Severity

Medium

Analysis Summary

CVE-2022-28193, CVSS 7.3

NVIDIA Jetson Linux Driver Package contains a vulnerability in the Cboot module tegrabl_cbo.c, where insufficient validation of untrusted data may allow a local attacker to cause a memory buffer overflow, which may lead to code execution, loss of integrity, limited denial of service, and some impact to confidentiality.

CVE-2022-28194, CVSS 7.3

NVIDIA Jetson Linux Driver Package contains a vulnerability in the Cboot module tegrabl_cbo.c, where, if TFTP is enabled, a local attacker can cause a memory buffer overflow, which may lead to code execution, loss of Integrity, limited denial of service, and some impact on confidentiality.

CVE-2022-28195, CVSS 5.7

NVIDIA Jetson Linux Driver Package contains a vulnerability in the Cboot ext4_read_file function, where insufficient validation of untrusted data may allow a highly privileged local attacker to cause an integer overflow, which may lead to code execution, escalation of privileges, limited denial of service, and some impact to confidentiality and integrity.

CVE-2022-28196, CVSS 5.7

NVIDIA Jetson Linux Driver Package contains a vulnerability in the Cboot blob_decompress function, where insufficient validation of untrusted data may allow a local attacker to cause a memory buffer overflow, which may lead to code execution, limited loss of Integrity, and limited denial of service.

CVE-2022-28197, CVSS 5.0

NVIDIA Jetson Linux Driver Package contains a vulnerability in the Cboot ext4_mount function, where Insufficient validation of untrusted data may allow a highly privileged local attacker to cause an integer overflow. This difficult-to-exploit vulnerability may lead to code execution, escalation of privileges, limited denial of service, and some impact on confidentiality and integrity.

Impact

- Gain Access

Indicators Of Compromise

CVE

- CVE-2022-28193
- CVE-2022-28194
- CVE-2022-28195
- CVE-2022-28196
- CVE-2022-28197

Affected Vendors

- NVIDIA

Affected Products

- Jetson AGX Xavier series all versions prior to 32.7.2

- Jetson Xavier NX all versions prior to 32.7.2
- Jetson TX2 NX all versions prior to 32.7.2
- Jetson TX2 series all versions prior to 32.7.2
- NVIDIA Jetson Linux Driver Package

Remediation

Refer to NVIDIA Security Advisory for the patch, upgrade, or suggested workaround information.

[NVIDIA Security Advisory](#)