

machine Mach_Part_Trans

sees Ctx_PartProc_Trans

variables *partition_mode*

invariants

@inv_part_mode *partition_mode* \in PARTITIONS \rightarrow PARTITION_MODES

events

event INITIALISATION

then

@act01 *partition_mode* \models PARTITIONS \times {PM_COLD_START}

end

event partition_mode_transition

any *part newm*

where

@grd01 *part* \in PARTITIONS

@grd02 *newm* \in PARTITION_MODES

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    @grd03 partition_mode(part) = PM_COLD_START  $\Rightarrow$  newm = PM_COLD_START  $\vee$  newm = PM_IDLE  $\vee$ 
newm = PM_NORMAL
    @grd04 partition_mode(part) = PM_WARM_START  $\Rightarrow$  newm = PM_WARM_START  $\vee$  newm =
PM_COLD_START  $\vee$  newm = PM_IDLE  $\vee$  newm = PM_NORMAL
    @grd05 partition_mode(part) = PM_IDLE  $\Rightarrow$  newm = PM_WARM_START  $\vee$  newm =
PM_COLD_START
    @grd06 partition_mode(part) = PM_NORMAL  $\Rightarrow$  newm = PM_WARM_START  $\vee$  newm =
PM_COLD_START  $\vee$  newm = PM_IDLE
    then
        @act01 partition_mode(part) = newm
    end
end

```