

R-base-ma^{0,22}

R-base-ma(R)
 \equiv_{def} case R of
Rnone \Rightarrow
Rplus($left, right$) $\Rightarrow rec_1, rec_2$.
Rinit(loc, T, x, v) $\Rightarrow x : T$ initially $x = v$
Rframe(loc, T, x, L) \Rightarrow only members of L affect $x : T$
Rsframe(lnk, tag, L) \Rightarrow only L sends on (lnk with tag)
Reffect(loc, ds, knd, T, x, f) \Rightarrow with declarations
ds: ds
da: $knd : T$
effect of $knd(v)$ is $x := f \text{ s } v$
Rsends(ds, knd, T, l, dt, g) \Rightarrow with declarations
ds: ds
da: $knd : T \oplus \text{lnk-decl}(l; dt)$
 $knd(v)$ sends $g \text{ s } v$ on link l
Rpre(loc, ds, a, T, P) \Rightarrow (with ds: ds
action $a: T$
precondition $a(v)$ is
 $P \text{ s } v$)
Riframe(loc, k, L) $\Rightarrow k$ affects only members of L
Rbframe(loc, k, L) $\Rightarrow k$ sends only on links in L
Rrframe(loc, x, L) \Rightarrow only members of L read x

clarification:

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Reffect(loc, ds, knd, T, x, f) \Rightarrow with declarations
ds: ds
da: $knd : T$
effect of $knd(v)$ is $x := f \text{ s } v$
Rsends(ds, knd, T, l, dt, g) \Rightarrow with declarations
ds: ds
da: $\text{fpf-join}(\text{KindDeq}; knd : T; \text{lnk-decl}(l; dt))$
 $knd(v)$ sends $g \text{ s } v$ on link l
Rpre(loc, ds, a, T, P) \Rightarrow (with ds: ds
action $a: T$

precondition $a(v)$ is
 $P \text{ s } v$
Raframe(loc, k, L) \Rightarrow k affects only members of L
Rbframe(loc, k, L) \Rightarrow k sends only on links in L
Rrframe(loc, x, L) \Rightarrow only members of L read x