

rel_1^{12,41}

COM: rel_1_begin

COM: rel_1_summary

COM: rel_1_intro

COM: binrel_com

ABS: $\text{Ref}(T;x,y.E(x;y))$ **refl**

STM: refl_wf

STM: refl_functionality_wrt_iff

ABS: $\text{Sym}(T;x,y.E(x;y))$ **sym**

STM: sym_wf

STM: sym_functionality_wrt_iff

ABS: $\text{Trans}(T;x,y.E(x;y))$ **trans**

STM: trans_wf

STM: trans_functionality_wrt_iff

STM: trans_rel_self_functionality

ABS: $\text{EquivRel}(T;x,y.E(x;y))$ **equiv_rel**

STM: equiv_rel_wf

STM: equiv_rel_subtyping

ABS: $\text{Preorder}(T;x,y.R(x;y))$ **preorder**

STM: preorder_wf

COM: symmetrize_com

ABS: $\text{Symmetrize}(x,y.R(x;y);a;b)$ **symmetrize**

STM: symmetrize_wf

STM: symmetrized_preorder

STM: trans_rel_func_wrt_sym_self

STM: equiv_rel_iff

STM: equiv_rel_functionality_wrt_iff
 COM: equiv_rel_self_fun_com
 STM: equiv_rel_self_functionality
 STM: squash_thru_equiv_rel
 ABS: IsEqFun($T;eq$) **eqfun_p**
 STM: eqfun_p_wf
 STM: sq_stable__eqfun_p
 ABS: AntiSym($T;x,y.R(x;y)$) **anti_sym**
 STM: anti_sym_wf
 STM: anti_sym_functionality_wrt_iff
 ABS: StAntiSym($T;x,y.R(x;y)$) **st_anti_sym**
 STM: st_anti_sym_wf
 ABS: strict_part($x,y.R(x;y);a;b$) **strict_part**
 STM: strict_part_wf
 STM: strict_part_irrefl
 ABS: Connex($T;x,y.R(x;y)$) **connex**
 STM: connex_wf
 STM: connex_functionality_wrt_iff
 STM: connex_functionality_wrt_implies
 STM: connex_iff_trichot
 ABS: Order($T;x,y.R(x;y)$) **order**
 STM: order_wf
 STM: order_functionality_wrt_iff
 ABS: Linorder($T;x,y.R(x;y)$) **linorder**
 STM: linorder_wf
 STM: linorder_functionality_wrt_iff
 STM: sq_stable__refl

STM: sq_stable__sym

STM: sq_stable__trans

STM: sq_stable__anti_sym

STM: sq_stable__connex

STM: order_split

ABS: $\text{Irrefl}(T;x,y.E(x;y))$ **irrefl**

STM: irrefl_wf

STM: trans_imp_sp_trans

STM: trans_imp_sp_trans_a

STM: trans_imp_sp_trans_b

STM: linorder_le_neg

STM: linorder_lt_neg

COM: rel_1_end