|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Values  of H1-h2 | counterexample | No. of variables | NUmber of formulas | Time taken to encode smt encoding | time taken by z3 to check for sat/unsat |
| 0-1 | a\_0=0  a\_1=1  a\_6=0  a\_5=0  a\_4=0  a\_3=0  a\_2=0 | 1673 | 11922 | 0.10756 | 0.09587 |
| 0-5 | a\_5=1  a\_7=0  a\_0=0  a\_3=0  a\_9=1  a\_1=0  a\_14=0  a\_13=0  a\_12=0  a\_11=0  a\_10=0  a\_8=0  a\_6=0  a\_4=0  a\_2=0 | 7665 | 61614 | 1.75407 | 4.08991 |
| 0-10 | a\_17=0  a\_7=0  a\_0=0  a\_19=0  a\_1=1  a\_11=0  a\_13=1  a\_15=1  a\_5=1  a\_3=0  a\_9=0  a\_24=0  a\_23=0  a\_22=0  a\_21=0  a\_20=0  a\_18=0  a\_16=0  a\_14=0  a\_12=0  a\_10=0  a\_8=0  a\_6=0  a\_4=0  a\_2=0 | 21275 | 178539 | 13.24235 | 184.58241 |
|  |  |  |  |  |  |
|  |  |  |  |  |  |
|  |  |  |  |  |  |
|  |  |  |  |  |  |

**Property**: AS sh . A s1 . A s2 . ~((he0(s1) & hg0(s2)) & ~((P(true U (l\_1(s1) & terminated(s1))) = P(true U (l\_1(s2)& terminated(s2)))) & (P(true U (l\_2(s1)& terminated(s1))) = P(true U (l\_2(s2) & terminated(s2))))))