



CVE-2021-28663

[MITRE](#)[NVD](#)[CVE.ORG](#)[Print: PDF !\[\]\(e3f8612927870f2e0f9f5989e6dd3064_img.jpg\)](#)

Summary

CVE	CVE-2021-28663
State	PUBLIC
Assigner	cve@mitre.org
Source Priority	CVE Program / NVD first with legacy fallback
Published	2021-05-10 15:15:00 UTC
Updated	2023-12-13 13:51:00 UTC
Description	The Arm Mali GPU kernel driver allows privilege escalation or information disclosure because GPU memory operations are

Risk And Classification

EPSS: 0.026590000 probability, percentile 0.857110000 (date 2026-04-01)

CISA KEV: Listed on 2021-11-03; due 2021-11-17; ransomware use Unknown

Problem Types: CWE-416

CISA Known Exploited Vulnerability

Vendor	Arm
Product	Mali Graphics Processing Unit (GPU)
Name	Arm Mali Graphics Processing Unit (GPU) Use-After-Free Vulnerability
Required Action	Apply updates per vendor instructions.
Notes	https://nvd.nist.gov/vuln/detail/CVE-2021-28663

NVD Known Affected Configurations (CPE 2.3)

Type	Vendor	Product	Version	Update	Edition	Language
Application	Arm	Bifrost Gpu Kernel Driver	All	All	All	All
Application	Arm	Midgard Gpu Kernel Driver	All	All	All	All
Application	Arm	Midguard Gpu Kernel Driver	All	All	All	All
Application	Arm	Valhall Gpu Kernel Driver	All	All	All	All

References

Reference	Source	L
Arm Security Center	MISC	c

GitHub - Intrix/CVE-2021-28663: A basic PoC leak for CVE-2021-28663 (Internal of the Android kernel backdoor vulnerability)	MISC
Arm Security Updates Mali GPU Driver Vulnerabilities – Arm Developer	CONFIRM
CVE Program record	CVE.ORG
NVD vulnerability detail	NVD
CISA Known Exploited Vulnerabilities catalog	CISA

No vendor comments have been submitted for this CVE.

Legacy QID Mappings

610338 Google Android Devices May 2021 Security Patch Missing

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