es_realizer_ind[0,22]

case x_1 of
Rnone => *none*
Rplus(*left*,*right*)=>rec_1,rec_2.*plus*(*left*;*right*;rec_1;rec_2)
Rinit(*loc*,*T*,*x*,*v*)=> *init*(*loc*;*T*;*x*;*v*)
Rframe(*loc*,*T*,*x*,*L*)=> *frame*(*loc*;*T*;*x*;*L*)
Rsframe(*lnk*,*tag*,*L*)=> *sframe*(*lnk*;*tag*;*L*)
Reffect(*loc*,*ds*,*knd*,*T*,*x*,*f*)=> *effect*(*loc*;*ds*;*knd*;*T*;*x*;*f*)
Rsends(*ds*,*knd*,*T*,*l*,*dt*,*g*)=> *sends*(*ds*;*knd*;*T*;*l*;*dt*;*g*)
Rpre(*loc*,*ds*,*a*,*T*,*P*)=> *pre*(*loc*;*ds*;*a*;*T*;*P*)
Raframe(*loc*,*k*,*L*)=> *aframe*(*loc*;*k*;*L*)
Rbframe(*loc*,*k*,*L*)=> *bframe*(*loc*;*k*;*L*)
Rrframe(*loc*,*x*,*L*)=> *rframe*(*loc*;*x*;*L*)
$\equiv_{\mathrm{def}}$ Case x_1 of
     inl(x) $\Rightarrow$ *none*
     inr(x)
     $\Rightarrow$ Case x of
       inl(x) $\Rightarrow$ *plus*(1of(x)
                ;2of(x)
                ;case 1of(x) of
                Rnone => *none*
                Rplus(*left*,*right*)=>rec_1,rec_2.*plus*(*left*;*right*;rec_1;rec_2)
                Rinit(*loc*,*T*,*x*,*v*)=> *init*(*loc*;*T*;*x*;*v*)
                Rframe(*loc*,*T*,*x*,*L*)=> *frame*(*loc*;*T*;*x*;*L*)
                Rsframe(*lnk*,*tag*,*L*)=> *sframe*(*lnk*;*tag*;*L*)
                Reffect(*loc*,*ds*,*knd*,*T*,*x*,*f*)=> *effect*(*loc*;*ds*;*knd*;*T*;*x*;*f*)
                Rsends(*ds*,*knd*,*T*,*l*,*dt*,*g*)=> *sends*(*ds*;*knd*;*T*;*l*;*dt*;*g*)
                Rpre(*loc*,*ds*,*a*,*T*,*P*)=> *pre*(*loc*;*ds*;*a*;*T*;*P*)
                Raframe(*loc*,*k*,*L*)=> *aframe*(*loc*;*k*;*L*)
                Rbframe(*loc*,*k*,*L*)=> *bframe*(*loc*;*k*;*L*)
                Rrframe(*loc*,*x*,*L*)=> *rframe*(*loc*;*x*;*L*)
                ;case 2of(x) of
                Rnone => *none*
                Rplus(*left*,*right*)=>rec_1,rec_2.*plus*(*left*;*right*;rec_1;rec_2)
                Rinit(*loc*,*T*,*x*,*v*)=> *init*(*loc*;*T*;*x*;*v*)
                Rframe(*loc*,*T*,*x*,*L*)=> *frame*(*loc*;*T*;*x*;*L*)
                Rsframe(*lnk*,*tag*,*L*)=> *sframe*(*lnk*;*tag*;*L*)
                Reffect(*loc*,*ds*,*knd*,*T*,*x*,*f*)=> *effect*(*loc*;*ds*;*knd*;*T*;*x*;*f*)
                Rsends(*ds*,*knd*,*T*,*l*,*dt*,*g*)=> *sends*(*ds*;*knd*;*T*;*l*;*dt*;*g*)
                Rpre(*loc*,*ds*,*a*,*T*,*P*)=> *pre*(*loc*;*ds*;*a*;*T*;*P*)
                Raframe(*loc*,*k*,*L*)=> *aframe*(*loc*;*k*;*L*)
                Rbframe(*loc*,*k*,*L*)=> *bframe*(*loc*;*k*;*L*)
                Rrframe(*loc*,*x*,*L*)=> *rframe*(*loc*;*x*;*L*))

$\mathrm{inr}(x)$
$\Rightarrow$ Case x of
$\quad$ $\mathrm{inl}(x) \Rightarrow \mathit{init}(\mathrm{1of}(x);\mathrm{1of}(\mathrm{2of}(x));\mathrm{1of}(\mathrm{2of}(\mathrm{2of}(x)));\mathrm{2of}(\mathrm{2of}(\mathrm{2of}(x))))$
$\quad$ $\mathrm{inr}(x) \Rightarrow$ Case x of
$\qquad$ $\mathrm{inl}(x) \Rightarrow \mathit{frame}(\mathrm{1of}(x);\mathrm{1of}(\mathrm{2of}(x));\mathrm{1of}(\mathrm{2of}(\mathrm{2of}(x)));\mathrm{2of}(\mathrm{2of}(\mathrm{2of}(x))))$
$\qquad$ $\mathrm{inr}(x) \Rightarrow$ Case x of
$\qquad\qquad$ $\mathrm{inl}(x) \Rightarrow \mathit{sframe}(\mathrm{1of}(x);\mathrm{1of}(\mathrm{2of}(x));\mathrm{2of}(\mathrm{2of}(x)))$
$\qquad\qquad$ $\mathrm{inr}(x) \Rightarrow$ Case x of
$\qquad\qquad\qquad$ $\mathrm{inl}(x) \Rightarrow \mathit{effect}(\mathrm{1of}(x)$
$\qquad\qquad\qquad\qquad\qquad$ $;\mathrm{1of}(\mathrm{2of}(x))$
$\qquad\qquad\qquad\qquad\qquad$ $;\mathrm{1of}(\mathrm{2of}(\mathrm{2of}(x)))$
$\qquad\qquad\qquad\qquad\qquad$ $;\mathrm{1of}(\mathrm{2of}(\mathrm{2of}(\mathrm{2of}(x))))$
$\qquad\qquad\qquad\qquad\qquad$ $;\mathrm{1of}(\mathrm{2of}(\mathrm{2of}(\mathrm{2of}(\mathrm{2of}(x)))))$
$\qquad\qquad\qquad\qquad\qquad$ $;\mathrm{2of}(\mathrm{2of}(\mathrm{2of}(\mathrm{2of}(\mathrm{2of}(x)))))))$
$\qquad\qquad\qquad$ $\mathrm{inr}(x) \Rightarrow$ Case x of
$\qquad\qquad\qquad\qquad$ $\mathrm{inl}(x) \Rightarrow \mathit{sends}(\mathrm{1of}(x)$
$\qquad\qquad\qquad\qquad\qquad\qquad$ $;\mathrm{1of}(\mathrm{2of}(x))$
$\qquad\qquad\qquad\qquad\qquad\qquad$ $;\mathrm{1of}(\mathrm{2of}(\mathrm{2of}(x)))$
$\qquad\qquad\qquad\qquad\qquad\qquad$ $;\mathrm{1of}(\mathrm{2of}(\mathrm{2of}(\mathrm{2of}(x))))$
$\qquad\qquad\qquad\qquad\qquad\qquad$ $;\mathrm{1of}(\mathrm{2of}(\mathrm{2of}(\mathrm{2of}(\mathrm{2of}(x)))))$
$\qquad\qquad\qquad\qquad\qquad\qquad$ $;\mathrm{2of}(\mathrm{2of}(\mathrm{2of}(\mathrm{2of}(\mathrm{2of}(x)))))))$
$\qquad\qquad\qquad\qquad$ $\mathrm{inr}(x) \Rightarrow$ Case x of
$\qquad\qquad\qquad\qquad\qquad$ $\mathrm{inl}(x) \Rightarrow \mathit{pre}(\mathrm{1of}(x)$
$\qquad\qquad\qquad\qquad\qquad\qquad\qquad$ $;\mathrm{1of}(\mathrm{2of}(x))$
$\qquad\qquad\qquad\qquad\qquad\qquad\qquad$ $;\mathrm{1of}(\mathrm{2of}(\mathrm{2of}(x)))$
$\qquad\qquad\qquad\qquad\qquad\qquad\qquad$ $;\mathrm{1of}(\mathrm{2of}(\mathrm{2of}(\mathrm{2of}(x))))$
$\qquad\qquad\qquad\qquad\qquad\qquad\qquad$ $;\mathrm{2of}(\mathrm{2of}(\mathrm{2of}(\mathrm{2of}(x)))))$
$\qquad\qquad\qquad\qquad\qquad$ $\mathrm{inr}(x) \Rightarrow$ Case x of
$\qquad\qquad\qquad\qquad\qquad\qquad$ $\mathrm{inl}(x) \Rightarrow \mathit{aframe}(\mathrm{1of}(x)$
$\qquad\qquad\qquad\qquad\qquad\qquad\qquad\qquad$ $;\mathrm{1of}(\mathrm{2of}(x))$
$\qquad\qquad\qquad\qquad\qquad\qquad\qquad\qquad$ $;\mathrm{2of}(\mathrm{2of}($
$\qquad\qquad\qquad\qquad\qquad\qquad\qquad\qquad\quad$ $x)))$
$\qquad\qquad\qquad\qquad\qquad\qquad$ $\mathrm{inr}(x) \Rightarrow$ Case x of
$\qquad\qquad\qquad\qquad\qquad\qquad\qquad$ $\mathrm{inl}(x)$
$\qquad\qquad\qquad\qquad\qquad\qquad\qquad$ $\Rightarrow \mathit{bframe}(\mathrm{1of}(x)$
$\qquad\qquad\qquad\qquad\qquad\qquad\qquad\qquad\qquad$ $;\mathrm{1of}(\mathrm{2of}($
$\qquad\qquad\qquad\qquad\qquad\qquad\qquad\qquad\qquad\quad$ $x))$
$\qquad\qquad\qquad\qquad\qquad\qquad\qquad\qquad\qquad$ $;\mathrm{2of}(\mathrm{2of}($
$\qquad\qquad\qquad\qquad\qquad\qquad\qquad\qquad\qquad\quad$ $x)))$
$\qquad\qquad\qquad\qquad\qquad\qquad\qquad$ $\mathrm{inr}(x)$
$\qquad\qquad\qquad\qquad\qquad\qquad\qquad$ $\Rightarrow \mathit{rframe}(\mathrm{1of}(x)$
$\qquad\qquad\qquad\qquad\qquad\qquad\qquad\qquad\qquad$ $;\mathrm{1of}(\mathrm{2of}($
$\qquad\qquad\qquad\qquad\qquad\qquad\qquad\qquad\qquad\quad$ $x))$
$\qquad\qquad\qquad\qquad\qquad\qquad\qquad\qquad\qquad$ $;\mathrm{2of}(\mathrm{2of}($
$\qquad\qquad\qquad\qquad\qquad\qquad\qquad\qquad\qquad\quad$ $x)))$

(recursive)

http://www.cs.cornell.edu/Info/Projects/NuPrl/FDLcontent/p0_286125_/p46_80154_{es_realizer_ind}.html