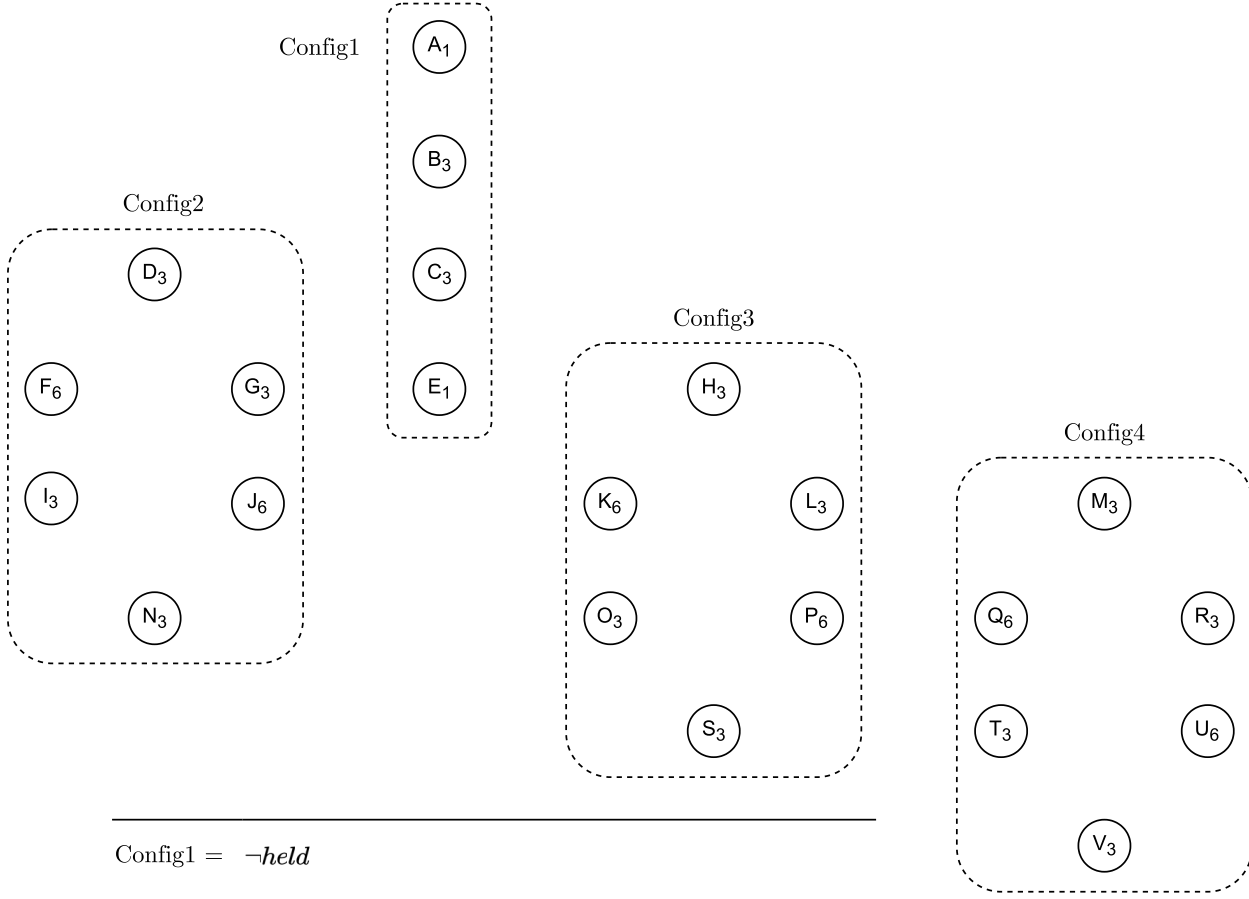


ex_lockserv_automaton Classes and Configurations



Config1 = $\neg held$

$\forall N. \neg grant_msg(N)$

$\forall N. \neg holds_lock(N)$

$\forall N. \neg unlock_msg(N)$

Config2 = $\neg held$

$\exists N. grant_msg(N)$

$\forall N_1, N_2. grant_msg(N_1) \wedge grant_msg(N_2) \rightarrow N_1 = N_2$

$\forall S, \forall C_1, C_2. link(C_1, S) \wedge link(C_2, S) \rightarrow C_1 = C_2$

$\forall N. \neg holds_lock(N)$

$\forall N. \neg unlock_msg(N)$

Config3 = $\neg held$

$\exists N. holds_lock(N)$

$\forall N_1, N_2. holds_lock(N_1) \wedge holds_lock(N_2) \rightarrow N_1 = N_2$

$\forall N. \neg grant_msg(N)$

$\forall N. \neg unlock_msg(N)$

Config4 = *held*

$\exists N. \text{unlock_msg}(N)$

$\forall N_1, N_2. \text{unlock_msg}(N_1) \wedge \text{unlock_msg}(N_2) \rightarrow N_1 = N_2$

$\forall N. \neg \text{grant_msg}(N)$

$\forall N. \neg \text{holds_lock}(N)$
