

## **chain\_sys-induction**<sup>11,40</sup>

$\forall Cmd:Type, P:(chain\_sys(Cmd) \rightarrow \mathbb{P}).$   
 $(\forall cmd:Cmd. P(csinput(cmd)))$   
 $\Rightarrow (\forall from:Id, cmds:(Cmd\ List). P(csupdate(from;cmds)))$   
 $\Rightarrow \{\forall x:chain\_sys(Cmd). P(x)\}$