

list†^{4,23}

STM: append_firstn_lastn

STM: append_split2

STM: non_nil_length

STM: length_zero

STM: list_decomp

STM: nth_tl_decomp

STM: nth_tl_decomp_eq

STM: firstn_decomp

STM: map_append_sq

STM: list_extensionality

STM: map_equal

STM: select_equal

STM: list_decomp_reverse

STM: list_append_singleton_ind

STM: cons_one_one

STM: map_length_nat

STM: list_2_decomp

STM: append_is_nil

STM: append_nil_sq

STM: comb_for_nth_tl_wf

STM: comb_for_ifthenelse_wf

STM: band_commutates

STM: null_append

STM: select_cons_tl_sq2

ABS: $\text{mklist}(n;f)$ **mklist**

STM: mklist_wf
STM: mklist_length
STM: mklist_select
ABS: $(x \in l)$ **l_member**
STM: l_member_wf
STM: member_exists
STM: map_equal2
STM: trivial_map
STM: comb_for_l_member_wf
STM: member_tl
STM: nil_member
STM: null_member
STM: member_null
STM: cons_member
STM: l_member_decidable
STM: member_append
STM: select_member
STM: member_singleton
STM: member_map
STM: l_member_non_nil
ABS: agree_on_common($T; as; bs$) **agree_on_common**
STM: agree_on_common_wf
STM: agree_on_common_cons
STM: agree_on_common_weakening
STM: agree_on_common_symmetry
STM: agree_on_common_nil
STM: agree_on_common_cons2

ABS: $\text{last}(L)$ **last**
STM: last_wf
STM: last_lemma
STM: last_member
STM: last_cons
ABS: $\text{reverse_select}(l;n)$ **reverse_select**
STM: reverse_select_wf
ABS: $(x \in! l)$ **l_member!**
STM: l_member!_wf
STM: cons_member!
STM: nil_member!
ABS: $L_1 \subseteq L_2$ **sublist**
STM: sublist_wf
STM: sublist_transitivity
STM: length_sublist
STM: cons_sublist_nil
STM: proper_sublist_length
STM: sublist_antisymmetry
STM: nil_sublist
STM: cons_sublist_cons
STM: member_sublist
STM: sublist_append
STM: comb_for_sublist_wf
STM: sublist_weakening
STM: sublist_nil
STM: sublist_tl
STM: sublist_tl2

STM: sublist_append_front
 STM: sublist_pair
 STM: member_iff_sublist
 ABS: x before $y \in l$ **l_before**
 STM: l_before_wf
 STM: weak_l_before_append_front
 STM: l_before_append_front
 STM: l_tricotomy
 STM: l_before_member
 STM: singleton_before
 STM: nil_before
 STM: l_before_append
 STM: l_before_member2
 STM: l_before_sublist
 STM: cons_before
 STM: before_last
 STM: l_before_select
 ABS: $x \ll y \in l$ **strong_before**
 STM: strong_before_wf
 ABS: $\text{same_order}(x_1; y_1; x_2; y_2; L; T)$ **same_order**
 STM: same_order_wf
 ABS: $y = \text{succ}(x)$ in $l \Rightarrow P(y)$ **l_succ**
 STM: l_succ_wf
 STM: comb_for_l_succ_wf
 STM: cons_succ
 ABS: $A \text{ List}^+$ **listp**
 STM: listp_wf

STM: listp_properties
STM: hd_wf_listp
STM: comb_for_hd_wf_listp
STM: map_equal3
STM: hd_map
STM: map_wf_listp
STM: cons_wf_listp
STM: comb_for_cons_wf_listp
ABS: $\text{count}(P;L)$ **count**
STM: count_wf
ABS: $\text{filter}(P;l)$ **filter**
STM: filter_wf
STM: filter_sublist
STM: filter_is_sublist
STM: length_filter
STM: member_filter
STM: filter_before
STM: agree_on_common_filter
STM: filter_functionality
STM: filter_append
STM: filter_filter
STM: filter_filter_reduce
STM: filter_type
STM: filter_map
ABS: $l_1 \leq l_2$ **iseg**
STM: iseg_wf
STM: cons_iseg

STM: iseg_transitivity
STM: iseg_append
STM: iseg_extend
STM: firstn_is_iseg
STM: iseg_transitivity2
STM: comb_for_iseg_wf
STM: iseg_weakening
STM: nil_iseg
STM: iseg_select
STM: iseg_member
STM: iseg_nil
STM: agree_on_common_iseg
STM: filter_iseg
STM: iseg_filter
STM: iseg_append0
STM: iseg_length
STM: iseg_is_sublist
ABS: $l_1 \parallel l_2$ **compat**
STM: compat_wf
STM: common_iseg_compat
ABS: $\text{list_accum}(x, a, f(x; a); y; l)$ **list_accum**
STM: list_accum_wf
STM: comb_for_list_accum_wf
STM: list_accum_split
ABS: $\text{zip}(as; bs)$ **zip**
STM: zip_wf
STM: zip_length

STM: select_zip
 STM: length_zip
 ABS: unzip(*as*) **unzip**
 STM: unzip_wf
 STM: unzip_zip
 STM: zip_unzip
 ABS: first $x \in as$ s.t. $P(x)$ else d **find**
 STM: find_wf
 STM: find_property
 ABS: list_all($x.P(x);l$) **list_all**
 STM: list_all_wf
 STM: list_all_iff
 ABS: no_repeats($T;l$) **no_repeats**
 STM: no_repeats_wf
 STM: no_repeats_iff
 STM: no_repeats_cons
 STM: append_overlapping_sublists
 STM: l_before_transitivity
 STM: l_before_antisymmetry
 STM: no_repeats_nil
 ABS: l_disjoint($T;l_1;l_2$) **l_disjoint**
 STM: l_disjoint_wf
 STM: l_disjoint_member
 STM: no_repeats_append
 ABS: append_rel($T;L_1;L_2;L$) **append_rel**
 STM: append_rel_wf
 ABS: safety($A;tr.P(tr)$) **safety**

STM: safety_wf
STM: no_repeats_safety
STM: filter_safety
STM: all_safety
STM: safety_and
STM: safety_nil
STM: cond_safety_and
ABS: $\forall x \in L. P(x)$ **L.all**
STM: L.all_wf
STM: L.all_append
STM: L.all_filter
STM: comb_for_L.all_wf
STM: L.all_cons
STM: agree_on_common_append
STM: filter_trivial
STM: filter_trivial2
STM: filter_is_nil
STM: filter_is_singleton
STM: list_set_type
STM: L.all_fwd
STM: L.all_map
STM: L.all_nil
STM: L.all_reduce
STM: split_rel_last
STM: sublist_filter
STM: sublist_filter_set_type
STM: L.before_filter_set_type

STM: l_before_filter
 STM: no_repeats_filter
 STM: decidable_l_all
 STM: filter_is_empty
 STM: filter_is_singleton2
 STM: append_split
 ABS: $(\forall x < y \in L.P(x;y))$ **l_all2**
 STM: l_all2_wf
 STM: l_all2_cons
 ABS: $(\forall x \geq a \in L.P(x))$ **l_all_since**
 STM: l_all_since_wf
 ABS: $(\exists x \in L.P(x))$ **l_exists**
 STM: l_exists_wf
 STM: l_exists_append
 STM: l_exists_nil
 STM: l_exists_cons
 STM: l_exists_reduce
 STM: decidable_l_exists
 ABS: $\text{mapfilter}(f;P;L)$ **mapfilter**
 STM: mapfilter_wf
 STM: member_map_filter
 ABS: $\text{split_tail}(L \mid \forall x.f(x))$ **split_tail**
 STM: split_tail_wf
 STM: split_tail_trivial
 STM: split_tail_max
 STM: split_tail_correct
 STM: split_tail_rel

STM: split_tail_lemma
 ABS: reduce2($f; k; i; as$) **reduce2**
 STM: reduce2_wf
 STM: reduce2_shift
 STM: comb_for_reduce2_wf
 ABS: filter2($P; L$) **filter2**
 STM: filter2_wf
 STM: cons_filter2
 STM: filter_filter2
 STM: member_filter2
 STM: filter2_functionality
 STM: filter_of_filter2
 ABS: sublist_occurrence($T; L_1; L_2; f$) **sublist_occurrence**
 STM: sublist_occurrence_wf
 STM: range_sublist
 ABS: disjoint_sublists($T; L_1; L_2; L$) **disjoint_sublists**
 STM: disjoint_sublists_wf
 STM: disjoint_sublists_sublist
 STM: disjoint_sublists_witness
 STM: length_disjoint_sublists
 ABS: interleaving($T; L_1; L_2; L$) **interleaving**
 STM: interleaving_wf
 STM: l_before_interleaving
 STM: nil_interleaving
 STM: nil_interleaving2
 STM: member_interleaving
 STM: cons_interleaving

STM: comb_for_interleaving_wf
STM: length_interleaving
STM: interleaving_of_nil
STM: interleaving_symmetry
STM: cons_interleaving2
STM: interleaving_of_cons
STM: interleaving_filter2
STM: filter_interleaving
STM: interleaving_as_filter
STM: interleaving_as_filter_2
STM: sublist_interleaved
STM: interleaved_split
STM: interleaving_sublist
STM: append_interleaving
STM: sublist_append1
STM: sublist_iseg
STM: lbefore_iseg
ABS: interleaving_occurrence($T;L_1;L_2;L;f_1;f_2$) **interleaving_occurrence**
STM: interleaving_occurrence_wf
STM: interleaving_implies_occurrence
STM: interleaving_occurrence_onto
STM: interleaving_split
STM: interleaving_singleton
STM: last_with_property
STM: occurence_implies_interleaving
STM: filter_is_interleaving
STM: filter_interleaving_occurrence

ABS: $\text{causal_order}(L;R;P;Q)$ **causal_order**
 STM: causal_order_wf
 STM: causal_order_filter_iseg
 STM: causal_order_transitivity
 STM: causal_order_reflexive
 STM: causal_order_or
 STM: causal_order_sigma
 STM: causal_order_monotonic
 STM: causal_order_monotonic2
 STM: causal_order_monotonic3
 STM: causal_order_monotonic4
 ABS: $\text{interleaved_family_occurrence}(T;I;L;L_2;f)$ **interleaved_family_occurrence**
 STM: interleaved_family_occurrence_wf
 ABS: $\text{interleaved_family}(T;I;L;L_2)$ **interleaved_family**
 STM: interleaved_family_wf
 ABS: $(L \circ f)$ **permute_list**
 STM: permute_list_wf
 STM: permute_list_select
 STM: permute_list_length
 STM: permute_permute_list
 ABS: $\text{swap}(L;i;j)$ **swap**
 STM: swap_wf
 STM: swap_select
 STM: swap_length
 STM: swap_swap
 STM: swapped_select
 STM: swap_cons

STM: swap_adjacent_decomp
 STM: lbefore_swap
 STM: map_swap
 STM: comb_for_swap_wf
 ABS: guarded_permutation($T;P$) **guarded_permutation**
 STM: guarded_permutation_wf
 STM: guarded_permutation_transitivity
 ABS: count($i < j < \|L\| : P L i j$) **count_index_pairs**
 STM: count_index_pairs_wf
 ABS: count($x < y$ in $L \mid P(x;y)$) **count_pairs**
 STM: count_pairs_wf
 ABS: index-of-first x in $L.P(x)$ **first_index**
 STM: first_index_wf
 STM: first_index_cons
 ABS: agree_on($T;x.P(x)$) **agree_on**
 STM: agree_on_wf
 STM: first_index_equal
 STM: iseg_map
 STM: safety_induced
 STM: agree_on_equiv
 ABS: strong_safety($T;tr.P(tr)$) **strong_safety**
 STM: strong_safety_wf
 STM: filter_strong_safety
 STM: strong_safety_safety
 ABS: lsubset($T;as;bs$) **lsubset**
 STM: lsubset_wf
 ABS: sublist*($T;as;bs$) **sublist***

STM: sublist*_wf

STM: sublist*_filter

DIR: aux

http://www.nuprl.org/FDLcontent/p0_802137_/p105_138149_{list!}.html