

esp-test^{0,22}

R-Feasible(ecl-machine at "b" with state ecl

eclseq(eclbase(rcv(lnk1{a to b},"x"); $\lambda s,v.$
 $s("x") <_2 v$).1,eclbase(rcv(lnk1{a to b},"y"); $\lambda s,v.$ $v <_2 s("x")$)).2)

state variables "x" : \mathbb{Z}

actions rcv(lnk1{a to b},"x") : $\mathbb{Z} \oplus$ rcv(lnk1{a to b},"y") : $\mathbb{Z} \oplus$
rcv(lnk1{b to output},"hello") : \mathbb{B}

sends rcv(lnk1{a to b},"y") sends on lnk1{b to output}
with tag "hello" [$s,v.true_2$], at marker 2

updates update-spec1(rcv(lnk1{a to b},"x");"x";1; $s,v.v$) \oplus
update-spec1(rcv(lnk1{a to b},"y");"x";2; $s,v.v$)

- \oplus @"a" precondition for "a"(v:Unit):
 $\lambda s,v. s("x") < 10$ State("x" : \mathbb{Z}) v
- \oplus @"a" effect locl("a")(v:Unit) "x" := $\lambda s,v. s("x")+1$ State("x" : \mathbb{Z}) v
- \oplus sends locl("a")(v:Unit) on lnk1{a to b}:
tagged([<"x", $\lambda s,v. [s("x")]$]),State("x" : \mathbb{Z}),v):"x" : \mathbb{Z}
- \oplus sends rcv(lnk1{input to a},"key")(v: \mathbb{Z}) on lnk1{a to b}:
tagged([<"y", $\lambda s,v. [v]$]),State(),v):"y" : \mathbb{Z}
- \oplus sends rcv(lnk1{input to a},"string")(v:Atom) on lnk1{a to b}:
tagged([<"string", $\lambda s,v. [v]$]),State(),v):"string" : Atom
- \oplus sends rcv(lnk1{input to a},"b")(v: \mathbb{B}) on lnk1{a to b}:
tagged([<"b", $\lambda s,v. [v]$]),State(),v):"b" : \mathbb{B}
- \oplus sends rcv(lnk1{input to a},"hello")(v:Unit) on lnk1{a to b}:
tagged([<"hello", $\lambda s,v. [v]$]),State(),v):"hello" : Unit