/VI:H/VA:H/SC:N/SI:N/SA:N/E:X/CR:X/IR:X/AR:X/MAV:X/MAC:X/MAT:X/MPR:X/MUI:X/MVC:X/MVI:X/MVA:X/MSC:X/MSI:X/MSA:X/S:X/AU:X/R:X/V:X/RE:X/U:X

Problem Types: CWE-1189 | CWE-1189 CWE-1189 Improper Isolation of Shared Resources on System-on-a-Chip (SoC)

Version	Source	Type	Score	Severity	Vector
4.0	psirt@amd.com	Secondary	7.3	HIGH	CVSS:4.0/AV:L/AC:H/AT:N/PR:L/UI:N/VC:H/VI:H/VA:H/SC:N/SI:N/SA:N/E:X/C...
4.0	CNA	CVSS	7.3	HIGH	CVSS:4.0/AV:L/AC:H/AT:N/PR:L/UI:N/VC:H/VI:H/VA:H/SC:N/SI:N/SA:N

CVSS v4.0 Breakdown

Attack Vector

Local

Attack Complexity

High

Attack Requirements

None

Privileges Required

Low

User Interaction

None

Confidentiality

High

Integrity

High

Availability

High

Sub Conf.

None

Sub Integrity

None

Sub Availability

None

CVSS:4.0/AV:L/AC:H/AT:N/PR:L/UI:N/VC:H/VI:H/VA:H/SC:N/SI:N/SA:N/E:X/CR:X/IR:X/AR:X/MAV:X/MAC:X/MAT:X/MPR:X/MUI:X/MVC:X/MVI:X/MVA:X/MSC:X/MSI:X/MSA:X/S:X/AU:X/R:X/V:X/RE:X/U:X

Vendor Declared Affected Products

Source	Vendor	Product	Version	Pla
CNA	AMD	AMD EPYC 7002 Series Processors	unaffected os kernel	No
CNA	AMD	AMD Ryzen 4000 Series Mobile Processors With Radeon Graphics	unaffected RenoirPI-FP6_1.0.0.Ed	No
CNA	AMD	AMD Ryzen 7020 Series Processors With Radeon Graphics	unaffected MendocinoPI-FT6_1.0.0.7f	No
CNA	AMD	AMD Ryzen 3000 Series Desktop Processors	unaffected ComboAM4v2 1.2.0.10	No
CNA	AMD	AMD Ryzen Threadripper PRO 3000 WX-Series Processors	unaffected ChagallWSPI-sWRX8-1.0.0.D	No
CNA	AMD	AMD Ryzen 7030 Series Mobile Processors With Radeon Graphics	unaffected CezannePI-FP6_1.0.1.1d	No
CNA	AMD	AMD Ryzen Threadripper PRO 3000 WX-Series Processors	unaffected CastlePeakWSPI-sWRX8 1.0.0.I	No
CNA	AMD	AMD Ryzen 5000 Series Mobile Processors With Radeon Graphics	unaffected CezannePI-FP6_1.0.1.1d	No
CNA	AMD	AMD Ryzen 5000 Series Mobile Processors With Radeon Graphics	unaffected CezannePI-FP6_1.0.1.1d	No
CNA	AMD	AMD Ryzen 4000 Series Desktop Processors	unaffected ComboAM4v2 1.2.0.10	No
CNA	AMD	AMD Ryzen 5000 Series Desktop Processors With Radeon Graphics	unaffected ComboAM4v2 1.2.0.10	No
CNA	AMD	AMD Ryzen 3000 Series Desktop Processors	unaffected ComboAM4PI 1.0.0.10	No
CNA	AMD	AMD EPYC Embedded 7002 Series Processors	unaffected OS kernel	No
CNA	AMD	AMD Ryzen Embedded V2000A Series Processors	unaffected EmbeddedV2KAPI-FP6 1.0.0.A	No
CNA	AMD	AMD Ryzen Embedded V2000 Series Processors	unaffected EmbeddedPI-FP6_1.0.0.D	No

References

Reference	Source	Link
www.amd.com/en/resources/product-security/bulletin/AMD-SB-7052.html	psirt@amd.com	www.amd.com
xenbits.xen.org/xsa/advisory-490.html	af854a3a-2127-422b-91ae-364da2661108	xenbits.xen.org
www.openwall.com/lists/oss-security/2026/05/12/15	af854a3a-2127-422b-91ae-364da2661108	www.openwall.com
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.