```
inv_pre_less  THM

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