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Division by zero in optimized pooling implementations in TFLite

Low mihaimaruseac published GHSA-26j7-6w8w-7922 on May 12, 2021

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

Description

Impact

Optimized pooling implementations in TFLite fail to check that the stride arguments are not 0 before calling ComputePaddingHeightWidth .

Since users can craft special models which will have params->stride_{height, width} be zero, this will result in a division by zero.

Patches

We have patched the issue in GitHub commit 5f7975d09eac0f10ed8a17dbb6f5964977725adc.

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.

This vulnerability has been reported by members of the Aivul Team from Qihoo 360.

Severity Low

CVE ID

CVE-2021-29586

No CWEs