



CVE-2023-20589

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

Summary

CVE	CVE-2023-20589
State	PUBLIC
Assigner	psirt@amd.com
Source Priority	CVE Program / NVD first with legacy fallback
Published	2023-08-08 18:15:00 UTC
Updated	2023-08-22 18:34:00 UTC
Description	An attacker with specialized hardware and physical access to an impacted device may be able to perform a voltage fault inj

Risk And Classification

Problem Types: NVD-CWE-noinfo

NVD Known Affected Configurations (CPE 2.3)

Type	Vendor	Product	Version	Update	Edition	Language
Hardware	Amd	4700s	-	All	All	All
Operating System	Amd	4700s Firmware	-	All	All	All
Hardware	Amd	Athlon Gold 3150c	-	All	All	All
Operating System	Amd	Athlon Gold 3150c Firmware	-	All	All	All
Hardware	Amd	Athlon Gold 3150g	-	All	All	All
Hardware	Amd	Athlon Gold 3150ge	-	All	All	All
Operating System	Amd	Athlon Gold 3150ge Firmware	-	All	All	All
Operating System	Amd	Athlon Gold 3150g Firmware	-	All	All	All
Hardware	Amd	Athlon Gold 3150u	-	All	All	All
Operating System	Amd	Athlon Gold 3150u Firmware	-	All	All	All
Hardware	Amd	Athlon Gold Pro 3150g	-	All	All	All
Hardware	Amd	Athlon Gold Pro 3150ge	-	All	All	All
Operating System	Amd	Athlon Gold Pro 3150ge Firmware	-	All	All	All
Operating System	Amd	Athlon Gold Pro 3150g Firmware	-	All	All	All
Hardware	Amd	Athlon Pro 300ge	-	All	All	All
Operating System	Amd	Athlon Pro 300ge Firmware	-	All	All	All
Hardware	Amd	Athlon Pro 3045b	-	All	All	All

Operating System	Amd	Athlon Pro 3045b Firmware	-	All	All	All
Hardware	Amd	Athlon Pro 3145b	-	All	All	All
Operating System	Amd	Athlon Pro 3145b Firmware	-	All	All	All
Hardware	Amd	Athlon Silver 3050c	-	All	All	All
Operating System	Amd	Athlon Silver 3050c Firmware	-	All	All	All
Hardware	Amd	Athlon Silver 3050e	-	All	All	All
Operating System	Amd	Athlon Silver 3050e Firmware	-	All	All	All
Hardware	Amd	Athlon Silver 3050u	-	All	All	All
Operating System	Amd	Athlon Silver 3050u Firmware	-	All	All	All
Hardware	Amd	Ryzen 3 3100	-	All	All	All
Operating System	Amd	Ryzen 3 3100 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 3300x	-	All	All	All
Operating System	Amd	Ryzen 3 3300x Firmware	-	All	All	All
Hardware	Amd	Ryzen 3 4100	-	All	All	All
Operating System	Amd	Ryzen 3 4100 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 5100	-	All	All	All
Operating System	Amd	Ryzen 3 5100 Firmware	-	All	All	All
Hardware	Amd	Ryzen 3 5125c	-	All	All	All
Operating System	Amd	Ryzen 3 5125c 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 5400u	-	All	All	All
Operating System	Amd	Ryzen 3 5400u Firmware	-	All	All	All

Hardware	Amd	Ryzen 3 5425u	-	All	All	All
Operating System	Amd	Ryzen 3 5425u 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 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 3 Pro 7330u	-	All	All	All
Operating System	Amd	Ryzen 3 Pro 7330u 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 3500	-	All	All	All
Hardware	Amd	Ryzen 5 3500x	-	All	All	All
Operating System	Amd	Ryzen 5 3500x Firmware	-	All	All	All
Operating System	Amd	Ryzen 5 3500 Firmware	-	All	All	All
Hardware	Amd	Ryzen 5 3600	-	All	All	All
Hardware	Amd	Ryzen 5 3600x	-	All	All	All
Hardware	Amd	Ryzen 5 3600xt	-	All	All	All
Operating System	Amd	Ryzen 5 3600xt Firmware	-	All	All	All
Operating System	Amd	Ryzen 5 3600x Firmware	-	All	All	All
Operating System	Amd	Ryzen 5 3600 Firmware	-	All	All	All
Hardware	Amd	Ryzen 5 4500	-	All	All	All
Operating System	Amd	Ryzen 5 4500 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 5500	-	All	All	All
Hardware	Amd	Ryzen 5 5500u	-	All	All	All
Operating System	Amd	Ryzen 5 5500u Firmware	-	All	All	All
Operating System	Amd	Ryzen 5 5500 Firmware	-	All	All	All
Hardware	Amd	Ryzen 5 5560u	-	All	All	All

Operating System	Amd	Ryzen 5 5560u Firmware	-	All	All	All
Hardware	Amd	Ryzen 5 5600	-	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
Operating System	Amd	Ryzen 5 5600g Firmware	-	All	All	All
Hardware	Amd	Ryzen 5 5600h	-	All	All	All
Hardware	Amd	Ryzen 5 5600hs	-	All	All	All
Operating System	Amd	Ryzen 5 5600hs Firmware	-	All	All	All
Operating System	Amd	Ryzen 5 5600h Firmware	-	All	All	All
Hardware	Amd	Ryzen 5 5600u	-	All	All	All
Operating System	Amd	Ryzen 5 5600u Firmware	-	All	All	All
Hardware	Amd	Ryzen 5 5600x	-	All	All	All
Hardware	Amd	Ryzen 5 5600x3d	-	All	All	All
Operating System	Amd	Ryzen 5 5600x3d Firmware	-	All	All	All
Operating System	Amd	Ryzen 5 5600x Firmware	-	All	All	All
Operating System	Amd	Ryzen 5 5600 Firmware	-	All	All	All
Hardware	Amd	Ryzen 5 5625u	-	All	All	All
Operating System	Amd	Ryzen 5 5625u 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 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 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 5645	-	All	All	All
Operating System	Amd	Ryzen 5 Pro 5645 Firmware	-	All	All	All
Hardware	Amd	Ryzen 5 Pro 7530u	-	All	All	All
Operating System	Amd	Ryzen 5 Pro 7530u Firmware	-	All	All	All
Hardware	Amd	Ryzen 7 3700x	-	All	All	All
Operating System	Amd	Ryzen 7 3700x Firmware	-	All	All	All
Hardware	Amd	Ryzen 7 3800x	-	All	All	All
Hardware	Amd	Ryzen 7 3800xt	-	All	All	All
Operating System	Amd	Ryzen 7 3800xt Firmware	-	All	All	All
Operating System	Amd	Ryzen 7 3800x 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 5700	-	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
Hardware	Amd	Ryzen 7 5700u	-	All	All	All
Operating System	Amd	Ryzen 7 5700u Firmware	-	All	All	All
Hardware	Amd	Ryzen 7 5700x	-	All	All	All
Operating System	Amd	Ryzen 7 5700x Firmware	-	All	All	All
Operating System	Amd	Ryzen 7 5700 Firmware	-	All	All	All
Hardware	Amd	Ryzen 7 5800	-	All	All	All
Hardware	Amd	Ryzen 7 5800h	-	All	All	All
Hardware	Amd	Ryzen 7 5800hs	-	All	All	All
Operating System	Amd	Ryzen 7 5800hs Firmware	-	All	All	All
Operating System	Amd	Ryzen 7 5800h Firmware	-	All	All	All
Hardware	Amd	Ryzen 7 5800u	-	All	All	All
Operating System	Amd	Ryzen 7 5800u Firmware	-	All	All	All
Hardware	Amd	Ryzen 7 5800x	-	All	All	All

Hardware	Amd	Ryzen 7 5800x3d	-	All	All	All
Operating System	Amd	Ryzen 7 5800x3d Firmware	-	All	All	All
Operating System	Amd	Ryzen 7 5800x Firmware	-	All	All	All
Operating System	Amd	Ryzen 7 5800 Firmware	-	All	All	All
Hardware	Amd	Ryzen 7 5825u	-	All	All	All
Operating System	Amd	Ryzen 7 5825u 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 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 Pro 5845	-	All	All	All
Operating System	Amd	Ryzen 7 Pro 5845 Firmware	-	All	All	All
Hardware	Amd	Ryzen 7 Pro 7730u	-	All	All	All
Operating System	Amd	Ryzen 7 Pro 7730u Firmware	-	All	All	All
Hardware	Amd	Ryzen 9 3900	-	All	All	All
Hardware	Amd	Ryzen 9 3900x	-	All	All	All
Hardware	Amd	Ryzen 9 3900xt	-	All	All	All
Operating System	Amd	Ryzen 9 3900xt Firmware	-	All	All	All
Operating System	Amd	Ryzen 9 3900x Firmware	-	All	All	All
Operating System	Amd	Ryzen 9 3900 Firmware	-	All	All	All
Hardware	Amd	Ryzen 9 3950x	-	All	All	All
Operating System	Amd	Ryzen 9 3950x Firmware	-	All	All	All
Hardware	Amd	Ryzen 9 5900	-	All	All	All
Hardware	Amd	Ryzen 9 5900hs	-	All	All	All
Operating System	Amd	Ryzen 9 5900hs Firmware	-	All	All	All
Hardware	Amd	Ryzen 9 5900hx	-	All	All	All
Operating System	Amd	Ryzen 9 5900hx Firmware	-	All	All	All
Hardware	Amd	Ryzen 9 5900u	-	All	All	All

Hardware	Amd	Ryzen 9 5900x	-	All	All	All
Operating System	Amd	Ryzen 9 5900x Firmware	-	All	All	All
Operating System	Amd	Ryzen 9 5900 Firmware	-	All	All	All
Hardware	Amd	Ryzen 9 5950x	-	All	All	All
Operating System	Amd	Ryzen 9 5950x Firmware	-	All	All	All
Hardware	Amd	Ryzen 9 5980hs	-	All	All	All
Operating System	Amd	Ryzen 9 5980hs Firmware	-	All	All	All
Hardware	Amd	Ryzen 9 5980hx	-	All	All	All
Operating System	Amd	Ryzen 9 5980hx 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 Pro 5945	-	All	All	All
Operating System	Amd	Ryzen 9 Pro 5945 Firmware	-	All	All	All
Hardware	Amd	Ryzen Threadripper 2920x	-	All	All	All
Operating System	Amd	Ryzen Threadripper 2920x Firmware	-	All	All	All
Hardware	Amd	Ryzen Threadripper 2950x	-	All	All	All
Operating System	Amd	Ryzen Threadripper 2950x Firmware	-	All	All	All
Hardware	Amd	Ryzen Threadripper 2970wx	-	All	All	All
Operating System	Amd	Ryzen Threadripper 2970wx Firmware	-	All	All	All
Hardware	Amd	Ryzen Threadripper 2990wx	-	All	All	All
Operating System	Amd	Ryzen Threadripper 2990wx Firmware	-	All	All	All
Hardware	Amd	Ryzen Threadripper 3960x	-	All	All	All
Operating System	Amd	Ryzen Threadripper 3960x Firmware	-	All	All	All
Hardware	Amd	Ryzen Threadripper 3970x	-	All	All	All
Operating System	Amd	Ryzen Threadripper 3970x Firmware	-	All	All	All
Hardware	Amd	Ryzen Threadripper 3990x	-	All	All	All
Operating System	Amd	Ryzen Threadripper 3990x Firmware	-	All	All	All
Hardware	Amd	Ryzen Threadripper Pro 3945wx	-	All	All	All
Operating System	Amd	Ryzen Threadripper Pro 3945wx Firmware	-	All	All	All
Hardware	Amd	Ryzen Threadripper Pro 3955wx	-	All	All	All

Operating System	Amd	Ryzen Threadripper Pro 3955wx Firmware	-	All	All	All
Hardware	Amd	Ryzen Threadripper Pro 3975wx	-	All	All	All
Operating System	Amd	Ryzen Threadripper Pro 3975wx Firmware	-	All	All	All
Hardware	Amd	Ryzen Threadripper Pro 3995wx	-	All	All	All
Operating System	Amd	Ryzen Threadripper Pro 3995wx Firmware	-	All	All	All
Hardware	Amd	Ryzen Threadripper Pro 5945wx	-	All	All	All
Operating System	Amd	Ryzen Threadripper Pro 5945wx Firmware	-	All	All	All
Hardware	Amd	Ryzen Threadripper Pro 5955wx	-	All	All	All
Operating System	Amd	Ryzen Threadripper Pro 5955wx Firmware	-	All	All	All
Hardware	Amd	Ryzen Threadripper Pro 5965wx	-	All	All	All
Operating System	Amd	Ryzen Threadripper Pro 5965wx Firmware	-	All	All	All
Hardware	Amd	Ryzen Threadripper Pro 5975wx	-	All	All	All
Operating System	Amd	Ryzen Threadripper Pro 5975wx Firmware	-	All	All	All
Hardware	Amd	Ryzen Threadripper Pro 5995wx	-	All	All	All
Operating System	Amd	Ryzen Threadripper Pro 5995wx Firmware	-	All	All	All

References

Reference	Source	Link	Tags
www.amd.com/en/corporate/product-security/bulletin/AMD-SB-4005	MISC	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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