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# RSVG 2.40.13 / 2.42.2 - '.svg' Buffer Overflow

**EDB-ID:**

44491

**CVE:**

N/A

**EDB Verified:** ✘

**Author:**

[HAMM3R.PY](#)

**Type:**

[DOS](#)

**Exploit:**  

**Platform:**

[MULTIPLE](#)

**Date:**

2018-04-18

**Vulnerable App:** 





```
# Exploit Title: Buffer-overflow in RSVG while converting a malformed svg
# Date: 17 April 2018
# Exploit Author: Hamm3r.py
# Vendor Homepage: *https://launchpad.net/ubuntu/xenial/+package/librsvg2-bin
# Software Link: *https://launchpad.net/ubuntu/xenial/+package/librsvg2-bin
# Version: Ubuntu: 2.40.13 (Default version that is shipped with ubuntu)
and MAC 2.42.2
# Tested on: Ubuntu 16.04 and MAC 10.13.3
```

RSVG throws a segmentation fault when malformed SVG is submitted as input.

Steps to reproduce:  
rsvg test.png

GDB Stacktrace below:

```
Starting program: /usr/bin/rsvg fuzzed_fdiA0xdf50QPYSN hello.png
[Thread debugging using libthread_db enabled]
Using host libthread_db library "/lib/x86_64-linux-gnu/libthread_db.so.1".
```

Program received signal SIGSEGV, Segmentation fault.

```
_fill_xrgb32_lerp_opaque_spans (abstract_renderer=0x7fffffffbea0, y=18219,
h=1, spans=<optimized out>,
num_spans=<optimized out>) at
../../../../src/cairo-image-compositor.c:2249
2249 ../../../../../../src/cairo-image-compositor.c: No such file or directory.
(gdb) backtrace
#0 0x00007ffff6fd35c0 in _fill_xrgb32_lerp_opaque_spans
(abstract_renderer=0x7fffffffbea0, y=18219, h=1, spans=<optimized out>,
num_spans=<optimized out>) at ../../../../../../src/cairo-image-compositor.c:2249
#1 0x00007ffff7017921 in _cairo_tor_scan_converter_generate (xmax=248,
xmin=192, height=1, y=18219, spans=0x63e438, renderer=0x7fffffffbea0,
cells=<optimized out>)
at ../../../../../../src/cairo-tor-scan-converter.c:1643
#2 0x00007ffff7017921 in _cairo_tor_scan_converter_generate
(renderer=0x7fffffffbea0, antialias=1, winding_mask=<optimized out>,
converter=<optimized out>) at
../../../../src/cairo-tor-scan-converter.c:1794
#3 0x00007ffff7017921 in _cairo_tor_scan_converter_generate
(converter=0x63d3b0, renderer=0x7fffffffbea0)
at ../../../../../../src/cairo-tor-scan-converter.c:1857
#4 0x00007ffff7009c33 in composite_polygon
(extents=extents@entry=0x7ffffffffffd780,
polygon=polygon@entry=0x7ffffffffffd360,
fill_rule=fill_rule@entry=CAIRO_FILL_RULE_WINDING,
antialias=antialias@entry=CAIRO_ANTIALIAS_DEFAULT,
compositor=0x7ffff72b2040 <spans>, compositor=0x7ffff72b2040 <spans>)
at ../../../../../../src/cairo-spans-compositor.c:801
#5 0x00007ffff700a6a5 in clip_and_composite_polygon
(compositor=compositor@entry=0x7ffff72b2040 <spans>,
extents=extents@entry=0x7ffffffffffd780,
polygon=polygon@entry=0x7ffffffffffd360, fill_rule=CAIRO_FILL_RULE_WINDING,
antialias=antialias@entry=CAIRO_ANTIALIAS_DEFAULT) at
../../../../src/cairo-spans-compositor.c:967
#6 0x00007ffff700b5d3 in _cairo_spans_compositor_fill
(_compositor=0x7ffff72b2040 <spans>, extents=0x7ffffffffffd780,
path=<optimized out>, fill_rule=CAIRO_FILL_RULE_WINDING,
tolerance=0.10000000000000001, antialias=CAIRO_ANTIALIAS_DEFAULT) at
../../../../src/cairo-spans-compositor.c:1174
#7 0x00007ffff6fc5a90 in _cairo_compositor_fill (compositor=0x7ffff72b2040
<spans>, surface=0x6399a0, op=<optimized out>, source=<optimized out>,
path=0x639768, fill_rule=CAIRO_FILL_RULE_WINDING,
tolerance=0.10000000000000001, antialias=CAIRO_ANTIALIAS_DEFAULT, clip=0x0)
at ../../../../../../src/cairo-compositor.c:203
#8 0x00007ffff6fd7127 in _cairo_image_surface_fill
```

