

MACHINE ShallowGenMch

SEES ShallowGenCtx

VARIABLES

s,

InitDone

INVARIANTS

inv1: $s \in St$

inv2: $InitDone \in BOOL$

inv3: $InitDone = TRUE \Rightarrow s \in Inv(mch)$

EVENTS

INITIALISATION

THEN

act1: $s, InitDone :| s' \in St \wedge InitDone' := FALSE$

END

Do_Init

WHERE

grd1: $InitDone = FALSE$

grd2: $Mch_INV_Init(mch) \wedge Mch_FIS_Init(mch)$

THEN

act1: $s, InitDone :| s' \in AP(mch) \wedge InitDone := TRUE$

END

Do_Ordinary

ANY *e*

WHERE

grd1: $InitDone = TRUE$

grd2: $e \in Progress(mch) \wedge e \in Ordinary(mch)$

grd3: $s \in Grd(mch)[\{e\}]$

grd4: $Mch_INV_One_Ev(mch, e) \wedge Mch_FIS_One_Ev(mch, e)$

THEN

act1: $s : \in BAP(mch)[\{e\}][\{s\}]$

END

Do_Convergent

ANY *e*

WHERE

grd1: $InitDone = TRUE$

grd2: $e \in Progress(mch) \wedge e \in Convergent(mch)$

grd3: $s \in Grd(mch)[\{e\}]$

grd4: $Mch_INV_One_Ev(mch, e) \wedge Mch_FIS_One_Ev(mch, e)$

grd5: $Variant_WellCons(mch)$

grd6: $Mch_VARIANT_One_Ev(mch, e, s) \wedge$
 $Mch_NAT_One_Ev(mch, e)$

THEN

act1: $s : \in BAP(mch)[\{e\}][\{s\}]$

END

END