sends-rule[11,40]

$\forall i$:Id, k:Knd, l:IdLnk, ds:x:Id fp→ Type, da:a:Knd fp→ Type,
  f:((tg:Id × (State(ds)→Valtype(da;k)→(da(rcv(l,tg))?Void List))) List).
(source(l) = i)
⇒ @i: with declarations
  ds:ds
  da:da
    k(v) sends f s v on link l
  realizes es.
  ((∀x:Id. vartype(i;x) ⊆r ds(x)?Top)
  & (∀e:E. (loc(e) = i ∈ Id) ⇒ (valtype(e) ⊆r Valtype(da;kind(e))))
  & (∀e:E. (↑isrcv(e)) ⇒ (lnk(e) = l ∈ IdLnk) ⇒ (valtype(e) ⊆r Valtype(da;kind(e))))
  & ({m:Msg| source(mlnk(m)) = i} ⊆r Msg(λl,tg. da(rcv(l,tg))?Top)))
  c∧ (∀e:E.
    (loc(e) = i ∈ Id)
    ⇒ (kind(e) = k ∈ Knd)
    ⇒ (sends(l;e)
      =
      tagged-messages(l;λz.z when e;val(e);f)
      ∈ (Msg(λl,tg. da(rcv(l,tg))?Top) List)))

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http://www.nuprl.org/FDLcontent/p0_963683_/p45_430659_{sends-rule}.html