Subject: Re: what technique does U++ use to reduce code bloat from too many template instantiations? Posted by mirek on Mon, 12 Dec 2005 20:44:02 GMT View Forum Message <> Reply to Message

fudadmin wrote on Mon, 12 December 2005 15:02what technique does U++ use to reduce code bloat from too many template instantiations?

A good question Actually, some of that is reduced by smart linkers (they are able to merge the same function).

Anyway, the really great reduction is result of U++ containers, esp. two things: Array container has really low footprint (it needs about 200 bytes pre instantiation) and Map containers are composites of Index and Array or Vector, with quite a lot Index hashing code implemented in non-template .cpp.

To explain composition issue: VectorMap<String, int> and VectorMap<String, String> are actually compostions of Index<String> and either Vector<int> and Vector<String> and "composition" code is really minimal. Compare with STL that generates totally different code for map<string, int>, map<string, string>, vector<string> and vector<int>. With more types involved, advantage on U++ side increases....

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