combine-ecl-tuples2[11,40]

combine-ecl-tuples2(A; B; f; g)
$\equiv_{\text{def}}$ spreadn(A;
Ta,ksa,ia,ga,ha,aa,ea.spreadn
(B;
Tb,ksb,ib,gb,hb,ab,eb.<:Ta × (:Tb × (?$\mathbb{B}$))
, append(ksa; ksb)
, <ia, ib, inr · >
, λk',s,v,x. let sa = if deq-member(Kind-deq; k'; ksa)
then ga(k',s,v,x.1)
else x.1
fi in
let sb = if deq-member(Kind-deq; k'; ksb)
then gb(k',s,v,(x.2).1)
else (x.2).1
fi in
<sa
, sb
, combine-halt-info(ea;
eb;
(λm.ha(m,sa));
(λm.hb(m,sb));
(x.2.2))>
, λn,x. f((x.2.2),λm.ha(m,x.1),λm.hb(m,(x.2).1),n)
, λn,k',s,v,x. g
(ha(0,x.1)
,hb(0,(x.2).1)
,reduce((λm,b. bor((ha(m,x.1)); b)); ff; ea)
,reduce((λm,b. bor((hb(m,(x.2).1)); b)); ff; eb)
,if deq-member(Kind-deq; k'; ksa)
then aa(n,k',s,v,x.1)
else ff
fi
,if deq-member(Kind-deq; k'; ksb)
then ab(n,k',s,v,(x.2).1)
else ff
fi)
, merge(ea; eb)>))

clarification:

combine-ecl-tuples2(A; B; f; g)
$\equiv_{\text{def}}$ spreadn(A;

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Ta,ksa,ia,ga,ha,aa,ea.spreadn
(B;
 Tb,ksb,ib,gb,hb,ab,eb.<:Ta × (:Tb × (𝔹 + Unit))
 , append(ksa; ksb)
 , <ia, ib, inr · >
 , λk′,s,v,x. let sa = if deq-member(Kind-deq; k′; ksa)
                      then ga(k′,s,v,x.1)
                      else x.1
                      fi in
                      let sb = if deq-member(Kind-deq; k′; ksb)
                          then gb(k′,s,v,(x.2).1)
                          else (x.2).1
                          fi in
                          <sa
                          , sb
                          , combine-halt-info(ea;
                                              eb;
                                              (λm.ha(m,sa));
                                              (λm.hb(m,sb));
                                              (x.2.2))>
 , λn,x. f((x.2.2),λm.ha(m,x.1),λm.hb(m,(x.2).1),n)
 , λn,k′,s,v,x. g
                (ha(0,x.1)
                ,hb(0,(x.2).1)
                ,reduce((λm,b. bor((ha(m,x.1)); b)); ff; ea)
                ,reduce((λm,b. bor((hb(m,(x.2).1)); b)); ff; eb)
                ,if deq-member(Kind-deq; k′; ksa)
                 then aa(n,k′,s,v,x.1)
                 else ff
                 fi
                ,if deq-member(Kind-deq; k′; ksb)
                 then ab(n,k′,s,v,(x.2).1)
                 else ff
                 fi )
 , merge(ea; eb)>))
```

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http://www.nuprl.org/FDLcontent/p0_963683_/p51_74682_{combine-ecl-tuples2}.html