



CVE-2023-4969

[MITRE](#)[NVD](#)[CVE.ORG](#)[Print: PDF !\[\]\(e3f8612927870f2e0f9f5989e6dd3064_img.jpg\)](#)

Summary

CVE	CVE-2023-4969
State	RESERVED
Assigner	cve@mitre.org
Source Priority	CVE Program / NVD first with legacy fallback
Published	2024-01-16 17:15:00 UTC
Updated	2024-01-23 16:56:00 UTC
Description	** RESERVED ** This candidate has been reserved by an organization or individual that will use it when announcing a new

Risk And Classification

Problem Types: CWE-401

NVD Known Affected Configurations (CPE 2.3)

Type	Vendor	Product	Version	Update	Edition	Language
Hardware	Amd	Athlon 3000g	-	All	All	All
Operating System	Amd	Athlon 3000g Firmware	-	All	All	All
Hardware	Amd	Instinct Mi100	-	All	All	All
Operating System	Amd	Instinct Mi100 Firmware	-	All	All	All
Hardware	Amd	Instinct Mi210	-	All	All	All
Operating System	Amd	Instinct Mi210 Firmware	-	All	All	All
Hardware	Amd	Instinct Mi250	-	All	All	All
Operating System	Amd	Instinct Mi250 Firmware	-	All	All	All
Hardware	Amd	Instinct Mi300a	-	All	All	All
Operating System	Amd	Instinct Mi300a Firmware	-	All	All	All
Hardware	Amd	Instinct Mi300x	-	All	All	All
Operating System	Amd	Instinct Mi300x Firmware	-	All	All	All
Hardware	Amd	Radeon Instinct Mi25	-	All	All	All
Operating System	Amd	Radeon Instinct Mi25 Firmware	-	All	All	All
Hardware	Amd	Radeon Instinct Mi50	-	All	All	All
Operating System	Amd	Radeon Instinct Mi50 Firmware	-	All	All	All
Hardware	Amd	Radeon Pro V520	-	All	All	All

Operating System	Amd	Radeon Pro V520 Firmware	-	All	All	All
Hardware	Amd	Radeon Pro V620	-	All	All	All
Operating System	Amd	Radeon Pro V620 Firmware	-	All	All	All
Hardware	Amd	Radeon Pro W5500x	-	All	All	All
Operating System	Amd	Radeon Pro W5500x Firmware	-	All	All	All
Hardware	Amd	Radeon Pro W5700x	-	All	All	All
Operating System	Amd	Radeon Pro W5700x Firmware	-	All	All	All
Hardware	Amd	Radeon Pro W6300m	-	All	All	All
Operating System	Amd	Radeon Pro W6300m Firmware	-	All	All	All
Hardware	Amd	Radeon Pro W6400	-	All	All	All
Operating System	Amd	Radeon Pro W6400 Firmware	-	All	All	All
Hardware	Amd	Radeon Pro W6500m	-	All	All	All
Operating System	Amd	Radeon Pro W6500m Firmware	-	All	All	All
Hardware	Amd	Radeon Pro W7500	-	All	All	All
Operating System	Amd	Radeon Pro W7500 Firmware	-	All	All	All
Hardware	Amd	Radeon Pro W7600	-	All	All	All
Operating System	Amd	Radeon Pro W7600 Firmware	-	All	All	All
Hardware	Amd	Radeon Rx 5300	-	All	All	All
Hardware	Amd	Radeon Rx 5300m	-	All	All	All
Operating System	Amd	Radeon Rx 5300m Firmware	-	All	All	All
Hardware	Amd	Radeon Rx 5300xt	-	All	All	All
Operating System	Amd	Radeon Rx 5300xt Firmware	-	All	All	All
Operating System	Amd	Radeon Rx 5300 Firmware	-	All	All	All
Hardware	Amd	Radeon Rx 5500	-	All	All	All
Hardware	Amd	Radeon Rx 5500m	-	All	All	All
Operating System	Amd	Radeon Rx 5500m Firmware	-	All	All	All
Hardware	Amd	Radeon Rx 5500xt	-	All	All	All
Operating System	Amd	Radeon Rx 5500xt Firmware	-	All	All	All
Operating System	Amd	Radeon Rx 5500 Firmware	-	All	All	All
Hardware	Amd	Radeon Rx 5600	-	All	All	All
Hardware	Amd	Radeon Rx 5600m	-	All	All	All
Operating System	Amd	Radeon Rx 5600m Firmware	-	All	All	All
Hardware	Amd	Radeon Rx 5600xt	-	All	All	All
Operating System	Amd	Radeon Rx 5600xt Firmware	-	All	All	All
Operating System	Amd	Radeon Rx 5600 Firmware	-	All	All	All

Hardware	Amd	Radeon Rx 5700	-	All	All	All
Hardware	Amd	Radeon Rx 5700m	-	All	All	All
Operating System	Amd	Radeon Rx 5700m Firmware	-	All	All	All
Hardware	Amd	Radeon Rx 5700xt	-	All	All	All
Operating System	Amd	Radeon Rx 5700xt Firmware	-	All	All	All
Operating System	Amd	Radeon Rx 5700 Firmware	-	All	All	All
Hardware	Amd	Radeon Rx 6800	-	All	All	All
Hardware	Amd	Radeon Rx 6800xt	-	All	All	All
Operating System	Amd	Radeon Rx 6800xt Firmware	-	All	All	All
Operating System	Amd	Radeon Rx 6800 Firmware	-	All	All	All
Hardware	Amd	Radeon Rx 6900xt	-	All	All	All
Operating System	Amd	Radeon Rx 6900xt Firmware	-	All	All	All
Hardware	Amd	Radeon Rx 6950xt	-	All	All	All
Operating System	Amd	Radeon Rx 6950xt Firmware	-	All	All	All
Hardware	Amd	Radeon Rx 7600	-	All	All	All
Hardware	Amd	Radeon Rx 7600xt	-	All	All	All
Operating System	Amd	Radeon Rx 7600xt Firmware	-	All	All	All
Operating System	Amd	Radeon Rx 7600 Firmware	-	All	All	All
Hardware	Amd	Radeon Rx 7700xt	-	All	All	All
Operating System	Amd	Radeon Rx 7700xt Firmware	-	All	All	All
Hardware	Amd	Radeon Rx 7800xt	-	All	All	All
Operating System	Amd	Radeon Rx 7800xt Firmware	-	All	All	All
Hardware	Amd	Radeon Rx 7900xt	-	All	All	All
Hardware	Amd	Radeon Rx 7900xtx	-	All	All	All
Operating System	Amd	Radeon Rx 7900xtx Firmware	-	All	All	All
Operating System	Amd	Radeon Rx 7900xt Firmware	-	All	All	All
Hardware	Amd	Ryzen 3 3200g	-	All	All	All
Hardware	Amd	Ryzen 3 3200ge	-	All	All	All
Operating System	Amd	Ryzen 3 3200ge Firmware	-	All	All	All
Operating System	Amd	Ryzen 3 3200g Firmware	-	All	All	All
Hardware	Amd	Ryzen 3 3200u	-	All	All	All
Operating System	Amd	Ryzen 3 3200u Firmware	-	All	All	All
Hardware	Amd	Ryzen 3 3250c	-	All	All	All
Operating System	Amd	Ryzen 3 3250c Firmware	-	All	All	All
Hardware	Amd	Ryzen 3 3250u	-	All	All	All

Operating System	Amd	Ryzen 3 3250u Firmware	-	All	All	All
Hardware	Amd	Ryzen 3 4300g	-	All	All	All
Hardware	Amd	Ryzen 3 4300ge	-	All	All	All
Operating System	Amd	Ryzen 3 4300ge Firmware	-	All	All	All
Operating System	Amd	Ryzen 3 4300g Firmware	-	All	All	All
Hardware	Amd	Ryzen 3 4300u	-	All	All	All
Operating System	Amd	Ryzen 3 4300u Firmware	-	All	All	All
Hardware	Amd	Ryzen 3 5300g	-	All	All	All
Hardware	Amd	Ryzen 3 5300ge	-	All	All	All
Operating System	Amd	Ryzen 3 5300ge Firmware	-	All	All	All
Operating System	Amd	Ryzen 3 5300g Firmware	-	All	All	All
Hardware	Amd	Ryzen 3 5300u	-	All	All	All
Operating System	Amd	Ryzen 3 5300u Firmware	-	All	All	All
Hardware	Amd	Ryzen 3 7320u	-	All	All	All
Operating System	Amd	Ryzen 3 7320u Firmware	-	All	All	All
Hardware	Amd	Ryzen 3 7335u	-	All	All	All
Operating System	Amd	Ryzen 3 7335u Firmware	-	All	All	All
Hardware	Amd	Ryzen 3 7440u	-	All	All	All
Operating System	Amd	Ryzen 3 7440u Firmware	-	All	All	All
Hardware	Amd	Ryzen 3 Pro 3200g	-	All	All	All
Hardware	Amd	Ryzen 3 Pro 3200ge	-	All	All	All
Operating System	Amd	Ryzen 3 Pro 3200ge Firmware	-	All	All	All
Operating System	Amd	Ryzen 3 Pro 3200g Firmware	-	All	All	All
Hardware	Amd	Ryzen 5 3400g	-	All	All	All
Operating System	Amd	Ryzen 5 3400g Firmware	-	All	All	All
Hardware	Amd	Ryzen 5 4500u	-	All	All	All
Operating System	Amd	Ryzen 5 4500u Firmware	-	All	All	All
Hardware	Amd	Ryzen 5 4600g	-	All	All	All
Hardware	Amd	Ryzen 5 4600ge	-	All	All	All
Operating System	Amd	Ryzen 5 4600ge Firmware	-	All	All	All
Operating System	Amd	Ryzen 5 4600g Firmware	-	All	All	All
Hardware	Amd	Ryzen 5 4600h	-	All	All	All
Hardware	Amd	Ryzen 5 4600hs	-	All	All	All
Operating System	Amd	Ryzen 5 4600hs Firmware	-	All	All	All
Operating System	Amd	Ryzen 5 4600h Firmware	-	All	All	All
Hardware	Amd	Ryzen 5 4600u	-	All	All	All

Operating System	Amd	Ryzen 5 4600u Firmware	-	All	All	All
Hardware	Amd	Ryzen 5 4680u	-	All	All	All
Operating System	Amd	Ryzen 5 4680u Firmware	-	All	All	All
Hardware	Amd	Ryzen 5 5500gt	-	All	All	All
Operating System	Amd	Ryzen 5 5500gt Firmware	-	All	All	All
Hardware	Amd	Ryzen 5 5500u	-	All	All	All
Operating System	Amd	Ryzen 5 5500u Firmware	-	All	All	All
Hardware	Amd	Ryzen 5 5600g	-	All	All	All
Hardware	Amd	Ryzen 5 5600ge	-	All	All	All
Operating System	Amd	Ryzen 5 5600ge Firmware	-	All	All	All
Hardware	Amd	Ryzen 5 5600gt	-	All	All	All
Operating System	Amd	Ryzen 5 5600gt Firmware	-	All	All	All
Operating System	Amd	Ryzen 5 5600g Firmware	-	All	All	All
Hardware	Amd	Ryzen 5 6600h	-	All	All	All
Hardware	Amd	Ryzen 5 6600hs	-	All	All	All
Operating System	Amd	Ryzen 5 6600hs Firmware	-	All	All	All
Operating System	Amd	Ryzen 5 6600h Firmware	-	All	All	All
Hardware	Amd	Ryzen 5 6600u	-	All	All	All
Operating System	Amd	Ryzen 5 6600u Firmware	-	All	All	All
Hardware	Amd	Ryzen 5 7500f	-	All	All	All
Operating System	Amd	Ryzen 5 7500f Firmware	-	All	All	All
Hardware	Amd	Ryzen 5 7520u	-	All	All	All
Operating System	Amd	Ryzen 5 7520u Firmware	-	All	All	All
Hardware	Amd	Ryzen 5 7535hs	-	All	All	All
Operating System	Amd	Ryzen 5 7535hs Firmware	-	All	All	All
Hardware	Amd	Ryzen 5 7535u	-	All	All	All
Operating System	Amd	Ryzen 5 7535u Firmware	-	All	All	All
Hardware	Amd	Ryzen 5 7600	-	All	All	All
Hardware	Amd	Ryzen 5 7600x	-	All	All	All
Operating System	Amd	Ryzen 5 7600x Firmware	-	All	All	All
Operating System	Amd	Ryzen 5 7600 Firmware	-	All	All	All
Hardware	Amd	Ryzen 5 7640h	-	All	All	All
Operating System	Amd	Ryzen 5 7640h Firmware	-	All	All	All
Hardware	Amd	Ryzen 5 7645hx	-	All	All	All
Operating System	Amd	Ryzen 5 7645hx Firmware	-	All	All	All

Hardware	Amd	Ryzen 5 Pro 3350g	-	All	All	All
Hardware	Amd	Ryzen 5 Pro 3350ge	-	All	All	All
Operating System	Amd	Ryzen 5 Pro 3350ge Firmware	-	All	All	All
Operating System	Amd	Ryzen 5 Pro 3350g Firmware	-	All	All	All
Hardware	Amd	Ryzen 5 Pro 3400g	-	All	All	All
Hardware	Amd	Ryzen 5 Pro 3400ge	-	All	All	All
Operating System	Amd	Ryzen 5 Pro 3400ge Firmware	-	All	All	All
Operating System	Amd	Ryzen 5 Pro 3400g Firmware	-	All	All	All
Hardware	Amd	Ryzen 5 Pro 7540u	-	All	All	All
Operating System	Amd	Ryzen 5 Pro 7540u Firmware	-	All	All	All
Hardware	Amd	Ryzen 5 Pro 7545u	-	All	All	All
Operating System	Amd	Ryzen 5 Pro 7545u Firmware	-	All	All	All
Hardware	Amd	Ryzen 5 Pro 7640hs	-	All	All	All
Operating System	Amd	Ryzen 5 Pro 7640hs Firmware	-	All	All	All
Hardware	Amd	Ryzen 5 Pro 7640u	-	All	All	All
Operating System	Amd	Ryzen 5 Pro 7640u Firmware	-	All	All	All
Hardware	Amd	Ryzen 5 Pro 7645	-	All	All	All
Operating System	Amd	Ryzen 5 Pro 7645 Firmware	-	All	All	All
Hardware	Amd	Ryzen 7 4700g	-	All	All	All
Hardware	Amd	Ryzen 7 4700ge	-	All	All	All
Operating System	Amd	Ryzen 7 4700ge Firmware	-	All	All	All
Operating System	Amd	Ryzen 7 4700g Firmware	-	All	All	All
Hardware	Amd	Ryzen 7 4700u	-	All	All	All
Operating System	Amd	Ryzen 7 4700u Firmware	-	All	All	All
Hardware	Amd	Ryzen 7 4800h	-	All	All	All
Hardware	Amd	Ryzen 7 4800hs	-	All	All	All
Operating System	Amd	Ryzen 7 4800hs Firmware	-	All	All	All
Operating System	Amd	Ryzen 7 4800h Firmware	-	All	All	All
Hardware	Amd	Ryzen 7 4800u	-	All	All	All
Operating System	Amd	Ryzen 7 4800u Firmware	-	All	All	All
Hardware	Amd	Ryzen 7 4980u	-	All	All	All
Operating System	Amd	Ryzen 7 4980u Firmware	-	All	All	All
Hardware	Amd	Ryzen 7 5700g	-	All	All	All
Hardware	Amd	Ryzen 7 5700ge	-	All	All	All
Operating System	Amd	Ryzen 7 5700ge Firmware	-	All	All	All
Operating System	Amd	Ryzen 7 5700g Firmware	-	All	All	All

Operating System	Amd	Ryzen 7 5700g Firmware	-	All	All	All
Hardware	Amd	Ryzen 7 5700u	-	All	All	All
Operating System	Amd	Ryzen 7 5700u Firmware	-	All	All	All
Hardware	Amd	Ryzen 7 6800h	-	All	All	All
Hardware	Amd	Ryzen 7 6800hs	-	All	All	All
Operating System	Amd	Ryzen 7 6800hs Firmware	-	All	All	All
Operating System	Amd	Ryzen 7 6800h Firmware	-	All	All	All
Hardware	Amd	Ryzen 7 6800u	-	All	All	All
Operating System	Amd	Ryzen 7 6800u Firmware	-	All	All	All
Hardware	Amd	Ryzen 7 7700	-	All	All	All
Hardware	Amd	Ryzen 7 7700x	-	All	All	All
Operating System	Amd	Ryzen 7 7700x Firmware	-	All	All	All
Operating System	Amd	Ryzen 7 7700 Firmware	-	All	All	All
Hardware	Amd	Ryzen 7 7735hs	-	All	All	All
Operating System	Amd	Ryzen 7 7735hs Firmware	-	All	All	All
Hardware	Amd	Ryzen 7 7735u	-	All	All	All
Operating System	Amd	Ryzen 7 7735u Firmware	-	All	All	All
Hardware	Amd	Ryzen 7 7736u	-	All	All	All
Operating System	Amd	Ryzen 7 7736u Firmware	-	All	All	All
Hardware	Amd	Ryzen 7 7745hx	-	All	All	All
Operating System	Amd	Ryzen 7 7745hx Firmware	-	All	All	All
Hardware	Amd	Ryzen 7 7800x3d	-	All	All	All
Operating System	Amd	Ryzen 7 7800x3d Firmware	-	All	All	All
Hardware	Amd	Ryzen 7 7840h	-	All	All	All
Operating System	Amd	Ryzen 7 7840h Firmware	-	All	All	All
Hardware	Amd	Ryzen 7 Pro 7745	-	All	All	All
Operating System	Amd	Ryzen 7 Pro 7745 Firmware	-	All	All	All
Hardware	Amd	Ryzen 7 Pro 7840hs	-	All	All	All
Operating System	Amd	Ryzen 7 Pro 7840hs Firmware	-	All	All	All
Hardware	Amd	Ryzen 7 Pro 7840u	-	All	All	All
Operating System	Amd	Ryzen 7 Pro 7840u Firmware	-	All	All	All
Hardware	Amd	Ryzen 9 4900h	-	All	All	All
Hardware	Amd	Ryzen 9 4900hs	-	All	All	All
Operating System	Amd	Ryzen 9 4900hs Firmware	-	All	All	All
Operating System	Amd	Ryzen 9 4900h Firmware	-	All	All	All
Hardware	Amd	Ryzen 9 6900hs	-	All	All	All

Operating System	Amd	Ryzen 9 6900hs Firmware	-	All	All	All
Hardware	Amd	Ryzen 9 6900hx	-	All	All	All
Operating System	Amd	Ryzen 9 6900hx Firmware	-	All	All	All
Hardware	Amd	Ryzen 9 6980hs	-	All	All	All
Operating System	Amd	Ryzen 9 6980hs Firmware	-	All	All	All
Hardware	Amd	Ryzen 9 6980hx	-	All	All	All
Operating System	Amd	Ryzen 9 6980hx Firmware	-	All	All	All
Hardware	Amd	Ryzen 9 7845hx	-	All	All	All
Operating System	Amd	Ryzen 9 7845hx Firmware	-	All	All	All
Hardware	Amd	Ryzen 9 7900	-	All	All	All
Hardware	Amd	Ryzen 9 7900x	-	All	All	All
Hardware	Amd	Ryzen 9 7900x3d	-	All	All	All
Operating System	Amd	Ryzen 9 7900x3d Firmware	-	All	All	All
Operating System	Amd	Ryzen 9 7900x Firmware	-	All	All	All
Operating System	Amd	Ryzen 9 7900 Firmware	-	All	All	All
Hardware	Amd	Ryzen 9 7940h	-	All	All	All
Operating System	Amd	Ryzen 9 7940h Firmware	-	All	All	All
Hardware	Amd	Ryzen 9 7945hx	-	All	All	All
Hardware	Amd	Ryzen 9 7945hx3d	-	All	All	All
Operating System	Amd	Ryzen 9 7945hx3d Firmware	-	All	All	All
Operating System	Amd	Ryzen 9 7945hx Firmware	-	All	All	All
Hardware	Amd	Ryzen 9 7950x	-	All	All	All
Hardware	Amd	Ryzen 9 7950x3d	-	All	All	All
Operating System	Amd	Ryzen 9 7950x3d Firmware	-	All	All	All
Operating System	Amd	Ryzen 9 7950x Firmware	-	All	All	All
Hardware	Amd	Ryzen 9 Pro 7945	-	All	All	All
Hardware	Amd	Ryzen 9 Pro 7945hs	-	All	All	All
Operating System	Amd	Ryzen 9 Pro 7945hs Firmware	-	All	All	All
Operating System	Amd	Ryzen 9 Pro 7945 Firmware	-	All	All	All
Application	Imaginationtech	Ddk	All	All	All	All
Application	Khronos	Opencl	All	All	All	All
Application	Khronos	Vulkan	All	All	All	All

References

Reference	Source	Link	Tags
Vulkan® 1.3.275 - A Specification (with all registered extensions)		registry.khronos.org	Vendor Advisory

vulkan 1.3.273 - A Specification (with all registered extensions)	registry.khronos.org	Vendor Advisory
VU#446598 - GPU kernel implementations susceptible to memory leak	www.kb.cert.org	Third Party Advisory, US Govern
The OpenCL™ Specification	registry.khronos.org	Technical Description
Trail of Bits Blog	blog.trailofbits.com	Exploit, Mitigation, Third Party A
VU#446598 - GPU kernel implementations susceptible to memory leak	kb.cert.org	Third Party Advisory, US Govern
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

[379509](#) Khronos Group OpenCL/Vulkan Buffer Overflow Vulnerability (LeftoverLocals)

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