

Trigger a unhandled exception in GIMP 2.10.30

```
GNU Image Manipulation Program version 2.10.30
git-describe: Unknown, shouldn't happen
Build: org.gimp.GIMP_official rev 0 for windows
# C compiler #

Using built-in specs.
COLLECT_GCC=W:\msys64-gtk2\mingw64\bin\gcc.exe
COLLECT_LTO_WRAPPER=W:\msys64-gtk2\mingw64\bin/../lib/gcc/x86_64-w64-mingw32/11.2.0/lto-wrap
Target: x86_64-w64-mingw32
Configured with: ../gcc-11.2.0/configure --prefix=/mingw64 --with-local-prefix=/mingw64/loca
Thread model: posix
Supported LTO compression algorithms: zlib zstd
gcc version 11.2.0 (Rev5, Built by MSYS2 project)
```

```
# Libraries #
using babl version 0.1.88 (compiled against version 0.1.88)
using GEGL version 0.4.34 (compiled against version 0.4.34)
using GLib version 2.70.2 (compiled against version 2.70.2)
using GdkPixbuf version 2.42.6 (compiled against version 2.42.6)
using GTK+ version 2.24.33 (compiled against version 2.24.33)
using Pango version 1.50.2 (compiled against version 1.50.2)
using Fontconfig version 2.13.94 (compiled against version 2.13.94)
using Cairo version 1.17.4 (compiled against version 1.17.4)
```

fatal error: unhandled exception

Stack trace:

```
-----

Error occurred on Friday, June 3, 2022 at 15:37:43.

gimp-2.10.exe caused an Access Violation at location 00007FF692DE9E5C in module gimp-2.10.exe Writin

AddrPC          Params
00007FF692DE9E5C 000001C7F701D540 00007FF692DB3D5F 000001C700000000 gimp-2.10.exe!gimp_tool_cursors
00007FF692DB5A4 000001C7F5B001D0 0000007EBE1FEE90 000001C700000000 gimp-2.10.exe!gimp_tool_cursors
00007FF692DB6B74 0000007EBE1FEF52 00007FF6931F7610 0000000000000000 gimp-2.10.exe!gimp_tool_cursors
00007FF692C83BCF 000001C7EBD2D290 00007FFBB6D653A6 0000000000000000 gimp-2.10.exe!gimp_tool_cursors
00007FF692C7F340 000001C7EBDC8310 000001C7F663A430 000001C7B1B27370 gimp-2.10.exe!gimp_tool_cursors
00007FF692C7F4F9 000001C7EBDC8810 000001C7F4594560 0000000000000001 gimp-2.10.exe!gimp_tool_cursors
00007FF692D21BE0 000001C7EBEC7240 000001C7EBEF50B0 000001C700000003 gimp-2.10.exe!gimp_tool_cursors
00007FF692D14FF9 0000000000000003 00007FF692D14AF4 0000000000000000 gimp-2.10.exe!gimp_tool_cursors
00007FF692D0E43C 0000000000000000 0000000000000020 000001C7F7156780 gimp-2.10.exe!gimp_tool_cursors
00007FF692D0E8B7 000001C7EBE70C80 000001C7EBECA230 000001C7F663A430 gimp-2.10.exe!gimp_tool_cursors
00007FF692E304A4 0000000000000000 0000000000000000 000001C7F663A430 gimp-2.10.exe!gimp_core_pixbufs
00007FF692DDA679 000001C7EBD2D290 0000000000000000 0000000000000000 gimp-2.10.exe!gimp_tool_cursors
00007FF692DDA785 000001C7F7021760 000001C7F7043F10 000001C7F65BC168 gimp-2.10.exe!gimp_tool_cursors
00007FF692C4AE7C 000001C7B3B79860 00007FFBB6B5BB20 0000000000000000 gimp-2.10.exe!gimp_tool_cursors
00007FFBB6B58D47 000001C700000000 0000007EBE1FF688 000001C7B3B26870 libglib-2.0.dll!g_clear_list
00007FFBB6B5BEDE 0000000000000000 0000000000000000 000001C7EBD2D290 libglib-2.0.dll!g_main_contex
00007FFBB6B5C3FC 0000000000000000 0000000000000000 0000000000000000 libglib-2.0.dll!g_main_loop_r
00007FF692A31A2B 00007FFC2C7093B0 000001C7B1B4E480 000001C7B1C00860 gimp-2.10.exe!0x7ff600001a2b
00007FF692ECF67F 0000000000000000 000001C7B1B50E60 0000000000000000 gimp-2.10.exe!gimp_core_pixbufs
00007FF692A313B1 0000000000000000 0000000000000000 0000000000000000 gimp-2.10.exe!0x7ff6000013b1
00007FF692A314C6 0000000000000000 0000000000000000 0000000000000000 gimp-2.10.exe!0x7ff6000014c6
00007FFC2C7054E0 0000000000000000 0000000000000000 0000000000000000 KERNEL32.DLL!BaseThreadInitThun
00007FFC2E80485B 0000000000000000 0000000000000000 0000000000000000 ntdll.dll!RtlUserThreadStart

gimp-2.10.exe 2.10.30.0
ntdll.dll 10.0.22000.653
KERNEL32.DLL 10.0.22000.675
KERNELBASE.dll 10.0.22000.675
msvcrt.dll 7.0.22000.1
```

ole32.dll	10.0.22000.120
msvcp_win.dll	10.0.22000.1
ucrtbase.dll	10.0.22000.1
GDI32.dll	10.0.22000.1
win32u.dll	10.0.22000.675
gdi32full.dll	10.0.22000.675
USER32.dll	10.0.22000.282
combase.dll	10.0.22000.653
RPCRT4.dll	10.0.22000.675
SHELL32.dll	10.0.22000.593
libgimpmodule-2.0-0.dll	
libgimpcolor-2.0-0.dll	
libgimpmath-2.0-0.dll	
libgimpconfig-2.0-0.dll	
libgimpthumb-2.0-0.dll	
libgimpwidgets-2.0-0.dll	
libgimpbase-2.0-0.dll	
exchndl.dll	0.8.2.0
PSAPI.DLL	10.0.22000.1
libbabl-0.1-0.dll	
libcairo-2.dll	
dbghelp.dll	6.3.9600.17298
libfontconfig-1.dll	
libgdk_pixbuf-2.0-0.dll	2.42.6.0
libfreetype-6.dll	2.11.1.0
ADVAPI32.dll	10.0.22000.653
sechost.dll	10.0.22000.556
libgexiv2-2.dll	
libgio-2.0-0.dll	2.70.2.0
libgobject-2.0-0.dll	2.70.2.0
libglib-2.0-0.dll	2.70.2.0
SHLWAPI.dll	10.0.22000.1
WS2_32.dll	10.0.22000.1
libharfbuzz-0.dll	
libintl-8.dll	0.19.8.0
libjson-glib-1.0-0.dll	
liblcms2-2.dll	
libmypaint-0.dll	
libpangoft2-1.0-0.dll	1.50.2.0
libpango-1.0-0.dll	1.50.2.0
libpangocairo-1.0-0.dll	1.50.2.0
zlib1.dll	
libgdk-win32-2.0-0.dll	2.24.33.0
libgegl-0.4-0.dll	
libgegl-npd-0.4.dll	
libgtk-win32-2.0-0.dll	2.24.33.0
IMM32.dll	10.0.22000.1
libgmodule-2.0-0.dll	2.70.2.0
mscms.dll	10.0.22000.469
comdlg32.dll	10.0.22000.527
VERSION.dll	10.0.22000.1
shcore.dll	10.0.22000.613
MSIMG32.dll	10.0.22000.1
mgwhelp.dll	0.8.2.0
libgcc_s_seh-1.dll	
libpixmap-1-0.dll	
libexpat-1.dll	
libpng16-16.dll	
libiconv-2.dll	1.16.0.0
gdiplus.dll	10.0.22000.675
libbz2-1.dll	
libbrotlidec.dll	
libstdc++-6.dll	
libffi-7.dll	
DNSAPI.dll	10.0.22000.653
IPHLAPI.DLL	10.0.22000.282
USP10.dll	10.0.22000.1
libexiv2.dll	
libwinpthread-1.dll	1.0.0.0
libpcre-1.dll	
libgraphite2.dll	
libjson-c-5.dll	

libpangowin32-1.0-0.dll 1.50.2.0
libfribidi-0.dll
libthai-0.dll
COMCTL32.dll 5.82.22000.1
bcrypt.dll 10.0.22000.1
cfgmgr32.dll 10.0.22000.1
WINSPOOL.DRV 10.0.22000.675
libatk-1.0-0.dll 2.36.0.0
libbrotlicommon.dll
libcurl-4.dll
CRYPT32.dll 10.0.22000.348
WLDAP32.dll 10.0.22000.675
libdatrie-1.dll
libnghttp2-14.dll
libidn2-0.dll
libcrypto-1_1-x64.dll 1.1.1.12
libpsl-5.dll
libssh2-1.dll
libssl-1_1-x64.dll 1.1.1.12
libzstd.dll
libunistring-2.dll 0.9.10.0
NSI.dll 10.0.22000.1
windows.storage.dll 10.0.22000.675
wintypes.dll 10.0.22000.527
kernel.appcore.dll 10.0.22000.71
bcryptPrimitives.dll 10.0.22000.376
uxtheme.dll 10.0.22000.120
MSCTF.dll 10.0.22000.527
avx2-int8.dll
cairo.dll
CIE.dll
double.dll
fast-float.dll
float.dll
gegl-fixups.dll
gegl-lies.dll
gegl-table-lies.dll
gegl-table.dll
gegl.dll
gimp-8bit.dll
grey.dll
half.dll
HCY.dll
HSL.dll
HSV.dll
naive-CMYK.dll
simple.dll
sse-half.dll
sse2-float.dll
sse2-int16.dll
sse2-int8.dll
sse4-int8.dll
two-table.dll
u16.dll
u32.dll
ycbcr.dll
gegl-core.dll
profapi.dll 10.0.22000.1
OLEAUT32.dll 10.0.22000.1
clbcatq.dll 2001.12.10941.16384
propsys.dll 7.0.22000.37
apphelp.dll 10.0.22000.282
NetworkExplorer.dll 10.0.22000.51
winhttp.dll 10.0.22000.1
exr-load.dll
libIlmImf-2_5.dll
libIex-2_5.dll
libHalf-2_5.dll
libIlmThread-2_5.dll
libImath-2_5.dll
gegl-common-gpl3.dll
gegl-common.dll

gif-load.dll
jp2-load.dll
libjasper-4.dll
libjpeg-8.dll
jpg-load.dll
pdf-load.dll
libpoppler-glib-8.dll
libpoppler-115.dll
nss3.dll 3.73.1.0
libnspr4.dll 4.31.0.0
libplc4.dll 4.31.0.0
smime3.dll 3.73.1.0
libopenjp2-7.dll
libtiff-5.dll
libplds4.dll 4.31.0.0
nssutil3.dll 3.73.1.0
MSWSOCK.dll 10.0.22000.1
WINMM.dll 10.0.22000.1
libjbig-0.dll
libdeflate.dll
libLerc.dll
liblzma-5.dll 5.2.5.0
libwebp-7.dll
pixbuf-load.dll
png-load.dll
ppm-load.dll
raw-load.dll
libraw-20.dll
libgomp-1.dll
rgbe-load.dll
svg-load.dll
librsvg-2-2.dll
libcairo-gobject-2.dll
USERENV.dll 10.0.22000.1
libxml2-2.dll
text.dll
tiff-load.dll
webp-load.dll
exr-save.dll
jpg-save.dll
npy-save.dll
pixbuf-save.dll
png-save.dll
ppm-save.dll
rgbe-save.dll
SDL2-display.dll
SDL2.dll 2.0.18.0
SETUPAPI.dll 10.0.22000.469
tiff-save.dll
webp-save.dll
gegl-common-cxx.dll
lcms-from-profile.dll
npd.dll
path.dll
transformops.dll
vector-stroke.dll
seamless-clone-compose.dll
gegl-generated.dll
matting-levin.dll
libumfpack.dll
libamd.dll
libsuitesparseconfig.dll
libcholmod.dll
libcamd.dll
libccolamd.dll
libmetis.dll
libcolamd.dll
libopenblas.dll
libgfortran-5.dll
libquadmath-0.dll
seamless-clone.dll
libgegl-sc-0.4.dll

```
libwimp.dll
libpixmap.dll
libpixbufloader-png.dll
libpixbufloader-svg.dll
icm32.dll      10.0.22000.469
textinputframework.dll  10.0.22000.282
CoreMessaging.dll      10.0.22000.71
CoreUIComponents.dll   10.0.22000.132
CRYPTBASE.DLL  10.0.22000.1
PalmInputTSF.dll      2.7.0.1702
ntmarta.dll  10.0.22000.1
AppXDeploymentClient.dll      10.0.22000.469
urlmon.dll      11.0.22000.653
iertutil.dll    11.0.22000.653
netutils.dll    10.0.22000.434
srvcli.dll      10.0.22000.613
TextShaping.dll
Windows.ApplicationModel.dll  10.0.22000.593
mssprxy.dll     7.0.22000.593
mrmcorer.dll    10.0.22000.120
windows.staterepositorycore.dll  10.0.22000.65
windows.staterepositoryclient.dll  10.0.22000.653
bcp47mrm.dll   10.0.22000.65
Windows.UI.dll  10.0.22000.1
CRYPTSP.dll      10.0.22000.1
rsaenh.dll      10.0.22000.282
shfolder.dll    10.0.22000.1
webio.dll       10.0.22000.1
WINNSI.DLL      10.0.22000.1
SspiCli.dll     10.0.22000.556
rasadhlp.dll    10.0.22000.1
fwpuclnt.dll    10.0.22000.593
schannel.DLL    10.0.22000.675
mskeyprotect.dll      10.0.22000.1
NTASN1.dll      10.0.22000.1
ncrypt.dll      10.0.22000.1
ncryptsslp.dll  10.0.22000.1
MSASN1.dll      10.0.22000.1
DPAPI.DLL       10.0.22000.1
comctl32.dll    6.10.22000.120
WindowsCodecs.dll      10.0.22000.653

Windows 10.0.22000
DrMingw 0.8.2
```

📁 Drag your designs here or [click to upload](#).

Tasks 📌 0

No tasks are currently assigned. Use tasks to break down this issue into smaller parts.

Linked items 📌 0


Activity



Jacob Boerema @Wormnest · 5 months ago

Developer

@Mask6asok Can you tell us what you were doing when this happened?




Mask6asok @Mask6asok · 5 months ago

Author



I made a XCF file and when i use gimp to open it, that happened

Please [register](#) or [sign in](#) to reply

 **Jacob Boerema** added [1. Crash](#) [2. Needs Information](#) [2.10.30](#) [OS: Windows](#) labels [5 months ago](#)

 **Mask6asok** @Mask6asok · [5 months ago](#)
R12 is zero, so access to memory in 0x8c

Author

 **Mask6asok** @Mask6asok · [5 months ago](#)
 [crash.xcf](#) This file can trigger it.

Author

 **Jacob Boerema** @Wormnest · [5 months ago](#)

Developer

Thanks. I can reproduce and will work on improvements to our xcf loading code.

Did you create this using fuzzing. It doesn't look like a xcf that would be saved in the normal way.

If you are a security researcher and need to coordinate publication of details with us, then please let us know.

 **Mask6asok** @Mask6asok · [5 months ago](#)

Author

Yes, I am a security researcher, and I used AFL to find this crash on the previous version, so I tried it on the latest version and it still worked...

 **Jacob Boerema** @Wormnest · [5 months ago](#)

Developer

`gimp_channel_is_empty` returns FALSE if channel is NULL, see [here](#). This causes `gimp_layer_invalidate_boundary` to crash [here](#).

With a NULL channel `gimp_channel_is_empty` should return TRUE, just like the similar `gimp_image_is_empty` does.

Besides that, we should also more closely check image dimensions to be in a valid range, as well as offsets to layer and channel data.

 **Jehan** @Jehan · [5 months ago](#)

Maintainer

Is that enough to apply for CVE?

[@Mask6asok](#) You are not forced to make a CVE. It's just that if you wish to make one, please tell us in advance. And if it's something possibly bad, ask the CVE maintainers to make it confidential at first (until release of the fix). If we need to make this report confidential too, we can.

But other than this, just reporting the issue, as you already did here (thanks for this!), and helping us fix it is already great, and creating a CVE is at your discretion. We don't care about existences or not of CVEs. We fix bugs because they are bugs and we want GIMP to evolve and be better, that's all.

The bottom line: CVE is unneeded but if you make one, communicate with us. Problems happen usually when bugs are irresponsibly spread on CVE databases (which have a lot of visibility) without communication. 🙄

Can you tell me how to apply for a CVE ID.

We don't make CVE that often. I think this page details the process: <https://oss-security.openwall.org/wiki/mailling-lists/oss-security> (there is a CVE request link at the bottom)

But once again, you don't have to.

Please [register](#) or [sign in](#) to reply

 **Jacob Boerema** changed milestone to [%2.10.32](#) [5 months ago](#)

 **Jacob Boerema** mentioned in commit [24c962b9](#) [5 months ago](#)

[Jacob Boerema](#) mentioned in commit [a8428692](#) 5 months ago

[Jacob Boerema](#) closed via commit [22af0bcf](#) 5 months ago

[Jacob Boerema](#) mentioned in commit [e7d4b580](#) 5 months ago

[Jacob Boerema](#) mentioned in commit [74495943](#) 5 months ago

[Jacob Boerema](#) mentioned in commit [6ab90ecb](#) 5 months ago

[Jacob Boerema](#) @Wormnest · 5 months ago

Developer

The crash is fixed in master and the 2.10 branch with

Edit (cited the wrong commit at first)

```
app: fix #8230 crash in gimp_layer_invalidate_boundary when channel is NULL
```

`gimp_channel_is_empty` returns FALSE if channel is NULL. This causes `gimp_layer_invalidate_boundary` to crash if the mask channel is NULL.

With a NULL channel `gimp_channel_is_empty` should return TRUE, just like the similar `gimp_image_is_empty` does, because returning FALSE here suggests we have a non empty channel.

and

```
app: check max dimensions when loading xcf files
```

Improvements in loading broken xcf files, based on examining issue #8230. Besides checking for a minimum width and height, GIMP also has a maximum size we can and should check.

In the case of the image itself, we change invalid dimensions to a size of 1 in hope that the individual layers etc will have the correct size. For layer, we will also try to go on, but for channel and layer mask, we will give up.

The other two commits add some extra safety checks based on the other problems in the supplied XCF file.

We plan to release 2.10.32 "soon". We haven't discussed a new release for the development branch yet.

Edited by [Jacob Boerema](#) 5 months ago

[Jacob Boerema](#) mentioned in issue [#1844 \(closed\)](#) 5 months ago

[Jacob Boerema](#) mentioned in commit [22af0bcf](#) 5 months ago

[Mask6asok](#) @Mask6asok · 4 months ago

Author

CVE-2022-32990

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