



CVE-2021-46792

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

Summary

CVE	CVE-2021-46792
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 15:38:00 UTC
Description	Time-of-check Time-of-use (TOCTOU) in the BIOS2PSP command may allow an attacker with a malicious BIOS to create a

Risk And Classification

Problem Types: CWE-367

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_1.0.0.4	All	All	All
Operating System	Amd	Athlon Gold 3150g Firmware	picassopi-fp5_1.0.0.4	All	All	All
Hardware	Amd	Athlon Silver 3050ge	-	All	All	All
Operating System	Amd	Athlon Silver 3050ge Firmware	picassopi-fp5_1.0.0.4	All	All	All
Hardware	Amd	Ryzen 1200 Af	-	All	All	All
Operating System	Amd	Ryzen 1200 Af Firmware	pinnaclepi-am4_1.0.0.7	All	All	All
Operating System	Amd	Ryzen 1200 Af Firmware	raven-fp5-am4_1.0.0.9	All	All	All
Hardware	Amd	Ryzen 1600 Af	-	All	All	All
Operating System	Amd	Ryzen 1600 Af Firmware	pinnaclepi-am4_1.0.0.7	All	All	All
Operating System	Amd	Ryzen 1600 Af Firmware	raven-fp5-am4_1.0.0.9	All	All	All
Hardware	Amd	Ryzen 2200g	-	All	All	All
Hardware	Amd	Ryzen 2200ge	-	All	All	All
Operating System	Amd	Ryzen 2200ge Firmware	pinnaclepi-am4_1.0.0.7	All	All	All
Operating System	Amd	Ryzen 2200ge Firmware	raven-fp5-am4_1.0.0.9	All	All	All
Operating System	Amd	Ryzen 2200g Firmware	pinnaclepi-am4_1.0.0.7	All	All	All

Operating System	Amd	Ryzen 2200g Firmware	raven-fp5-am4_1.0.0.9	All	All	All
Hardware	Amd	Ryzen 2300x	-	All	All	All
Operating System	Amd	Ryzen 2300x Firmware	pinnaclepi-am4_1.0.0.7	All	All	All
Operating System	Amd	Ryzen 2300x Firmware	raven-fp5-am4_1.0.0.9	All	All	All
Hardware	Amd	Ryzen 2400g	-	All	All	All
Hardware	Amd	Ryzen 2400ge	-	All	All	All
Operating System	Amd	Ryzen 2400ge Firmware	pinnaclepi-am4_1.0.0.7	All	All	All
Operating System	Amd	Ryzen 2400ge Firmware	raven-fp5-am4_1.0.0.9	All	All	All
Operating System	Amd	Ryzen 2400g Firmware	pinnaclepi-am4_1.0.0.7	All	All	All
Operating System	Amd	Ryzen 2400g Firmware	raven-fp5-am4_1.0.0.9	All	All	All
Hardware	Amd	Ryzen 2500x	-	All	All	All
Operating System	Amd	Ryzen 2500x Firmware	pinnaclepi-am4_1.0.0.7	All	All	All
Operating System	Amd	Ryzen 2500x Firmware	raven-fp5-am4_1.0.0.9	All	All	All
Hardware	Amd	Ryzen 2600	-	All	All	All
Hardware	Amd	Ryzen 2600e	-	All	All	All
Operating System	Amd	Ryzen 2600e Firmware	pinnaclepi-am4_1.0.0.7	All	All	All
Operating System	Amd	Ryzen 2600e Firmware	raven-fp5-am4_1.0.0.9	All	All	All
Hardware	Amd	Ryzen 2600x	-	All	All	All
Operating System	Amd	Ryzen 2600x Firmware	pinnaclepi-am4_1.0.0.7	All	All	All
Operating System	Amd	Ryzen 2600x Firmware	raven-fp5-am4_1.0.0.9	All	All	All
Operating System	Amd	Ryzen 2600 Firmware	pinnaclepi-am4_1.0.0.7	All	All	All
Operating System	Amd	Ryzen 2600 Firmware	raven-fp5-am4_1.0.0.9	All	All	All
Hardware	Amd	Ryzen 2700	-	All	All	All
Hardware	Amd	Ryzen 2700e	-	All	All	All
Operating System	Amd	Ryzen 2700e Firmware	pinnaclepi-am4_1.0.0.7	All	All	All
Operating System	Amd	Ryzen 2700e Firmware	raven-fp5-am4_1.0.0.9	All	All	All
Hardware	Amd	Ryzen 2700x	-	All	All	All
Operating System	Amd	Ryzen 2700x Firmware	pinnaclepi-am4_1.0.0.7	All	All	All
Operating System	Amd	Ryzen 2700x Firmware	raven-fp5-am4_1.0.0.9	All	All	All
Operating System	Amd	Ryzen 2700 Firmware	pinnaclepi-am4_1.0.0.7	All	All	All
Operating System	Amd	Ryzen 2700 Firmware	raven-fp5-am4_1.0.0.9	All	All	All
Hardware	Amd	Ryzen 2920x	-	All	All	All
Operating System	Amd	Ryzen 2920x Firmware	pinnaclepi-am4_1.0.0.7	All	All	All
Operating System	Amd	Ryzen 2920x Firmware	raven-fp5-am4_1.0.0.9	All	All	All
Hardware	Amd	Ryzen 2950x	-	All	All	All

Operating System	Amd	Ryzen 2950x Firmware	pinnaclepi-am4_1.0.0.7	All	All	All
Operating System	Amd	Ryzen 2950x Firmware	raven-fp5-am4_1.0.0.9	All	All	All
Hardware	Amd	Ryzen 2970wx	-	All	All	All
Operating System	Amd	Ryzen 2970wx Firmware	pinnaclepi-am4_1.0.0.7	All	All	All
Operating System	Amd	Ryzen 2970wx Firmware	raven-fp5-am4_1.0.0.9	All	All	All
Hardware	Amd	Ryzen 2990wx	-	All	All	All
Operating System	Amd	Ryzen 2990wx Firmware	pinnaclepi-am4_1.0.0.7	All	All	All
Operating System	Amd	Ryzen 2990wx Firmware	raven-fp5-am4_1.0.0.9	All	All	All
Hardware	Amd	Ryzen 3100	-	All	All	All
Operating System	Amd	Ryzen 3100 Firmware	comboam4v2_pi_1.2.0.5	All	All	All
Operating System	Amd	Ryzen 3100 Firmware	picasso_pi-fp5_1.0.0.4	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	comboam4v2_pi_1.2.0.5	All	All	All
Operating System	Amd	Ryzen 3300x Firmware	picasso_pi-fp5_1.0.0.4	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	comboam4v2_pi_1.2.0.5	All	All	All
Operating System	Amd	Ryzen 3500x Firmware	picasso_pi-fp5_1.0.0.4	All	All	All
Operating System	Amd	Ryzen 3500x Firmware	renoirpi-fp6_1.0.0.7	All	All	All
Operating System	Amd	Ryzen 3500 Firmware	comboam4v2_pi_1.2.0.5	All	All	All
Operating System	Amd	Ryzen 3500 Firmware	picasso_pi-fp5_1.0.0.4	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	comboam4v2_pi_1.2.0.5	All	All	All
Operating System	Amd	Ryzen 3600xt Firmware	picasso_pi-fp5_1.0.0.4	All	All	All
Operating System	Amd	Ryzen 3600xt Firmware	renoirpi-fp6_1.0.0.7	All	All	All
Operating System	Amd	Ryzen 3600x Firmware	comboam4v2_pi_1.2.0.5	All	All	All
Operating System	Amd	Ryzen 3600x Firmware	picasso_pi-fp5_1.0.0.4	All	All	All
Operating System	Amd	Ryzen 3600x Firmware	renoirpi-fp6_1.0.0.7	All	All	All
Operating System	Amd	Ryzen 3600 Firmware	comboam4v2_pi_1.2.0.5	All	All	All
Operating System	Amd	Ryzen 3600 Firmware	picasso_pi-fp5_1.0.0.4	All	All	All

Operating System	Amd	Ryzen 3600 Firmware	renoirpi-tp6_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	comboam4v2_pi_1.2.0.5	All	All	All
Operating System	Amd	Ryzen 3800xt Firmware	picasso_pi-fp5_1.0.0.4	All	All	All
Operating System	Amd	Ryzen 3800xt Firmware	renoirpi-fp6_1.0.0.7	All	All	All
Operating System	Amd	Ryzen 3800x Firmware	comboam4v2_pi_1.2.0.5	All	All	All
Operating System	Amd	Ryzen 3800x Firmware	picasso_pi-fp5_1.0.0.4	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	comboam4v2_pi_1.2.0.5	All	All	All
Operating System	Amd	Ryzen 3900xt Firmware	picasso_pi-fp5_1.0.0.4	All	All	All
Operating System	Amd	Ryzen 3900xt Firmware	renoirpi-fp6_1.0.0.7	All	All	All
Operating System	Amd	Ryzen 3900x Firmware	comboam4v2_pi_1.2.0.5	All	All	All
Operating System	Amd	Ryzen 3900x Firmware	picasso_pi-fp5_1.0.0.4	All	All	All
Operating System	Amd	Ryzen 3900x Firmware	renoirpi-fp6_1.0.0.7	All	All	All
Operating System	Amd	Ryzen 3900 Firmware	comboam4v2_pi_1.2.0.5	All	All	All
Operating System	Amd	Ryzen 3900 Firmware	picasso_pi-fp5_1.0.0.4	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	comboam4v2_pi_1.2.0.5	All	All	All
Operating System	Amd	Ryzen 3950x Firmware	picasso_pi-fp5_1.0.0.4	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-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

References

Reference	Source	Link	Tags
www.amd.com/en/corporate/product-security/bulletin/AMD-SB-4001	MISC	www.amd.com	
OVE Program record	OVE OBC	www.ove.org	operational

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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