
Subject: Is there linked list in u++?

Posted by [aftershock](#) on Sat, 11 Sep 2010 09:51:53 GMT

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Hi,

Is there a link list in U++?

aftershock

Subject: Re: Is there linked list in u++?

Posted by [mirek](#) on Sat, 11 Sep 2010 17:57:17 GMT

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There is a Link utility class.

In my opinion, linked list `_container_` does not make any sense.

Subject: Re: Is there linked list in u++?

Posted by [aftershock](#) on Mon, 13 Sep 2010 10:09:09 GMT

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Why not?

It has special properties, fastest insertion before and after an item.
Fastest deletion of an item.

If one needs that, it is the best...

Subject: Re: Is there linked list in u++?

Posted by [mirek](#) on Mon, 13 Sep 2010 15:40:35 GMT

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aftershock wrote on Mon, 13 September 2010 06:09Why not?

It has special properties, fastest insertion before and after an item.
Fastest deletion of an item.

If one needs that, it is the best...

The key question is:

Which element?

Going through the list to find the element you want to insert/remove will cost you much more time than insert/remove in Vector. (If you want to argue why, it is all about cache lines....)

The excellent usage for list, however, is in situation where objects are part of some list and insert/remove themselves (thus, no going through the list is required) or similar. However, list `_container_` is absolutely unsuitable for such task.

That is why we have Link, but no List.

Subject: Re: Is there linked list in u++?

Posted by [aftershock](#) on Mon, 13 Sep 2010 18:08:39 GMT

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What list container?

In my case, there is no need for search for elements or only sequentially.

Is there a list container in Ultimate++ framework?

Subject: Re: Is there linked list in u++?

Posted by [mirek](#) on Thu, 16 Sep 2010 21:53:12 GMT

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aftershock wrote on Mon, 13 September 2010 14:08: What list container?

In my case, there is no need for search for elements or only sequentially.

Is there a list container in Ultimate++ framework?

As I said before: No list container. But there is a Link template that makes lists (even multilists, where single element might be in several lists) quite easy.
