



CVE-2021-38194

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[Source: Mitre](#)[Source: NIST](#)[CVE.ORG](#)[Print: PDF](#) 

Certain versions of [Ark-r1cs-std](#) from [Arcworks](#) contain the following vulnerability:

An issue was discovered in the ark-r1cs-std crate before 0.3.1 for Rust. It does not enforce any constraints in the FieldVar::mul_by_inverse method. Thus, a prover can produce a proof that is unsound but is nonetheless verified.

CVE-2021-38194 has been assigned by [M](#) cve@mitre.org to track the vulnerability - currently rated as **CRITICAL** severity.

CVSS3 Score: **9.8 - CRITICAL**

Attack Vector	Attack Complexity	Privileges Required	User Interaction
NETWORK	LOW	NONE	NONE
Scope	Confidentiality Impact	Integrity Impact	Availability Impact
UNCHANGED	HIGH	HIGH	HIGH

CVSS2 Score: **7.5 - HIGH**

Access Vector	Access Complexity	Authentication
NETWORK	LOW	NONE
Confidentiality Impact	Integrity Impact	Availability Impact
PARTIAL	PARTIAL	PARTIAL

CVE References

Description	Tags	Link
	raw.githubusercontent.com text/plain	MISC raw.githubusercontent.com/rustsec/advisory-db/main/crates/ark-r1cs-std/RUSTSEC-2021-0075.md

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There are currently no QIDs associated with this CVE

Known Affected Configurations (CPE V2.3)

Type	Vendor	Product	Version	Update	Edition	Language
Application	Arcworks	Ark-r1cs-std	All	All	All	All
cpe:2.3:a:arcworks:ark-r1cs-std:*:*:*:*:rust:*:*:						

No vendor comments have been submitted for this CVE

Social Mentions

Source	Title	Posted (UTC)
 @CVEreport	CVE-2021-38194 : An issue was discovered in the ark-r1cs-std crate before 0.3.1 for Rust. It does not enforce any c... twitter.com/i/web/status/1...	2021-08-08 06:24:01

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