

equal-next-world^{0,22}

$\forall D:\text{Dsys}, i:\text{Id}, s_1, s_2:\text{M}(i).\text{state}, k_1, k_2:\text{Knd}, v_1:\text{d-decl}(D;i)(k_1), v_2:\text{d-decl}(D;i)(k_2),$
 $m_1:\{m:\text{M}(i).\text{Msg} \mid \text{source}(\text{mlnk}(m)) = i\}$ List.

Feasible(D)

$\Rightarrow \langle s_1, \text{doact}(k_1;v_1), m_1 \rangle = \text{next-world-state}(D;i;s_2;k_2;v_2) \in \text{d-world-state}(D;i)$

$\Rightarrow \{s_1 = (\lambda x.\text{M}(i).\text{ef}(k_2,x,s_2,v_2)?s_2(x))$

& $k_1 = k_2$

& $v_1 = v_2 \in \text{d-decl}(D;i)(k_2)$

& $m_1 = \text{filter}(\lambda m.\text{source}(\text{mlnk}(m)) = i;\text{M}(i).\text{sends}(k_2,s_2,v_2))\}$