



# usb: gadget: f\_mass\_storage: Fix potential integer overflow in check\_command\_size\_in\_blocks()

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

## Summary

<b>CVE</b>	CVE-2026-31412
<b>State</b>	PUBLISHED
<b>Assigner</b>	Linux
<b>Source Priority</b>	CVE Program / NVD first with legacy fallback
<b>Published</b>	2026-04-10 11:16:22 UTC
<b>Updated</b>	2026-04-13 15:02:06 UTC

**Description** In the Linux kernel, the following vulnerability has been resolved: usb: gadget: f\_mass\_storage: Fix potential integer overflow

## Risk And Classification

**EPSS:** 0.000100000 probability, percentile 0.011210000 (date 2026-04-15)

## Vendor Declared Affected Products

Source	Vendor	Product	Version
CNA	<a href="#">Linux</a>	<a href="#">Linux</a>	affected 144974e7f9e32b53b02f6c8632be45d8f43d6ab5 91817ad5452defe69bc7bc0e355f0ed5d01125cc git
CNA	<a href="#">Linux</a>	<a href="#">Linux</a>	affected 144974e7f9e32b53b02f6c8632be45d8f43d6ab5 ce0caaed5940162780c5c223b8ae54968a5f059b git
CNA	<a href="#">Linux</a>	<a href="#">Linux</a>	affected 144974e7f9e32b53b02f6c8632be45d8f43d6ab5 228b37936376143f4b60cc6828663f6eaceb81b5 git
CNA	<a href="#">Linux</a>	<a href="#">Linux</a>	affected 144974e7f9e32b53b02f6c8632be45d8f43d6ab5 3428dc5520c811e66622b2f5fa43341bf9a1f8b3 git
CNA	<a href="#">Linux</a>	<a href="#">Linux</a>	affected 144974e7f9e32b53b02f6c8632be45d8f43d6ab5 387ebb0453b99d71491419a5dc4ab4bee0cacbac gi
CNA	<a href="#">Linux</a>	<a href="#">Linux</a>	affected 144974e7f9e32b53b02f6c8632be45d8f43d6ab5 8479891d1f04a8ce55366fe4ca361ccd96f02e1 git
CNA	<a href="#">Linux</a>	<a href="#">Linux</a>	affected 3.3
CNA	<a href="#">Linux</a>	<a href="#">Linux</a>	unaffected 3.3 semver
CNA	<a href="#">Linux</a>	<a href="#">Linux</a>	unaffected 6.1.167 6.1.* semver
CNA	<a href="#">Linux</a>	<a href="#">Linux</a>	unaffected 6.6.130 6.6.* semver
CNA	<a href="#">Linux</a>	<a href="#">Linux</a>	unaffected 6.12.78 6.12.* semver
CNA	<a href="#">Linux</a>	<a href="#">Linux</a>	unaffected 6.18.19 6.18.* semver
CNA	<a href="#">Linux</a>	<a href="#">Linux</a>	unaffected 6.19.9 6.19.* semver
CNA	<a href="#">Linux</a>	<a href="#">Linux</a>	unaffected 7.0 * original_commit_for_fix

## References

Reference	Source	Link	Tags
<a href="https://git.kernel.org/stable/c/8479891d1f04a8ce55366fe4ca361ccdb96f02e1">git.kernel.org/stable/c/8479891d1f04a8ce55366fe4ca361ccdb96f02e1</a>	416baaa9-dc9f-4396-8d5f-8c081fb06d67	<a href="https://git.kernel.org">git.kernel.org</a>	
<a href="https://git.kernel.org/stable/c/228b37936376143f4b60cc6828663f6eaceb81b5">git.kernel.org/stable/c/228b37936376143f4b60cc6828663f6eaceb81b5</a>	416baaa9-dc9f-4396-8d5f-8c081fb06d67	<a href="https://git.kernel.org">git.kernel.org</a>	
<a href="https://git.kernel.org/stable/c/387ebb0453b99d71491419a5dc4ab4bee0cacbac">git.kernel.org/stable/c/387ebb0453b99d71491419a5dc4ab4bee0cacbac</a>	416baaa9-dc9f-4396-8d5f-8c081fb06d67	<a href="https://git.kernel.org">git.kernel.org</a>	
<a href="https://git.kernel.org/stable/c/3428dc5520c811e66622b2f5fa43341bf9a1f8b3">git.kernel.org/stable/c/3428dc5520c811e66622b2f5fa43341bf9a1f8b3</a>	416baaa9-dc9f-4396-8d5f-8c081fb06d67	<a href="https://git.kernel.org">git.kernel.org</a>	
<a href="https://git.kernel.org/stable/c/91817ad5452defe69bc7bc0e355f0ed5d01125cc">git.kernel.org/stable/c/91817ad5452defe69bc7bc0e355f0ed5d01125cc</a>	416baaa9-dc9f-4396-8d5f-8c081fb06d67	<a href="https://git.kernel.org">git.kernel.org</a>	
<a href="https://git.kernel.org/stable/c/ce0caaed5940162780c5c223b8ae54968a5f059b">git.kernel.org/stable/c/ce0caaed5940162780c5c223b8ae54968a5f059b</a>	416baaa9-dc9f-4396-8d5f-8c081fb06d67	<a href="https://git.kernel.org">git.kernel.org</a>	
CVE Program record	CVE.ORG	<a href="https://www.cve.org">www.cve.org</a>	canonic
NVD vulnerability detail	NVD	<a href="https://nvd.nist.gov">nvd.nist.gov</a>	canonic

No vendor comments have been submitted for this CVE.

There are currently no legacy QID mappings associated with this CVE.

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