```
hinfinity_ax  THM

⊢  exists(λf:hind → hind. and(one_one(f),not(onto(f))))
| by Simpsetp [‘hol_to_nuprl‘] THEN StrongAuto
|
⊢  ∃f:(ℕ→ℕ). one_one(ℕ;ℕ;f) & ¬onto(ℕ;ℕ;f)
| by ((DTerm (λx.x+1) 0) THEN (Unab [‘one_one‘;‘onto‘])) THEN Simp
|    THEN
|    StrongAuto
|
⊢  ¬(∀y:ℕ. ∃x:ℕ. y = x+1)
| by ((Analyze 0) THEN (DTerm 0 -1)) THEN StrongAuto
|
1. ∃x:ℕ. 0 = x+1
⊢  False  by Analyze -1 THEN StrongAuto
END
```