```
s-pre-rule  THM

⊢  ∀i,a:Id, T:Type, ds:a:Id fp-> Type, P:(State(ds)→T→Prop).
   @i: (with ds: ds action a:T precondition a(v) is P s v) ∈ Dsys
   & (∀D:Dsys.
      @i: (with ds: ds
       action a:T
       precondition a(v) is
       P s v) ⊆ D
      ⇒
      D
      realizes es.(∀x:Id. vartype(i;x) ⊆r ds(x)?Top)
                  & (∀e:E.
                     loc(e) = i
                     ⇒
                     kind(e) = locl(a) ⇒ (valtype(e) ⊆r T))
                  & (∀e:E.
                     loc(e) = i
                     ⇒
                     (kind(e) = locl(a) ⇒ P((λz.(z when e)),val(e)))
                     & (∃e':E.
                        (e <loc e') ∨ e = e'
                        & kind(e') = locl(a)
                          ∨ (∀v:T. ¬P((λz.(z after e')),v)))))
  by NewSpecializeEsLemmaOn Thm: pre_DASH_rule
     (with ds: ds
      action a:T
      precondition a(v) is
      P s v)
     THEN
     Subst (loc(e') = i) 0
     THEN
     Try BackThruSomeHyp
     THEN
     SplitOrHyps
     THEN
     AllHyps (λh.Analyze h THEN Complete Auto)
     THEN
     AllHyps (λh.RevHypSubst h 0 THEN Complete Auto)
END
```