



# CVE-2023-31317

[MITRE](#)[NVD](#)[CVE.ORG](#)[JSON API](#)[Print: PDF !\[\]\(003082e50e3009141f59bd5df831749f\_img.jpg\)](#)

## Summary

<b>CVE</b>	CVE-2023-31317
<b>State</b>	PUBLISHED
<b>Assigner</b>	AMD
<b>Source Priority</b>	CVE Program / NVD first with legacy fallback
<b>Published</b>	2026-05-15 03:16:20 UTC
<b>Updated</b>	2026-05-15 03:16:20 UTC
<b>Description</b>	Improper restriction of operations within the bounds of a memory buffer in the AMD secure processor (ASP) could allow an

## Risk And Classification

**Primary CVSS:** v4.0 8.8 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:H/SI:H/SA:H/E:X/CR:X/IR:X/AR:X/MAV:X/MAC:X/MAT:X/MPR:X/MUI:X/MVC:X/MVI:X/MVA:X/MSX/MSI:X/MSA:X/S:X/AU:X/R:X/V:X/RE:X/U:X

**Problem Types:** CWE-119 | CWE-119 CWE-119 Improper Restriction of Operations within the Bounds of a Memory Buffer

Version	Source	Type	Score	Severity	Vector
4.0	psirt@amd.com	Secondary	8.8	HIGH	CVSS:4.0/AV:L/AC:H/AT:N/PR:L/UI:N/VC:H/VI:H/VA:H/SC:H/SI:H/SA:H/E:X/CR:X/IR:X/AR:X/MAV:X/MAC:X/MAT:X/MPR:X/MUI:X/MVC:X/MVI:X/MVA:X/MSX/MSI:X/MSA:X/S:X/AU:X/R:X/V:X/RE:X/U:X
4.0	CNA	CVSS	8.8	HIGH	CVSS:4.0/AV:L/AC:H/AT:N/PR:L/UI:N/VC:H/VI:H/VA:H/SC:H/SI:H/SA:H

## 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.

High

Sub Integrity

High

Sub Availability

High

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

### Vendor Declared Affected Products

Source	Vendor	Product	Version
CNA	AMD	AMD Radeon RX 6000 Series Graphics Products	unaffected AMD Software: Adrenalin Edition 25.11.1 (25.10.33.03)
CNA	AMD	AMD Radeon RX 7000 Series Graphics Products	unaffected AMD Software: Adrenalin Edition 25.11.1 (25.20.29.01)
CNA	AMD	AMD Radeon PRO W7000 Series Graphics Products	unaffected AMD Software: PRO Edition 25.Q3.1 (25.10.32)
CNA	AMD	AMD Radeon PRO W6000 Series Graphics Products	unaffected AMD Software: PRO Edition 25.Q3.1 (25.10.32)
CNA	AMD	AMD Instinct MI250	unaffected ROCm 7.0
CNA	AMD	AMD Instinct MI210	unaffected ROCm 7.0

### References

Reference	Source	Link	Tags
www.amd.com/en/resources/product-security/bulletin/AMD-SB-6027.html	psirt@amd.com	www.amd.com	
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.

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

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