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@si...

Security Advisory: CVE-2025-52293 - Memory Safety Violation in GPAC MP4Box HEVC SPS Parser

Processing a crafted MP4 file containing malformed HEVC SPS data with `MP4Box` can trigger a segmentation fault in `gf_hevc_read_sps_bs_internal()`, causing a Denial of Service.

Summary:

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ad_sps_bs_ internal() function in `media_tools/av_parsers.c` does not safely handle crafted HEVC SPS data while parsing video configuration from a malicious MP4 file. During import and split processing, malformed SPS data reaches the HEVC parser and causes an invalid memory read.

AddressSanitizer reports a `SEGV` caused by a `READ` memory access at

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rs.c:9309`.
The crash occurs while MP4Box processes the crafted file through the isomedia input and NAL replacement/configuration path.

CWE:
CWE classification was not specified in the local MITRE data. This issue is best described as a memory safety violation in HEVC SPS parsing, with an observed out-of-bounds/invalid read leading to

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Affected
Component:
...

media_tools/av_parsers.c:9309
Function:
gf_hevc_read_sps_bs_internal()
...

Affected
Product:
MP4Box
(GPAC
Multimedia
Open
Source
Project)

Affected
Version:
MP4Box
versions
2.4 and
earlier
(GPAC
build at
commit:
8a0d5b43c
242fe4befb
88530e4c9
afef371141
61)

Attack
Conditions:

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crafted
MP4 file
containing
malformed
HEVC SPS
NAL units.
The issue
can be
reproduced
locally
with:

...

```
./MP4Box -  
add  
3_poc.mp4  
-new  
/dev/null -  
split-size  
5000000  
...
```

No
elevated
privileges
are
required.
User
interaction
is required
when the
victim
manually
processes
the
malicious
MP4 file, or
an
automated
workflow

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attacker-controlled media.

Impact:
The immediate observed impact is Denial of Service due to process termination . The local CVE request classifies the issue as a buffer overflow / memory safety violation. The observed ASAN trace shows an invalid read; no evidence of arbitrary code execution was observed.

Fix / mitigation status:

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in GPAC
commit:

...

d091c7e92
ef0b6497b
808e24350
1f500135f
69c4

...

Users should update to a GPAC build containing this commit or later. The parser should validate HEVC SPS bitstream boundaries and reject malformed SPS/NAL data before reading fields from the bitstream.

References

:

- Issue:
github.com

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1...
- PoC:
github.com/sigdevel/pocs/blob/...
- Fix:
github.com/gpac/gpac/commit/d0...

Credit
[@sigdevel](https://twitter.com/sigdevel)



- #fuzzing
- #infosec
- #security
- ...and 10 more

Jun 07, 2026, · 🌐 · We
07:30 PM

2 boosts · 0 qu



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