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Subject: Re: 2022.3rc1

Posted by [coolman](#) on Tue, 20 Dec 2022 17:09:58 GMT

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mirek wrote on Tue, 20 December 2022 11:10coolman wrote on Mon, 19 December 2022 19:25mirek wrote on Mon, 19 December 2022 18:22coolman wrote on Mon, 19 December 2022 17:31mirek wrote on Mon, 19 December 2022 11:47coolman wrote on Mon, 19 December 2022 10:32mirek wrote on Mon, 19 December 2022 09:34coolman wrote on Mon, 19 December 2022 07:47Hi Mirek,

I've been testing latest version master version from the GitHub and I really don't like the behaviour of the IDE when editing the file.

- I mean the cursor getting stuck while typing, when the delay between pressing a key and then writing a character is too long.
- Also, double clicking on a word to highlight the word does not work properly. I have to try double clicking multiple times with different speeds to get this feature to work at all.

OS: Ubuntu 20.04

Linux 5.15.0-56-generic #62~20.04.1-Ubuntu SMP Tue Nov 22 21:24:20 UTC 2022 x86\_64

x86\_64 x86\_64 GNU/Linux

gcc (Ubuntu 9.4.0-1ubuntu1~20.04.1) 9.4.0

Ubuntu clang version

13.0.1-++20220120110924+75e33f71c2da-1~exp1~20220120231001.5 8

Is this specific for the latest version? (If not, why are your reporting this now ? :)

I started regularly using the latest version of the IDE after the Alt+J fix.

Quote:

Does switching off Assist help?

Yes it can help.

Quote:

What is your CPU?

```
cat /proc/cpuinfo
```

```
vendor_id : GenuineIntel
```

```
cpu family : 6
```

```
model : 165
```

```
model name : Intel(R) Core(TM) i7-10850H CPU @ 2.70GHz
```

```
stepping : 2
```

```
microcode : 0xf0
```

```
cpu MHz : 2700.000
```

```
cache size : 12288 KB
```

```
physical id : 0
```

```
siblings : 12
```

...

BR, Radek

This is probably Assist indexer overloading your HW. Please try to reduce the number of indexer threads (Setup/Settings/Assist/Number of indexer threads).

Also report what default number do you have there. IMO it should be 10, if there is more, maybe you have tested some time ago and it was left with much higher number.

(Default settings are in ClangConfigSetDefaults, currently I set indexer threads at CPU threads - 2). Maybe this need finetuning.

10 indexing threads were set up.

I tried reduce the number of indexer threads but after a while, the behaviour described above returned again. I monitored the running of the IDE using htop and noticed that occasionally a thread consumed more percent of the processor it was assigned to when I was typing. When I tried to double-click, the main IDE thread was consuming up to 18 percent of CPU and still the word was not highlighted.

What confuses me is that I can see a lot of threads assigned to the main process. And the number of threads is equal to 2x the number of CPU cores. The current output from pstree is when 4 of indexing threads was set. But it doesn't matter how many indexing threads is set up, the output is still the same.

pstree -tpch 121637

Edited:

While editing I noticed that a single thread can use up to 60% of the dedicated CPU while the main thread uses up to 80% of the allocated CPU.

What if you switch assist off completely? (Just to find out where to look next, is that Assist related or not...) (Do not forget to restart the IDE)

(Those threads are fine - those are CoWork worker threads, there should be 14 of them. Most of time they are just waiting).

Mirek

When assist is turned off, the problems do not appear. And the main thread consumes around 20% of CPU.

Radek

What about leaving Assist on and disabling "Indexer gets invoked automatically" (and restarting).

If the option "Indexer gets invoked automatically" is turned off, the mentioned errors appear less often, but they are still there.

Quote:

Also, is it a problem even with 1 indexer thread?

The mentioned errors appear less often, but they are still there too.

Quote:

How much RAM do you have?

I have got 32GB RAM.

Quote:

(For reference, I am testing with 2400G (4C/8T) with 8GB RAM, Ubuntu 20.04. Assist feels slower than my Win machine (5950x), but no symptoms as you describe. So I am puzzled).

I don't know how long you've been writing the code under Linux testing, but mentioned problems show up after some time of editing the code. And I always have more than three files open. And I have two IDE opened. One with the IDE code and the second is opened from the first one with a different project.

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