pure-stlmap and pure-stlvec functions

Construction

stlmap	stlmmap	stlhmap	stlvec
emptystlmap	emptystlmmap	emptystlhmap	emptystlvec
emptystlset	emptystlmset	emptystlhset	
mkstlmap (kcmp,dflt,vcmp,veql)	mkstlmmap (kcmp,dflt,vcmp,veql)		mkstlvec x n
mkstlmap (kcmp,dflt,vcmp)	mkstlmmap (kcmp,dflt,vcmp)		
mkstlmap (kcmp,dflt)	mkstlmmap (kcmp,dflt)		
mkstlmap kcmp	mkstlmmap kcmp		
mkstlset kcomp	mkstlmset kcomp		
stlmap xs	stlmmap xs	stlhmap xs	stlvec xs
stlmap sv	stlmmap sv	stlhmap sv	stlvec sv
stlmap smrng	stlmmap smmrng	stlhmap hm	
stlset xs	stlmset xs	stlhset xs	
stlset sv	stlmset sv	stlhset sv	
stlset smrng	stlmset smmrng	stlhset hm	

Modification

stlmap	stlmmap	stlhmap	stlvec
insert sm sv	insert smm sv	insert hm sv	insert (sv, p) svrng
insert sm smrng	insert smm smmrng	insert hm hm2	insert (sv, p) xs
insert sm src	insert smm src	insert hm src	
insert_or_replace sm sv		insert_or_replace hm sv	
insert_or_replace sm smrng		insert_or_replace hm src	
insert_or_replace sm src		insert_or_replace hm src	
			append sv x
replace sm key val	replace smm key vals	replace hm key val	replace sv p x
replace_with fun sm (key,val)			
erase sm	erase smm	erase hm	erase sv
erase (sm,key1,key2)	erase (smm,key1,key2)		erase (sv, f, l)
erase (sm,key)	erase (smm,key)	erase (hm,key)	erase (sv, p)
			rmfirst sv
			rmlast sv
stl::swap sm1 sm2	stl::swap smm1 smm2	stl::swap hm1 hm2	

Accessing Elements

stlmap	stlmmap	stlhmap	stlvec
(^) sm key	(^) smm key		
(!) sm key	(!) smm key	(!) hm key	(!) sv p
			first sv
			last sv
get itr	get itr	get (hm,key)	
get (sm,key)	get (smm,key)		
keys smrng	keys smmrng	keys hm	
vals smrng	vals smmrng	vals hm	

Conversion Functions

stlmap	stlmmap	stlhmap	stlvec
members smrng	members smmrng	members hm	members svrng
stl::vector smrng	stl::vector smmrng	stl::vector hm	stl::vector svrng
stlvec smrng	stlvec smmrng	stlvec hm	
			const_stlvec sv

Functional Programming

stlmap	stlmmap	stlhmap	stlvec
catmap fun smrng	catmap fun smmrng	catmap fun hm	catmap fun svrng
colcatmap fun smrng	colcatmap fun smmrng	colcatmap fun hm	colcatmap fun svrng
colmap fun smrng	colmap fun smmrng	colmap fun hm	colmap fun svrng
do fun smrng	do fun smmrng	do fun hm	do fun svrng
filter p smrng	filter p smmrng	filter p hm	filter p svrng
foldl fun x smrng	foldl fun x smmrng	foldl fun x hm	foldl fun x svrng
foldl1 fun smrng	foldl1 fun smmrng	foldl1 fun hm	foldl1 fun svrng
foldr fun x smrng	foldr fun x smmrng		foldr fun x svrng
foldr1 fun smrng	foldr1 fun smmrng		foldr1 fun svrng
listmap fun smrng	listmap fun smmrng	listmap fun hm	listmap fun svrng
map fun smrng	map fun smmrng	map fun hm	map fun svrng
rowcatmap fun smrng	rowcatmap fun smmrng	rowcatmap fun hm	rowcatmap fun svrng
rowmap fun smrng	rowmap fun smmrng	rowmap fun hm	rowmap fun svrng
stream smrng	stream smmrng		

Comparison

stlmap	stlmmap	stlhmap	stlvec
(<) smrng1 smrng2	(<) smmrng1 smmrng2		
(<=) smrng1 smrng2	(<=) smmrng1 smmrng2		
(==) itr1 itr2	(==) itr1 itr2	(==) hm1 hm2	(==) sv1 sv2
(==) sac1 sac2	(==) smmrng1 smmrng2		
(>) smrng1 smrng2	(>) smmrng1 smmrng2		
(>=) smrng1 smrng2	(>=) smmrng1 smmrng2		
(~=) sac1 sac2	(~=) smmrng1 smmrng2	(~=) hm1 hm2	(~=) sv1 sv2
stl::map_equal smrng1 smrng2	stl::map_equal smmrng1 smmrng2		

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Set Operations

stlmap	stlmmap	stlhmap	stlvec
stl::map_difference smrng1 smrng2	stl::map_difference smmrng1 smmrng2		
stl::map_includes smrng1 smrng2	stl::map_includes smmrng1 smmrng2		
stl::map_intersection smrng1 smrng2	stl::map_intersection smmrng1 smmrng2		
stl::map_merge smrng1 smrng2	stl::map_merge smmrng1 smmrng2		
stl::map_symmetric_difference smrng1 smrng2	stl::map_symmetric_difference smmrng1 smmrng2		
stl::map_union smrng1 smrng2	stl::map_union smmrng1 smmrng2		

Infomation

stlmap	stlmmap	stlhmap	stlvec
(#) sm	(#) smm	(#) hm	(#) sv
stl::empty sm	stl::empty smm	stl::empty hm	stl::empty sv
stl::distance smrng	stl::distance smmrng		
member sm key	member smm key	member hm key	
stl::count sm key	stl::count smm key	stl::count hm key	
stl::next_key sm key	stl::next_key smm key		
stl::prev_key sm key	stl::prev_key smm key		
stl::bounds smrng	stl::bounds smmrng		stl::bounds svrng
stl::container_info smrng	stl::container_info smmrng	stl::container_info hm	
		stl::bucket_size hm i	
		stl::hmap_reserve hm mlf size	
			stl::reserve sv i
			stl::capacity sv

Iterators

stlmap	stlmmap	stlhmap	stlvec
stl::begin sm	stl::begin smm		
stl::pastend sm	stl::pastend smm		
stl::find sm key	stl::find smm key		
stl::iterator smitr	stl::iterator smmitr		
stl::l_bound sm key	stl::l_bound smm key		
stl::u_bound sm key	stl::u_bound smm key		
stl::lu_bounds sm key	stl::lu_bounds smm key		
stl::range_info smrng	stl::range_info smmrng		
stl::inc smitr	stl::inc smmitr		
stl::dec smitr	stl::dec smmitr		
stl::move smitr n	stl::move smmitr n		
stl::beginp smitr	stl::beginp smmitr		
stl::endp smitr	stl::endp smmitr		
stl::get_info smitr	stl::get_info smmitr		
stl::get_key smitr	stl::get_key smmitr		
stl::get_val smitr	stl::get_val smmitr		
put smitr val	put smmitr val		
stl::insert_elm sm (elm,smitr)	stl::insert_elm smm (elm, p)		
stl::insert_elm sm elm	stl::insert_elm smm elm		
erase (sm,smitr1, smitr2)	erase (smm,smmitr1, smmitr2)		
erase (sm,smitr)	erase (smm,smmitr)		

Key to Abbreviations

Symbol	Meaning
xs	a list or vector
sm	a stlmap
smm	a stlmmap
shm	a stlhmap
sv	a stlvec
smrng	a range defined on a stlmap
smmrng	a range defined on a stlmmap
svrng	a range defined on a stlvec
smitr	an iterator defined on a stlmap
smmitr	an iterator defined on a stlmmap
key	a pure expression
val	a pure expression
fun	a function

Note re Abbreviations

Because stlsets are just stlmaps (with a keys_only flag set to true), sm can also denote a stlset.
In addition, smrng can denote a range defined on a stlset as well as on a stlmap, and
smitr can denote an iterator defined on a stlset as well as on a stlmap.
Similar comments apply to shm, smm, smmrng and smmitr.