MACHINE m0
SEES c0
VARIABLES
wait
process
cs
INVARIANTS
inv1: $wait \subseteq PROCESS$
inv2: $process \subseteq PROCESS$
inv5: $cs \in process \rightarrowtail 1 \mathinner{..} csnum$
EVENTS
Initialisation ⟨extended⟩
begin
act1: $wait := \varnothing$
act2: $process := \varnothing$
act3: $cs := \varnothing$
end
Event wish ⟨ordinary⟩ $\widehat{=}$
any
pro
where
grd1: $pro \in PROCESS \setminus wait$
grd2: $pro \in PROCESS \setminus process$
then
act1: $wait := wait \cup \{pro\}$
end
Event enter ⟨ordinary⟩ $\widehat{=}$
any
pro
i
where
grd1: $pro \in wait$
grd2: $i \in 1 \mathinner{..} csnum$
grd3: $i \notin ran(cs)$
then
act1: $wait := wait \setminus \{pro\}$
act2: $process := process \cup \{pro\}$
act3: $cs(pro) := i$
end
Event leave ⟨ordinary⟩ $\widehat{=}$
any
pro
where
grd1: $pro \in process$
then
act1: $process := process \setminus \{pro\}$
act2: $cs := \{pro\} \lhd cs$
end
END