

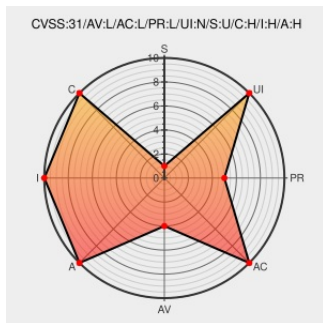


CVE-2021-46771

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CVE-2021-46771 - advisory for AMD-SB-1021

[Source: Mitre](#)[Source: NIST](#)[CVE.ORG](#)[Print: PDF](#)

Certain versions of [Epyc 72f3](#) from [Amd](#) contain the following vulnerability:

Insufficient validation of addresses in AMD Secure Processor (ASP) firmware system call may potentially lead to arbitrary code execution by a compromised user application.

CVE-2021-46771 has been assigned by [psirt@amd.com](#) to track the vulnerability - currently rated as **HIGH** severity.

Affected Vendor/Software: [AMD](#) - 3rd Gen AMD EPYC™ version < MilanPI-SP3_1.0.0.4

CVSS3 Score: **7.8 - HIGH**

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

CVSS2 Score: **7.2 - HIGH**

Access Vector	Access Complexity	Authentication
LOCAL	LOW	NONE
Confidentiality Impact	Integrity Impact	Availability Impact
COMPLETE	COMPLETE	COMPLETE

CVE References

Description	Tags	Link
AMD Server Vulnerabilities – November 2021 AMD	web.archive.org text/html Inactive Link Not Archived	MISC www.amd.com/en/corporate/product-security/bulletin/amd-sb-1021

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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 72f3	-	All	All	All
Operating System	Amd	Epyc 72f3 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 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 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 7453	-	All	All	All
Operating System	Amd	Epyc 7453 Firmware	All	All	All	All

Hardware 	Amd	Epyc 7473x	-	All	All	All
Operating System	Amd	Epyc 7473x 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 7513	-	All	All	All
Operating System	Amd	Epyc 7513 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 7573x	-	All	All	All
Operating System	Amd	Epyc 7573x Firmware	All	All	All	All
Hardware 	Amd	Epyc 75f3	-	All	All	All
Operating System	Amd	Epyc 75f3 Firmware	All	All	All	All
Hardware 	Amd	Epyc 7643	-	All	All	All
Operating System	Amd	Epyc 7643 Firmware	All	All	All	All
Hardware 	Amd	Epyc 7663	-	All	All	All
Operating System	Amd	Epyc 7663 Firmware	All	All	All	All
Hardware 	Amd	Epyc 7713	-	All	All	All
Hardware 	Amd	Epyc 7713p	-	All	All	All
Operating System	Amd	Epyc 7713p Firmware	All	All	All	All
Operating System	Amd	Epyc 7713 Firmware	All	All	All	All
Hardware 	Amd	Epyc 7763	-	All	All	All
Operating System	Amd	Epyc 7763 Firmware	All	All	All	All
Hardware 	Amd	Epyc 7773x	-	All	All	All
Operating System	Amd	Epyc 7773x Firmware	All	All	All	All
cpe:2.3:h:amd:epyc_72f3:-:*****:						

```
cpe:2.3:o:amd:epyc_72f3_firmware:*.:.:.:.:.:.:
```

```
cpe:2.3:h:amd:epyc_7313:-:*:*:*:*:*:*:
```

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

```
cpe:2.3:o:amd:epyc_7313p_firmware:*:*:*:*:*:*:
```

cpe:2.3:o:amd:epyc_7313_firmware:*:*:*:*:*:*:

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

```
cpe:2.3:o:amd:epyc_7343_firmware:*.:.:.:.:.:.:.:
```

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

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

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

```
cpe:2.3:o:amd:epyc_73f3_firmware:*.:.:.:.:.:.:
```

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

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

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

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

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

```
cpe:2.3:o:amd:epyc 7443 firmware:*.*.*.*.*.*.*.*
```

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

```
cpe:2.3:o:amd:epyc 7453 firmware:*.:.:.:.:.:.:.:
```

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

```
cpe:2.3:o:amd:epyc_7473x_firmware:*.*.*.*.*.*.*.*
```

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

cpe:2.3:o:amd:epyc_74f3_firmware:*.*.*.*.*.*.*.*

```
cpe:2.3:h:amd:epyc 7513:-:*:*:*:*:*:
```

```
cpe:2.3:o:amd:epyc 7513 firmware:*.~*~*~*~*~*~*~*~*~*
```

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

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

```
cpe:2.3:o:amd:epyc_7543p_firmware:*.:.:.:.:.:
```

cpe:2.3:o:amd:epyc_7543_firmware:*.*.*.*.*.*.*.*.*.*
cpe:2.3:h:amd:epyc_7573x:-.*.*.*.*.*.*.*.*.*
cpe:2.3:o:amd:epyc_7573x_firmware:*.*.*.*.*.*.*.*.*.*
cpe:2.3:h:amd:epyc_75f3:-.*.*.*.*.*.*.*.*.*
cpe:2.3:o:amd:epyc_75f3_firmware:*.*.*.*.*.*.*.*.*.*
cpe:2.3:h:amd:epyc_7643:-.*.*.*.*.*.*.*.*.*
cpe:2.3:o:amd:epyc_7643_firmware:*.*.*.*.*.*.*.*.*.*
cpe:2.3:h:amd:epyc_7663:-.*.*.*.*.*.*.*.*.*
cpe:2.3:o:amd:epyc_7663_firmware:*.*.*.*.*.*.*.*.*.*
cpe:2.3:h:amd:epyc_7713:-.*.*.*.*.*.*.*.*.*
cpe:2.3:h:amd:epyc_7713p:-.*.*.*.*.*.*.*.*.*
cpe:2.3:o:amd:epyc_7713p_firmware:*.*.*.*.*.*.*.*.*.*
cpe:2.3:o:amd:epyc_7713_firmware:*.*.*.*.*.*.*.*.*.*
cpe:2.3:h:amd:epyc_7763:-.*.*.*.*.*.*.*.*.*
cpe:2.3:o:amd:epyc_7763_firmware:*.*.*.*.*.*.*.*.*.*
cpe:2.3:h:amd:epyc_7773x:-.*.*.*.*.*.*.*.*.*
cpe:2.3:o:amd:epyc_7773x_firmware:*.*.*.*.*.*.*.*.*.*

No vendor comments have been submitted for this CVE

Social Mentions

Source	Title	Posted (UTC)
 @CVEreport	CVE-2021-46771 : Insufficient validation of addresses in AMD Secure Processor ASP firmware system call may potent... twitter.com/i/web/status/1...	2022-05-10 19:09:06
 @Robo_Alerts	Potentially Critical CVE Detected! CVE-2021-46771 Insufficient validation of addresses in AMD Secure Processor (ASP... twitter.com/i/web/status/1...	2022-05-10 19:55:56
 /r/netcve	CVE-2021-46771	2022-05-10 20:38:50

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Next ID→

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