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# Heap buffer overflow READ via unchecked colormap index in XCF loader

High slouken published **GHSA-gq8w-x74c-h6p7** 4 days ago

## Package

### SDL\_image

#### Affected versions

all versions prior to commit 996bf12

#### Patched versions

Patched in:

996bf12888925932daace576e09c3053410896f8

## Description

In `do_layer_surface()` in `src/IMG_xcf.c`, pixel index values from decoded XCF tile data are used directly as colormap indices without validating them against the colormap size (`cm_num`). A crafted `.xcf` file with a small colormap and out-of-range pixel indices causes heap out-of-bounds reads of up to 762 bytes past the colormap allocation.

Both `IMAGE_INDEXED` code paths are affected (`bpp=1` and `bpp=2`). The leaked heap bytes are written into the output surface pixel data, making them potentially observable in the rendered image.

ASAN-confirmed on `x86_64` and `aarch64`.

Patched in: [996bf12](#)

Credit: Sebastián Alba Vives ([@Sebasteuo](#))

## Severity

High 7.1 / 10

**CVSS v3 base metrics**

Attack vector	Network
Attack complexity	Low
Privileges required	None
User interaction	Required
Scope	Unchanged
Confidentiality	High
Integrity	None
Availability	Low

[Learn more about base metrics](#)

CVSS:3.1/AV:N/AC:L/PR:N/UI:R/S:U/C:H/I:N/A:L

**CVE ID**

CVE-2026-35444

**Weaknesses**

▶ CWE-125

**Credits**



**Sebasteuo**

Reporter