

Start

Infeasible Constraint Set (ICS) &
Empty Lists (S and D)

Start

Compute IIS of ICS
and Store in a list
named S

Exclude a constraint,
belonging to S list,
from ICS

Add the excluded constraint to
D list with a given weight

Compute IIS for new
ICS without the
excluded constraint

No

Cover all constraints
existing in S list?

Yes

System model is
feasible?

No

Yes

D list including constraints
with different weighs

Identify the origin of
unsatisfiability based on
constraints frequencies in
the D list

End

