

**f-free**<sup>11,40</sup>

the rcv(free message from  $e_1$  to  $j$ )  $\equiv_{\text{def}}$  es-first-from( $es;e_1;$ <loc( $e_1$ ),  $j$ , "\$z">,"\$free")

*clarification:*

f-free{ $\$z,\$free$ }( $es;e_1;j$ )  $\equiv_{\text{def}}$  es-first-from( $es;e_1;$ <es-loc( $es; e_1$ ),  $j$ , "\$z">,"\$free")