groups_1[13,42]

ABS: IsMonoid(T;op;id) **monoid_p**

STM: monoid_p_wf

STM: sq_stable__monoid_p

ABS: IsGroup(T;op;id;inv) **group_p**

STM: group_p_wf

STM: sq_stable__group_p

DIR: grp_sig_object_directory

STM: grp_sig_inc

STM: comb_for_grp_car_wf

STM: grp_op_l

STM: grp_op_r

ABS: IMonoid **imon**

STM: imon_wf

STM: mk_imon

STM: imon_properties

STM: imon_all_properties

STM: mon_ident

STM: mon_assoc

ABS: Mon **mon**

STM: mon_wf

STM: mk_mon

STM: mon_properties

STM: assert_of_mon_eq

STM: decidable__mon_eq

STM: grp_eq_sym

ABS: IAbMonoid **iabmonoid**

STM: iabmonoid_wf

STM: iabmonoid_properties

STM: abmonoid_comm

STM: abmonoid_ac_1

ABS: AbMon **abmonoid**

STM: abmonoid_wf

STM: mk_abmonoid

STM: abmonoid_inc

STM: abmonoid_properties

ABS: IGroup **igrp**

STM: igrp_wf

STM: igrp_properties

ABS: mk_igrp(T;op;id;inv) **mk_igrp**

STM: mk_igrp_wf

STM: grp_inverse

STM: grp_op_cancel_l

STM: grp_op_cancel_r

STM: grp_inv_id

STM: grp_inv_inv

STM: grp_inv_assoc

STM: grp_inv_thru_op

STM: grp_eq_op_l

STM: grp_eq_op_r

STM: grp_eq_shift_right

STM: grp_inv_diff

ABS: Group{i} **grp**

STM: grp_wf

STM: mk_grp

STM: grp_properties

ABS: s SubGrp of g **subgrp_p**

STM: subgrp_p_wf

ABS: norm_subset_p(g;s) **norm_subset_p**

STM: norm_subset_p_wf

ABS: NormSubGrp{i}(g) **norm_subgrp**

STM: norm_subgrp_wf

ABS: $a \equiv b$ (mod s in g) **eqv_mod_subset**

STM: eqv_mod_subset_wf

STM: eqv_mod_subset_is_eqv

ABS: IAbGrp{i} **iabgrp**

STM: iabgrp_wf

STM: iabgrp_op_inv_assoc

STM: iabgrp_properties

ABS: $|g//h|$ **quot_grp_car**

ABS: AbGrp **abgrp**

STM: abgrp_wf

STM: abgrp_properties

ABS: IsMonHom{M_1,M_2}(f) **monoid_hom_p**

STM: monoid_hom_p_wf

ABS: IsMonHomInj(g;h;f) **mon_hom_inj_p**

STM: mon_hom_inj_p_wf

ABS: MonHom(M_1,M_2) **monoid_hom**

STM: monoid_hom_wf

STM: sq_stable_monoid_hom_p

STM: monoid_hom_properties

STM: monoid_hom_id

STM: monoid_hom_op

STM: grp_hom_formation

STM: grp_hom_inv

ABS: InjMonHom(g;h) **inj_mon_hom**

STM: inj_mon_hom_wf

STM: inj_mon_hom_properties

STM: ident_mon_hom_shift

STM: inverse_grp_sig_hom_shift

STM: mon_hom_p_id

STM: mon_hom_p_comp

STM: tidentity_wf_for_mon_hom

STM: compose_wf_for_mon_hom

STM: comb_for_compose_wf_for_mon_hom

ABS: g↓set **dset_of_mon**

STM: dset_of_mon_wf0

STM: dset_of_mon_wf

ABS: OMon **omon**

STM: omon_wf

STM: omon_properties

ABS: OCMon **ocmon**

STM: ocmon_wf

STM: ocmon_properties

STM: ocmon_refl

STM: ocmon_trans

STM: ocmon_anti_sym

STM: ocmon_connex

STM: ocmon_cancel

STM: ocmon_6

ABS: $g{\downarrow}\text{oset}$ **oset_of_ocmon**

STM: oset_of_ocmon_wf0

STM: oset_of_ocmon_wf

STM: dset_of_mon_wf2

ABS: $a \leq b$ **grp_leq**

STM: grp_leq_wf

STM: comb_for_grp_leq_wf

STM: sq_stable__grp_leq

ABS: $a < b$ **grp_lt**

STM: grp_lt_wf

STM: comb_for_grp_lt_wf

STM: grp_leq_iff_lt_or_eq

STM: decidable__grp_lt

STM: grp_lt_is_sp_of_leq_a

STM: grp_lt_trans

STM: grp_lt_irreflexivity

STM: grp_lt_transitivity_2

STM: grp_lt_transitivity_1

STM: grp_leq_weakening_eq

STM: grp_leq_weakening_lt

STM: grp_leq_transitivity

STM: omon_lt_mono_imp_leq_mono

STM: grp_leq_antisymmetry

STM: grp_leq_complement

STM: grp_lt_complement

STM: grp_lt_trichot

STM: grp_op_preserves_le

STM: grp_op_preserves_lt

ABS: OGrp **ocgrp**

STM: ocgrp_wf

STM: ocgrp_properties

STM: ocgrp_inverse

STM: grp_leq_op_l

STM: grp_lt_op_l

STM: grp_op_polarity

ABS: $a <_b b$ **grp_blt**

STM: grp_blt_wf

STM: assert_of_grp_blt

STM: grp_lt_shift_right

STM: grp_leq_shift_right

STM: inj_into_ocmon

ABS: $|g|^+$ **hgrp_car**

STM: hgrp_car_wf

STM: hgrp_car_properties

STM: grp_op_wf2

STM: grp_id_wf2

ABS: $g\downarrow$hgrp **hgrp_of_ocgrp**

STM: hgrp_of_ocgrp_wf

STM: hgrp_of_ocgrp_wf2

ABS: $\Pi(op,id)\ lb \leq i < ub.\ E(i)$ **itop**

STM: itop_wf

STM: comb_for_itop_wf

STM: itop_aux_wf

STM: itop_unroll_base

STM: itop_unroll_hi

STM: itop_unroll_unit

STM: itop_unroll_lo

STM: itop_shift

STM: itop_split

ABS: n x(op;id) e **nat_op**

STM: nat_op_wf

STM: comb_for_nat_op_wf

STM: nat_op_zero

STM: nat_op_add

ABS: i x(op;id;inv) e **int_op**

STM: int_op_wf

STM: comb_for_int_op_wf

STM: int_op_minus

ABS: Π $lb \leq i < ub$. $E(i)$ **mon_itop**

STM: mon_itop_wf

STM: comb_for_mon_itop_wf

STM: mon_itop_unroll_base

STM: mon_itop_unroll_hi

STM: mon_itop_unroll_unit

STM: mon_itop_unroll_lo

STM: mon_itop_shift

STM: mon_itop_split

STM: mon_itop_split_el

STM: mon_itop_op

ABS: $n \cdot e$ **mon_nat_op**

STM: mon_nat_op_wf

STM: comb_for_mon_nat_op_wf

STM: mon_nat_op_zero

STM: mon_nat_op_unroll

STM: mon_nat_op_one

STM: mon_nat_op_id

STM: mon_nat_op_op

STM: mon_nat_op_add

STM: mon_nat_op_hom_swap

STM: mon_nat_op_mul

ABS: (<o,Id> monoid on T) **comp_id_mon**

STM: comp_id_mon_wf

ABS: $< \mathbb{B}, \vee_b >$ **bor_mon**

STM: bor_mon_wf

ABS: $< \mathbb{B}, \wedge_b >$ **band_mon**

STM: band_mon_wf

ABS: $< \mathbb{Z}+>$ **int_add_grp**

STM: int_add_grp_wf

STM: int_add_grp_wf2

ABS: $< \mathbb{N}, +>$ **nat_add_mon**

STM: nat_add_mon_wf

STM: nat_int_grp_sig_hom

STM: nat_add_mon_wf2

STM: nat_op_mon_hom_1

STM: nat_op_mon_hom_2

STM: nat_op_on_nat_add_mon

ABS: $< \mathbb{Z}, * >$ **int_mul_mon**

STM: int_mul_mon_wf

ABS: when b. p **mon_when**

STM: mon_when_wf

STM: comb_for_mon_when_wf

STM: mon_when_false

STM: mon_when_true

STM: mon_when_of_id

STM: mon_when_thru_op

STM: mon_when_when

STM: mon_when_swap

STM: mon_when_is_hom

STM: mon_when_hom_swap

STM: nat_inc

STM: grp_car_inc

ABS: zhgrp(n) **int_hgrp_el**

STM: int_hgrp_el_wf

ABS: nat(n) **int_hgrp_to_nat**

STM: int_hgrp_to_nat_wf

STM: zhgrp_to_nat_is_hom

STM: zhgrp_op_mon_hom_1

STM: mon_nat_op_wf2

STM: comb_for_mon_nat_op_wf2

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http://www.nuprl.org/FDLcontent/p0_400045_/p78_50365_{groups_1}.html