

$$\begin{aligned}
& \text{SendSoft}(p) \triangleq \\
& \wedge 2 * \text{delta} \leq \text{Shared.chipTimer} \\
& \wedge \text{Shared.chipTimer} \leq \text{deltaChip} \\
& \wedge \text{Shared.medium} = \{\} \\
& \wedge \text{LET } i \triangleq \text{procId}(p, \text{Proc}) \\
& \quad \text{lenTX} \triangleq \text{lenMsg}(i) \\
& \quad d \triangleq \text{Shared.chipTimer} + \text{lenTX} \\
& \quad \text{NoMsg} \triangleq i \in \text{Failed} \vee d > \text{deltaChip} \\
& \text{IN } \wedge i = \text{ProcState}[i].\text{token} \\
& \quad \wedge \text{Shared}' = [\text{Shared} \text{ EXCEPT} \\
& \quad \quad !.\text{macTimer} = \text{IF } \text{NoMsg} \text{ THEN } \text{Infinity} \text{ ELSE } \text{lenTX}, \\
& \quad \quad !.\text{medium} = \text{IF } \text{NoMsg} \text{ THEN } @ \text{ ELSE } \{[id \mapsto i, \text{type} \mapsto \text{"soft"}]\}] \\
& \quad \wedge \text{ProcState}' = [\text{ProcState} \text{ EXCEPT} \\
& \quad \quad ![i].\text{token} = \text{IF } \text{NoMsg} \text{ THEN } @ \text{ ELSE } \text{next}(i, \text{Shared.proc}), \\
& \quad \quad ![i].\text{list} = \text{IF } d > \text{deltaChip} \vee @ = \langle \rangle \text{ THEN } @ \text{ ELSE } \text{Tail}(@), \\
& \quad \quad ![i].\text{count} = \text{IF } \text{NoMsg} \text{ THEN } @ \text{ ELSE } @ + 1] \\
& \quad \wedge \text{UNCHANGED } \langle \text{TaskState}, \text{History} \rangle
\end{aligned}$$