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Security Advisory: CVE-2025-52292 - Stack-based Buffer Overflow in GPAC/MP4Box

Processing a crafted MP4 file with `MP4Box` can trigger a stack-based buffer overflow in `filein_process()` in `filters/in_file.c`, causing a crash and potential memory corruption.

Summary: The `filein_proc

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function formats a status string into a fixed-size stack buffer using an unsafe `sprintf()` call. When the source path or basename derived from `ctx->src` is long or specially crafted, the generated status string can exceed the 1024-byte `szStatus` stack buffer. AddressSanitizer reports a `stack-buffer-overflow` at `filters/in_file.c:700`, with a `WRITE of

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overflowing the `szStatus` object allocated in the `filein_process()` stack frame. The crash is reachable while MP4Box processes a crafted MP4 file through DASH/file-list handling.

CWE: CWE-121 - Stack-based Buffer Overflow

Affected Component:
```
filters/in_file.c:700
Function: filein_process()
```

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Affected Product: MP4Box (GPAC Multimedia Open Source Project)

Affected Version: 2.5-DEV-rev1174-g3017379f1-master

Attack Conditions: An attacker supplies a crafted MP4 file or causes MP4Box to process a crafted input path/name that expands into an oversized status string. The issue can be reproduced locally with:

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dash 1000 /dev/null 1_poc.mp4
```

No elevated privileges are required. User interaction is required when the victim manually processes the malicious file with MP4Box or an automated workflow invokes MP4Box on attacker-controlled media.

Impact: The immediate observed impact is Denial of Service due to process termination. Because

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```

y is a stack-based buffer overflow with an attacker-influenced write, memory corruption and potential arbitrary code execution cannot be ruled out.

Fix / mitigation status:
The issue was fixed in GPAC commit:
```
bc2fd5bb5c31ae148624767c4a7a17f02c42951b
```
Users should update to a GPAC build containing this

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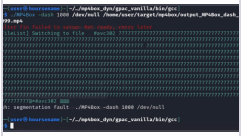
vulnerable status-string formatting path should use bounded formatting with the destination buffer size and should ensure that formatted status messages are truncated or rejected safely.

References:

- Issue: github.com/gpac/gpac/issues/31…
- PoC: github.com/sigdevel/pocs/blob/…
- Fix: github.com/gpac/gpac/commit/bc…

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#fuzzing

#infosec

#security

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