es_realizer[11,40]

es_realizer{i:l}
$\equiv_{\text{def}}$ rec(X.(Unit + (*left*:$X \times X$) + (*loc*:Id
$\times$ (T:Type
$\times$ (x:Id
$\times$ (T + (rationals→T)))))) + (*loc*:Id
$\times$ (T:Type
$\times$ (x:Id
$\times$ (Knd List)))) + (*lnk*:IdLnk $\times$ (*tag*:Id $\times$ (Knd List))) + (*loc*:Id
$\times$ (*ds*:fpf(Id; x.Type)
$\times$ *knd*:Knd
$\times$ T:Type
$\times$ (x:Id
$\times$ ((decl-state(ds)→T→decl-type{i:l}
$\qquad\qquad\qquad\qquad$ (ds; x)) + (decl-state(ds)→T→rationals→
$\quad$ decl-type{i:l}
$\qquad\qquad$ (ds; x)))))) + (*ds*:fpf(Id; x.Type)
$\times$ (*knd*:Knd
$\times$ T:Type
$\times$ l:IdLnk
$\times$ (*dt*:fpf(Id; x.Type)
$\times$ ((*tg*:Id
$\quad$ $\times$ (decl-state(ds)→T→(decl-type{i:l}
$\qquad\qquad\qquad\qquad$ (dt; tg) List))) List)))) + (*loc*:Id
$\times$ (*ds*:fpf(Id; x.Type)
$\times$ a:Id
$\times$ (*p*:finite-prob-space
$\times$ (decl-state(ds)→ $\mathbb{B}$)))) + (*loc*:Id $\times$ (*k*:Knd $\times$ (Id List))) + (*loc*:Id
$\times$ (*k*:Knd
$\times$ (IdLnk List))) + (*loc*:Id $\times$ (*x*:Id $\times$ (Knd List)))))

clarification:

es_realizer{i:l}
$\equiv_{\text{def}}$ rec(X.(Unit + (*left*:$X \times X$) + (*loc*:Id
$\times$ (T:Type{i}
$\times$ (x:Id
$\times$ (T + (rationals→T)))))) + (*loc*:Id
$\times$ (T:Type{i}
$\times$ (x:Id
$\times$ (Knd List)))) + (*lnk*:IdLnk $\times$ (*tag*:Id $\times$ (Knd List))) + (*loc*:Id
$\times$ (*ds*:fpf(Id; x.Type{i})
$\times$ *knd*:Knd

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$\times$ T:Type{i}
$\times$ (x:Id
$\times$ ((decl-state(ds)$\to$$T$$\to$decl-type{i:l}
$\qquad\qquad\qquad\qquad\qquad$ (ds; x)) + (decl-state(ds)$\to$$T$$\to$rationals$\to$
decl-type{i:l}
$\qquad\qquad$ (ds; x))))))) + (ds:fpf(Id; x.Type{i}))
$\times$ (knd:Knd
$\times$ T:Type{i}
$\times$ l:IdLnk
$\times$ (dt:fpf(Id; x.Type{i}))
$\times$ ((tg:Id
$\quad$ $\times$ (decl-state(ds)$\to$$T$$\to$(decl-type{i:l}
$\qquad\qquad\qquad\qquad\qquad\qquad$ (dt; tg) List))) List)))) + (loc:Id
$\times$ (ds:fpf(Id; x.Type{i}))
$\times$ a:Id
$\times$ (p:finite-prob-space
$\times$ (decl-state(ds)$\to$ $\mathbb{B}$)))) + (loc:Id $\times$ (k:Knd $\times$ (Id List))) + (loc:Id
$\times$ (k:Knd
$\times$ (IdLnk List))) + (loc:Id $\times$ (x:Id $\times$ (Knd List)))))