



CVE-2021-46769

Published on: Not Yet Published

Last Modified on: 05/22/2023 03:53:00 PM UTC

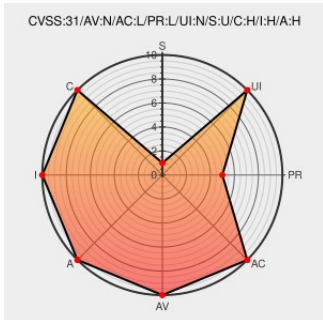
CVE-2021-46769 - advisory for AMD-SB-3001

Source: Mitre

Source: NIST

CVE.ORG

Print: PDF



Certain versions of [Epyc 7232p](#) from [Amd](#) contain the following vulnerability:

Insufficient syscall input validation in the ASP Bootloader may allow a privileged attacker to execute arbitrary DMA copies, which can lead to code execution.

CVE-2021-46769 has been assigned by psirt@amd.com to track the vulnerability - currently rated as **HIGH** severity.

Affected Vendor/Software: **AMD - 2nd Gen AMD EPYC™ version = various**

Affected Vendor/Software: **AMD - 3rd Gen AMD EPYC™ version = various**

CVSS3 Score: **8.8 - HIGH**

Attack Vector	Attack Complexity	Privileges Required	User Interaction
NETWORK	LOW	LOW	NONE
Scope	Confidentiality Impact	Integrity Impact	Availability Impact
UNCHANGED	HIGH	HIGH	HIGH

CVE References

Description	Tags	Link
No Description Provided	www.amd.com	MISC www.amd.com/en/corporate/product-security/bulletin/AMD-SB-3001
	Inactive Link Not Archived	

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There are currently no QIDs associated with this CVE

Known Affected Configurations (CPE V2.3)						
Type	Vendor	Product	Version	Update	Edition	Language
Hardware 	Amd	Epyc 7232p	-	All	All	All
Operating System	Amd	Epyc 7232p Firmware	romeapi_1.0.0.e	All	All	All
Hardware 	Amd	Epyc 7252	-	All	All	All
Operating System	Amd	Epyc 7252 Firmware	romeapi_1.0.0.e	All	All	All
Hardware 	Amd	Epyc 7262	-	All	All	All
Operating System	Amd	Epyc 7262 Firmware	romeapi_1.0.0.e	All	All	All
Hardware 	Amd	Epyc 7272	-	All	All	All
Operating System	Amd	Epyc 7272 Firmware	romeapi_1.0.0.e	All	All	All
Hardware 	Amd	Epyc 7282	-	All	All	All
Operating System	Amd	Epyc 7282 Firmware	romeapi_1.0.0.e	All	All	All
Hardware 	Amd	Epyc 72f3	-	All	All	All
Operating System	Amd	Epyc 72f3 Firmware	milanpi_1.0.0.9	All	All	All
Hardware 	Amd	Epyc 7302	-	All	All	All
Hardware 	Amd	Epyc 7302p	-	All	All	All
Operating System	Amd	Epyc 7302p Firmware	romeapi_1.0.0.e	All	All	All
Operating System	Amd	Epyc 7302 Firmware	romeapi_1.0.0.e	All	All	All
Hardware 	Amd	Epyc 7313	-	All	All	All
Hardware 	Amd	Epyc 7313p	-	All	All	All
Operating System	Amd	Epyc 7313p Firmware	milanpi_1.0.0.9	All	All	All
Operating System	Amd	Epyc 7313 Firmware	milanpi_1.0.0.9	All	All	All
Hardware 	Amd	Epyc 7343	-	All	All	All
Operating System	Amd	Epyc 7343 Firmware	milanpi_1.0.0.9	All	All	All
Hardware 	Amd	Epyc 7352	-	All	All	All
Operating System	Amd	Epyc 7352 Firmware	romeapi_1.0.0.e	All	All	All

Hardware  	Amd	Epyc 7373x	-	All	All	All
Operating System	Amd	Epyc 7373x Firmware	milanpi_1.0.0.9	All	All	All
Hardware  	Amd	Epyc 73f3	-	All	All	All
Operating System	Amd	Epyc 73f3 Firmware	milanpi_1.0.0.9	All	All	All
Hardware  	Amd	Epyc 7402	-	All	All	All
Hardware  	Amd	Epyc 7402p	-	All	All	All
Operating System	Amd	Epyc 7402p Firmware	romeapi_1.0.0.e	All	All	All
Operating System	Amd	Epyc 7402 Firmware	romeapi_1.0.0.e	All	All	All
Hardware  	Amd	Epyc 7413	-	All	All	All
Operating System	Amd	Epyc 7413 Firmware	milanpi_1.0.0.9	All	All	All
Hardware  	Amd	Epyc 7443	-	All	All	All
Hardware  	Amd	Epyc 7443p	-	All	All	All
Operating System	Amd	Epyc 7443p Firmware	milanpi_1.0.0.9	All	All	All
Operating System	Amd	Epyc 7443 Firmware	milanpi_1.0.0.9	All	All	All
Hardware  	Amd	Epyc 7452	-	All	All	All
Operating System	Amd	Epyc 7452 Firmware	romeapi_1.0.0.e	All	All	All
Hardware  	Amd	Epyc 7453	-	All	All	All
Operating System	Amd	Epyc 7453 Firmware	milanpi_1.0.0.9	All	All	All
Hardware  	Amd	Epyc 7473x	-	All	All	All
Operating System	Amd	Epyc 7473x Firmware	milanpi_1.0.0.9	All	All	All
Hardware  	Amd	Epyc 74f3	-	All	All	All
Operating System	Amd	Epyc 74f3 Firmware	milanpi_1.0.0.9	All	All	All
Hardware  	Amd	Epyc 7502	-	All	All	All
Hardware  	Amd	Epyc 7502p	-	All	All	All
Operating System	Amd	Epyc 7502p Firmware	romeapi_1.0.0.e	All	All	All
Operating System	Amd	Epyc 7502 Firmware	romeapi_1.0.0.e	All	All	All
Hardware  	Amd	Epyc 7513	-	All	All	All

Hardware  	Amd	Epyc 7513	-	All	All	All
Operating System	Amd	Epyc 7513 Firmware	milanpi_1.0.0.9	All	All	All
Hardware  	Amd	Epyc 7532	-	All	All	All
Operating System	Amd	Epyc 7532 Firmware	romeapi_1.0.0.e	All	All	All
Hardware  	Amd	Epyc 7542	-	All	All	All
Operating System	Amd	Epyc 7542 Firmware	romeapi_1.0.0.e	All	All	All
Hardware  	Amd	Epyc 7543	-	All	All	All
Hardware  	Amd	Epyc 7543p	-	All	All	All
Operating System	Amd	Epyc 7543p Firmware	milanpi_1.0.0.9	All	All	All
Operating System	Amd	Epyc 7543 Firmware	milanpi_1.0.0.9	All	All	All
Hardware  	Amd	Epyc 7552	-	All	All	All
Operating System	Amd	Epyc 7552 Firmware	romeapi_1.0.0.e	All	All	All
Hardware  	Amd	Epyc 7573x	-	All	All	All
Operating System	Amd	Epyc 7573x Firmware	milanpi_1.0.0.9	All	All	All
Hardware  	Amd	Epyc 75f3	-	All	All	All
Operating System	Amd	Epyc 75f3 Firmware	milanpi_1.0.0.9	All	All	All
Hardware  	Amd	Epyc 7642	-	All	All	All
Operating System	Amd	Epyc 7642 Firmware	romeapi_1.0.0.e	All	All	All
Hardware  	Amd	Epyc 7643	-	All	All	All
Operating System	Amd	Epyc 7643 Firmware	milanpi_1.0.0.9	All	All	All
Hardware  	Amd	Epyc 7662	-	All	All	All
Operating System	Amd	Epyc 7662 Firmware	romeapi_1.0.0.e	All	All	All
Hardware  	Amd	Epyc 7663	-	All	All	All
Operating System	Amd	Epyc 7663 Firmware	milanpi_1.0.0.9	All	All	All
Hardware  	Amd	Epyc 7702	-	All	All	All
Hardware  	Amd	Epyc 7702p	-	All	All	All
Operating System	Amd	Epyc 7702p Firmware	romeapi_1.0.0.e	All	All	All

Operating System	Amd	Epyc 7702 Firmware	romeapi_1.0.0.e	All	All	All
Hardware  	Amd	Epyc 7713	-	All	All	All
Hardware  	Amd	Epyc 7713p	-	All	All	All
Operating System	Amd	Epyc 7713p Firmware	milanpi_1.0.0.9	All	All	All
Operating System	Amd	Epyc 7713 Firmware	milanpi_1.0.0.9	All	All	All
Hardware  	Amd	Epyc 7742	-	All	All	All
Operating System	Amd	Epyc 7742 Firmware	romeapi_1.0.0.e	All	All	All
Hardware  	Amd	Epyc 7763	-	All	All	All
Operating System	Amd	Epyc 7763 Firmware	milanpi_1.0.0.9	All	All	All
Hardware  	Amd	Epyc 7773x	-	All	All	All
Operating System	Amd	Epyc 7773x Firmware	milanpi_1.0.0.9	All	All	All
Hardware  	Amd	Epyc 7f32	-	All	All	All
Operating System	Amd	Epyc 7f32 Firmware	romeapi_1.0.0.e	All	All	All
Hardware  	Amd	Epyc 7f52	-	All	All	All
Operating System	Amd	Epyc 7f52 Firmware	romeapi_1.0.0.e	All	All	All
Hardware  	Amd	Epyc 7f72	-	All	All	All
Operating System	Amd	Epyc 7f72 Firmware	romeapi_1.0.0.e	All	All	All
Hardware  	Amd	Epyc 7h12	-	All	All	All
Operating System	Amd	Epyc 7h12 Firmware	romeapi_1.0.0.e	All	All	All
cpe:2.3:h:amd:epyc_7232p:-:*****:						
cpe:2.3:o:amd:epyc_7232p_firmware:romeapi_1.0.0.e:*****:						
cpe:2.3:h:amd:epyc_7252:-:*****:						
cpe:2.3:o:amd:epyc_7252_firmware:romeapi_1.0.0.e:*****:						
cpe:2.3:h:amd:epyc_7262:-:*****:						
cpe:2.3:o:amd:epyc_7262_firmware:romeapi_1.0.0.e:*****:						
cpe:2.3:h:amd:epyc_7272:-:*****:						
cpe:2.3:o:amd:epyc_7272_firmware:romeapi_1.0.0.e:*****:						

```
cpe:2.3:h:amd:epyc_7282:-:*:*:*:*:*:*:
```

```
cpe:2.3:o:amd:epyc_7282_firmware:rome:pi_1.0.0.e:*:*:*:*:*:
```

```
cpe:2.3:h:amd:epyc_72f3:-:*:*:*:*:*:*:
```

```
cpe:2.3:o:amd:epyc 72f3 firmware:milanpi 1.0.0.9:*:*:*:*:*:
```

```
cpe:2.3:h:amd:epyc_7302:-:*:*:*:*:*:
```

```
cpe:2.3:h:amd:epyc_7302p:-:*:*:*:*:*:*:
```

```
cpe:2.3:o:amd:epyc_7302p_firmware:rome_pi_1.0.0.e.*:*:*:*:*:
```

```
cpe:2.3:o:amd:epyc_7302_firmware:romepi_1.0.0.e:*:*:*:*:*:
```

```
cpe:2.3:h:amd:epyc 7313:-:*:*:*:*:*:
```

```
cpe:2.3:h:amd:epyc_7313p:-:*:*:*:*:*:
```

```
cpe:2.3:o:amd:epyc_7313p_firmware:milanpi_1.0.0.9:*.~*~*~*~*~*~*
```

```
cpe:2.3:o:amd:epyc_7313_firmware:milanpi_1.0.0.9:*:*:*:*:*:
```

```
cpe:2.3:h:amd:epyc_7343:-:*:*:*:*:*:*:
```

```
cpe:2.3:o:amd:epyc 7343 firmware:milanpi 1.0.0.9.*:*:*:*:*:
```

```
cpe:2.3:h:amd:epyc_7352:-:*:*:*:*:*:*:
```

```
cpe:2.3:o:amd:epyc_7352_firmware:romepi_1.0.0.e:*:*:*:*:*:
```

```
cpe:2.3:h:amd:epyc_7373x:-:*:*:*:*:*:*:
```

```
cpe:2.3:o:amd:epyc_7373x_firmware:milanpi_1.0.0.9:::*:*:*:*:
```

```
cpe:2.3:h:amd:epyc_73f3:-:*:*:*:*:*:
```

```
cpe:2.3:o:amd:epyc 73f3 firmware:milanpi 1.0.0.9:*.~*~*~*~*~*~*
```

```
cpe:2.3:h:amd:epyc_7402:-:*:*:*:*:*:*:
```

cpe:2.3:h:amd:epyc_7402p:-:*:*:*:*:*:*:

```
cpe:2.3:o:amd:epyc_7402p_firmware:rome:pi_1.0.0.e:*:*:*:*:*:
```

```
cpe:2.3:o:amd:epyc_7402_firmware:rome_pi_1.0.0.e.*:*:*:*:*:
```

```
cpe:2.3:h:amd:epyc_7413:-:*:*:*:*:*:
```

```
cpe:2.3:o:amd:epyc_7413_firmware:milanpi_1.0.0.9:*.***.***.***.
```

```
cpe:2.3:h:amd:epyc_7443:-:*:*:*:*:*:*:
```

```
cpe:2.3:h:amd:epyc_7443p:-:*:*:*:*:*:
```

```
cpe:2.3:o:amd:epyc_7443p_firmware:milanpi_1.0.0.9.*:*:*:*:*:
```

```
cpe:2.3:o:amd:epyc_7443_firmware:milanpi_1.0.0.9:::*:*:*:*:
```

```
cpe:2.3:h:amd:epyc_7452:-:*:*:*:*:*:*:
```

```
cpe:2.3:o:amd:epyc_7452_firmware:rome:1.0.0.e:*:*:*:*:*:
```

```
cpe:2.3:h:amd:epyc_7453:-:*:*:*:*:*:*:
```

```
cpe:2.3:o:amd:epyc_7453_firmware:milanpi_1.0.0.9:*:*:*:*:*:
```

```
cpe:2.3:h:amd:epyc_7473x:-:*:*:*:*:*:*:
```

```
cpe:2.3:o:amd:epyc 7473x firmware:milanpi 1.0.0.9:*.~*~*~*~*~*~*
```

```
cpe:2.3:h:amd:epyc_74f3:-:*:*:*:*:*:*:
```

```
cpe:2.3:o:amd:epyc_74f3_firmware:milanpi_1.0.0.9:*:*:*:*:*:
```

```
cpe:2.3:h:amd:epyc_7502:-:*:*:*:*:*:*:
```

```
cpe:2.3:h:amd:epyc_7502p:-:*:*:*:*:*:*:
```

```
cpe:2.3:o:amd:epyc_7502p_firmware:rome_pi_1.0.0.e.*:*:*:*:*.*
```

```
cpe:2.3:o:amd:epyc 7502 firmware:rome:pi 1.0.0.e.*:*:*:*:*:*:
```

```
cpe:2.3:h:amd:epyc_7513:-:*:*:*:*:*:*:
```

```
cpe:2.3:o:amd:epyc_7513_firmware:milanpi_1.0.0.9:*:*:*:*:*:
```

```
cpe:2.3:h:amd:epyc_7532:-:*:*:*:*:*:
```

```
cpe:2.3:o:amd:epyc_7532_firmware:romepi_1.0.0.e:*.***.***.***.
```

```
cpe:2.3:h:amd:epyc_7542:-:*:*:*:*:*:*:
```

```
cpe:2.3:o:amd:epyc_7542_firmware:romepi_1.0.0.e:*.***.***.***.
```

```
cpe:2.3:h:amd:epyc_7543:-:*:*:*:*:*:*:
```

```
cpe:2.3:h:amd:epyc_7543p:-:*:*:*:*:*:
```

```
cpe:2.3:o:amd:epyc 7543p firmware:milanpi 1.0.0.9:*.~*~*~*~*~*~*
```

```
cpe:2.3:o:amd:epyc_7543_firmware:milanpi_1.0.0.9:*:*:*:*:*:
```

```
cpe:2.3:h:amd:epyc_7552:-:*:*:*:*:*:*:
```

```
cpe:2.3:o:amd:epyc_7552_firmware:rome:pi_1.0.0.e:*:*:*:*:*:
```

```
cpe:2.3:h:amd:epyc_7573x:-:*:*:*:*:*:
```

```
cpe:2.3:o:amd:epyc_7573x_firmware:milanpi_1.0.0.9:*.***.***.*
```

one? 3-h-amd-onvr 75f2_*.~*~*~*~*~*~*

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```
cpe:2.3:o:amd:epyc_75f3_firmware:milanpi_1.0.0.9:*:*:*:*:*:
```

```
cpe:2.3:h:amd:epyc_7642:-:*:*:*:*:*:
```

```
cpe:2.3:o:amd:epyc_7642_firmware:rome:1.0.0.e:*:*:*:*:*:
```

```
cpe:2.3:h:amd:epyc_7643:-:*:*:*:*:*:*:
```

```
cpe:2.3:o:amd:epyc_7643_firmware:milanpi_1.0.0.9:*:*:*:*:*:
```

```
cpe:2.3:h:amd:epyc_7662:-:*:*:*:*:*:
```

```
cpe:2.3:o:amd:epyc_7662_firmware:romepi_1.0.0.e:*:*:*:*:*:
```

```
cpe:2.3:h:amd:epyc_7663:-:*:*:*:*:*:*:
```

```
cpe:2.3:o:amd:epyc 7663 firmware:milanpi 1.0.0.9:*.~*~*~*~*~*~*
```

```
cpe:2.3:h:amd:epyc 7702:-:*:*:*:*:*:
```

```
cpe:2.3:h:amd:epyc_7702p:-:~::~::~:::
```

```
cpe:2.3:o:amd:epyc_7702p_firmware:rome_pi_1.0.0.e.*:*:*:*:*:*
```

```
cpe:2.3:o:amd:epyc_7702_firmware:rome:1.0.0.e:*:*:*:*:*:
```

```
cpe:2.3:h:amd:epyc_7713:-:*:*:*:*:*:
```

```
cpe:2.3:h:amd:epyc_7713p:-:*:*:*:*:*:
```

```
cpe:2.3:o:amd:epyc_7713p_firmware:milanpi_1.0.0.9.*:*:*:*:*:
```

```
cpe:2.3:o:amd:epyc_7713_firmware:milanpi_1.0.0.9:*:*:*:*:*:
```

```
cpe:2.3:h:amd:epyc_7742:-:*:*:*:*:*:*:
```

```
cpe:2.3:o:amd:epyc 7742 firmware:rome:pi 1.0.0.e:*.~*~*~*~*~*~*
```

```
cpe:2.3:h:amd:epyc_7763:-:*:*:*:*:*:*:
```

```
cpe:2.3:o:amd:epyc_7763_firmware:milanpi_1.0.0.9:*:*:*:*:*:
```

```
cpe:2.3:h:amd:epyc_7773x:-:*:*:*:*:*:*:
```

```
cpe:2.3:o:amd:epyc_7773x_firmware:milanpi_1.0.0.9:*:*:*:*:*:
```

```
cpe:2.3:h:amd:epyc_7f32:-:*:*:*:*:*:
```

```
cpe:2.3:o:amd:epyc 7f32 firmware:rome:pi 1.0.0.e:*:*:*:*:*:
```

```
cpe:2.3:h:amd:epyc_7f52:-:*:*:*:*:*:
```

```
cpe:2.3:o:amd:epyc_7f52_firmware:romeipi_1.0.0.e.*:*:*:*:*:
```

```
cpe:2.3:h:amd:epyc_7f72:-:*:*:*:*:*:
```


cpe:2.3:o:amd:epyc_7f72_firmware:romeapi_1.0.0.e:*****:

cpe:2.3:h:amd:epyc_7h12:-:*****:

cpe:2.3:o:amd:epyc_7h12_firmware:romeapi_1.0.0.e:*****:

No vendor comments have been submitted for this CVE

Social Mentions

Source	Title	Posted (UTC)
 @CVEreport	CVE-2021-46769 : Insufficient syscall input validation in the ASP Bootloader may allow a privileged attacker to exe... twitter.com/i/web/status/1...	2023-05-09 19:11:55

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