



CVE-2016-7389

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CVE-2016-7389

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

Certain versions of [Linux Kernel](#) from [Linux](#) contain the following vulnerability:

For the NVIDIA Quadro, NVS, GeForce, and Tesla products, NVIDIA GPU Display Driver on Linux R304 before 304.132, R340 before 340.98, R367 before 367.55, R361_93 before 361.93.03, and R370 before 370.28 contains a vulnerability in the kernel mode layer (nvidia.ko) handler for mmap() where improper input validation may allow users to gain access to arbitrary physical memory, leading to an escalation of privileges.

CVE-2016-7389 has been assigned by psirt@nvidia.com to track the vulnerability - currently rated as **HIGH** severity.

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
Security Bulletin: NVIDIA Linux GPU Display Driver contains missing permissions check and improper validation vulnerabilities	Patch Vendor Advisory	CONFIRM nvidia.custhelp.com/app/answers/detail/a_id/4246

[cve.report \(archive\)](#) [BID 94177](#)
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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
Operating System	Linux	Linux Kernel	All	All	All	All
Operating System	Linux	Linux Kernel	All	All	All	All
Application	Nvidia	Gpu Driver	304.79	All	All	All
Application	Nvidia	Gpu Driver	340.52	All	All	All
Application	Nvidia	Gpu Driver	361.91	All	All	All
Application	Nvidia	Gpu Driver	365.19	All	All	All
Application	Nvidia	Gpu Driver	368.81	All	All	All
Application	Nvidia	Gpu Driver	304.79	All	All	All
Application	Nvidia	Gpu Driver	340.52	All	All	All
Application	Nvidia	Gpu Driver	361.91	All	All	All
Application	Nvidia	Gpu Driver	365.19	All	All	All
Application	Nvidia	Gpu Driver	368.81	All	All	All

```
cpe:2.3:o:linux:linux_kernel:*.:.:.:.:.:.:.:
```

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cpe:2.3:o:linux:linux_kernel:*.:.:.:.:.:.:.:
```

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cpe:2.3:a:nvidia:gpu_driver:304.79:*.:*:*:*:*:*:
```

```
cpe:2.3:a:nvidia:gpu_driver:340.52:*:*:*:*:*:*:
```

```
cpe:2.3:a:nvidia:gpu_driver:361.91:*:*:*:*:*:
```

```
cpe:2.3:a:nvidia:gpu_driver:365.19:*:*:*:*:*:
```

```
cpe:2.3:a:nvidia:gpu_driver:368.81:*. *. *. *. *. *. *. *
```

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cpe:2.3:a:nvidia:gpu_driver:304.79:*:*:*:*:*:
```

```
cpe:2.3:a:nvidia:gpu_driver:340.52:*:*:*:*:*:
```

cpe:2.3:a:nvidia:gpu_driver:361.91:*****:

cpe:2.3:a:nvidia:gpu_driver:365.19:*****:

cpe:2.3:a:nvidia:gpu_driver:368.81:*****:

No vendor comments have been submitted for this CVE

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