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Subject: Re: A new container in works: Flex - fast insertion vector

Posted by [mirek](#) on Fri, 21 Sep 2007 12:30:16 GMT

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sergei wrote on Fri, 21 September 2007 07:51 When I said sorted containers what I needed is not find/unique (hash could do that too), but to iterate over all elements, from smallest to largest / reverse. You say `operator[]` is slow. Would such iteration be slower than in set, or not?

Not actually measured, but iterating through link structures tends to be slow with modern CPUs, so I would say that the linear iteration would be about the same.

That said, it is a bit surprising that you would prefer sorted container only to get items in order. Using Index (or generally a `hash_map`) and Sorting the result beats this in most cases.

For me, the main advantage of such container would be the lower and upper bounds.

Quote:

I don't know how allocators work, but what have you done to get it faster than default? Some kind of buffering to allocate once for several small elements?

The algorithm of latest U++ allocator is described in the `Core/srcimp.tpp`.

Mirek

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