

Null dereference in Grappler's `TrySimplify`

Low

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Package	
tensorflow, tensorflow-cpu, tensorflow-gpu (pip)	
Affected versions	Patched versions
< 2.5.0	2.1.4, 2.2.3, 2.3.3, 2.4.2

Description

Impact

The implementation of `TrySimplify` has undefined behavior due to dereferencing a null pointer in corner cases that result in optimizing a node with no inputs.

Patches

We have patched the issue in GitHub commit [e6340f0665d53716ef3197ada88936c2a5f7a2d3](#).

The fix will be included in TensorFlow 2.5.0. We will also cherrypick this commit on TensorFlow 2.4.2, TensorFlow 2.3.3, TensorFlow 2.2.3 and TensorFlow 2.1.4, as these are also affected and still in supported range.

For more information

Please consult [our security guide](#) for more information regarding the security model and how to contact us with issues and questions.

Severity

Low

CVE ID

CVE-2021-29616

Weaknesses

No CWEs