

An untold story of skype by microsoft

An untold story of skype by microsoft - Dhiraj Mishra, inputzero.io.

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Content

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Hi Internet,

**Summary: It was observed that the skype has a malloc(): memory corruption bug while you share some media/file with someone during a call.* * **

Tested on: **Linux zero 4.15.0-29-generic #31-Ubuntu SMP Tue Jul 17 15:39:52 UTC 2018 x86_64 x86_64 x86_64 GNU/Linux (Ubuntu 18.04 LTS)

****Product affected:** Skype for linux (skypeforlinux_8.27.0.85_amd64.deb)

Steps to reproduce this issue:

1. Open Skype
2. Call anyone
3. During the call try sharing the media or files to the same person
4. The Skype gets crash.

While on a call with one of my colleague, I tried sharing a file which froze my skype and then it gets crash. However moving further I tried to debug it with `gdb` and this is what i got.

```
$ *** Error in `/snap/skype/51/usr/share/skypeforlinux/skypeforlinux --executed-from=/home/input0 --pid=6896': malloc
===== Backtrace: =====
/snap/core/current/lib/x86_64-linux-gnu/libc.so.6(+0x777e5)[0x7fb57d6b97e5]
/snap/core/current/lib/x86_64-linux-gnu/libc.so.6(+0x8213e)[0x7fb57d6c413e]
/snap/core/current/lib/x86_64-linux-gnu/libc.so.6(__libc_malloc+0x54)[0x7fb57d6c6184]
/snap/skype/51/usr/share/skypeforlinux/skypeforlinux --executed-from=/home/input0 --pid=6896(malloc+0x1c)[0x47c
/snap/skype/51/usr/share/skypeforlinux/./././lib/x86_64-linux-gnu/libglib-2.0.so.0(g_malloc+0x19)[0x7fb57ff91719]
/snap/skype/51/usr/share/skypeforlinux/./././lib/x86_64-linux-gnu/libglib-2.0.so.0(+0x8508d)[0x7fb57ffc708d]
/snap/skype/51/usr/share/skypeforlinux/./././lib/x86_64-linux-gnu/libglib-2.0.so.0(g_variant_get_data+0x1f)[0x7fb57ff
/snap/skype/51/usr/share/skypeforlinux/./././lib/x86_64-linux-gnu/libglib-2.0.so.0(g_variant_get+0xda)[0x7fb57ffc610
/usr/lib/x86_64-linux-gnu/gio/modules/libgioremote-volume-monitor.so(+0xc873)[0x7fb57314b873]
/usr/lib/x86_64-linux-gnu/gio/modules/libgioremote-volume-monitor.so(+0x10f2e)[0x7fb57314ff2e]
/usr/lib/x86_64-linux-gnu/gio/modules/libgioremote-volume-monitor.so(+0x11dcb)[0x7fb573150dcb]
/snap/skype/51/usr/share/skypeforlinux/./././lib/x86_64-linux-gnu/libgobject-2.0.so.0(+0x15ad8)[0x7fb5824c3ad8]
/snap/skype/51/usr/share/skypeforlinux/./././lib/x86_64-linux-gnu/libgobject-2.0.so.0(g_object_newv+0xd1)[0x7fb5824c
/snap/skype/51/usr/share/skypeforlinux/./././lib/x86_64-linux-gnu/libgobject-2.0.so.0(g_object_new+0x104)[0x7fb5824c
/snap/skype/51/usr/share/skypeforlinux/./././lib/x86_64-linux-gnu/libgio-2.0.so.0(g_volume_monitor_get+0x7c)[0x7fb58
/snap/skype/51/usr/share/skypeforlinux/./././lib/x86_64-linux-gnu/libgtk-3.so.0(+0x25c3d5)[0x7fb583ba53d5]
/snap/skype/51/usr/share/skypeforlinux/./././lib/x86_64-linux-gnu/libgobject-2.0.so.0(g_type_create_instance+0x1f9)[0x
/snap/skype/51/usr/share/skypeforlinux/./././lib/x86_64-linux-gnu/libgobject-2.0.so.0(+0x1531b)[0x7fb5824c331b]
/snap/skype/51/usr/share/skypeforlinux/./././lib/x86_64-linux-gnu/libgobject-2.0.so.0(g_object_newv+0xd1)[0x7fb5824c
/snap/skype/51/usr/share/skypeforlinux/./././lib/x86_64-linux-gnu/libgtk-3.so.0(+0x11a75a)[0x7fb583a6375a]
/snap/skype/51/usr/share/skypeforlinux/./././lib/x86_64-linux-gnu/libgtk-3.so.0(+0x11ce73)[0x7fb583a65e73]
/snap/skype/51/usr/share/skypeforlinux/./././lib/x86_64-linux-gnu/libglib-2.0.so.0(+0x4d5a3)[0x7fb57ff8f5a3]
/snap/skype/51/usr/share/skypeforlinux/./././lib/x86_64-linux-gnu/libglib-2.0.so.0(g_markup_parse_context_parse+0x
/snap/skype/51/usr/share/skypeforlinux/./././lib/x86_64-linux-gnu/libgtk-3.so.0(+0x11d8d6)[0x7fb583a668d6]
/snap/skype/51/usr/share/skypeforlinux/./././lib/x86_64-linux-gnu/libgtk-3.so.0(gtk_builder_extend_with_template+0x1
/snap/skype/51/usr/share/skypeforlinux/./././lib/x86_64-linux-gnu/libgtk-3.so.0(gtk_widget_init_template+0x107)[0x7fb
/snap/skype/51/usr/share/skypeforlinux/./././lib/x86_64-linux-gnu/libgtk-3.so.0(+0x1ae4f1)[0x7fb583af74f1]
/snap/skype/51/usr/share/skypeforlinux/./././lib/x86_64-linux-gnu/libgobject-2.0.so.0(g_type_create_instance+0x1f9)[0x
/snap/skype/51/usr/share/skypeforlinux/./././lib/x86_64-linux-gnu/libgobject-2.0.so.0(+0x1531b)[0x7fb5824c331b]
/snap/skype/51/usr/share/skypeforlinux/./././lib/x86_64-linux-gnu/libgobject-2.0.so.0(g_object_newv+0xd1)[0x7fb5824c
/snap/skype/51/usr/share/skypeforlinux/./././lib/x86_64-linux-gnu/libgtk-3.so.0(+0x11a75a)[0x7fb583a6375a]
/snap/skype/51/usr/share/skypeforlinux/./././lib/x86_64-linux-gnu/libgtk-3.so.0(+0x11bb65)[0x7fb583a64b65]
/snap/skype/51/usr/share/skypeforlinux/./././lib/x86_64-linux-gnu/libgtk-3.so.0(+0x11d4f1)[0x7fb583a664f1]
/snap/skype/51/usr/share/skypeforlinux/./././lib/x86_64-linux-gnu/libglib-2.0.so.0(+0x4d6d7)[0x7fb57ff8f6d7]
/snap/skype/51/usr/share/skypeforlinux/./././lib/x86_64-linux-gnu/libglib-2.0.so.0(g_markup_parse_context_parse+0x
/snap/skype/51/usr/share/skypeforlinux/./././lib/x86_64-linux-gnu/libgtk-3.so.0(+0x11d8d6)[0x7fb583a668d6]
/snap/skype/51/usr/share/skypeforlinux/./././lib/x86_64-linux-gnu/libgtk-3.so.0(gtk_builder_extend_with_template+0x1
/snap/skype/51/usr/share/skypeforlinux/./././lib/x86_64-linux-gnu/libgtk-3.so.0(gtk_widget_init_template+0x107)[0x7fb
/snap/skype/51/usr/share/skypeforlinux/./././lib/x86_64-linux-gnu/libgtk-3.so.0(+0x1a773e)[0x7fb583af073e]
/snap/skype/51/usr/share/skypeforlinux/./././lib/x86_64-linux-gnu/libgobject-2.0.so.0(g_type_create_instance+0x1f9)[0x
/snap/skype/51/usr/share/skypeforlinux/./././lib/x86_64-linux-gnu/libgobject-2.0.so.0(+0x1531b)[0x7fb5824c331b]
/snap/skype/51/usr/share/skypeforlinux/./././lib/x86_64-linux-gnu/libgobject-2.0.so.0(g_object_new_valist+0x3b5)[0x7fb
```

```
/snap/skype/51/usr/share/skypeforlinux/../../lib/x86_64-linux-gnu/libgobject-2.0.so.0(g_object_new+0xf1)[0x7fb5824c59]
/snap/skype/51/usr/share/skypeforlinux/../../lib/x86_64-linux-gnu/libgtk-3.so.0(gtk_file_chooser_dialog_new+0x74)[0x7fb5824c59]
/snap/skype/51/usr/share/skypeforlinux/skypeforlinux --executed-from=/home/input0 --pid=6896[0x4e3b90b]
/snap/skype/51/usr/share/skypeforlinux/skypeforlinux --executed-from=/home/input0 --pid=6896(_ZN11file_dialog14S
/snap/skype/51/usr/share/skypeforlinux/skypeforlinux --executed-from=/home/input0 --pid=6896(_ZN4atom15WebDi
/snap/skype/51/usr/share/skypeforlinux/skypeforlinux --executed-from=/home/input0 --pid=6896[0x1d8c9b4]
/snap/skype/51/usr/share/skypeforlinux/skypeforlinux --executed-from=/home/input0 --pid=6896[0x1d8c858]
/snap/skype/51/usr/share/skypeforlinux/skypeforlinux --executed-from=/home/input0 --pid=6896[0x1d86c2f]
/snap/skype/51/usr/share/skypeforlinux/skypeforlinux --executed-from=/home/input0 --pid=6896[0x2347525]
/snap/skype/51/usr/share/skypeforlinux/skypeforlinux --executed-from=/home/input0 --pid=6896[0x48001eb]
/snap/skype/51/usr/share/skypeforlinux/skypeforlinux --executed-from=/home/input0 --pid=6896[0x47ed9db]
/snap/skype/51/usr/share/skypeforlinux/skypeforlinux --executed-from=/home/input0 --pid=6896[0x47edcf8]
/snap/skype/51/usr/share/skypeforlinux/skypeforlinux --executed-from=/home/input0 --pid=6896[0x47ee0d1]
/snap/skype/51/usr/share/skypeforlinux/skypeforlinux --executed-from=/home/input0 --pid=6896[0x47c4159]
/snap/skype/51/usr/share/skypeforlinux/skypeforlinux --executed-from=/home/input0 --pid=6896[0x47affc0]
/snap/skype/51/usr/share/skypeforlinux/skypeforlinux --executed-from=/home/input0 --pid=6896[0x1bfef9e]
/snap/skype/51/usr/share/skypeforlinux/skypeforlinux --executed-from=/home/input0 --pid=6896[0x1bfed9e]
/snap/skype/51/usr/share/skypeforlinux/skypeforlinux --executed-from=/home/input0 --pid=6896[0x1d65ead]
/snap/skype/51/usr/share/skypeforlinux/skypeforlinux --executed-from=/home/input0 --pid=6896[0x1e67b93]
/snap/skype/51/usr/share/skypeforlinux/skypeforlinux --executed-from=/home/input0 --pid=6896[0x1a4c63c]
/snap/skype/51/usr/share/skypeforlinux/skypeforlinux --executed-from=/home/input0 --pid=6896[0x19e6d0d]
```

===== Memory map: =====

000dc000-00200000 rw-p 00000000 07:15 15088	/snap/skype/51/usr/share/skypeforlinux/skypeforlinux
00200000-01802000 r--p 00124000 07:15 15088	/snap/skype/51/usr/share/skypeforlinux/skypeforlinux
01802000-04f35000 r-xp 01726000 07:15 15088	/snap/skype/51/usr/share/skypeforlinux/skypeforlinux
04f35000-04f4b000 rw-p 04e59000 07:15 15088	/snap/skype/51/usr/share/skypeforlinux/skypeforlinux
04f4b000-05818000 rw-p 00000000 00:00 0	
06322000-0749a000 rw-p 00000000 00:00 0	[heap]
af8f0000-af8f8000 rw-p 00000000 00:00 0	
2a231d0000-2a231d8000 rw-p 00000000 00:00 0	
4342f60000-4342f6ab000 rw-p 00000000 00:00 0	
4dab7f0000-4dab800a000 rw-p 00000000 00:00 0	
5e2b1980000-5e2b1a00000 rw-p 00000000 00:00 0	
683f0500000-683f0580000 rw-p 00000000 00:00 0	
74c45800000-74c45880000 rw-p 00000000 00:00 0	
7f95e280000-7f95e300000 rw-p 00000000 00:00 0	
8590f380000-8590f400000 rw-p 00000000 00:00 0	
a95ac180000-a95ac200000 rw-p 00000000 00:00 0	
b464c9b8000-b464c9c0000 rw-p 00000000 00:00 0	
b464c9c0000-b464c9c4000 ---p 00000000 00:00 0	
bf52cd00000-bf52cd80000 rw-p 00000000 00:00 0	
c191e080000-c191e100000 rw-p 00000000 00:00 0	
fe78f400000-fe78f480000 rw-p 00000000 00:00 0	
14c588080000-14c588100000 rw-p 00000000 00:00 0	

16dfa8300000-16dfa8380000 rw-p 00000000 00:00 0
1b328cb00000-1b328cb80000 rw-p 00000000 00:00 0
1de101180000-1de101200000 rw-p 00000000 00:00 0
1e993f000000-1e993f080000 rw-p 00000000 00:00 0
20c071f00000-20c071f80000 rw-p 00000000 00:00 0
20c61d680000-20c61d700000 rw-p 00000000 00:00 0
2240c1900000-2240c19ab000 rw-p 00000000 00:00 0
22628d700000-22628d780000 rw-p 00000000 00:00 0
25bf77500000-25bf77580000 rw-p 00000000 00:00 0
26ce1a280000-26ce1a300000 rw-p 00000000 00:00 0
26daf9ead000-26daf9f00000 ---p 00000000 00:00 0
26daf9f00000-26daf9f03000 rw-p 00000000 00:00 0
26daf9f03000-26daf9f04000 ---p 00000000 00:00 0
26daf9f04000-26daf9f2d000 rwxp 00000000 00:00 0
26daf9f2d000-26daf9f80000 ---p 00000000 00:00 0
26daf9f80000-26daf9f83000 rw-p 00000000 00:00 0
26daf9f83000-26daf9f84000 ---p 00000000 00:00 0
26daf9f84000-26daf9fad000 rwxp 00000000 00:00 0
26daf9fad000-26dafa000000 ---p 00000000 00:00 0
26dafa000000-26dafa003000 rw-p 00000000 00:00 0
26dafa003000-26dafa004000 ---p 00000000 00:00 0
26dafa004000-26dafa02d000 rwxp 00000000 00:00 0
26dafa02d000-26dafa080000 ---p 00000000 00:00 0
26dafa080000-26dafa083000 rw-p 00000000 00:00 0
26dafa083000-26dafa084000 ---p 00000000 00:00 0
26dafa084000-26dafa0ff000 rwxp 00000000 00:00 0
26dafa0ff000-26dafa100000 ---p 00000000 00:00 0
26dafa100000-26dafa103000 rw-p 00000000 00:00 0
26dafa103000-26dafa104000 ---p 00000000 00:00 0
26dafa104000-26dafa17f000 rwxp 00000000 00:00 0
26dafa17f000-26dafa180000 ---p 00000000 00:00 0
26dafa180000-26dafa183000 rw-p 00000000 00:00 0
26dafa183000-26dafa184000 ---p 00000000 00:00 0
26dafa184000-26dafa1ff000 rwxp 00000000 00:00 0
26dafa1ff000-26dafa200000 ---p 00000000 00:00 0
26dafa200000-26dafa203000 rw-p 00000000 00:00 0
26dafa203000-26dafa204000 ---p 00000000 00:00 0
26dafa204000-26dafa27f000 rwxp 00000000 00:00 0
26dafa27f000-26db19ead000 ---p 00000000 00:00 0
2adf28e80000-2adf28f00000 rw-p 00000000 00:00 0
2b4467900000-2b4467980000 rw-p 00000000 00:00 0
2bb8adb80000-2bb8adc00000 rw-p 00000000 00:00 0
2dad8480000-2dad84850000 rw-p 00000000 00:00 0
2fa869080000-2fa869100000 rw-p 00000000 00:00 0

325d21200000-325d21280000 rw-p 00000000 00:00 0
3462c4b00000-3462c4b80000 rw-p 00000000 00:00 0
34a98af80000-34a98b000000 rw-p 00000000 00:00 0
34efe4300000-34efe4380000 rw-p 00000000 00:00 0
355999380000-355999400000 rw-p 00000000 00:00 0
35c8d9680000-35c8d9685000 rw-p 00000000 00:00 0
36fd03c00000-36fd03c80000 rw-p 00000000 00:00 0
371ab4200000-371ab4280000 rw-p 00000000 00:00 0
37e430000000-37e430080000 rw-p 00000000 00:00 0
37f3b2f00000-37f3b2f80000 rw-p 00000000 00:00 0
389966a80000-389966b8a000 rw-p 00000000 00:00 0
3ad500400000-3ad500480000 rw-p 00000000 00:00 0
3aff91d80000-3aff91de2000 rw-p 00000000 00:00 0
3b2f0d680000-3b2f0d700000 rw-p 00000000 00:00 0
3fba22080000-3fba22100000 rw-p 00000000 00:00 0
7fb4bffff000-7fb4c3ffd000 rw-s 00000000 00:1a 116
7fb4c3ffd000-7fb4c7ffe000 rw-s 00000000 00:1a 115
7fb4c7ffe000-7fb4cbfff000 rw-s 00000000 00:1a 95
7fb4cbfff000-7fb4d0000000 rw-s 00000000 00:1a 93
7fb4d0000000-7fb4d0029000 rw-p 00000000 00:00 0
7fb4d0029000-7fb4d4000000 ---p 00000000 00:00 0
7fb4d615e000-7fb4d615f000 ---p 00000000 00:00 0
7fb4d615f000-7fb4d695f000 rw-p 00000000 00:00 0
7fb4d695f000-7fb4d6960000 ---p 00000000 00:00 0
7fb4d6960000-7fb4d7160000 rw-p 00000000 00:00 0
7fb4d7160000-7fb4d7180000 rw-s 00000000 00:1a 195
7fb4d7180000-7fb4d71c0000 rw-s 00000000 00:1a 194
7fb4d71c0000-7fb4d71e0000 rw-s 00000000 00:1a 185
7fb4d71e0000-7fb4d7220000 rw-s 00000000 00:1a 124
7fb4d7260000-7fb4d72a0000 rw-s 00000000 00:1a 190
7fb4d72a0000-7fb4d72e0000 rw-s 00000000 00:1a 189
7fb4d7320000-7fb4d7340000 rw-s 00000000 00:1a 153
7fb4d7340000-7fb4d7380000 rw-s 00000000 00:1a 184
7fb4d7380000-7fb4d73c0000 rw-s 00000000 00:1a 183
7fb4d73c0000-7fb4d7400000 rw-s 00000000 00:1a 182
7fb4d7400000-7fb4d7440000 rw-s 00000000 00:1a 181
7fb4d7440000-7fb4d7480000 rw-s 00000000 00:1a 180
7fb4d74c0000-7fb4d7500000 rw-s 00000000 00:1a 178
7fb4d7640000-7fb4d7680000 rw-s 00000000 00:1a 171
7fb4d7680000-7fb4d76c0000 rw-s 00000000 00:1a 170
7fb4d7700000-7fb4d7740000 rw-s 00000000 00:1a 168
7fb4d7780000-7fb4d77c0000 rw-s 00000000 00:1a 166
7fb4d7840000-7fb4d7880000 rw-s 00000000 00:1a 162
7fb4d7880000-7fb4d78c0000 rw-s 00000000 00:1a 161

/dev/shm/pulse-shm-3506809168

/dev/shm/pulse-shm-136900218

/dev/shm/pulse-shm-1835135660

/dev/shm/pulse-shm-465478744

/dev/shm/.org.chromium.Chromium.5U4VoF (delete)

/dev/shm/.org.chromium.Chromium.RLeLh9 (delete)

/dev/shm/.org.chromium.Chromium.vuEDaD (delete)

/dev/shm/.org.chromium.Chromium.QXky36 (delete)

/dev/shm/.org.chromium.Chromium.iNwIs3 (delete)

/dev/shm/.org.chromium.Chromium.TCc7Dx (delete)

/dev/shm/.org.chromium.Chromium.niC6By (delete)

/dev/shm/.org.chromium.Chromium.Bckk6z (delete)

/dev/shm/.org.chromium.Chromium.cjU5H8 (delete)

/dev/shm/.org.chromium.Chromium.T0uSjH (delete)

/dev/shm/.org.chromium.Chromium.QW3FVf (delete)

/dev/shm/.org.chromium.Chromium.VUxuxO (delete)

/dev/shm/.org.chromium.Chromium.HikaLV (delete)

/dev/shm/.org.chromium.Chromium.4UVv2P (delete)

/dev/shm/.org.chromium.Chromium.BpeuEo (delete)

/dev/shm/.org.chromium.Chromium.vB2tSv (delete)

/dev/shm/.org.chromium.Chromium.8lly6C (delete)

/dev/shm/.org.chromium.Chromium.aN74AR (delete)

/dev/shm/.org.chromium.Chromium.ExRifq (delete)

7fb4d78c0000-7fb4d7900000 rw-s 00000000 00:1a 160
7fb4d7940000-7fb4d7980000 rw-s 00000000 00:1a 158
7fb4d79c0000-7fb4d7a00000 rw-s 00000000 00:1a 156
7fb4d7a40000-7fb4d7a80000 rw-s 00000000 00:1a 132
7fb4d7ac0000-7fb4d7b00000 rw-s 00000000 00:1a 130
7fb4d7b00000-7fb4d7b40000 rw-s 00000000 00:1a 129
7fb4d7b40000-7fb4d7b80000 rw-s 00000000 00:1a 152
7fb4d7b80000-7fb4d7bc0000 rw-s 00000000 00:1a 151
7fb4d7f40000-7fb4d7f80000 rw-s 00000000 00:1a 146
7fb4d7fc0000-7fb4d8000000 rw-s 00000000 00:1a 144
7fb4d8000000-7fb4d803c000 rw-p 00000000 00:00 0
7fb4d803c000-7fb4dc000000 ---p 00000000 00:00 0
7fb4dc000000-7fb4dc021000 rw-p 00000000 00:00 0
7fb4dc021000-7fb4e0000000 ---p 00000000 00:00 0
7fb4e0000000-7fb4e0022000 rw-p 00000000 00:00 0
7fb4e0022000-7fb4e4000000 ---p 00000000 00:00 0
7fb4e4030000-7fb4e4094000 rw-s 00000000 00:1a 111
7fb4e4094000-7fb4e40f4000 rw-s 00000000 00:1a 100
7fb4e40f4000-7fb4e4154000 rw-s 00000000 00:1a 91
7fb4e4154000-7fb4e4155000 ---p 00000000 00:00 0
7fb4e4155000-7fb4e4955000 rw-p 00000000 00:00 0
7fb4e4995000-7fb4e49d5000 rw-s 00000000 00:1a 137
7fb4e49d5000-7fb4e637d000 r-xp 00000000 08:01 26878205
7fb4e637d000-7fb4e657c000 ---p 019a8000 08:01 26878205
7fb4e657c000-7fb4e657d000 r--p 019a7000 08:01 26878205
7fb4e657d000-7fb4e657e000 rw-p 019a8000 08:01 26878205
7fb4e657e000-7fb4e6721000 r-xp 00000000 08:01 26878215
7fb4e6721000-7fb4e6920000 ---p 001a3000 08:01 26878215
7fb4e6920000-7fb4e6933000 r--p 001a2000 08:01 26878215
7fb4e6933000-7fb4e6934000 rw-p 001b5000 08:01 26878215
7fb4e6934000-7fb4e6935000 rw-p 00000000 00:00 0
7fb4e6935000-7fb4e6bc7000 r-xp 00000000 08:01 26878207
7fb4e6bc7000-7fb4e6dc6000 ---p 00292000 08:01 26878207
7fb4e6dc6000-7fb4e6dd5000 r--p 00291000 08:01 26878207
7fb4e6dd5000-7fb4e6dd6000 rw-p 002a0000 08:01 26878207
7fb4e6dd6000-7fb4e6e1b000 r-xp 00000000 08:01 27136130
7fb4e6e1b000-7fb4e701a000 ---p 00045000 08:01 27136130
7fb4e701a000-7fb4e701d000 r--p 00044000 08:01 27136130
7fb4e701d000-7fb4e701e000 rw-p 00047000 08:01 27136130
7fb4e701e000-7fb4e7057000 r-xp 00000000 08:01 26877853
7fb4e7057000-7fb4e7257000 ---p 00039000 08:01 26877853
7fb4e7257000-7fb4e7258000 r--p 00039000 08:01 26877853
7fb4e7258000-7fb4e7259000 rw-p 0003a000 08:01 26877853
7fb4e7259000-7fb4e72f6000 r-xp 00000000 08:01 26878675

/dev/shm/.org.chromium.Chromium.O1MxTY (deleted)
/dev/shm/.org.chromium.Chromium.mxd5b6 (deleted)
/dev/shm/.org.chromium.Chromium.byaHud (deleted)
/dev/shm/.org.chromium.Chromium.2FEnNk (deleted)
/dev/shm/.org.chromium.Chromium.HFba6r (deleted)
/dev/shm/.org.chromium.Chromium.tFrAK0 (deleted)
/dev/shm/.org.chromium.Chromium.4rXuc5 (deleted)
/dev/shm/.org.chromium.Chromium.ei9cxE (deleted)
/dev/shm/.org.chromium.Chromium.hbGEFc (deleted)
/dev/shm/.org.chromium.Chromium.TaWipl (deleted)

/dev/shm/.org.chromium.Chromium.7I5ZtW (deleted)
/dev/shm/.org.chromium.Chromium.L6QAhS (deleted)
/dev/shm/.org.chromium.Chromium.Sf8WzY (deleted)

/dev/shm/.org.chromium.Chromium.Hx0lZk (deleted)
/usr/lib/x86_64-linux-gnu/libicudata.so.60.2
/usr/lib/x86_64-linux-gnu/libicudata.so.60.2
/usr/lib/x86_64-linux-gnu/libicudata.so.60.2
/usr/lib/x86_64-linux-gnu/libicudata.so.60.2
/usr/lib/x86_64-linux-gnu/libicuuc.so.60.2
/usr/lib/x86_64-linux-gnu/libicuuc.so.60.2
/usr/lib/x86_64-linux-gnu/libicuuc.so.60.2
/usr/lib/x86_64-linux-gnu/libicuuc.so.60.2
/usr/lib/x86_64-linux-gnu/libicui18n.so.60.2
/usr/lib/x86_64-linux-gnu/libicui18n.so.60.2
/usr/lib/x86_64-linux-gnu/libicui18n.so.60.2
/usr/lib/x86_64-linux-gnu/libicui18n.so.60.2
/usr/lib/x86_64-linux-gnu/libunity/libunity-prot
/usr/lib/x86_64-linux-gnu/libunity/libunity-prot
/usr/lib/x86_64-linux-gnu/libunity/libunity-prot
/usr/lib/x86_64-linux-gnu/libunity/libunity-prot
/usr/lib/x86_64-linux-gnu/libdee-1.0.so.4.2.1
/usr/lib/x86_64-linux-gnu/libdee-1.0.so.4.2.1
/usr/lib/x86_64-linux-gnu/libdee-1.0.so.4.2.1
/usr/lib/x86_64-linux-gnu/libdee-1.0.so.4.2.1
/usr/lib/x86_64-linux-gnu/libunity.so.9.0.2

7fb4e72f6000-7fb4e74f6000 ---p 0009d000 08:01 26878675	/usr/lib/x86_64-linux-gnu/libunity.so.9.0.2
7fb4e74f6000-7fb4e74fa000 r--p 0009d000 08:01 26878675	/usr/lib/x86_64-linux-gnu/libunity.so.9.0.2
7fb4e74fa000-7fb4e74fc000 rw-p 000a1000 08:01 26878675	/usr/lib/x86_64-linux-gnu/libunity.so.9.0.2
7fb4e74fc000-7fb4e74fd000 rw-p 00000000 00:00 0	
7fb4e74fd000-7fb4e74fe000 ---p 00000000 00:00 0	
7fb4e74fe000-7fb4e7cfe000 rw-p 00000000 00:00 0	
7fb4e7cfe000-7fb4e7dc3000 r-xp 00000000 07:15 15069	/snap/skype/51/usr/share/skypeforlinux/resources
7fb4e7dc3000-7fb4e7fc2000 ---p 000c5000 07:15 15069	/snap/skype/51/usr/share/skypeforlinux/resources
7fb4e7fc2000-7fb4e7fcb000 rw-p 000c4000 07:15 15069	/snap/skype/51/usr/share/skypeforlinux/resources
7fb4e7fcb000-7fb4e7fd000 rw-p 00000000 00:00 0	
7fb4e7fd000-7fb4e7fff000 rw-p 00101000 07:15 15069	/snap/skype/51/usr/share/skypeforlinux/resources
7fb4e7fff000-7fb4ec000000 rw-s 00000000 00:1a 12	/dev/shm/pulse-shm-2958556533
7fb4ec000000-7fb4ec021000 rw-p 00000000 00:00 0	
7fb4ec021000-7fb4f0000000 ---p 00000000 00:00 0	
7fb4f002d000-7fb4f0091000 rw-s 00000000 00:1a 90	/dev/shm/.org.chromium.Chromium.JPBrMI (deleted)
7fb4f0091000-7fb4f00d1000 rw-s 00000000 00:1a 134	/dev/shm/.org.chromium.Chromium.ctjK62 (deleted)
7fb4f00f1000-7fb4f0151000 rw-s 00000000 00:1a 89	/dev/shm/.org.chromium.Chromium.kfsXYI (deleted)
7fb4f0151000-7fb4f01d2000 rw-s 00000000 08:01 1838001	/home/input0/snap/skype/common/.config/skype
7fb4f01d2000-7fb4f01d3000 ---p 00000000 00:00 0	
7fb4f01d3000-7fb4f09d3000 rw-p 00000000 00:00 0	
7fb4f09d3000-7fb4f0a1f000 r-xp 00000000 07:15 484	/snap/skype/51/usr/lib/x86_64-linux-gnu/libsecret-1
7fb4f0a1f000-7fb4f0c1e000 ---p 0004c000 07:15 484	/snap/skype/51/usr/lib/x86_64-linux-gnu/libsecret-1
7fb4f0c1e000-7fb4f0c21000 r--p 0004b000 07:15 484	/snap/skype/51/usr/lib/x86_64-linux-gnu/libsecret-1
7fb4f0c21000-7fb4f0c22000 rw-p 0004e000 07:15 484	/snap/skype/51/usr/lib/x86_64-linux-gnu/libsecret-1
7fb4f0c22000-7fb4f0c26000 rw-p 00050000 07:15 484	/snap/skype/51/usr/lib/x86_64-linux-gnu/libsecret-1
7fb4f0c26000-7fb4f0cba000 r-xp 00000000 07:15 15077	/snap/skype/51/usr/share/skypeforlinux/resources
7fb4f0cba000-7fb4f0eb9000 ---p 00094000 07:15 15077	/snap/skype/51/usr/share/skypeforlinux/resources
7fb4f0eb9000-7fb4f0ec0000 rw-p 00093000 07:15 15077	/snap/skype/51/usr/share/skypeforlinux/resources
7fb4f0ec0000-7fb4f0ed3000 rw-p 00000000 00:00 0	
7fb4f0ed3000-7fb4f0eea000 rw-p 000c1000 07:15 15077	/snap/skype/51/usr/share/skypeforlinux/resources
7fb4f0eea000-7fb4f12eb000 rw-s 00000000 00:1a 112	/dev/shm/.org.chromium.Chromium.8b0GDI (deleted)
7fb4f12eb000-7fb4f132b000 rw-s 00000000 00:1a 110	/dev/shm/.org.chromium.Chromium.wo010t (deleted)
7fb4f136b000-7fb4f13ab000 rw-s 00000000 00:1a 108	/dev/shm/.org.chromium.Chromium.4MWzbK (deleted)
7fb4f13ab000-7fb4f13eb000 rw-s 00000000 00:1a 107	/dev/shm/.org.chromium.Chromium.PCNSgn (deleted)
7fb4f13eb000-7fb4f142b000 rw-s 00000000 00:1a 106	/dev/shm/.org.chromium.Chromium.UUZcm0 (deleted)
7fb4f146b000-7fb4f14ab000 rw-s 00000000 00:1a 104	/dev/shm/.org.chromium.Chromium.MzjVwg (deleted)
7fb4f14bb000-7fb4f14cb000 rw-s 00000000 00:1a 118	/dev/shm/.org.chromium.Chromium.GgMWqU (deleted)
7fb4f14cb000-7fb4f14eb000 rw-s 00000000 00:1a 109	/dev/shm/.org.chromium.Chromium.CbpRGw (deleted)
7fb4f14eb000-7fb4f152b000 rw-s 00000000 00:1a 38	/dev/shm/.org.chromium.Chromium.keWIHw (deleted)
7fb4f152b000-7fb4f156b000 rw-s 00000000 00:1a 102	/dev/shm/.org.chromium.Chromium.9HJ9M9 (deleted)
7fb4f1577000-7fb4f1587000 rw-s 00000000 00:1a 113	/dev/shm/.org.chromium.Chromium.UPK1Ee (deleted)
7fb4f1587000-7fb4f15eb000 rw-s 00000000 00:1a 34	/dev/shm/.org.chromium.Chromium.leYub6 (deleted)
7fb4f15eb000-7fb4f162b000 rw-s 00000000 00:1a 97	/dev/shm/.org.chromium.Chromium.6leB32 (deleted)
7fb4f162b000-7fb4f1a2c000 rw-s 00000000 00:1a 85	/dev/shm/.org.chromium.Chromium.6d3WFD (deleted)

```

7fb4f1a2c000-7fb4f1a6c000 rw-s 00000000 00:1a 83
7fb4f1a6c000-7fb4f1aac000 rw-s 00000000 00:1a 88
7fb4f1aac000-7fb4f1aec000 rw-s 00000000 00:1a 77
7fb4f1aec000-7fb4f1b2c000 rw-s 00000000 00:1a 71
7fb4f1b2c000-7fb4f1b2d000 ---p 00000000 00:00 0
7fb4f1b2d000-7fb4f25f5000 rw-p 00000000 00:00 0
7fb4f25f5000-7fb4f25f6000 ---p 00000000 00:00 0
7fb4f25f6000-7fb4f2df6000 rw-p 00000000 00:00 0
7fb4f2df6000-7fb4f2dfb000 r-xp 00000000 07:0b 2287
7fb4f2dfb000-7fb4f2ffb000 ---p 00005000 07:0b 2287
7fb4f2ffb000-7fb4f2ffc000 r--p 00005000 07:0b 2287
7fb4f2ffc000-7fb4f2ffd000 rw-p 00006000 07:0b 2287
7fb4f2ffd000-7fb4f2ffe000 ---p 00000000 00:00 0
7fb4f2ffe000-7fb4f37fe000 rw-p 00000000 00:00 0
7fb4f37fe000-7fb4f37ff000 ---p 00000000 00:00 0
7fb4f37ff000-7fb4f3fff000 rw-p 00000000 00:00 0
7fb4f3fff000-7fb4f8000000 rw-s 00000000 00:1a 7
7fb4f8000000-7fb4f8083000 rw-p 00000000 00:00 0
7fb4f8083000-7fb4fc000000 ---p 00000000 00:00 0
7fb4fc000000-7fb4fc021000 rw-p 00000000 00:00 0
7fb4fc021000-7fb500000000 ---p 00000000 00:00 0
7fb500000000-7fb500021000 rw-p 00000000 00:00 0
7fb500021000-7fb504000000 ---p 00000000 00:00 0
7fb504000000-7fb504021000 rw-p 00000000 00:00 0
7fb504021000-7fb508000000 ---p 00000000 00:00 0
7fb508000000-7fb508021000 rw-p 00000000 00:00 0
7fb508021000-7fb50c000000 ---p 00000000 00:00 0
7fb50c000000-7fb50c30a000 rw-p 00000000 00:00 0
7fb50c30a000-7fb510000000 ---p 00000000 00:00 0
7fb510000000-7fb510028000 rw-p 00000000 00:00 0
7fb510028000-7fb514000000 ---p 00000000 00:00 0
7fb514000000-7fb514008000 rw-s 00000000 00:1a 187
7fb514008000-7fb514048000 rw-s 00000000 00:1a 68
7fb514048000-7fb514088000 rw-s 00000000 00:1a 87
7fb514088000-7fb5140c8000 rw-s 00000000 00:1a 65
7fb5140c8000-7fb514108000 rw-s 00000000 00:1a 96
7fb514108000-7fb514148000 rw-s 00000000 00:1a 86
7fb514148000-7fb51414a000 r-xp 00000000 08:01 8917743
7fb51414a000-7fb514349000 ---p 00002000 08:01 8917743
$

/dev/shm/.org.chromium.Chromium.ljR5gj (deleted)
/dev/shm/.org.chromium.Chromium.cG4AwK (deleted)
/dev/shm/.org.chromium.Chromium.StnttE (deleted)
/dev/shm/.org.chromium.Chromium.xRFG4j (deleted)

/snap/core/5328/lib/x86_64-linux-gnu/libnss_dns-2.
/snap/core/5328/lib/x86_64-linux-gnu/libnss_dns-2.2
/snap/core/5328/lib/x86_64-linux-gnu/libnss_dns-2.2
/snap/core/5328/lib/x86_64-linux-gnu/libnss_dns-2.2

/dev/shm/pulse-shm-796608596

/dev/shm/.org.chromium.Chromium.wp000v (deleted)
/dev/shm/.org.chromium.Chromium.kV2UFZ (deleted)
/dev/shm/.org.chromium.Chromium.JUxFl8 (deleted)
/dev/shm/.org.chromium.Chromium.476qSk (deleted)
/dev/shm/.org.chromium.Chromium.1d878F (deleted)
/dev/shm/.org.chromium.Chromium.IHmLaw (deleted)
/lib/x86_64-linux-gnu/libnss_mdns4_minimal.so
/lib/x86_64-linux-gnu/libnss_mdns4_mini

```

Cool, so when i read the backtrace, I understood that, this might be a memory corruption in `malloc()` .

So basically, the memory allocator allocates pages of memory at once for use of programs, and it gives you a pointer within them. Since this files which i am trying to share may be larger for skype to handle during the call (PS: I was just sharing an jpg file in this case which was of 800kB). But for skype if a larger program is allocating larger amounts of memory and writing further past the end of your allocated space, then you'll end up attempting to write into unallocated memory and may cause a memory corruption.

Being a fan of responsible disclosure, I submitted this to Microsoft on 8 August 2018, but MS says "Upon investigation, we have determined that this submission does not meet the bar for security servicing"

Okay, but I passed on this message to skype team on twitter, and they looked into this!

[[image: image]]

(https://blogger.googleusercontent.com/img/b/R29vZ2xl/AVvXsEhgtGhbl1cCgmDaFvzv0cba9RgznXMKhQTK9OXBSv_nOuMBsmsQGtvkuEJlwyh_NK9ST0XI4k7IFsALp2NscYcLZEK1jxWxn4HoEJxwrtSC1zK4N1XFQhY8j17bbO4cdnOpAhARlISQBI/s1600/skype.png)

At last, this was patched on Skype version 8.29.0.41 on Linux.

Regards

Dhiraj