

Let w be a fresh tensor variable.

Replace S' with $(A_K \oplus = w_I)$ **where** $(w_I \oplus = E)$.
for j in J , from innermost to outermost \forall **do**

Note that S' is of the form S'_C **where** S'_P .

if j is used in both S'_C and S'_P and $j \in I$ **then**

Replace $\forall_j S'$ with $(\forall_j S'_C)$ **where** $(\forall_j S'_P)$

else if j is used only in S'_C **then**

Replace $\forall_j S'$ with $(\forall_j S'_C)$ **where** S'_P

else if j is used only in S'_P **then**

Replace $\forall_j S'$ with S'_C **where** $(\forall_j S'_P)$

else

Error.

end if

end for