
Subject: Re: IDL hangs on `futex_wait_private`
Posted by [Yngvar Larsen](#) on Mon, 21 May 2012 10:50:05 GMT
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On Sunday, 20 May 2012 22:56:10 UTC+2, Mark wrote:

> Dear fellow IDL'ers,
>
> I have a rather nasty problem going on. Recently I programmed a
> analysis program and in most cases it runs quite smoothly. Once in a
> while however, it just stalls, in the middle of a loop. No reading or
> writing is done, just plain math. I keep memory requirements low, and
> also the specific datafile I'm analyzing does not seem to matter. No
> crash, no error messages (also not in system log files). Looking at
> the process state it is in: `futex_wait_private`. Running on linux,
> Fedora 14, 32 bit. Has anyone perhaps ran in similar problems? My
> feeling is that it might be a thread related thing when IDL does some
> parallelization.

Weird.

> Any clues?

Nope. Sorry. It might help if you specify which IDL command you are running when it hangs.

> Is there a way to tell IDL to do no parallelization?

Look in the documentation of the `!CPU` system variable. Set the `!CPU.TPOOL_MIN_ELTS` to a very large value and/or `!CPU.TPOOL_NTHREADS` to 1.

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Yngvar

Subject: Re: IDL hangs on `futex_wait_private`
Posted by [reuterm](#) on Tue, 04 Sep 2012 11:05:51 GMT
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Spotted the same issue with Ubuntu64bit, IDL7 32bit and IDL8 32bit. However, I suspected that the error happens mainly at routines with File IO. Till now, I found now way for debugging this because the error usually happens not immediately but after several hours.

strace says:

`futex(0x56426420, FUTEX_WAIT_PRIVATE, 2, NULL`

To my knowledge this means that IDL waits for an infinite amount of time that memory address 0x56426420 may change.

Have you found a solution, Mark? Was playing around with the `!CPU` system variable successful?

Cheers Max
