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sigd...
@si...

Security
Advisory:
CVE-2025-
55642 -
Divide by
Zero in
GPAC
MP4Box
AVI
Demuxer

Processing
a crafted
AVI-like
media file
with
`MP4Box`
can trigger
a division
by zero in
`avidmx_pr
ocess()`,
causing a
floating-
point
exception
and Denial
of Service.

Summary:
The
`avidmx_pr
ocess()`
function in

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x_avi.c` does not sufficiently validate frame-count metadata before using it as a divisor during bitrate computation. When MP4Box processes a specially crafted input with invalid AVI frame metadata, such as a `0/256` frame declaration, the DASH processing path attempts to compute bitrate from the bitstream and divides by zero. AddressSanitizer reports an

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`filters/dm
x_avi.c:639
`
`.

CWE:
CWE-369 -
Divide by
Zero

Affected
Componen
t:
`..`

filters/dmx
_avi.c:639
Function:
avidmx_pro
cess()
`..`

Affected
Product:
MP4Box
(GPAC
Multimedia
Open
Source
Project)

Affected
Version:
GPAC
MP4Box
v2.4 is
affected
according
to the CVE
request
data. The
`.

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on a GPAC
build at
commit:
...

f87b30611
380e4dcd0
3cd4dd9ac
553c0ec33
6826
...

Builds
before the
fix commit
`cea49f684
dbc4d53ec
d6c76a962
3838802a6
8d88`
should be
considered
affected if
they
contain the
vulnerable
AVI
demuxer
bitrate
computatio
n path.

Attack
Conditions:
An attacker
supplies a
crafted
AVI-like
media file
with invalid

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The issue is triggered while processing the file through MP4Box DASH segmentation, for example with a ``-dash`` command using ``14_poc.mp4``. No elevated privileges are required. User interaction is required when the victim manually processes the malicious media file, or an automated workflow invokes MP4Box on attacker-controlled

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Impact:
The immediate observed impact is Denial of Service due to an uncaught floating-point exception and process termination . No evidence of arbitrary code execution was observed.

Fix / mitigation status:

The issue was fixed in GPAC commit:
...

cea49f684
dbc4d53ec
d6c76a962
3838802a6
8d88
...

Users should

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containing
this
commit or
later. The
affected
code
should
validate
`num\_frames` and
related AVI
metadata
before
using
frame
counts in
bitrate
calculations.

References :

- Issue:
[github.com
/gpac/gpac/
issues/31...](https://github.com/gpac/gpac/issues/31)

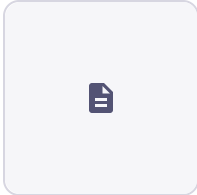
- PoC:
[github.com
/sigdevel/p
ocs/blob/...](https://github.com/sigdevel/pocs/blob/...)

- Fix:
[github.com
/gpac/gpac/
commit/
ce...](https://github.com/gpac/gpac/commit/ce...)

Credit:
[@sigdevel](#)

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A.
Shvedov)



#fuzzing

#infosec

#security

...and 11 more

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Last edited
Jun 12, 11:23
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