Puzzle time - on malicious agents

On the island of truth

On the island of knights and knaves, knights always tell the truth, while knaves always lie. You are approached by two people. The first one says: “We are both knaves”. What are they actually?


```
assign(domain_size,2).
assign(max_models,-1).

formulas(island_of_truth).
  all x (inhabitant(x) -> knight(x) | knave(x)).
  all x ((knight(x) -> -knave(x)) & (knave(x) -> -knight(x))).
  knight(x) ->  m(x).
  knave(x)  -> -m(x).
end_of_list.

formulas(puzzle).
  inhabitant(a) & inhabitant(b).
  m(a) <->  knave(a) & knave(b).
end_of_list.
```

Can you implement communication in Jason (with Mace4 as reasoning tool)?
(first implementation gets 2 points for the exam grade)