



CVE-2020-12931

[MITRE](#)[NVD](#)[CVE.ORG](#)[Print: PDF](#)

Summary

CVE	CVE-2020-12931
State	PUBLIC
Assigner	psirt@amd.com
Source Priority	CVE Program / NVD first with legacy fallback
Published	2022-11-09 21:15:00 UTC
Updated	2022-11-23 13:58:00 UTC
Description	Improper parameters handling in the AMD Secure Processor (ASP) kernel may allow a privileged attacker to elevate their p

Risk And Classification

Problem Types: NVD-CWE-Other

NVD Known Affected Configurations (CPE 2.3)

Type	Vendor	Product	Version	Update	Edition	Language
Hardware	Amd	Amd 3015ce	-	All	All	All
Operating System	Amd	Amd 3015ce Firmware	-	All	All	All
Hardware	Amd	Amd 3015e	-	All	All	All
Operating System	Amd	Amd 3015e Firmware	-	All	All	All
Hardware	Amd	Amd 3020e	-	All	All	All
Operating System	Amd	Amd 3020e 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 3150u	-	All	All	All
Operating System	Amd	Athlon Gold 3150u 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
Application	Amd	Enterprise Driver	All	All	All	All
Application	Amd	Radeon Pro Software	All	All	All	All
Hardware	Amd	Radeon Pro W5500	-	All	All	All
Hardware	Amd	Radeon Pro W5500x	-	All	All	All
Hardware	Amd	Radeon Pro W5700	-	All	All	All
Hardware	Amd	Radeon Pro W5700x	-	All	All	All
Hardware	Amd	Radeon Rx 5300	-	All	All	All
Hardware	Amd	Radeon Rx 5300m	-	All	All	All
Hardware	Amd	Radeon Rx 5300 Xt	-	All	All	All
Hardware	Amd	Radeon Rx 5500	-	All	All	All
Hardware	Amd	Radeon Rx 5500m	-	All	All	All
Hardware	Amd	Radeon Rx 5500 Xt	-	All	All	All
Hardware	Amd	Radeon Rx 5600	-	All	All	All
Hardware	Amd	Radeon Rx 5600m	-	All	All	All
Hardware	Amd	Radeon Rx 5600 Xt	-	All	All	All
Hardware	Amd	Radeon Rx 5700	-	All	All	All
Hardware	Amd	Radeon Rx 5700m	-	All	All	All
Hardware	Amd	Radeon Rx 5700 Xt	-	All	All	All
Application	Amd	Radeon Software	All	All	All	All
Hardware	Amd	Ryzen 3 2200g	-	All	All	All
Hardware	Amd	Ryzen 3 2200ge	-	All	All	All
Operating System	Amd	Ryzen 3 2200ge Firmware	-	All	All	All
Operating System	Amd	Ryzen 3 2200g Firmware	-	All	All	All
Hardware	Amd	Ryzen 3 2200u	-	All	All	All
Operating System	Amd	Ryzen 3 2200u Firmware	-	All	All	All
Hardware	Amd	Ryzen 3 2300u	-	All	All	All
Operating System	Amd	Ryzen 3 2300u 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
Operating System	Amd	Ryzen 3 3200g 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 3300u	-	All	All	All
Operating System	Amd	Ryzen 3 3300u 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 3350u	-	All	All	All
Operating System	Amd	Ryzen 3 3350u 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 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 2400g	-	All	All	All
Hardware	Amd	Ryzen 5 2400ge	-	All	All	All
Operating System	Amd	Ryzen 5 2400ge Firmware	-	All	All	All
Operating System	Amd	Ryzen 5 2400g Firmware	-	All	All	All
Hardware	Amd	Ryzen 5 2500u	-	All	All	All
Operating System	Amd	Ryzen 5 2500u Firmware	-	All	All	All
Hardware	Amd	Ryzen 5 2600h	-	All	All	All
Operating System	Amd	Ryzen 5 2600h 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 3450u	-	All	All	All
Operating System	Amd	Ryzen 5 3450u Firmware	-	All	All	All
Hardware	Amd	Ryzen 5 3500	-	All	All	All
Hardware	Amd	Ryzen 5 3500c	-	All	All	All

Operating System	Amd	Ryzen 5 3500c Firmware	-	All	All	All
Hardware	Amd	Ryzen 5 3500u	-	All	All	All
Operating System	Amd	Ryzen 5 3500u Firmware	-	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 3550h	-	All	All	All
Operating System	Amd	Ryzen 5 3550h Firmware	-	All	All	All
Hardware	Amd	Ryzen 5 3580u	-	All	All	All
Operating System	Amd	Ryzen 5 3580u 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 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
Operating System	Amd	Ryzen 5 5600x Firmware	-	All	All	All
Operating System	Amd	Ryzen 5 5600 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 7 2700u	-	All	All	All
Operating System	Amd	Ryzen 7 2700u Firmware	-	All	All	All
Hardware	Amd	Ryzen 7 2800h	-	All	All	All
Operating System	Amd	Ryzen 7 2800h Firmware	-	All	All	All
Hardware	Amd	Ryzen 7 3700c	-	All	All	All
Operating System	Amd	Ryzen 7 3700c Firmware	-	All	All	All
Hardware	Amd	Ryzen 7 3700u	-	All	All	All
Operating System	Amd	Ryzen 7 3700u 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 3750h	-	All	All	All
Operating System	Amd	Ryzen 7 3750h Firmware	-	All	All	All
Hardware	Amd	Ryzen 7 3780u	-	All	All	All
Operating System	Amd	Ryzen 7 3780u 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 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
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 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 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 Threadripper 3960x	-	All	All	All
Operating System	Amd	Ryzen Threadripper 3960x Firmware	-	All	All	All
Hardware	Amd	Ryzen Threadripper 3970x	-	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
AMD Graphics Driver Vulnerabilities – November 2022 AMD	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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