

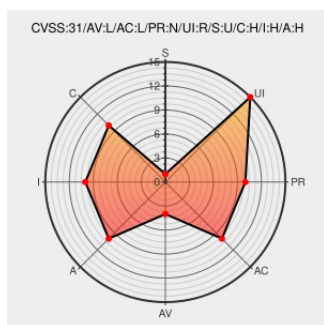


CVE-2020-19725

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CVE-2020-19725

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

Certain versions of [Z3](#) from [Microsoft](#) contain the following vulnerability:

There is a use-after-free vulnerability in file `pdd_simplifier.cpp` in Z3 before 4.8.8. It occurs when the solver attempt to simplify the constraints and causes unexpected memory access. It can cause segmentation faults or arbitrary code execution.

CVE-2020-19725 has been assigned by [M](#) cve@mitre.org to track the vulnerability - currently rated as **HIGH** severity.

CVSS3 Score: **7.8 - HIGH**

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

CVE References

Description	Tags	Link
use after free in ../src/math/grobner/pdd_simplifier.cpp:131 · Issue #3363 · Z3Prover/z3 · GitHub	github.com text/html	MISC github.com/Z3Prover/z3/issues/3363

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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
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Application	Microsoft	Z3	All	All	All	All
cpe:2.3:a:microsoft:z3:*:*:*:*:*:*:						
No vendor comments have been submitted for this CVE						
← Previous ID			Next ID→			

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