

**MACHINE** M.Part.Trans

**SEES** C.Part.Proc.Trans

**VARIABLES**

partition\_mode

**INVARIANTS**

*inv\_part\_mode: partition\_mode  $\in$  PARTITIONS  $\rightarrow$  PARTITION\_MODES*

**EVENTS**

**Initialisation**

**begin**

*act001: partition\_mode := PARTITIONS  $\times$  {PM\_COLD\_START}*

**end**

**Event** partition\_mode\_transition *(ordinary)*  $\hat{=}$

**any**

part

newm

**where**

*grd001: part  $\in$  PARTITIONS*

*grd002: newm  $\in$  PARTITION\_MODES*

*grd003: partition\_mode(part) = PM\_IDLE  $\Rightarrow$  newm = PM\_WARM\_START  $\vee$  newm = PM\_COLD\_START*

*grd004: partition\_mode(part) = PM\_COLD\_START  $\Rightarrow$  newm = PM\_IDLE  $\vee$  newm = PM\_COLD\_START  $\vee$  newm = PM\_NORMAL*

*grd005: partition\_mode(part) = PM\_WARM\_START  $\Rightarrow$  newm = PM\_IDLE  $\vee$  newm = PM\_COLD\_START  $\vee$  newm = PM\_WARM\_START  $\vee$  newm = PM\_NORMAL*

*grd006: partition\_mode(part) = PM\_NORMAL  $\Rightarrow$  newm = PM\_IDLE  $\vee$  newm = PM\_COLD\_START  $\vee$  newm = PM\_WARM\_START*

**then**

*act001: partition\_mode(part) := newm*

**end**

**END**