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RUSTSEC-2021-0075 $\mathsf{History} \cdot \mathsf{Edit}$

Flaw in FieldVar::mul_by_inverse allows unsound R1CS constraint systems

Reported

Issued

Package ark-r1cs-std (crates.io

Туре Categories crypto-failure

Keywords #r1cs #zksnark #arkworks

Aliases CVE-2021-38194

Details https://github.com/arkworks-rs/r1cs-std/pull/70

Patched >=0.3.1

Affected Functions ark_rlcs_std::FieldVar::mul_by_inverse <0.3.0</pre>

Description

Versions 0.2.0 to 0.3.0 of ark-r1cs-std did not enforce any constraints in the FieldVar::mul_by_inverse method, allowing a short_weierstrass::ProjectiveVar

This bug was fixed in commit 47ddbaa , and was released as part of version 0.3.1 on crates.io.