



# CVE-2023-20527

[MITRE](#)[NVD](#)[CVE.ORG](#)[JSON API](#)[Print: PDF !\[\]\(003082e50e3009141f59bd5df831749f\_img.jpg\)](#)

## Summary

<b>CVE</b>	CVE-2023-20527
<b>State</b>	PUBLIC
<b>Assigner</b>	psirt@amd.com
<b>Source Priority</b>	CVE Program / NVD first with legacy fallback
<b>Published</b>	2023-01-11 08:15:00 UTC
<b>Updated</b>	2023-11-07 04:06:00 UTC
<b>Description</b>	Improper syscall input validation in the ASP Bootloader may allow a privileged attacker to read memory out-of-bounds, pote

## Risk And Classification

### Problem Types: CWE-20

## NVD Known Affected Configurations (CPE 2.3)

Type	Vendor	Product	Version	Update	Edition	Language
Hardware	<a href="#">Amd</a>	<a href="#">Epyc 7001</a>	-	All	All	All
Operating System	<a href="#">Amd</a>	<a href="#">Epyc 7001 Firmware</a>	All	All	All	All
Hardware	<a href="#">Amd</a>	<a href="#">Epyc 7002</a>	-	All	All	All
Operating System	<a href="#">Amd</a>	<a href="#">Epyc 7002 Firmware</a>	All	All	All	All
Hardware	<a href="#">Amd</a>	<a href="#">Epyc 7003</a>	-	All	All	All
Operating System	<a href="#">Amd</a>	<a href="#">Epyc 7003 Firmware</a>	All	All	All	All
Hardware	<a href="#">Amd</a>	<a href="#">Epyc 7232p</a>	-	All	All	All
Operating System	<a href="#">Amd</a>	<a href="#">Epyc 7232p Firmware</a>	All	All	All	All
Hardware	<a href="#">Amd</a>	<a href="#">Epyc 7251</a>	-	All	All	All
Operating System	<a href="#">Amd</a>	<a href="#">Epyc 7251 Firmware</a>	All	All	All	All
Hardware	<a href="#">Amd</a>	<a href="#">Epyc 7252</a>	-	All	All	All
Operating System	<a href="#">Amd</a>	<a href="#">Epyc 7252 Firmware</a>	All	All	All	All
Hardware	<a href="#">Amd</a>	<a href="#">Epyc 7261</a>	-	All	All	All
Operating System	<a href="#">Amd</a>	<a href="#">Epyc 7261 Firmware</a>	All	All	All	All
Hardware	<a href="#">Amd</a>	<a href="#">Epyc 7262</a>	-	All	All	All
Operating System	<a href="#">Amd</a>	<a href="#">Epyc 7262 Firmware</a>	All	All	All	All
Hardware	<a href="#">Amd</a>	<a href="#">Epyc 7272</a>	-	All	All	All

Operating System	Amd	Epyc 7272 Firmware	All	All	All	All
Hardware	Amd	Epyc 7281	-	All	All	All
Operating System	Amd	Epyc 7281 Firmware	All	All	All	All
Hardware	Amd	Epyc 7282	-	All	All	All
Operating System	Amd	Epyc 7282 Firmware	All	All	All	All
Hardware	Amd	Epyc 72f3	-	All	All	All
Operating System	Amd	Epyc 72f3 Firmware	All	All	All	All
Hardware	Amd	Epyc 7301	-	All	All	All
Operating System	Amd	Epyc 7301 Firmware	All	All	All	All
Hardware	Amd	Epyc 7302	-	All	All	All
Hardware	Amd	Epyc 7302p	-	All	All	All
Operating System	Amd	Epyc 7302p Firmware	All	All	All	All
Operating System	Amd	Epyc 7302 Firmware	All	All	All	All
Hardware	Amd	Epyc 7313	-	All	All	All
Hardware	Amd	Epyc 7313p	-	All	All	All
Operating System	Amd	Epyc 7313p Firmware	All	All	All	All
Operating System	Amd	Epyc 7313 Firmware	All	All	All	All
Hardware	Amd	Epyc 7343	-	All	All	All
Operating System	Amd	Epyc 7343 Firmware	All	All	All	All
Hardware	Amd	Epyc 7351	-	All	All	All
Operating System	Amd	Epyc 7351 Firmware	All	All	All	All
Hardware	Amd	Epyc 7352	-	All	All	All
Operating System	Amd	Epyc 7352 Firmware	All	All	All	All
Hardware	Amd	Epyc 7371	-	All	All	All
Operating System	Amd	Epyc 7371 Firmware	All	All	All	All
Hardware	Amd	Epyc 7373x	-	All	All	All
Operating System	Amd	Epyc 7373x Firmware	All	All	All	All
Hardware	Amd	Epyc 73f3	-	All	All	All
Operating System	Amd	Epyc 73f3 Firmware	All	All	All	All
Hardware	Amd	Epyc 7401	-	All	All	All
Hardware	Amd	Epyc 7401p	-	All	All	All
Operating System	Amd	Epyc 7401p Firmware	All	All	All	All
Operating System	Amd	Epyc 7401 Firmware	All	All	All	All
Hardware	Amd	Epyc 7402	-	All	All	All
Hardware	Amd	Epyc 7402p	-	All	All	All

Operating System	Amd	Epyc 7402p Firmware	All	All	All	All
Operating System	Amd	Epyc 7402 Firmware	All	All	All	All
Hardware	Amd	Epyc 7413	-	All	All	All
Operating System	Amd	Epyc 7413 Firmware	All	All	All	All
Hardware	Amd	Epyc 7443	-	All	All	All
Hardware	Amd	Epyc 7443p	-	All	All	All
Operating System	Amd	Epyc 7443p Firmware	All	All	All	All
Operating System	Amd	Epyc 7443 Firmware	All	All	All	All
Hardware	Amd	Epyc 7451	-	All	All	All
Operating System	Amd	Epyc 7451 Firmware	All	All	All	All
Hardware	Amd	Epyc 7452	-	All	All	All
Operating System	Amd	Epyc 7452 Firmware	All	All	All	All
Hardware	Amd	Epyc 7453	-	All	All	All
Operating System	Amd	Epyc 7453 Firmware	All	All	All	All
Hardware	Amd	Epyc 74f3	-	All	All	All
Operating System	Amd	Epyc 74f3 Firmware	All	All	All	All
Hardware	Amd	Epyc 7501	-	All	All	All
Operating System	Amd	Epyc 7501 Firmware	All	All	All	All
Hardware	Amd	Epyc 7502	-	All	All	All
Hardware	Amd	Epyc 7502p	-	All	All	All
Operating System	Amd	Epyc 7502p Firmware	All	All	All	All
Operating System	Amd	Epyc 7502 Firmware	All	All	All	All
Hardware	Amd	Epyc 7513	-	All	All	All
Operating System	Amd	Epyc 7513 Firmware	All	All	All	All
Hardware	Amd	Epyc 7532	-	All	All	All
Operating System	Amd	Epyc 7532 Firmware	All	All	All	All
Hardware	Amd	Epyc 7542	-	All	All	All
Operating System	Amd	Epyc 7542 Firmware	All	All	All	All
Hardware	Amd	Epyc 7543	-	All	All	All
Hardware	Amd	Epyc 7543p	-	All	All	All
Operating System	Amd	Epyc 7543p Firmware	All	All	All	All
Operating System	Amd	Epyc 7543 Firmware	All	All	All	All
Hardware	Amd	Epyc 7551	-	All	All	All
Hardware	Amd	Epyc 7551p	-	All	All	All
Operating System	Amd	Epyc 7551p Firmware	All	All	All	All

Operating System	<a href="#">Amd</a>	<a href="#">Epyc 7551 Firmware</a>	All	All	All	All
Hardware	<a href="#">Amd</a>	<a href="#">Epyc 7552</a>	-	All	All	All
Operating System	<a href="#">Amd</a>	<a href="#">Epyc 7552 Firmware</a>	All	All	All	All
Hardware	<a href="#">Amd</a>	<a href="#">Epyc 7573x</a>	-	All	All	All
Operating System	<a href="#">Amd</a>	<a href="#">Epyc 7573x Firmware</a>	All	All	All	All
Hardware	<a href="#">Amd</a>	<a href="#">Epyc 75f3</a>	-	All	All	All
Operating System	<a href="#">Amd</a>	<a href="#">Epyc 75f3 Firmware</a>	All	All	All	All
Hardware	<a href="#">Amd</a>	<a href="#">Epyc 7601</a>	-	All	All	All
Operating System	<a href="#">Amd</a>	<a href="#">Epyc 7601 Firmware</a>	All	All	All	All
Hardware	<a href="#">Amd</a>	<a href="#">Epyc 7642</a>	-	All	All	All
Operating System	<a href="#">Amd</a>	<a href="#">Epyc 7642 Firmware</a>	All	All	All	All
Hardware	<a href="#">Amd</a>	<a href="#">Epyc 7643</a>	-	All	All	All
Operating System	<a href="#">Amd</a>	<a href="#">Epyc 7643 Firmware</a>	All	All	All	All
Hardware	<a href="#">Amd</a>	<a href="#">Epyc 7662</a>	-	All	All	All
Operating System	<a href="#">Amd</a>	<a href="#">Epyc 7662 Firmware</a>	All	All	All	All
Hardware	<a href="#">Amd</a>	<a href="#">Epyc 7663</a>	-	All	All	All
Operating System	<a href="#">Amd</a>	<a href="#">Epyc 7663 Firmware</a>	All	All	All	All
Hardware	<a href="#">Amd</a>	<a href="#">Epyc 7702</a>	-	All	All	All
Hardware	<a href="#">Amd</a>	<a href="#">Epyc 7702p</a>	-	All	All	All
Operating System	<a href="#">Amd</a>	<a href="#">Epyc 7702p Firmware</a>	All	All	All	All
Operating System	<a href="#">Amd</a>	<a href="#">Epyc 7702 Firmware</a>	All	All	All	All
Hardware	<a href="#">Amd</a>	<a href="#">Epyc 7713</a>	-	All	All	All
Hardware	<a href="#">Amd</a>	<a href="#">Epyc 7713p</a>	-	All	All	All
Operating System	<a href="#">Amd</a>	<a href="#">Epyc 7713p Firmware</a>	All	All	All	All
Operating System	<a href="#">Amd</a>	<a href="#">Epyc 7713 Firmware</a>	All	All	All	All
Hardware	<a href="#">Amd</a>	<a href="#">Epyc 7742</a>	-	All	All	All
Operating System	<a href="#">Amd</a>	<a href="#">Epyc 7742 Firmware</a>	All	All	All	All
Hardware	<a href="#">Amd</a>	<a href="#">Epyc 7743</a>	-	All	All	All
Operating System	<a href="#">Amd</a>	<a href="#">Epyc 7743 Firmware</a>	All	All	All	All
Hardware	<a href="#">Amd</a>	<a href="#">Epyc 7763</a>	-	All	All	All
Operating System	<a href="#">Amd</a>	<a href="#">Epyc 7763 Firmware</a>	All	All	All	All
Hardware	<a href="#">Amd</a>	<a href="#">Epyc 7773x</a>	-	All	All	All
Operating System	<a href="#">Amd</a>	<a href="#">Epyc 7773x Firmware</a>	All	All	All	All
Hardware	<a href="#">Amd</a>	<a href="#">Epyc 7f32</a>	-	All	All	All
Operating System	<a href="#">Amd</a>	<a href="#">Epyc 7f32 Firmware</a>	All	All	All	All
Hardware	<a href="#">Amd</a>	<a href="#">Epyc 7f52</a>	-	All	All	All

Operating System	<a href="#">Amd</a>	<a href="#">Epyc 7f52 Firmware</a>	All	All	All	All
Hardware	<a href="#">Amd</a>	<a href="#">Epyc 7f72</a>	-	All	All	All
Operating System	<a href="#">Amd</a>	<a href="#">Epyc 7f72 Firmware</a>	All	All	All	All
Hardware	<a href="#">Amd</a>	<a href="#">Epyc 7h12</a>	-	All	All	All
Operating System	<a href="#">Amd</a>	<a href="#">Epyc 7h12 Firmware</a>	All	All	All	All

## References

Reference	Source	Link	Tags
<a href="http://www.amd.com/en/corporate/product-security/bulletin/AMD-SB-1032">www.amd.com/en/corporate/product-security/bulletin/AMD-SB-1032</a>	MISC	<a href="http://www.amd.com">www.amd.com</a>	
CVE Program record	CVE.ORG	<a href="http://www.cve.org">www.cve.org</a>	canonical
NVD vulnerability detail	NVD	<a href="http://nvd.nist.gov">nvd.nist.gov</a>	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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