

world-rename^{0,22}

world-rename($rx;ra;rt;rainv;rtinv;w$)
 \equiv_{def} $\langle (\lambda i,x. \text{vartype}(i;rx(x)))$
 $, (\lambda i,a. \text{1of}(2\text{of}(w))(i,ra(a)))$
 $, (\lambda l,tg. w.M(l,rt(tg)))$
 $, (\lambda i,t,x. s(i;t).rx(x))$
 $, (\lambda i,t. \text{action-rename}(rainv;rtinv;a(i;t)))$
 $, (\lambda i,t. \text{mapfilter}(\lambda m.\text{msg-rename}(rtinv;m);\lambda m.\text{isl}(rtinv(\text{mtag}(m)))));m(i;t))$
 $, (\lambda i.\text{NullMachine})$
 $, \cdot \rangle$

clarification:

world-rename($rx;ra;rt;rainv;rtinv;w$)
 \equiv_{def} $\langle (\lambda i,x. \text{w-vartype}(w; i; (rx(x))))$
 $, (\lambda i,a. \text{1of}(2\text{of}(w))(i,ra(a)))$
 $, (\lambda l,tg. w.M(l,rt(tg)))$
 $, (\lambda i,t,x. \text{w-s}(w; i; t; (rx(x))))$
 $, (\lambda i,t. \text{action-rename}(rainv;rtinv;w-a(w; i; t)))$
 $, (\lambda i,t. \text{mapfilter}(\lambda m.\text{msg-rename}(rtinv;m);\lambda m.\text{isl}(rtinv(\text{mtag}(m)))));w-m(w; i; t))$
 $, (\lambda i.\text{NullMachine})$
 $, \cdot \rangle$