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Security Advisory: CVE-2025-70103 - Heap-Based Buffer Overflow in libjxl / cjxl

A heap-based buffer overflow vulnerability was identified in JPEG XL libjxl when processing crafted PBM/PNM images.

Summary: The vulnerability exists in `jxl::extras::DecodeImagePNM()` in `lib/extras/dec/pnm.c

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processing a specially crafted PBM/PNM image, insufficient validation of buffer sizes before memory copy operations may cause `memcpy()` to write past the end of an allocated heap buffer.

The issue was observed as a WRITE of 24 bytes at the end of a 16-byte heap region.

CWE: CWE-122 - Heap-based Buffer Overflow CWE-787 -

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bounds Write

Affected product: JPEG XL / libjxl

Affected component: `lib/extras/dec/pnm.cc` Function: `jxl::extras::DecodeImagePNM()` Affected line: `pnm.cc:554`

Affected version: The issue was reproduced in `cjxl v0.12.0` at commit `24357f189c233c03fb46368a142a0b2c1a949f9d`.

Attack conditions:

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the vulnerable application or library consumer to process a crafted PBM/PNM image. This can be triggered locally via `cjxl` or through software that exposes the `DecodeImagePNM` decoding path to attacker-controlled input.

Example reproduction command: `./cjxl ./2_PBM_lib_extras_dec_pnm_cc_554 --disable_output`

Impact:

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n may cause memory corruption and process termination. The confirmed impact is denial of service (DoS) due to a crash during image processing. No evidence of reliable arbitrary code execution has been identified.

Fix / mitigation status: The upstream issue is closed. A mitigation/ fix proposal was provided in PR

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additional buffer-size, row-boundary, pixel-size, offset, and extra-channel checks. Users are advised to update to a libjxl build that contains the relevant fix once available, or review and apply the mitigation from PR `#4338` where appropriate.

References:
Issue: github.com/libjxl/libjxl/issue...

Fix / mitigation PR:

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/pull/...
github.com
/libjxl/libjxl
/commi...

PoC:
github.com
/sigdevel/p
ocs/blob/...

Credit:
@sigdevel

cve.org/CV
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id=CVE-
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#fuzzing
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#security
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