



CVE-2021-46794

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

Summary

CVE	CVE-2021-46794
State	PUBLIC
Assigner	psirt@amd.com
Source Priority	CVE Program / NVD first with legacy fallback
Published	2023-05-09 20:15:00 UTC
Updated	2023-05-22 13:57:00 UTC
Description	Insufficient bounds checking in ASP (AMD Secure Processor) may allow for an out of bounds read in SMI (System Manage

Risk And Classification

Problem Types: CWE-125

NVD Known Affected Configurations (CPE 2.3)

Type	Vendor	Product	Version	Update	Edition	Language
Hardware	Amd	Athlon Gold 3150g	-	All	All	All
Hardware	Amd	Athlon Gold 3150ge	-	All	All	All
Operating System	Amd	Athlon Gold 3150ge Firmware	picassopi-fp5_1.0.0.e	All	All	All
Operating System	Amd	Athlon Gold 3150ge Firmware	pollockpi-ft5_1.0.0.4	All	All	All
Operating System	Amd	Athlon Gold 3150g Firmware	picassopi-fp5_1.0.0.e	All	All	All
Operating System	Amd	Athlon Gold 3150g Firmware	pollockpi-ft5_1.0.0.4	All	All	All
Hardware	Amd	Athlon Silver 3050ge	-	All	All	All
Operating System	Amd	Athlon Silver 3050ge Firmware	picassopi-fp5_1.0.0.e	All	All	All
Operating System	Amd	Athlon Silver 3050ge Firmware	pollockpi-ft5_1.0.0.4	All	All	All
Hardware	Amd	Ryzen 1200 Af	-	All	All	All
Operating System	Amd	Ryzen 1200 Af Firmware	comboam4pi_1.0.0.9	All	All	All
Operating System	Amd	Ryzen 1200 Af Firmware	comboam4v2_pi_1.2.0.8	All	All	All
Operating System	Amd	Ryzen 1200 Af Firmware	pinnaclepi-am4_1.0.0.d	All	All	All
Operating System	Amd	Ryzen 1200 Af Firmware	raven-fp5-am4_1.1.0.f	All	All	All
Hardware	Amd	Ryzen 1600 Af	-	All	All	All
Operating System	Amd	Ryzen 1600 Af Firmware	comboam4pi_1.0.0.9	All	All	All
Operating System	Amd	Ryzen 1600 Af Firmware	comboam4v2_pi_1.2.0.8	All	All	All

Operating System	Amd	Ryzen 1600 Af Firmware	pinnaclepi-am4_1.0.0.d	All	All	All
Operating System	Amd	Ryzen 1600 Af Firmware	raven-fp5-am4_1.1.0.f	All	All	All
Hardware	Amd	Ryzen 2200g	-	All	All	All
Hardware	Amd	Ryzen 2200ge	-	All	All	All
Operating System	Amd	Ryzen 2200ge Firmware	comboam4pi_1.0.0.9	All	All	All
Operating System	Amd	Ryzen 2200ge Firmware	comboam4v2_pi_1.2.0.8	All	All	All
Operating System	Amd	Ryzen 2200ge Firmware	pinnaclepi-am4_1.0.0.d	All	All	All
Operating System	Amd	Ryzen 2200ge Firmware	raven-fp5-am4_1.1.0.f	All	All	All
Operating System	Amd	Ryzen 2200g Firmware	comboam4pi_1.0.0.9	All	All	All
Operating System	Amd	Ryzen 2200g Firmware	comboam4v2_pi_1.2.0.8	All	All	All
Operating System	Amd	Ryzen 2200g Firmware	pinnaclepi-am4_1.0.0.d	All	All	All
Operating System	Amd	Ryzen 2200g Firmware	raven-fp5-am4_1.1.0.f	All	All	All
Hardware	Amd	Ryzen 2300x	-	All	All	All
Operating System	Amd	Ryzen 2300x Firmware	comboam4pi_1.0.0.9	All	All	All
Operating System	Amd	Ryzen 2300x Firmware	comboam4v2_pi_1.2.0.8	All	All	All
Operating System	Amd	Ryzen 2300x Firmware	pinnaclepi-am4_1.0.0.d	All	All	All
Operating System	Amd	Ryzen 2300x Firmware	raven-fp5-am4_1.1.0.f	All	All	All
Hardware	Amd	Ryzen 2400g	-	All	All	All
Hardware	Amd	Ryzen 2400ge	-	All	All	All
Operating System	Amd	Ryzen 2400ge Firmware	comboam4pi_1.0.0.9	All	All	All
Operating System	Amd	Ryzen 2400ge Firmware	comboam4v2_pi_1.2.0.8	All	All	All
Operating System	Amd	Ryzen 2400ge Firmware	pinnaclepi-am4_1.0.0.d	All	All	All
Operating System	Amd	Ryzen 2400ge Firmware	raven-fp5-am4_1.1.0.f	All	All	All
Operating System	Amd	Ryzen 2400g Firmware	comboam4pi_1.0.0.9	All	All	All
Operating System	Amd	Ryzen 2400g Firmware	comboam4v2_pi_1.2.0.8	All	All	All
Operating System	Amd	Ryzen 2400g Firmware	pinnaclepi-am4_1.0.0.d	All	All	All
Operating System	Amd	Ryzen 2400g Firmware	raven-fp5-am4_1.1.0.f	All	All	All
Hardware	Amd	Ryzen 2500x	-	All	All	All
Operating System	Amd	Ryzen 2500x Firmware	comboam4pi_1.0.0.9	All	All	All
Operating System	Amd	Ryzen 2500x Firmware	comboam4v2_pi_1.2.0.8	All	All	All
Operating System	Amd	Ryzen 2500x Firmware	pinnaclepi-am4_1.0.0.d	All	All	All
Operating System	Amd	Ryzen 2500x Firmware	raven-fp5-am4_1.1.0.f	All	All	All
Hardware	Amd	Ryzen 2600	-	All	All	All
Hardware	Amd	Ryzen 2600e	-	All	All	All
Operating System	Amd	Ryzen 2600e Firmware	comboam4pi_1.0.0.9	All	All	All

Operating System	Amd	Ryzen 2600e Firmware	comboam4v2_pi_1.2.0.8	All	All	All
Operating System	Amd	Ryzen 2600e Firmware	pinnaclepi-am4_1.0.0.d	All	All	All
Operating System	Amd	Ryzen 2600e Firmware	raven-fp5-am4_1.1.0.f	All	All	All
Hardware	Amd	Ryzen 2600x	-	All	All	All
Operating System	Amd	Ryzen 2600x Firmware	comboam4pi_1.0.0.9	All	All	All
Operating System	Amd	Ryzen 2600x Firmware	comboam4v2_pi_1.2.0.8	All	All	All
Operating System	Amd	Ryzen 2600x Firmware	pinnaclepi-am4_1.0.0.d	All	All	All
Operating System	Amd	Ryzen 2600x Firmware	raven-fp5-am4_1.1.0.f	All	All	All
Operating System	Amd	Ryzen 2600 Firmware	comboam4pi_1.0.0.9	All	All	All
Operating System	Amd	Ryzen 2600 Firmware	comboam4v2_pi_1.2.0.8	All	All	All
Operating System	Amd	Ryzen 2600 Firmware	pinnaclepi-am4_1.0.0.d	All	All	All
Operating System	Amd	Ryzen 2600 Firmware	raven-fp5-am4_1.1.0.f	All	All	All
Hardware	Amd	Ryzen 2700	-	All	All	All
Hardware	Amd	Ryzen 2700e	-	All	All	All
Operating System	Amd	Ryzen 2700e Firmware	comboam4pi_1.0.0.9	All	All	All
Operating System	Amd	Ryzen 2700e Firmware	comboam4v2_pi_1.2.0.8	All	All	All
Operating System	Amd	Ryzen 2700e Firmware	pinnaclepi-am4_1.0.0.d	All	All	All
Operating System	Amd	Ryzen 2700e Firmware	raven-fp5-am4_1.1.0.f	All	All	All
Hardware	Amd	Ryzen 2700x	-	All	All	All
Operating System	Amd	Ryzen 2700x Firmware	comboam4pi_1.0.0.9	All	All	All
Operating System	Amd	Ryzen 2700x Firmware	comboam4v2_pi_1.2.0.8	All	All	All
Operating System	Amd	Ryzen 2700x Firmware	pinnaclepi-am4_1.0.0.d	All	All	All
Operating System	Amd	Ryzen 2700x Firmware	raven-fp5-am4_1.1.0.f	All	All	All
Operating System	Amd	Ryzen 2700 Firmware	comboam4pi_1.0.0.9	All	All	All
Operating System	Amd	Ryzen 2700 Firmware	comboam4v2_pi_1.2.0.8	All	All	All
Operating System	Amd	Ryzen 2700 Firmware	pinnaclepi-am4_1.0.0.d	All	All	All
Operating System	Amd	Ryzen 2700 Firmware	raven-fp5-am4_1.1.0.f	All	All	All
Hardware	Amd	Ryzen 2920x	-	All	All	All
Operating System	Amd	Ryzen 2920x Firmware	comboam4pi_1.0.0.9	All	All	All
Operating System	Amd	Ryzen 2920x Firmware	comboam4v2_pi_1.2.0.8	All	All	All
Operating System	Amd	Ryzen 2920x Firmware	pinnaclepi-am4_1.0.0.d	All	All	All
Operating System	Amd	Ryzen 2920x Firmware	raven-fp5-am4_1.1.0.f	All	All	All
Hardware	Amd	Ryzen 2950x	-	All	All	All
Operating System	Amd	Ryzen 2950x Firmware	comboam4pi_1.0.0.9	All	All	All
Operating System	Amd	Ryzen 2950x Firmware	comboam4v2_pi_1.2.0.8	All	All	All

Operating System	Amd	Hyzen 2950x Firmware	pinnaclepi-am4_1.0.0.d	All	All	All
Operating System	Amd	Ryzen 2950x Firmware	raven-fp5-am4_1.1.0.f	All	All	All
Hardware	Amd	Ryzen 2970wx	-	All	All	All
Operating System	Amd	Ryzen 2970wx Firmware	comboam4pi_1.0.0.9	All	All	All
Operating System	Amd	Ryzen 2970wx Firmware	comboam4v2_pi_1.2.0.8	All	All	All
Operating System	Amd	Ryzen 2970wx Firmware	pinnaclepi-am4_1.0.0.d	All	All	All
Operating System	Amd	Ryzen 2970wx Firmware	raven-fp5-am4_1.1.0.f	All	All	All
Hardware	Amd	Ryzen 2990wx	-	All	All	All
Operating System	Amd	Ryzen 2990wx Firmware	comboam4pi_1.0.0.9	All	All	All
Operating System	Amd	Ryzen 2990wx Firmware	comboam4v2_pi_1.2.0.8	All	All	All
Operating System	Amd	Ryzen 2990wx Firmware	pinnaclepi-am4_1.0.0.d	All	All	All
Operating System	Amd	Ryzen 2990wx Firmware	raven-fp5-am4_1.1.0.f	All	All	All
Hardware	Amd	Ryzen 3100	-	All	All	All
Operating System	Amd	Ryzen 3100 Firmware	comboam4pi_1.0.0.9	All	All	All
Operating System	Amd	Ryzen 3100 Firmware	comboam4v2_pi_1.2.0.5	All	All	All
Operating System	Amd	Ryzen 3100 Firmware	comboam4v2_pi_1.2.0.8	All	All	All
Operating System	Amd	Ryzen 3100 Firmware	picassopi-fp5_1.0.0.e	All	All	All
Operating System	Amd	Ryzen 3100 Firmware	renoirpi-fp6_1.0.0.7	All	All	All
Hardware	Amd	Ryzen 3300x	-	All	All	All
Operating System	Amd	Ryzen 3300x Firmware	comboam4pi_1.0.0.9	All	All	All
Operating System	Amd	Ryzen 3300x Firmware	comboam4v2_pi_1.2.0.5	All	All	All
Operating System	Amd	Ryzen 3300x Firmware	comboam4v2_pi_1.2.0.8	All	All	All
Operating System	Amd	Ryzen 3300x Firmware	picassopi-fp5_1.0.0.e	All	All	All
Operating System	Amd	Ryzen 3300x Firmware	renoirpi-fp6_1.0.0.7	All	All	All
Hardware	Amd	Ryzen 3500	-	All	All	All
Hardware	Amd	Ryzen 3500x	-	All	All	All
Operating System	Amd	Ryzen 3500x Firmware	comboam4pi_1.0.0.9	All	All	All
Operating System	Amd	Ryzen 3500x Firmware	comboam4v2_pi_1.2.0.5	All	All	All
Operating System	Amd	Ryzen 3500x Firmware	comboam4v2_pi_1.2.0.8	All	All	All
Operating System	Amd	Ryzen 3500x Firmware	picassopi-fp5_1.0.0.e	All	All	All
Operating System	Amd	Ryzen 3500x Firmware	renoirpi-fp6_1.0.0.7	All	All	All
Operating System	Amd	Ryzen 3500 Firmware	comboam4pi_1.0.0.9	All	All	All
Operating System	Amd	Ryzen 3500 Firmware	comboam4v2_pi_1.2.0.5	All	All	All
Operating System	Amd	Ryzen 3500 Firmware	comboam4v2_pi_1.2.0.8	All	All	All
Operating System	Amd	Ryzen 3500 Firmware	picassopi-fp5_1.0.0.e	All	All	All
Operating System	Amd	Ryzen 3500 Firmware	renoirpi-fp6_1.0.0.7	All	All	All

Hardware	Amd	Ryzen 3600	-	All	All	All
Hardware	Amd	Ryzen 3600x	-	All	All	All
Hardware	Amd	Ryzen 3600xt	-	All	All	All
Operating System	Amd	Ryzen 3600xt Firmware	comboam4pi_1.0.0.9	All	All	All
Operating System	Amd	Ryzen 3600xt Firmware	comboam4v2_pi_1.2.0.5	All	All	All
Operating System	Amd	Ryzen 3600xt Firmware	comboam4v2_pi_1.2.0.8	All	All	All
Operating System	Amd	Ryzen 3600xt Firmware	picassopi-fp5_1.0.0.e	All	All	All
Operating System	Amd	Ryzen 3600xt Firmware	renoirpi-fp6_1.0.0.7	All	All	All
Operating System	Amd	Ryzen 3600x Firmware	comboam4pi_1.0.0.9	All	All	All
Operating System	Amd	Ryzen 3600x Firmware	comboam4v2_pi_1.2.0.5	All	All	All
Operating System	Amd	Ryzen 3600x Firmware	comboam4v2_pi_1.2.0.8	All	All	All
Operating System	Amd	Ryzen 3600x Firmware	picassopi-fp5_1.0.0.e	All	All	All
Operating System	Amd	Ryzen 3600x Firmware	renoirpi-fp6_1.0.0.7	All	All	All
Operating System	Amd	Ryzen 3600 Firmware	comboam4pi_1.0.0.9	All	All	All
Operating System	Amd	Ryzen 3600 Firmware	comboam4v2_pi_1.2.0.5	All	All	All
Operating System	Amd	Ryzen 3600 Firmware	comboam4v2_pi_1.2.0.8	All	All	All
Operating System	Amd	Ryzen 3600 Firmware	picassopi-fp5_1.0.0.e	All	All	All
Operating System	Amd	Ryzen 3600 Firmware	renoirpi-fp6_1.0.0.7	All	All	All
Hardware	Amd	Ryzen 3800x	-	All	All	All
Hardware	Amd	Ryzen 3800xt	-	All	All	All
Operating System	Amd	Ryzen 3800xt Firmware	comboam4pi_1.0.0.9	All	All	All
Operating System	Amd	Ryzen 3800xt Firmware	comboam4v2_pi_1.2.0.5	All	All	All
Operating System	Amd	Ryzen 3800xt Firmware	comboam4v2_pi_1.2.0.8	All	All	All
Operating System	Amd	Ryzen 3800xt Firmware	picassopi-fp5_1.0.0.e	All	All	All
Operating System	Amd	Ryzen 3800xt Firmware	renoirpi-fp6_1.0.0.7	All	All	All
Operating System	Amd	Ryzen 3800x Firmware	comboam4pi_1.0.0.9	All	All	All
Operating System	Amd	Ryzen 3800x Firmware	comboam4v2_pi_1.2.0.5	All	All	All
Operating System	Amd	Ryzen 3800x Firmware	comboam4v2_pi_1.2.0.8	All	All	All
Operating System	Amd	Ryzen 3800x Firmware	picassopi-fp5_1.0.0.e	All	All	All
Operating System	Amd	Ryzen 3800x Firmware	renoirpi-fp6_1.0.0.7	All	All	All
Hardware	Amd	Ryzen 3900	-	All	All	All
Hardware	Amd	Ryzen 3900x	-	All	All	All
Hardware	Amd	Ryzen 3900xt	-	All	All	All
Operating System	Amd	Ryzen 3900xt Firmware	comboam4pi_1.0.0.9	All	All	All
Operating System	Amd	Ryzen 3900xt Firmware	comboam4v2_pi_1.2.0.5	All	All	All

Operating System	Amd	Ryzen 3900xt Firmware	comboam4v2_pi_1.2.0.8	All	All	All
Operating System	Amd	Ryzen 3900xt Firmware	picassopi-fp5_1.0.0.e	All	All	All
Operating System	Amd	Ryzen 3900xt Firmware	renoirpi-fp6_1.0.0.7	All	All	All
Operating System	Amd	Ryzen 3900x Firmware	comboam4pi_1.0.0.9	All	All	All
Operating System	Amd	Ryzen 3900x Firmware	comboam4v2_pi_1.2.0.5	All	All	All
Operating System	Amd	Ryzen 3900x Firmware	comboam4v2_pi_1.2.0.8	All	All	All
Operating System	Amd	Ryzen 3900x Firmware	picassopi-fp5_1.0.0.e	All	All	All
Operating System	Amd	Ryzen 3900x Firmware	renoirpi-fp6_1.0.0.7	All	All	All
Operating System	Amd	Ryzen 3900 Firmware	comboam4pi_1.0.0.9	All	All	All
Operating System	Amd	Ryzen 3900 Firmware	comboam4v2_pi_1.2.0.5	All	All	All
Operating System	Amd	Ryzen 3900 Firmware	comboam4v2_pi_1.2.0.8	All	All	All
Operating System	Amd	Ryzen 3900 Firmware	picassopi-fp5_1.0.0.e	All	All	All
Operating System	Amd	Ryzen 3900 Firmware	renoirpi-fp6_1.0.0.7	All	All	All
Hardware	Amd	Ryzen 3950x	-	All	All	All
Operating System	Amd	Ryzen 3950x Firmware	comboam4pi_1.0.0.9	All	All	All
Operating System	Amd	Ryzen 3950x Firmware	comboam4v2_pi_1.2.0.5	All	All	All
Operating System	Amd	Ryzen 3950x Firmware	comboam4v2_pi_1.2.0.8	All	All	All
Operating System	Amd	Ryzen 3950x Firmware	picassopi-fp5_1.0.0.e	All	All	All
Operating System	Amd	Ryzen 3950x Firmware	renoirpi-fp6_1.0.0.7	All	All	All
Hardware	Amd	Ryzen 5300g	-	All	All	All
Hardware	Amd	Ryzen 5300ge	-	All	All	All
Operating System	Amd	Ryzen 5300ge Firmware	cezannepi-fp6_1.0.0.6	All	All	All
Operating System	Amd	Ryzen 5300g Firmware	cezannepi-fp6_1.0.0.6	All	All	All
Hardware	Amd	Ryzen 5500	-	All	All	All
Operating System	Amd	Ryzen 5500 Firmware	cezannepi-fp6_1.0.0.6	All	All	All
Hardware	Amd	Ryzen 5600	-	All	All	All
Hardware	Amd	Ryzen 5600g	-	All	All	All
Hardware	Amd	Ryzen 5600ge	-	All	All	All
Operating System	Amd	Ryzen 5600ge Firmware	cezannepi-fp6_1.0.0.6	All	All	All
Operating System	Amd	Ryzen 5600g Firmware	cezannepi-fp6_1.0.0.6	All	All	All
Hardware	Amd	Ryzen 5600x	-	All	All	All
Operating System	Amd	Ryzen 5600x Firmware	cezannepi-fp6_1.0.0.6	All	All	All
Operating System	Amd	Ryzen 5600 Firmware	cezannepi-fp6_1.0.0.6	All	All	All
Hardware	Amd	Ryzen 5700g	-	All	All	All
Hardware	Amd	Ryzen 5700ge	-	All	All	All
Operating System	Amd	Ryzen 5700ge Firmware	cezannepi-fp6_1.0.0.6	All	All	All

Operating System	Amd	Ryzen 5700g Firmware	cezannepi-rpb_1.0.0.6	All	All	All
Operating System	Amd	Ryzen 5700g Firmware	cezannepi-fp6_1.0.0.6	All	All	All
Hardware	Amd	Ryzen 5700x	-	All	All	All
Operating System	Amd	Ryzen 5700x Firmware	cezannepi-fp6_1.0.0.6	All	All	All
Hardware	Amd	Ryzen 5800	-	All	All	All
Hardware	Amd	Ryzen 5800x	-	All	All	All
Hardware	Amd	Ryzen 5800x3d	-	All	All	All
Operating System	Amd	Ryzen 5800x3d Firmware	cezannepi-fp6_1.0.0.6	All	All	All
Operating System	Amd	Ryzen 5800x Firmware	cezannepi-fp6_1.0.0.6	All	All	All
Operating System	Amd	Ryzen 5800 Firmware	cezannepi-fp6_1.0.0.6	All	All	All
Hardware	Amd	Ryzen 5900	-	All	All	All
Hardware	Amd	Ryzen 5900x	-	All	All	All
Operating System	Amd	Ryzen 5900x Firmware	cezannepi-fp6_1.0.0.6	All	All	All
Operating System	Amd	Ryzen 5900 Firmware	cezannepi-fp6_1.0.0.6	All	All	All
Hardware	Amd	Ryzen 5945wx	-	All	All	All
Operating System	Amd	Ryzen 5945wx Firmware	cezannepi-fp6_1.0.0.6	All	All	All
Hardware	Amd	Ryzen 5950x	-	All	All	All
Operating System	Amd	Ryzen 5950x Firmware	cezannepi-fp6_1.0.0.6	All	All	All
Hardware	Amd	Ryzen 5955wx	-	All	All	All
Operating System	Amd	Ryzen 5955wx Firmware	cezannepi-fp6_1.0.0.6	All	All	All
Hardware	Amd	Ryzen 5965wx	-	All	All	All
Operating System	Amd	Ryzen 5965wx Firmware	cezannepi-fp6_1.0.0.6	All	All	All
Hardware	Amd	Ryzen 5975wx	-	All	All	All
Operating System	Amd	Ryzen 5975wx Firmware	cezannepi-fp6_1.0.0.6	All	All	All
Hardware	Amd	Ryzen 5995wx	-	All	All	All
Operating System	Amd	Ryzen 5995wx Firmware	cezannepi-fp6_1.0.0.6	All	All	All
Hardware	Amd	Ryzen Pro 2100ge	-	All	All	All
Operating System	Amd	Ryzen Pro 2100ge Firmware	comboam4pi_1.0.0.9	All	All	All
Operating System	Amd	Ryzen Pro 2100ge Firmware	comboam4v2_pi_1.2.0.8	All	All	All
Operating System	Amd	Ryzen Pro 2100ge Firmware	pinnaclepi-am4_1.0.0.d	All	All	All
Operating System	Amd	Ryzen Pro 2100ge Firmware	raven-fp5-am4_1.1.0.f	All	All	All

References

Reference	Source	Link	Tags
www.amd.com/en/corporate/product-security/bulletin/AMD-SB-4001	MISC	www.amd.com	
CVE Program record	CVE.ORG	www.cve.org	canonical

No vendor comments have been submitted for this CVE.

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

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