API CPLEX

CPLEX> read model.lp  
Problem 'Problems/model.lp' read.  
Read time = 0.02 sec. (0.55 ticks)  
  
CPLEX> optimize  
Row 'c4257' infeasible, all entries at implied bounds.  
Presolve time = 0.00 sec. (0.89 ticks)  
…  
  
CPLEX> conflict  
Refine conflict on 4884 members...  
  
 Iteration Max Members Min Members  
 1 4274 0  
 …  
 37 7 7  
  
Minimal conflict: 7 linear constraint(s)  
 0 lower bound(s)  
 0 upper bound(s)  
Conflict computation time = 0.22 sec. Iterations = 37  
Deterministic time = 38.98 ticks (177.99 ticks/sec)  
  
CPLEX> display conflict all  
Minimize  
 obj:  
Subject To  
 off\_t1\_th4: on\_t1\_th4 + off\_t1\_th4 = 1  
 off\_t2\_th4: on\_t2\_th4 + off\_t2\_th4 = 1  
 timeToStart\_t0\_th4: - starting\_t0\_th4 + off\_t1\_th4 >= 0  
 startConjunction\_t0\_th4: - on\_t2\_th4 + starting\_t0\_th4 >= 0  
 stopIfPreviousOn\_t0\_th4: stopping\_t0\_th4 <= 0  
 stopConjunction\_t2\_th4: - on\_t1\_th4 - off\_t2\_th4 + stopping\_t0\_th4 >= -1  
 c4225: - on\_t1\_th4 <= -1  
\Sum of equality rows in the conflict:  
\ sum\_eq: on\_t1\_th4 + on\_t2\_th4 + off\_t1\_th4 + off\_t2\_th4 = 2  
Bounds  
 0 <= on\_t1\_th4 <= 1  
 0 <= on\_t2\_th4 <= 1  
 0 <= starting\_t0\_th4 <= 1  
 0 <= off\_t1\_th4 <= 1  
 0 <= off\_t2\_th4 <= 1  
 0 <= stopping\_t0\_th4 <= 1  
Binaries  
 on\_t1\_th4 on\_t2\_th4 starting\_t0\_th4 off\_t1\_th4 off\_t2\_th4  
 stopping\_t0\_th4