

taken-transition^{11,40}

$\forall es:\text{event_system}\{i:l\}, L:(\text{Id List}), e:\text{es-E}(es).$
 $\text{fischer}\{x:\text{ut2}, \text{try}:\text{ut2}, \text{taken}:\text{ut2}, \text{contending}:\text{ut2}, \text{free}:\text{ut2}, \text{mine}:\text{ut2}, \text{wanted}:\text{ut2}, z:\text{ut2}\}$
 $(es; L)$
 $\Rightarrow (\text{loc}(e) \in L)$
 $\Rightarrow (\text{es-when}(es; \text{mkid}\{x:\text{ut2}\}; e) = \text{mkid}\{\text{taken}:\text{ut2}\} \in \text{Id})$
 $\Rightarrow (\neg(\text{es-after}(es; \text{mkid}\{x:\text{ut2}\}; e) = \text{mkid}\{\text{taken}:\text{ut2}\} \in \text{Id}))$
 $\Rightarrow \text{guard}(((\text{es-after}(es; \text{mkid}\{x:\text{ut2}\}; e) = \text{mkid}\{\text{free}:\text{ut2}\} \in \text{Id})$
 $\quad \wedge ((\uparrow\text{es-isrcv}(es; e))$
 $\quad \quad c \wedge (((\text{es-tag}(es; e) = \text{mkid}\{\text{free}:\text{ut2}\} \in \text{Id})$
 $\quad \quad \quad \wedge (\exists i:\text{Id}$
 $\quad \quad \quad \quad ((i \in L)$
 $\quad \quad \quad \quad \quad \wedge (\neg(i = \text{loc}(e)))$
 $\quad \quad \quad \quad \quad \wedge (\text{es-lnk}(es; e) = \langle i, \text{loc}(e), \text{mkid}\{z:\text{ut2}\} \rangle \in \text{IdLnk}))))))$
 $\quad \wedge \text{f-newround}\{x:\text{ut2}, \text{free}:\text{ut2}, \text{mine}:\text{ut2}\}$
 $\quad \quad (es; L; \text{es-sender}(es; e))))))$