

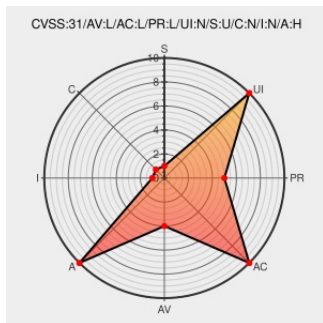


CVE-2022-29213

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CVE-2022-29213 - advisory for GHSA-5889-7v45-q28m

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

Certain versions of [Tensorflow](#) from [Google](#) contain the following vulnerability:

TensorFlow is an open source platform for machine learning. Prior to versions 2.9.0, 2.8.1, 2.7.2, and 2.6.4, the ``tf.compat.v1.signal.rfft2d`` and ``tf.compat.v1.signal.rfft3d`` lack input validation and under certain condition can result in crashes (due to ``CHECK``-failures). Versions 2.9.0, 2.8.1, 2.7.2, and 2.6.4 contain a patch for this issue.

CVE-2022-29213 has been assigned by [security-advisories@github.com](#) to track the vulnerability - currently rated as **MEDIUM** severity.

Affected Vendor/Software: [tensorflow](#) - **tensorflow** version < 2.6.4

Affected Vendor/Software: [tensorflow](#) - **tensorflow** version >= 2.7.0rc0, < 2.7.2

Affected Vendor/Software: [tensorflow](#) - **tensorflow** version >= 2.8.0rc0, < 2.8.1

Affected Vendor/Software: [tensorflow](#) - **tensorflow** version >= 2.9.0rc0, < 2.9.0

CVSS3 Score: **5.5 - MEDIUM**

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

CVSS2 Score: **2.1 - LOW**

Access Vector	Access Complexity	Authentication
LOCAL	LOW	NONE
Confidentiality Impact	Integrity Impact	Availability Impact

NONE

NONE

PARTIAL

CVE References

Description	Tags	Link
<code>`tf.compat.v1.signal.rfft2d`</code> and <code>`rfft3d`</code> lacks input validation leading to crashes · Issue #55263 · tensorflow/tensorflow · GitHub	github.com text/html	 MISC github.com/tensorflow/tensorflow/issues/55263
Release TensorFlow 2.8.1 · tensorflow/tensorflow · GitHub	github.com text/html	 MISC github.com/tensorflow/tensorflow/releases/tag/v2.8.1
Release TensorFlow 2.9.0 · tensorflow/tensorflow · GitHub	github.com text/html	 MISC github.com/tensorflow/tensorflow/releases/tag/v2.9.0
Release TensorFlow 2.7.2 · tensorflow/tensorflow · GitHub	github.com text/html	 MISC github.com/tensorflow/tensorflow/releases/tag/v2.7.2
Release TensorFlow 2.6.4 · tensorflow/tensorflow · GitHub	github.com text/html	 MISC github.com/tensorflow/tensorflow/releases/tag/v2.6.4
Incomplete validation in signal ops leads to crashes · Advisory · tensorflow/tensorflow · GitHub	github.com text/html	 CONFIRM github.com/tensorflow/tensorflow/security/advisories/GHSA-5889-7v45-q28m
Add necessary check in fft ops to fix crash by yongtang · Pull Request #55274 · tensorflow/tensorflow · GitHub	github.com text/html	 MISC github.com/tensorflow/tensorflow/pull/55274
Merge pull request #55274 from yongtang:55263-tf.signal.rfft2d · tensorflow/tensorflow@0a8a781 · GitHub	github.com text/html	 MISC github.com/tensorflow/tensorflow/commit/0a8a781e597b18ead006d19b7d23d0a369e9ad73

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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	Google	Tensorflow	All	All	All	All
Application	Google	Tensorflow	2.7.0	rc0	All	All
Application	Google	Tensorflow	2.7.0	rc1	All	All
Application	Google	Tensorflow	2.8.0	-	All	All
Application	Google	Tensorflow	2.8.0	rc0	All	All
Application	Google	Tensorflow	2.8.0	rc1	All	All
Application	Google	Tensorflow	2.9.0	rc0	All	All

