
Subject: Heap leak reported when using OpenCV in U++ Application.

Posted by [nikitha_k](#) on Tue, 24 Mar 2026 07:22:31 GMT

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Hi,

I am working on a U++ GUI application with OpenCV integration.

I noticed that heap leaks are reported when the application exits. The program runs correctly and displays output, but when closing the GUI window, many heap leaks are shown.

I tested with minimal code and observed:

* Even with larger code, the reported leak size remains the same

Is this expected behavior when using OpenCV with U++, or could this indicate an issue?
Also, how can this problem be resolved?

log file:

Heap leaks detected:

```
--memory-breakpoint__ 250483 : Memory at 0x0x7fcc3ed5e620, size 0x7C = 124
+0 0x00007FCC3ED5E620 09 00 00 00 00 00 00 00 00 00 00 00 00 00 46 72 65 65
.....Free
+16 0x00007FCC3ED5E630 C0 E6 5D 48 CC 7F 00 00 50 FC 00 14 CC 7F 00 00
..]H.~P....~..
+32 0x00007FCC3ED5E640 00 00 00 00 00 00 00 00 00 00 00 00 00 00 46 72 65 65
.....Free
+48 0x00007FCC3ED5E650 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
.....

--memory-breakpoint__ 250480 : Memory at 0x0x7fcc3ed5e260, size 0x7C = 124
+0 0x00007FCC3ED5E260 98 CE 78 48 CC 7F 00 00 00 00 00 00 00 00 00 00 00
..xH.~.....
+16 0x00007FCC3ED5E270 2B 00 65 65 03 00 00 00 80 F1 D5 3E CC 7F 00 00
+.ee.....>~..
+32 0x00007FCC3ED5E280 00 00 00 00 00 00 00 00 00 00 40 1B D6 3E CC 7F 00 00
.....@..>~..
+48 0x00007FCC3ED5E290 A8 E2 D5 3E CC 7F 00 00 00 00 00 00 00 00 00 00 00
...>~.....

--memory-breakpoint__ 250479 : Memory at 0x0x7fcc3ed5e1c0, size 0x7C = 124
+0 0x00007FCC3ED5E1C0 06 00 00 00 00 00 00 00 00 00 00 00 00 00 46 72 65 65
.....Free
```

```

+16 0x00007FCC3ED5E1D0 C0 E6 5D 48 CC 7F 00 00 70 CA 00 14 CC 7F 00 00
..]H.~p....~..
+32 0x00007FCC3ED5E1E0 00 00 00 00 00 00 00 00 00 00 00 00 00 46 72 65 65
.....Free
+48 0x00007FCC3ED5E1F0 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
.....

--memory-breakpoint__ 250476 : Memory at 0x0x7fcc3ed5e120, size 0x7C = 124
+0 0x00007FCC3ED5E120 98 CE 78 48 CC 7F 00 00 00 00 00 00 00 00 00 00
..xH.~.....
+16 0x00007FCC3ED5E130 2B 00 65 65 03 00 00 00 60 F0 D5 3E CC 7F 00 00
+.ee....~>..~..
+32 0x00007FCC3ED5E140 00 00 00 00 00 00 00 00 C0 10 D6 3E CC 7F 00 00
.....>..~..
+48 0x00007FCC3ED5E150 68 E1 D5 3E CC 7F 00 00 00 00 00 00 00 00 00 00
h..>..~.....

--memory-breakpoint__ 249253 : Memory at 0x0x7fcc3ed3e4e0, size 0x21C = 540
+0 0x00007FCC3ED3E4E0 01 00 00 00 46 72 65 65 80 70 C2 3E CC 7F 00 00
....Free.p.>..~..
+16 0x00007FCC3ED3E4F0 60 6C C2 3E CC 7F 00 00 00 6D C2 3E CC 7F 00 00
~l.>..~m.>..~..
+32 0x00007FCC3ED3E500 A0 78 C2 3E CC 7F 0

```

Heap leaks detected:

```

--memory-breakpoint__ 160193 : Memory at 0x0x7f043f167620, size 0x7C = 124
+0 0x00007F043F167620 09 00 00 00 00 00 00 00 00 00 00 00 00 46 72 65 65
.....Free
+16 0x00007F043F167630 C0 E6 9D 48 04 7F 00 00 D0 06 01 14 04 7F 00 00
...H.~.....~..
+32 0x00007F043F167640 00 00 00 00 00 00 00 00 00 00 00 00 00 46 72 65 65
.....Free
+48 0x00007F043F167650 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
.....

--memory-breakpoint__ 160190 : Memory at 0x0x7f043f167260, size 0x7C = 124
+0 0x00007F043F167260 98 CE B8 48 04 7F 00 00 00 00 00 00 00 00 00 00
...H.~.....
+16 0x00007F043F167270 2B 00 65 65 03 00 00 00 80 81 16 3F 04 7F 00 00
+.ee.....?..~..
+32 0x00007F043F167280 00 00 00 00 00 00 00 00 40 AB 16 3F 04 7F 00 00
.....@..?..~..
+48 0x00007F043F167290 A8 72 16 3F 04 7F 00 00 00 00 00 00 00 00 00 00
.r.?..~.....

--memory-breakpoint__ 160189 : Memory at 0x0x7f043f1671c0, size 0x7C = 124
+0 0x00007F043F1671C0 06 00 00 00 00 00 00 00 00 00 00 00 00 46 72 65 65

```

```

.....Free
+16 0x00007F043F1671D0 C0 E6 9D 48 04 7F 00 00 70 26 00 10 04 7F 00 00
...H.~p&...~
+32 0x00007F043F1671E0 00 00 00 00 00 00 00 00 00 00 00 00 46 72 65 65
.....Free
+48 0x00007F043F1671F0 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
.....

--memory-breakpoint__ 160186 : Memory at 0x0x7f043f167120, size 0x7C = 124
+0 0x00007F043F167120 98 CE B8 48 04 7F 00 00 00 00 00 00 00 00 00 00
...H.~.....
+16 0x00007F043F167130 2B 00 65 65 03 00 00 00 60 80 16 3F 04 7F 00 00
+.ee....`..?..
+32 0x00007F043F167140 00 00 00 00 00 00 00 00 C0 A0 16 3F 04 7F 00 00
.....?..
+48 0x00007F043F167150 68 71 16 3F 04 7F 00 00 00 00 00 00 00 00 00 00
hq.?.~.....

--memory-breakpoint__ 159778 : Memory at 0x0x7f043f0c39e0, size 0x7C = 124
+0 0x00007F043F0C39E0 20 41 B8 48 04 7F 00 00 40 E5 1A 3F 04 7F 00 00
A.H.~..@..?..
+16 0x00007F043F0C39F0 00 00 00 00 00 00 00 00 E0 EF 9D 48 04 7F 00 00
.....H.~..
+32 0x00007F043F0C3A00 30 72 65 65 00 00 00 00 00 00 00 00 00 00 00 00
Oree.....
+48 0x00007F043F0C3A10 00 00 00 00 00 00 00 00 40 64 13 3F 04 7F 00 00
.....@d.?.~..

--memory-breakpoint__ 159777 : Memory at 0x0x7f043f1ae540, size 0x3C = 60
+0 0x00007F043F1AE540 C8 0C FF 29 04 7F 00 00 E0 39 0C 3F 04 7F 00 00
...~.~9.?.~..
+16 0x00007F043F1AE550 01 00 00 00 46 72 65 65 20 6C 0E 3F 04 7F 00 00
....Free l.?.~..
+32 0x00007F043F1AE560 E0 EF 9D 48 04 7F 00 00 C0 E6 9D 48 04 7F 00 00
...H.~.....H.~..
+48 0x00007F043F1AE570 46 72 65 65 46 72 65 65 46 72 65 65
FreeFreeFree

--memory-breakpoint__ 159760 : Memory at 0x0x7f043f183b20, size 0x1C = 28
+0 0x00007F043F183B20 01 00 00 00 FF FF FF FF 46 72 65 65 46 72 65 65
.....FreeFree
+16 0x00007F043F183B30 46 72 65 65 46 72 65 65 46 72 65 65
FreeFreeFree

--memory-breakpoint__ 159073 : Memory at 0x0x7f043f1b0ba0, size 0x5C = 92
+0 0x00007F043F1B0BA0 50 CE B8 48 04 7F 00 00 A0 3B 18 3F 04 7F 00 00
P..H.~...;.?.~..
+16 0x00007F043F1B0BB0 00 00 00 00 00 00 00 00 E0 EF 9D 48 04 7F 00 00

```

```

.....H.~..
+32 0x00007F043F1B0BC0 30 72 65 65 00 00 00 00 00 00 00 00 00 00 00 00
Oree.....
+48 0x00007F043F1B0BD0 00 00 00 00 00 00 00 00 40 64 13 3F 04 7F 00 00
.....@d.?.~..

--memory-breakpoint__ 159072 : Memory at 0x0x7f043f183ba0, size 0x1C = 28
+0 0x00007F043F183BA0 88 BD 2F 49 04 7F 00 00 A0 0B 1B 3F 04 7F 00 00
../.~.....?.~..
+16 0x00007F043F183BB0 46 72 65 65 46 72 65 65 46 72 65 65
FreeFreeFree

--memory-breakpoint__ 159071 : Memory at 0x0x7f043f0c3800, size 0x7C = 124
+0 0x00007F043F0C3800 20 41 B8 48 04 7F 00 00 20 D4 01 3F 04 7F 00 00
A.H.~.. ..?.~..
+16 0x00007F043F0C3810 00 00 00 00 00 00 00 00 E0 EF 9D 48 04 7F 00 00
.....H.~..
+32 0x00007F043F0C3820 30 72 65 65 00 00 00 00 00 00 00 00 00 00 00 00
Oree.....
+48 0x00007F043F0C3830 00 00 00 00 00 00 00 00 40 64 13 3F 04 7F 00 00
.....@d.?.~..

--memory-breakpoint__ 159070 : Memory at 0x0x7f043f01d420, size 0x3C = 60
+0 0x00007F043F01D420 C8 0C FF 29 04 7F 00 00 00 38 0C 3F 04 7F 00 00
...~.....8.?.~..
+16 0x00007F043F01D430 EC 01 00 00 46 72 65 65 20 6C 0E 3F 04 7F 00 00
....Free l.?.~..
+32 0x00007F043F01D440 E0 EF 9D 48 04 7F 00 00 C0 E6 9D 48 04 7F 00 00
...H.~.....H.~..
+48 0x00007F043F01D450 46 72 65 65 46 72 65 65 46 72 65 65
FreeFreeFree

--memory-breakpoint__ 159050 : Memory at 0x0x7f043f14b4e0, size 0x21C = 540
+0 0x00007F043F14B4E0 01 00 00 00 46 72 65 65 80 70 02 3F 04 7F 00 00
....Free.p.?.~..
+16 0x00007F043F14B4F0 60 6C 02 3F 04 7F 00 00 00 6D 02 3F 04 7F 00 00
`l.?.~...m.?.~..
+32 0x00007F043F14B500 A0 78 02 3F 04 7F 00 00 80 6F 02 3F 04 7F 00 00
.x.?.~...o.?.~..
+48 0x00007F043F14B510 E0 6E 02 3F 04 7F 00 00 40 6E 02 3F 04 7F 00 00
.n.?.~..@n.?.~..

--memory-breakpoint__ 159048 : Memory at 0x0x7f043f136300, size 0x7C = 124
+0 0x00007F043F136300 01 00 00 00 01 00 00 00 01 00 00 00 FF FF 00 00
.....
+16 0x00007F043F136310 00 00 00 00 00 00 65 65 00 00 00 00 00 00 F0 3F
.....ee.....?
+32 0x00007F043F136320 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00

```

```

.....
+48 0x00007F043F136330 00 00 00 00 00 00 00 F0 3F 00 00 00 00 00 00 00
.....?.....

--memory-breakpoint__ 159025 : Memory at 0x0x7f043f0814e0, size 0x3C = 60
+0 0x00007F043F0814E0 01 00 00 00 1C 14 00 00 C0 E6 9D 48 04 7F 00 00
.....H.~..
+16 0x00007F043F0814F0 00 00 00 00 7F 02 00 00 E9 00 00 00 94 02 00 00
....~.....
+32 0x00007F043F081500 00 00 00 00 7F 02 00 00 E9 00 00 00 94 02 00 00
....~.....
+48 0x00007F043F081510 46 72 65 65 46 72 65 65 46 72 65 65
FreeFreeFree

--memory-breakpoint__ 159024 : Memory at 0x0x7f043f183be0, size 0x1C = 28
+0 0x00007F043F183BE0 01 00 00 00 46 72 65 65 E0 14 08 3F 04 7F 00 00
....Free...?~..
+16 0x00007F043F183BF0 46 72 65 65 46 72 65 65 46 72 65 65
FreeFreeFree

--memory-breakpoint__ 159017 : Memory at 0x0x7f043f1838e0, size 0x1C = 28
+0 0x00007F043F1838E0 E0 EF 9D 48 04 7F 00 00 46 72 65 65 46 72 65 65
...H.~..FreeFree
+16 0x00007F043F1838F0 46 72 65 65 46 72 65 65 46 72 65 65
FreeFreeFree

--memory-breakpoint__ 158991 : Memory at 0x0x7f043f01d720, size 0x3C = 60
+0 0x00007F043F01D720 01 00 00 00 46 72 65 65 F0 59 FA 69 89 55 00 00
....Free.Y.i.U..
+16 0x00007F043F01D730 00 00 65 65 23 9A 36 C1 80 5A 02 3F 04 7F 00 00
..ee#.6..Z.?.~..
+32 0x00007F043F01D740 00 00 00 00 46 72 65 65 46 72 65 65 46 72 65 65
....FreeFreeFree
+48 0x00007F043F01D750 46 72 65 65 46 72 65 65 46 72 65 65
FreeFreeFree

```

*** TOO MANY LEAKS (59424) TO LIST THEM ALL
***** PANIC: Heap leaks detected!

Thanks.

Subject: Re: Heap leak reported when using OpenCV in U++ Application.
Posted by [Oblivion](#) on Tue, 24 Mar 2026 09:26:15 GMT

Hi,

* Even with larger code, the reported leak size remains the same

This is usually a signature of leak in the library (in this case OpenCV) itself.

It might be that you are not freeing what you've allocated before, or some probably a bug deep in the library itself.

If it is an OpenCV upstream issue which we can't fix, we use the functions to silence the leaks detector of U++. You can find them here.

Best regards,
Oblivion
