



# CVE-2022-23817

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

## Summary

<b>CVE</b>	CVE-2022-23817
<b>State</b>	PUBLISHED
<b>Assigner</b>	AMD
<b>Source Priority</b>	CVE Program / NVD first with legacy fallback
<b>Published</b>	2024-08-13 17:15:18 UTC
<b>Updated</b>	2026-05-15 05:16:30 UTC
<b>Description</b>	Insufficient checking of memory buffer in AMD Secure Processor (ASP) Secure OS may allow an attacker with a malicious

## Risk And Classification

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

CVSS:4.0/AV:L/AC:H/AT:P/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/MSX/MSI:X/MSA:X/S:X/AU:X/R:X/V:X/RE:X/U:X

**Problem Types:** CWE-20 | CWE-120 | CWE-20 CWE-20 Improper Input Validation | CWE-120 CWE-120 Buffer Copy without Checking Size of Input ('Classic Buffer Overflow')

Version	Source	Type	Score	Severity	Vector
4.0	psirt@amd.com	Secondary	7.3	HIGH	CVSS:4.0/AV:L/AC:H/AT:P/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/MSX/MSI:X/MSA:X/S:X/AU:X/R:X/V:X/RE:X/U:X
4.0	CNA	CVSS	7.3	HIGH	CVSS:4.0/AV:L/AC:H/AT:P/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

Present

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:P/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/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 Athlon 3000 Series Mobile Processors With Radeon Graphics	unaffected PicassoPI-FP5 1.0.0.
CNA	AMD	AMD Ryzen Threadripper PRO 3000 WX-Series Processors	unaffected ChagallWSPI-sWRX8
CNA	AMD	AMD Ryzen Threadripper PRO 3000 WX-Series Processors	unaffected CastlePeakWSPI-sW
CNA	AMD	AMD Ryzen 5000 Series Desktop Processors With Radeon Graphics	unaffected ComboAM4v2 PI 1.2.
CNA	AMD	AMD Ryzen Threadripper PRO 5000 WX-Series Processors	unaffected ChagallWSPI-sWRX8
CNA	AMD	AMD Ryzen 4000 Series Mobile Processors With Radeon Graphics	unaffected RenoirPI-FP6 1.0.0.A
CNA	AMD	AMD Ryzen 3000 Series Mobile Processors With Radeon Graphics	unaffected PicassoPI-FP5 1.0.0.
CNA	AMD	AMD Ryzen 5000 Series Mobile Processors With Radeon Graphics	unaffected CezannePI-FP6 1.0.0.
CNA	AMD	AMD Ryzen 3000 Series Desktop Processors	unaffected ComboAM4V1 1.0.0..
CNA	AMD	AMD Ryzen 3000 Series Desktop Processors	unaffected ComboAM4V2 1.2.0.!
CNA	AMD	AMD Ryzen 2000 Mobile Processors	unaffected ComboAM4v2 PI 1.2.
CNA	AMD	AMD Ryzen 2000 Mobile Processors	unaffected ComboAM4PI 1.0.0.9
CNA	AMD	AMD Ryzen 4000 Series Desktop Processors	unaffected ComboAM4v2 PI 1.2.
CNA	AMD	AMD Ryzen 5000 Series Desktop Processors	unaffected ComboAM4v2 PI 1.2.
CNA	AMD	AMD Ryzen 6000 Series Processors With Radeon Graphics	unaffected RembrandtPI-FP7_1.
CNA	AMD	AMD Ryzen Embedded R1000 Series Processors	unaffected EmbeddedPI-FP5_1.
CNA	AMD	AMD Ryzen Embedded R2000 Series Processors	unaffected EmbeddedR2KPI-FP
CNA	AMD	AMD Ryzen Embedded 5000 Series Processors	unaffected EmbAM4PI 1.0.0.2
CNA	AMD	AMD Ryzen Embedded V1000 Series Processors Formerly Codenamed Raven Ridge	unaffected EmbeddedPI-FP5_1.
CNA	AMD	AMD Ryzen Embedded V1000 Series Processors Formerly Codenamed Picasso	unaffected EmbeddedPI-FP5_1.
CNA	AMD	AMD Ryzen Embedded V2000 Series Processor	unaffected EmbeddedPI-FP6_1.
CNA	AMD	AMD Ryzen Embedded V3000 Series Processors	unaffected EmbeddedPI-FP7r2_
CNA	AMD	AMD Radeon RX 5000 Series Graphics Products	unaffected AMD Software: Adve

CNA	AMD	AMD Radeon RX 5000 Series Graphics Products	unaffected AMD Software: Adren
CNA	AMD	AMD Radeon PRO W5000 Series Graphics Products	unaffected AMD Software: PRO
CNA	AMD	AMD Radeon RX 6000 Series Graphics Products	unaffected AMD Software: Adren
CNA	AMD	AMD Radeon PRO W6000 Series Graphics Products	unaffected AMD Software: PRO
CNA	AMD	MI-25 / 50	unaffected No fix planned
CNA	AMD	MI-100	unaffected ROCm 6.4.2
CNA	AMD	AMD Instinct MI250	unaffected ROCm 7.0
CNA	AMD	AMD Instinct MI210	unaffected ROCm 7.0
ADP	Amd	Ryzen 3 3300x Firmware	unaffected comboam4v2_1.2.0.e
ADP	Amd	Ryzen 3 3300u Firmware	unaffected picassopi-fp5_1.0.0.e
ADP	Amd	Ryzen 3 Pro 3200g Firmware	unaffected comboam4v2_pi_1.2
ADP	Amd	Ryzen 5 7500f Firmware	unaffected comboam5_1.0.8.0 c
ADP	Amd	Ryzen Threadripper Pro 3995wx Firmware	unaffected castlepeakpi-sp3r3_1
ADP	Amd	Ryzen Threadripper Pro 3995wx Firmware	unaffected castlepeakwspi-swrx8_1
ADP	Amd	Ryzen Threadripper Pro 5995wx Firmware	unaffected chagallwspi-swrx8_1.
ADP	Amd	Ryzen 3 4300u Firmware	unaffected renoirpi-fp6_1.0.0.a c
ADP	Amd	Ryzen 5 6600u Firmware	unaffected rembrandtpi-fp7_1.0.0
ADP	Amd	Ryzen 3 7335u Firmware	unaffected rembrandtpi-fp7_1.0.0
ADP	Amd	Ryzen 7 7745hx Firmware	unaffected dragonrangefl1pi_1.0
ADP	Amd	Ryzen 5 5600x Firmware	unaffected comboam4v2_pi_1.2
ADP	Amd	Ryzen 3 5300g Firmware	unaffected cezannepi-fp6_1.0.0.
ADP	Amd	Ryzen 3 5425c Firmware	unaffected cezannepi-fp6_1.0.0.
ADP	Amd	Athlon Pro 300ge Firmware	unaffected picassopi-fp5_1.0.0.e

## References

Reference	Source	Link	Tags
<a href="http://www.amd.com/en/resources/product-security/bulletin/AMD-SB-4004.html">www.amd.com/en/resources/product-security/bulletin/AMD-SB-4004.html</a>	psirt@amd.com	<a href="http://www.amd.com">www.amd.com</a>	
<a href="http://www.amd.com/en/resources/product-security/bulletin/AMD-SB-1029.html">www.amd.com/en/resources/product-security/bulletin/AMD-SB-1029.html</a>	psirt@amd.com	<a href="http://www.amd.com">www.amd.com</a>	
<a href="http://www.amd.com/en/resources/product-security/bulletin/AMD-SB-6027.html">www.amd.com/en/resources/product-security/bulletin/AMD-SB-6027.html</a>	psirt@amd.com	<a href="http://www.amd.com">www.amd.com</a>	
<a href="http://www.amd.com/en/resources/product-security/bulletin/AMD-SB-5002.html">www.amd.com/en/resources/product-security/bulletin/AMD-SB-5002.html</a>	psirt@amd.com	<a href="http://www.amd.com">www.amd.com</a>	
CVE Program record	CVE.ORG	<a href="http://www.cve.org">www.cve.org</a>	canonical
NVD vulnerability detail	NVD	<a href="http://nvd.nist.gov">nvd.nist.gov</a>	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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