



Zebra: Cached Mempool Verification Bypasses Consensus Rules for Ahead-of-Tip Blocks

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

Summary

| | |
|------------------------|---|
| CVE | CVE-2026-40880 |
| State | PUBLISHED |
| Assigner | GitHub_M |
| Source Priority | CVE Program / NVD first with legacy fallback |
| Published | 2026-04-21 20:17:01 UTC |
| Updated | 2026-04-22 21:24:26 UTC |
| Description | ZEBRA is a Zcash node written entirely in Rust. Prior to zebra version 4.3.1 and zebra-consensus version 5.0.2, a logic error |

Risk And Classification

Primary CVSS: v4.0 7.2 HIGH from security-advisories@github.com

CVSS:4.0/AV:N/AC:L/AT:P/PR:L/UI:N/VC:N/VI:H/VA:H/SC:N/SI:H/SA:H/E:X/CR:X/IR:X/AR:X/MAV:X/MAC:X/MAT:X/MPR:X/MUI:X/MVC:X/MVI:X/MVA:X/MSX/MSI:X/MSA:X/S:X/AU:X/R:X/V:X/RE:X/U:X

EPSS: 0.000420000 probability, percentile 0.127860000 (date 2026-04-22)

Problem Types: CWE-1025 | CWE-1025 CWE-1025: Comparison Using Wrong Factors

| Version | Source | Type | Score | Severity | Vector |
|---------|--------------------------------|-----------|-------|----------|--|
| 4.0 | security-advisories@github.com | Secondary | 7.2 | HIGH | CVSS:4.0/AV:N/AC:L/AT:P/PR:L/UI:N/VC:N/VI:H/VA:H/SC:N/SI:H/SA:H/E:X/CR:X/IR:X/AR:X/MAV:X/MAC:X/MAT:X/MPR:X/MUI:X/MVC:X/MVI:X/MVA:X/MSX/MSI:X/MSA:X/S:X/AU:X/R:X/V:X/RE:X/U:X |
| 4.0 | CNA | DECLARED | 7.2 | HIGH | CVSS:4.0/AV:N/AC:L/AT:P/PR:L/UI:N/VC:N/VI:H/VA:H/SC:N/SI:H/SA:H/E:X/CR:X/IR:X/AR:X/MAV:X/MAC:X/MAT:X/MPR:X/MUI:X/MVC:X/MVI:X/MVA:X/MSX/MSI:X/MSA:X/S:X/AU:X/R:X/V:X/RE:X/U:X |

CVSS v4.0 Breakdown

Attack Vector

Network

Attack Complexity

Low

Attack Requirements

Present

Privileges Required

Low

User Interaction

None

Confidentiality

Confidentiality

None

Integrity

High

Availability

High

Sub Conf.

None

Sub Integrity

High

Sub Availability

High

CVSS:4.0/AV:N/AC:L/AT:P/PR:L/UI:N/VC:N/VI:H/VA:H/SC:N/SI:H/SA:H/E:X/CR:X/IR:X/AR:X/MAV:X/MAC:X/MAT:X/MPR:X/MUI:X/MVC:X/MVI:X/MVA:X/MSX:MSI:X/MSA:X/S:X/AU:X/R:X/V:X/RE:X/U:X

Vendor Declared Affected Products

| Source | Vendor | Product | Version | Platforms |
|--------|-----------------|-----------------|------------------|---------------|
| CNA | ZcashFoundation | Zebra | affected < 4.3.1 | Not specified |
| CNA | ZcashFoundation | Zebra-consensus | affected < 5.0.2 | Not specified |

References

| Reference | Source | Link | Tags |
|--|--------------------------------|--------------|--------------|
| github.com/ZcashFoundation/zebra/security/advisories/GHSA-xvj8-ph7x-65gf | security-advisories@github.com | github.com | |
| CVE Program record | CVE.ORG | www.cve.org | canonical |
| NVD vulnerability detail | NVD | nvd.nist.gov | canonical, e |

No vendor comments have been submitted for this CVE.

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

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