

AddressSanitizer: stack-buffer-overflow /home/lin/Downloads/libtiff/tools/tiffcp.c:289 in main

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Version

```
→ tiffcp_test2 ./tiffcp -v
./tiffcp: invalid option -- 'v'
LIBTIFF, Version 4.3.0
Copyright (c) 1988-1996 Sam Leffler
Copyright (c) 1991-1996 Silicon Graphics, Inc.
```

At branch [5e180045](#) (libtiff version)

Steps to reproduce

```
git clone git@github.com:libtiff/libtiff.git
cd libtiff/
./autogen.sh
./configure CC=gcc CXX=g++ CFLAGS="-g -fsanitize=address" --disable-shared & make
./tools/tiffcp -8 -8 -8 -8 -8 -8 -8 -8 -8 -8 ./i ./i
```

(How one can reproduce the issue - this is very important)

Platform

```
→ libtiff git:(master) X gcc --version
gcc (Ubuntu 7.5.0-3ubuntu1~18.04) 7.5.0
Copyright (C) 2017 Free Software Foundation, Inc.
This is free software; see the source for copying conditions. There is NO
warranty; not even for MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE.

→ libtiff git:(master) X uname -r
5.4.0-91-generic
→ libtiff git:(master) X lsb_release -a
No LSB modules are available.
Distributor ID: Ubuntu
Description:    Ubuntu 18.04.5 LTS
Release:        18.04
Codename:       bionic
```

(Operating system, architecture, compiler details)

- ASAN

```
→ libtiff git:(Fix_Issue#330) X ./tools/tiffcp -8 -8 -8 -8 -8 -8 -8 -8 -8 -8 ./i ./i
=====
==32123==ERROR: AddressSanitizer: stack-buffer-overflow on address 0x7ffe708226ea at pc 0x5571a24c4b
WRITE of size 1 at 0x7ffe708226ea thread T0
#0 0x5571a24c4be7 in main /home/lin/Downloads/libtiff/tools/tiffcp.c:289
#1 0x7f65ba8d5c86 in __libc_start_main (/lib/x86_64-linux-gnu/libc.so.6+0x21c86)
#2 0x5571a24c3a49 in _start (/home/lin/Downloads/libtiff/tools/tiffcp+0x23a49)


Address 0x7ffe708226ea is located in stack of thread T0 at offset 170 in frame
#0 0x5571a24c4107 in main /home/lin/Downloads/libtiff/tools/tiffcp.c:181


This frame has 3 object(s):
[32, 34) 'samples'
[96, 104) 'imageCursor'
[160, 170) 'mode' <== Memory access at offset 170 overflows this variable
HINT: this may be a false positive if your program uses some custom stack unwind mechanism or swapco
(longjmp and C++ exceptions *are* supported)
SUMMARY: AddressSanitizer: stack-buffer-overflow /home/lin/Downloads/libtiff/tools/tiffcp.c:289 in m
Shadow bytes around the buggy address:
0x10004e0fc480: 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
```

```
0x10004e0fc490: 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
0x10004e0fc4a0: 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
0x10004e0fc4b0: 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
0x10004e0fc4c0: 00 00 00 00 00 00 00 00 f1 f1 f1 f1 02 f2 f2 f2
=>0x10004e0fc4d0: f2 f2 f2 f2 00 f2 f2 f2 f2 f2 f2 f2 00[02]f2 f2
0x10004e0fc4e0: 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
0x10004e0fc4f0: 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
0x10004e0fc500: 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
0x10004e0fc510: 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
0x10004e0fc520: 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
Shadow byte legend (one shadow byte represents 8 application bytes):
Addressable:          00
Partially addressable: 01 02 03 04 05 06 07
Heap left redzone:    fa
Freed heap region:    fd
Stack left redzone:    f1
Stack mid redzone:     f2
Stack right redzone:   f3
Stack after return:    f5
Stack use after scope: f8
Global redzone:        f9
Global init order:     f6
Poisoned by user:      f7
Container overflow:    fc
Array cookie:          ac
Intra object redzone:  bb
ASan internal:         fe
Left alloca redzone:   ca
Right alloca redzone:  cb
==32123==ABORTING
```


Because it's a command line argument problem, there is no poc.

Thanks !!


 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

Link issues together to show that they're related or that one is blocking others. [Learn more](#).

Related merge requests  1






 [tiffcp: avoid buffer overflow in "mode" string.\(fixes #400\)](#)

1323



When this merge request is accepted, this issue will be closed automatically.

Activity

-  [Su Laus](#) mentioned in merge request [1323 \(merged\)](#) 7 months ago
-  [Even Rouault](#) mentioned in commit [9752dae8](#) 7 months ago
-  [Even Rouault](#) closed via merge request [1324 \(merged\)](#) 7 months ago
-  [Even Rouault](#) mentioned in commit [c1ae29f9](#) 6 months ago
-  [Su Laus](#) mentioned in commit [gitlab-org/build/omnibus-mirror/libtiff@fb1db384](#) 6 months ago

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