

next-world-state^{11,40}

$\text{next-world-state}(D; i; s; k; v)$
 $\equiv_{\text{def}} \langle \text{shift-state}(\lambda x. M(i). \text{ef}(k, x, \text{read-state}(s), v) ? s(x))$
 $\quad , \text{doact}(k; v)$
 $\quad , \text{filter}(\lambda m. \text{source}(\text{mlnk}(m)) = i; M(i). \text{sends}(k, \text{read-state}(s), v)) \rangle$

clarification:

$\text{next-world-state}(D; i; s; k; v)$
 $\equiv_{\text{def}} \langle \text{shift-state}(\lambda x. \text{d-m}(D; i). \text{ef}(k, x, \text{read-state}(s), v) ? s(x))$
 $\quad , \text{doact}(k; v)$
 $\quad , \text{filter}(\lambda m. \text{source}(\text{mlnk}(m)) = i; \text{d-m}(D; i). \text{sends}(k, \text{read-state}(s), v)) \rangle$