
Subject: New Core preview

Posted by [mirek](#) on Sun, 25 Feb 2007 23:06:58 GMT

[View Forum Message](#) <> [Reply to Message](#)

During the past month, I was working on Core improvements - new allocator, new String and WString.

The main aim was addressing multithreading issues with existing implementations - 2007.1 implementation has quite huge penalty when going from single-threaded to multithreaded code (locks and atomic reference counting is expensive).

I was also hoping for performance improvements even single threaded and also reduced memory requirements.

New memory allocator uses per-thread small block cache, so allocator locking is greatly reduced. String uses small string optimizations, which avoids reference counting in majority of cases.

Well, first two issues went great - multithreading now has very little impact on the performance and there are huge performance gains in single-threaded code. E.g. "wc" benchmark is now 100% faster (fastest on the planet I think , "idmap" benchmark is 50% faster, but the most interesting, Assist++ C++ parser is 20% faster (which is great as it is quite complex code, not trivial map/string benchmark).

Unfortunately, for reasons I do not quite understand (yet! - still investigating), memory consumption went up by 5%. Well, for much faster code, no big deal I think, so changes will be put into main tree soon.

Note that this is not about 2007.1 version (too dangerous to change Core now).

All uvs2 syncers can get new Core from the "newcore" repository. Please, if you have any complex software in development, do so to test it. Hopefully, bugs will be rare, I tested it to the death using "testing package" (in "upptst" repository).

Mirek

Subject: Re: New Core preview

Posted by [Ulti](#) on Mon, 26 Feb 2007 08:24:07 GMT

[View Forum Message](#) <> [Reply to Message](#)

where can I get uvs2?

Subject: Re: New Core preview

Posted by [Ulti](#) on Tue, 27 Feb 2007 08:58:45 GMT

[View Forum Message](#) <> [Reply to Message](#)

better to support .dll/.so creation?

Subject: Re: New Core preview
Posted by [mirek](#) on Tue, 27 Feb 2007 16:13:47 GMT
[View Forum Message](#) <> [Reply to Message](#)

?

Subject: Re: New Core preview
Posted by [Ulti](#) on Tue, 27 Feb 2007 22:03:00 GMT
[View Forum Message](#) <> [Reply to Message](#)

Sorry,forget this,now I know how to make a dll use TheIDE and upp(not tried it yet)
