



# CVE-2022-42257

[MITRE](#)[NVD](#)[CVE.ORG](#)[Print: PDF](#)

## Summary

|                        |  |
|------------------------|--|
| <b>CVE</b>             | CVE-2022-42257   |
| <b>State</b>           | PUBLIC   |
| <b>Assigner</b>        | psirt@nvidia.com   |
| <b>Source Priority</b> | CVE Program / NVD first with legacy fallback   |
| <b>Published</b>       | 2022-12-30 23:15:00 UTC  |
| <b>Updated</b>         | 2023-10-19 01:34:00 UTC  |
| <b>Description</b>     | NVIDIA GPU Display Driver for Linux contains a vulnerability in the kernel mode layer (nvidia.ko), where an integer overflow |

## Risk And Classification

**Problem Types:** CWE-190

## NVD Known Affected Configurations (CPE 2.3)

| Type             | Vendor                 | Product   | Version | Update | Edition | Language |
|------------------|------------------------|---|---------|--------|---------|----------|
| Operating System | <a href="#">Citrix</a> | <a href="#">Hypervisor</a>                                    | -       | All    | All     | All      |
| Operating System | <a href="#">Debian</a> | <a href="#">Debian Linux</a>                                  | 10.0    | All    | All     | All      |
| Operating System | <a href="#">Linux</a>  | <a href="#">Linux Kernel</a>                                  | -       | All    | All     | All      |
| Application      | <a href="#">Nvidia</a> | <a href="#">Cloud Gaming</a>                                  | All     | All    | All     | All      |
| Application      | <a href="#">Nvidia</a> | <a href="#">Geforce</a>                                       | -       | All    | All     | All      |
| Application      | <a href="#">Nvidia</a> | <a href="#">Gpu Display Driver</a>                            | All     | All    | All     | All      |
| Application      | <a href="#">Nvidia</a> | <a href="#">Nvs</a>   | -       | All    | All     | All      |
| Application      | <a href="#">Nvidia</a> | <a href="#">Quadro</a>  | -       | All    | All     | All      |
| Application      | <a href="#">Nvidia</a> | <a href="#">Rtx</a>   | -       | All    | All     | All      |
| Application      | <a href="#">Nvidia</a> | <a href="#">Tesla</a>   | -       | All    | All     | All      |
| Application      | <a href="#">Nvidia</a> | <a href="#">Virtual Gpu</a>                                   | All     | All    | All     | All      |
| Operating System | <a href="#">Redhat</a> | <a href="#">Enterprise Linux Kernel-based Virtual Machine</a> | -       | All    | All     | All      |
| Operating System | <a href="#">Vmware</a> | <a href="#">Vsphere</a>                                       | -       | All    | All     | All      |

## References

| Reference   | Source | Link  | Tags |
|---|--------|---|------|
| NVIDIA Drivers: Multiple Vulnerabilities (GLSA 202310-02) — Gentoo security | GENTOO | <a href="https://security.gentoo.org">security.gentoo.org</a> |      |

|  |         |   |                     |
|--|---------|---|---------------------|
| Security Bulletin: NVIDIA GPU Display Driver - November 2022   NVIDIA        | MISC    | <a href="https://nvidia.custhelp.com">nvidia.custhelp.com</a> |                     |
| [SECURITY] [DLA 3418-1] nvidia-graphics-drivers-legacy-390xx security update | MLIST   | <a href="https://lists.debian.org">lists.debian.org</a>       |                     |
| CVE Program record   | CVE.ORG | <a href="https://www.cve.org">www.cve.org</a>                 | canonical           |
| NVD vulnerability detail   | NVD     | <a href="https://nvd.nist.gov">nvd.nist.gov</a>               | canonical, analysis |

No vendor comments have been submitted for this CVE.

### Legacy QID Mappings

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|--|
| <a href="#">181281</a> Debian Security Update for nvidia-graphics-drivers-tesla-460 (CVE-2022-42257)     |
| <a href="#">181778</a> Debian Security Update for nvidia-graphics-drivers-legacy-390xx (DLA 3418-1)      |
| <a href="#">296105</a> Oracle Solaris 11.4 Support Repository Update (SRU) 63.157.1 Missing (CPUOCT2023) |
| <a href="#">6140334</a> AWS Bottlerocket Security Update for kmod-nvidia (GHSA-3qh2-5fxw-wfh3)           |
| <a href="#">710762</a> Gentoo Linux NVIDIA Drivers Multiple Vulnerabilities (GLSA 202310-02)             |

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