

Lemma 2

IP (1)  $\text{Vidom}(h) : h() = [c] - \perp \Rightarrow h'() = [c] - \perp$

" (2)  $P, h \vdash e = t$

then

(3)  $P, h' \vdash e = t$

Proof by structural induction on the derivation of (2).

1st Case RT-NULL, RT-VOID, RT-NEW, RT-SUB-ASYNC, RT-EX.

2nd Case RT-ADDR, apply (1).

3rd Case RT-INV. apply Ind. hypothesis and RT-INV.

4 rest similar