```
es-invariant1  THM

⊢  ∀es:ES, i,x:Id, T:Type, I:(T→Prop).
   (vartype(i;x) ⊆r T) & ∀e@i.first(e) ⇒ I((x when e))
   ⇒
   ∀e@i.I((x when e)) ⇒ I((x after e)) ⇒ @i always.I(x)
  by let tac
         ≡ AllHyps SetHD THEN Try DoSubsume
           THEN
           AllHyps
           (λh.NthHypEq h THEN RepeatFor 2 Analyze THEN EsAuto) in
     UnivCD THEN ExRepD THEN Try (Complete tac)
     THEN
     Unfold `alle-at1` 0
     THEN
     BackThru
     Thm* ∀es:ES, i:Id, P:({e:E| loc(e) = i ∈ Id }→Prop).
          ∀e@i.P(e)
          ⟺
          ∀e@i.first(e) ⇒ P(e) & ∀e@i.¬first(e) ⇒ P(pred(e)) ⇒ P(e)
     {alle_DASH_at_DASH_iff}
     THEN
     Try (Complete tac)
     THEN
     All (Unfold `alle-at`)
     THEN
     Try (Complete tac)
     THEN
     InstHyp [pred(e)] -5
     THEN
     EsAuto
     THEN
     Subst ((x after pred(e)) = (x when e)) -1
     THEN
     EsAuto
     THEN
     tac
END
```