```
inv_pre_less_eq  THM

⊢  ∀n:ℕ. 0<n ⇒ (∀m:ℕ. pre(m)≤pre(n) ⟺ m≤n)
  by RewriteOfThm
     Thm* all
          (λn:hnum. implies
                    (lt(0,n)
                    ,all(λm:hnum. equal(le(pre(m),pre(n)),le(m,n)))))
     {hinv_pre_less_eq}
     (SimpsetC [‘hol_to_nuprl‘;‘bequal‘])
END
```