

pure-stlmap and pure-stlvec functions
2012-02-23

Construction						
stlmap	stlset	stlmmmap	stlmsset	stlshmap	stlshset	stlsvvec
emptystlmap	emptystlset	emptystlmmmap	emptystlmsset	emptystlshmap	emptystlshset	emptystlsvvec
mkstlmap (kcmp,dflt,vcmp,veql)		mkstlmmmap (kcmp,dflt,vcmp,veql)				mkstlsvvec x n
mkstlmap (kcmp,dflt,vcmp)		mkstlmmmap (kcmp,dflt,vcmp)				
mkstlmap (kcmp,dflt)		mkstlmmmap (kcmp,dflt)				
mkstlmap kcmp	mkstlset kcmp	mkstlmmmap kcmp	mkstlmsset kcmp			
stlmap xs	stlset xs	stlmmmap xs	stlmsset xs	stlshmap xs	stlshset xs	stlsvvec xs
stlmap sv	stlset sv	stlmmmap sv	stlmsset sv	stlshmap sv	stlshset sv	stlsvvec sv
stlmap smrng	stlset ssrng	stlmmmap smrng	stlmsset smsrng	stlshmap shm	stlshset shs	
Information						
stlmap	stlset	stlmmmap	stlmsset	stlshmap	stlshset	stlsvvec
(#) sm	(#) ss	(#) smm	(#) sms	(#) shm	(#) shs	(#) sv
stl::empty sm	stl::empty ss	stl::empty smm	stl::empty sms	stl::empty shm	stl::empty shs	stl::empty sv
stl::distance smrng	stl::distance ssrng	stl::distance smmrng	stl::distance smsrng			
stl::count sm key	stl::count ss key	stl::count smm key	stl::count sms key	stl::count shm key	stl::count shs key	
stl::bounds smrng	stl::bounds ssrng	stl::bounds smmrng	stl::bounds smsrng			stl::bounds svrng
stl::container_info smrng	stl::container_info ssrng	stl::container_info smmrng	stl::container_info smsrng	stl::container_info shm	stl::container_info shs	
				stl::bucket_size shm n	stl::bucket_size shs n	
				stl::shmap_reserve shm mlf n	stl::shsap_reserve shs mlf n	stl::reserve sv n
						stl::capacity sv
Modification						
stlmap	stlset	stlmmmap	stlmsset	stlshmap	stlshset	stlsvvec
insert sm elm	insert ss elm	insert smm elm	insert sms elm	insert shm elm	insert shs elm	insert (sv, p) elm
insert sm xs	insert ss xs	insert smm xs	insert sms xs	insert shm xs	insert shs xs	insert (sv, p) xs
insert sm v	insert ss v	insert smm v	insert sms v	insert shm v	insert shs v	insert (sv, p) v
insert sm smrng	insert ss ssrng	insert smm smmrng	insert sms smsrng	insert shm shm2	insert shs shs2	insert (sv, p) svrng
insert sm sv	insert ss sv	insert smm sv	insert sms sv	insert shm sv	insert shs sv	insert (sv, p) sv
insert_or_replace sm elm				insert_or_replace sm elm		
insert_or_replace sm xs				insert_or_replace sm xs		
insert_or_replace sm v				insert_or_replace sm v		
insert_or_replace sm sv				insert_or_replace shm sv		
insert_or_replace sm smrng						
replace sm key val		replace smm key vals		replace shm key val		replace sv p x
replace_with fun sm (key,val)						
erase sm	erase ss	erase smm	erase sms	erase shm	erase shs	erase sv
erase (sm,key1,key2)	erase (ss,key1,key2)	erase (smm,key1,key2)	erase (sms,key1,key2)			erase (sv, f, l)
erase (sm,key)	erase (ss,key)	erase (smm,key)	erase (sms,key)	erase (shm,key)	erase (shs,key)	erase (sv, p)
stl::swap sm1 sm2	stl::swap ss1 ss2	stl::swap smm1 smm2	stl::swap sms1 sms2	stl::swap shm1 shm2	stl::swap shs1 shs2	
Accessing Elements with Keys						
stlmap	stlset	stlmmmap	stlmsset	stlshmap	stlshset	stlsvvec
member sm key	member ss key	member smm key	member sms key	member shm key	member shs key	
stl::next_key sm key	stl::next_key ss key	stl::next_key smm key	stl::next_key sms key			
stl::prev_key sm key	stl::prev_key ss key	stl::prev_key smm key	stl::prev_key sms key			
(l) sm key	(l) ss key	(l) smm key	(l) sms key	(l) shm key	(l) shs key	(l) sv p
first sm	first ss	first smm	first sms			first sv
last sm	last ss	last smm	last sms			last sv
Conversions						
stlmap	stlset	stlmmmap	stlmsset	stlshmap	stlshset	stlsvvec
members smrng	members ssrng	members smmrng	members smsrng	members shm	members shs	members svrng
keys smrng		keys smmrng		keys shm		
vals smrng		vals smmrng		vals shm		
stl::vector smrng	stl::vector ssrng	stl::vector smmrng	stl::vector smsrng	stl::vector shm	stl::vector shs	stl::vector svrng
stlvec smrng	stlvec ssrng	stlvec smmrng	stlvec smsrng	stlvec shm	stlvec shs	const_stlvec sv
Functional Programming						
stlmap	stlset	stlmmmap	stlmsset	stlshmap	stlshset	stlsvvec
catmap fun smrng	catmap fun ssrng	catmap fun smmrng	catmap fun smsrng	catmap fun shm	catmap fun shs	catmap fun svrng
colcatmap fun smrng	colcatmap fun ssrng	colcatmap fun smmrng	colcatmap fun smsrng	colcatmap fun shm	colcatmap fun shs	colcatmap fun svrng
colmap fun smrng		colmap fun smmrng	colmap fun smsrng	colmap fun shm	colmap fun shs	colmap fun svrng
do fun smrng	do fun ssrng	do fun smmrng	do fun smsrng	do fun shm	do fun shs	do fun svrng
filter p smrng	filter p ssrng	filter p smmrng	filter p smsrng	filter p shm	filter p shs	filter p svrng
foldl fun x smrng	foldl fun x ssrng	foldl fun x smmrng	foldl fun x smsrng	foldl fun x shm	foldl fun x shs	foldl fun x svrng
foldl1 fun smrng	foldl1 fun ssrng	foldl1 fun smmrng	foldl1 fun smsrng	foldl1 fun shm	foldl1 fun shs	foldl1 fun svrng
foldr fun x smrng	foldr fun x ssrng	foldr fun x smmrng	foldr fun x smsrng			foldr fun x svrng
foldr1 fun smrng	foldr1 fun ssrng	foldr1 fun smmrng	foldr1 fun smsrng			foldr1 fun svrng
listmap fun smrng	listmap fun ssrng	listmap fun smmrng	listmap fun smsrng	listmap fun shm	listmap fun shs	listmap fun svrng
map fun smrng	map fun ssrng	map fun smmrng	map fun smsrng	map fun shm	map fun shs	map fun svrng
rowcatmap fun smrng	rowcatmap fun ssrng	rowcatmap fun smmrng	rowcatmap fun smsrng	rowcatmap fun shm	rowcatmap fun shs	rowcatmap fun svrng
rowmap fun smrng	rowmap fun ssrng	rowmap fun smmrng	rowmap fun smsrng	rowmap fun shm	rowmap fun shs	rowmap fun svrng
stream smrng	stream ssrng	stream smmrng	stream smsrng			

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Comparison						
stlmap	stlset	stlmmmap	stlmsset	stlhmmap	stlshset	stlsvvec
(==) sm1 sm2	(==) ss1 ss2	(==) smm1 smm2	(==) sms1 sms2	(==) shm1 shm2	(==) shs1 shs2	(==) sv1 sv2
(~) sm1 sm2	(~) ss1 ss2	(~) smm1 smm2	(~) sms1 sms2	(~) shm1 shm2	(~) shs1 shs2	(~) sv1 sv2
(>) smrng1 smrng2	(>) ssrng1 ssrng2	(>) smmrng1 smmrng2	(>) smsrng1 smsrng2			
(>=) smrng1 smrng2	(>=) ssrng1 ssrng2	(>=) smmrng1 smmrng2	(>=) smsrng1 smsrng2			
(<) smrng1 smrng2	(<) ssrng1 ssrng2	(<) smmrng1 smmrng2	(<) smsrng1 smsrng2			
(<=) smrng1 smrng2	(<=) ssrng1 ssrng2	(<=) smmrng1 smmrng2	(<=) smsrng1 smsrng2			
stl::map_equal smrng1 smrng2	stl::map_equal ssrng1 ssrng2	stl::map_equal smmrng1 smmrng2	stl::map_equal smsrng1 smsrng2	stl::map_equal shm1 shm2	stl::map_equal shs1 shs2	

Set Operations						
stlmap	stlset	stlmmmap	stlmsset	stlhmmap	stlshset	stlsvvec
stl::map_difference smrng1 smrng2	stl::map_difference ssrng1 ssrng2	stl::map_difference smmrng1 smmrng2	stl::map_difference smsrng1 smsrng2			
stl::map_includes smrng1 smrng2	stl::map_includes ssrng1 ssrng2	stl::map_includes smmrng1 smmrng2	stl::map_includes smsrng1 smsrng2			
stl::map_intersection smrng1 smrng2	stl::map_intersection ssrng1 ssrng2	stl::map_intersection smmrng1 smmrng2	stl::map_intersection smsrng1 smsrng2			
stl::map_merge smrng1 smrng2	stl::map_merge ssrng1 ssrng2	stl::map_merge smmrng1 smmrng2	stl::map_merge smsrng1 smsrng2			
stl::map_symmetric_difference smrng1 smrng2	stl::map_symmetric_difference ssrng1 ssrng2	stl::map_symmetric_difference smmrng1 smmrng2	stl::map_symmetric_difference smsrng1 smsrng2			
stl::map_union smrng1 smrng2	stl::map_union ssrng1 ssrng2	stl::map_union smmrng1 smmrng2	stl::map_union smsrng1 smsrng2			

Direct C Calls						
stlmap	stlset	stlmmmap	stlmsset	stlhmmap	stlshset	stlsvvec
stl::sm_is_set smrng	stl::ss_is_set ssrng	stl::smm_is_set smmrng	stl::sms_is_set smsrng	stl::shm_is_set shm	stl::shs_is_set shs	
stl::sm_member sm key	stl::ss_member ss key	stl::smm_member smm key	stl::sms_member sms key	stl::shm_member sshm key	stl::shs_member sshs key	
stl::sm_get sm key	stl::ss_get ss key	stl::smm_get smm key	stl::sms_get sms key	stl::shm_get sshm key	stl::shs_get sshs key	stl::sv_get sv int
stl::sm_put sm key val	stl::ss_put ss key val	stl::smm_put smm key val	stl::sms_put sms key val	stl::shm_put sshm key val	stl::shs_put sshs key val	stl::sv_put sv int val

Iterators						
stlmap	stlset	stlmmmap	stlmsset	stlhmmap	stlshset	stlsvvec
stl::begin sm	stl::begin ss	stl::begin smm	stl::begin sms			
stl::pastend sm	stl::pastend ss	stl::pastend smm	stl::pastend sms			
stl::find sm key	stl::find ss key	stl::find smm key	stl::find sms key			
stl::find_with_default		stl::find_with_default				
stl::iterator smitr	stl::iterator ssitr	stl::iterator smmitr	stl::iterator smsitr			
stl::l_bound sm key	stl::l_bound ss key	stl::l_bound smm key	stl::l_bound sms key			
stl::u_bound sm key	stl::u_bound ss key	stl::u_bound smm key	stl::u_bound sms key			
stl::lu_bounds sm key	stl::lu_bounds ss key	stl::lu_bounds smm key	stl::lu_bounds sms key			
stl::range_info smrng	stl::range_info ssrng	stl::range_info smmrng	stl::range_info smsrng			
stl::inc smitr	stl::inc ssitr	stl::inc smmitr	stl::inc smsitr			
stl::dec smitr	stl::dec ssitr	stl::dec smmitr	stl::dec smsitr			
stl::move smitr n	stl::move ssitr n	stl::move smmitr n	stl::move smsitr n			
(==) smitr1 smitr2	(==) ssitr1 ssitr2	(==) smmitr1 smmitr2	(==) smsitr1 smsitr2			
stl::beginp smitr	stl::beginp ssitr	stl::beginp smmitr	stl::beginp smsitr			
stl::endp smitr	stl::endp ssitr	stl::endp smmitr	stl::endp smsitr			
stl::get_info smitr	stl::get_info ssitr	stl::get_info smmitr	stl::get_info smsitr			
stl::get smitr	stl::get ssitr	stl::get smmitr	stl::get smsitr			
stl::get_key smitr	stl::get_key ssitr	stl::get_key smmitr	stl::get_key smsitr			
stl::get_val smitr	stl::get_val ssitr	stl::get_val smmitr	stl::get_val smsitr			
put smitr val	put ssitr val	put smmitr val	put smsitr val			
stl::insert_elm sm (elm,smitr)	stl::insert_elm ss (elm,ssitr)	stl::insert_elm smm (elm, p)	stl::insert_elm sms (elm, p)			
stl::insert_elm sm elm	stl::insert_elm ss elm	stl::insert_elm smm elm	stl::insert_elm sms elm			
erase (sm,smitr1, smitr2)	erase (ss,ssitr1, ssitr2)	erase (smm,smmitr1, smmitr2)	erase (sms,smsitr1, smsitr2)			
erase (sm,smitr)	erase (ss,ssitr)	erase (smm,smmitr)	erase (sms,smsitr)			

Key to Abbreviations

Symbol	Meaning
sm	a stlmap
ss	a stlset
smm	a stlmmmap
sms	a stlmsset
shm	a stlhmmap
shs	a stlshset
sv	a stlsvvec
smrng	a range defined on a stlmap
ssrng	a range defined on a stlset
smmrng	a range defined on a stlmmmap
smsrng	a range defined on a stlmsset
smitr	an iterator defined on a stlmap
smmitr	an iterator defined on a stlmmmap
n	an int
key	a pure expression
val	a pure expression
elm	an element - for map: (key=>val), for set val
xs	a list of elm
v	a vector of elm
sv	a stlvec of elm
fun	a function