
Subject: Heap Leaks on Linux when migrating to new distro and newer UPP
Posted by [jfranks](#) on Thu, 27 Aug 2015 19:06:09 GMT

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We have a mature application that has been developed over the years and running on upp-2007.1 and Ubuntu distro 9.10

We've decided to migrate to a new Linux distribution, i.e., Linux Mint 17.2
Also, we migrated to the UPP snap shot upp-x11-src-8760.

We have been successful at compiling and linking the application after making some minor code changes to satisfy the new compile environment and UPP.

Everything works great, except when the application exits.
We get a dialog "Fatal error" with the message "Heap leaks detected!"
This goes away if we use the project flag USEMALLOC, but this is not the solution since it only hides a memory usage issue.

Ordinarily, development of a new program would have caught this problem early on. The problem is that we are now looking for a needle in the haystack because of the size of the program. Where do we look?

We've tried various memory diagnostic tools to no avail.
They give false positives, and provided no useful information.
We've tried valgrind and a few others with no relief.

On the other hand, we believe there are memory handling issues in our application that belong to us.
These have only been discovered (or caused by) the new environment: new compiler, linker, libraries, and UPP library.

We've tried compiling the UPP examples and tutorials and they behave properly on exit, as does the UPP theide.

What we are faced with now is dismembering the application piece at a time and re-compile/re-link/re-run until we discover the offending code.

What we are asking is that someone may have a better solution or alternative method for finding the real problem to our heap leak issue. Maybe there is something we can do to obtain more information that we don't know about.
We would welcome any help or suggestions on this matter.
Please let us know what you think.

regards,
-jlf


```

+32 0x00007FD0C21BD9C0 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 .....
+48 0x00007FD0C21BD9D0 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 .....

--memory-breakpoint__ 22235 : Memory at 0x0x7fd0ce6b7720, size 0x68 = 104
+0 0x00007FD0CE6B7720 10 72 48 01 00 00 00 00 00 01 65 65 46 72 65 65 .rH.....eeFree
+16 0x00007FD0CE6B7730 00 87 07 C2 D0 7F 00 00 14 00 00 00 01 00 00 00 .....•.....
+32 0x00007FD0CE6B7740 60 00 00 00 00 00 00 00 00 10 00 00 00 00 00 00 `.....
+48 0x00007FD0CE6B7750 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 .....
***** PANIC: Heap leaks detected!
=====

```

Can someone help on this particular issue?

File Attachments

1) [memory-breakpoint-22235.jpg](#), downloaded 686 times

Subject: Re: Heap Leaks on Linux when migrating to new distro and newer UPP
 Posted by [mirek](#) on Sun, 25 Oct 2015 07:22:36 GMT

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The fact that it was allocated from U++ does not in this case mean that the leak is caused by U++.

This looks like the memory block is allocated when loading skin. ColoredOverride is called on CtrlImg Images.

If you have an Image in your code that is on the heap and gets assing CtrlImg:: image, and is leaked, you are about to get the leak you are getting. E.g.:

```

GUI_APP_MAIN {
  Image *m = new Image;
  *m = CtrlImg::SizeGrip();
  // m is not deleted and is a leak
}

```