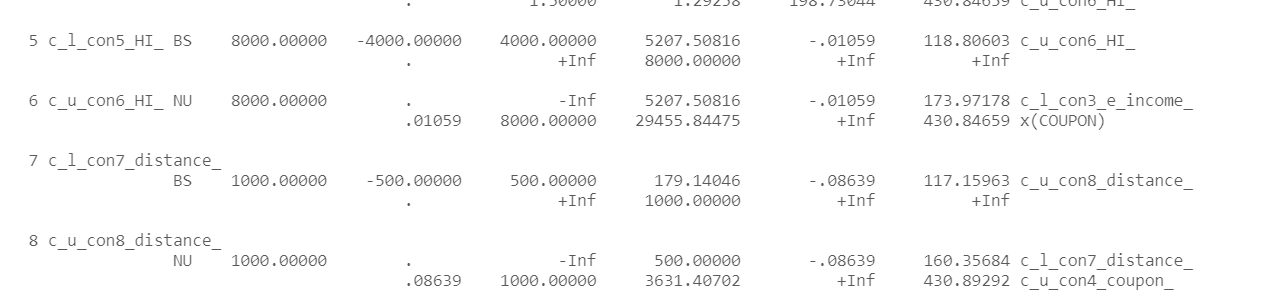
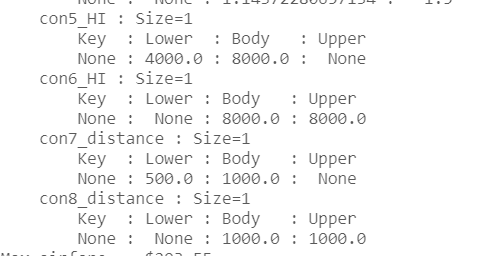
HI and Distance have multiple constraints with different ranges….



Due to:



Due to:

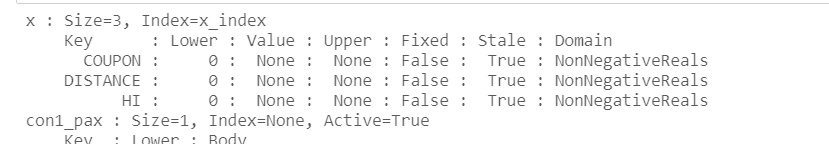
M.con5\_HI = Constraint(expr=M.x['HI'] >= 4000)

M.con6\_HI = Constraint(expr=M.x['HI'] <= 8000)

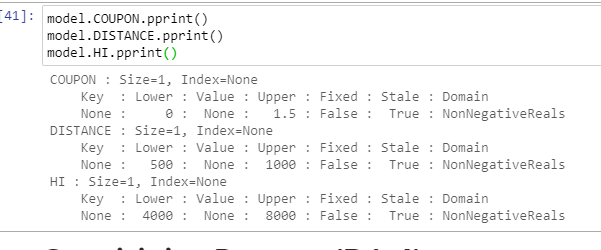
M.con7\_distance = Constraint(expr=M.x['DISTANCE'] >= 500)

M.con8\_distance = Constraint(expr=M.x['DISTANCE'] <= 1000)

Variables Have No Bounds on declaration:



But in my code they do where they are declared:



I also seem to be doing the bounds on the variable, not on the sum:

* Example:
  + M.con2\_s\_income = Constraint(expr=sum(con2\_coefs\_s\_income[p] \* M.x[p] for p in predictors) <= 30000)  
    M.con3\_e\_income = Constraint(expr=sum(con3\_coefs\_e\_income[p] \* M.x[p] for p in predictors) >= 30000)
* Versus Mine, where I'm doing the equation elsewhere and my constraint is only on the model value, not the full equation. I'm certain I mis-read something as I was building it and didn't realize my mistake:
  + # model.S\_INCOME30000\_ct = ConstraintList()  
    # model.S\_INCOME30000\_ct.add(model.S\_INCOME <= 30000)  
      
    # model.E\_INCOME30000\_ct = ConstraintList()  
    # model.E\_INCOME30000\_ct.add(model.E\_INCOME >= 30000)