

anthropic/clause-3-5-haiku-20241022 — accuracy — prompt_83b02d3a05 (cnf_v1) Example (horn=1, low, maxvars=10, maxlen=3, satflag=1)

prompt_template=prompts/exp1_cnf_v1_contradiction.j2 | parse_family=contradiction

Instruction excerpt:

Your task is to solve a problem in propositional logic.

You will get a list of statements and have to determine whether the statements

form a logical contradiction or not.

If the statements form a contradiction, the last word of your answer should be

'contradiction'

otherwise the last word should be either 'satisfiable' or 'unknown'.

Propositional variables are represented as 'pN' where N is a number. They are either true or false.

'X or Y' means that X is true or Y is true or both X and Y are true.

All the given statements are implicitly connected with 'and': they are all claimed to be true.

...

p1 is true. p1 is false or p2 is true. p2 is false. Answer: contradiction.

Example 2. Statements: p1 is true. p1 is true or p2 is true. p2 is false.

Answer: satisfiable.

Statements:

p2 is true.

p4 is true.

p10 is false or p2 is true.

p10 is false or p4 is true.

p9 is false or p1 is false.

p9 is false or p1 is true.

p8 is false or p2 is true.

p8 is false or p4 is true.

...

no_thinking_tag (n=5)



anthropic/clause-3-5-haiku-20241022 — sat_accuracy — prompt_83b02d3a05 (cnf v1)

prompt_template=prompts/exp1_cnf_v1_contradiction.j2 | parse_family=contradiction

Instruction excerpt:

Your task is to solve a problem in propositional logic.

You will get a list of statements and have to determine whether the statements form a logical contradiction or not.

If the statements form a contradiction, the last word of your answer should be 'contradiction', otherwise the last word should be either 'satisfiable' or 'unknown'.

Propositional variables are represented as 'pN' where N is a number. They are either true or false.

'X or Y' means that X is true or Y is true or both X and Y are true.

All the given statements are implicitly connected with 'and': they are all claimed to be true.

...

Example (horn=1, low, maxvars=10, maxlen=3, satflag=1)
p1 is true. p1 is false or p2 is true. p2 is false. Answer: contradiction.

Example 2. Statements: p1 is true. p1 is true or p2 is true. p2 is false. Answer: satisfiable.

Statements:

p2 is true.

p4 is true.

p10 is false or p2 is true.

p10 is false or p4 is true.

p9 is false or p1 is false.

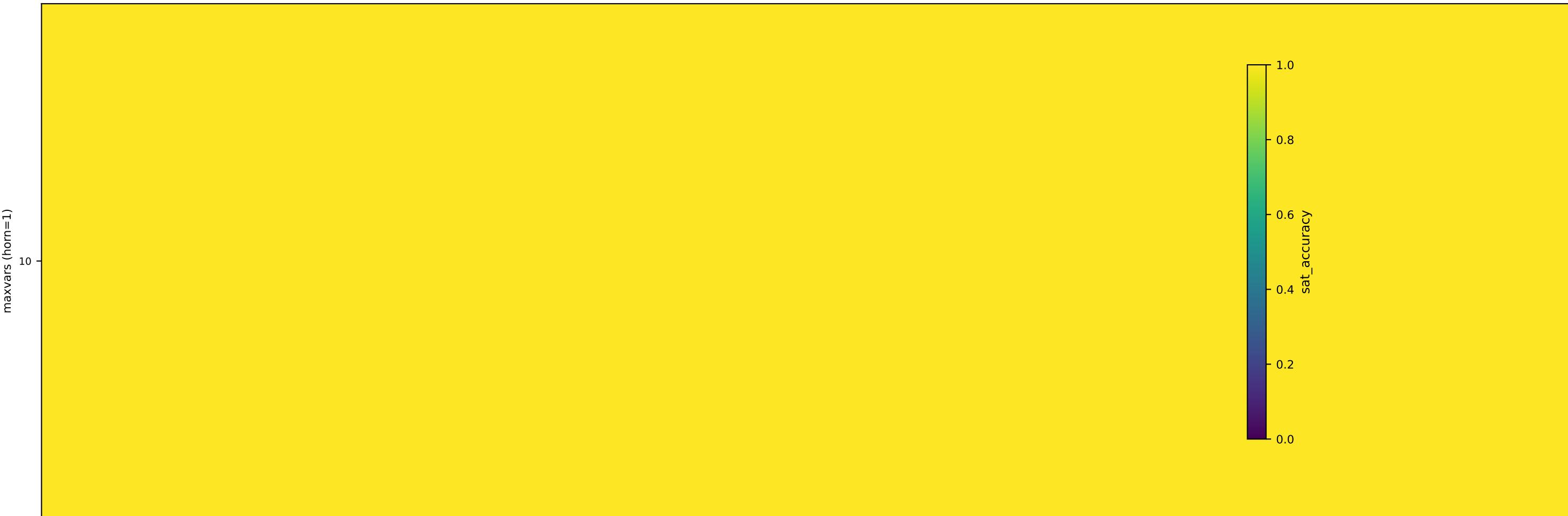
p9 is false or p1 is true.

p8 is false or p2 is true.

p8 is false or p4 is true.

...

no_thinking_tag (n=5)



anthropic/clause-3-5-haiku-20241022 — unsat_accuracy — prompt_83b02d3a05 (example)

prompt_template=prompts/exp1_cnf_v1_contradiction.j2 | parse_family=contradiction

Instruction excerpt:

Your task is to solve a problem in propositional logic.
You will get a list of statements and have to determine whether the statements form a logical contradiction or not.
If the statements form a contradiction, the last word of your answer should be 'contradiction', otherwise the last word should be either 'satisfiable' or 'unknown'.

Propositional variables are represented as 'pN' where N is a number. They are either true or false.

'X or Y' means that X is true or Y is true or both X and Y are true.

All the given statements are implicitly connected with 'and': they are all claimed to be true.

...

Example (horn=1, low, maxvars=10, maxlen=3, satflag=1)

p1 is true. p1 is false or p2 is true. p2 is false. Answer: contradiction.

Example 2. Statements: p1 is true. p1 is true or p2 is true. p2 is false. Answer: satisfiable.

Statements:

p2 is true.
p4 is true.
p10 is false or p2 is true.
p10 is false or p4 is true.
p9 is false or p1 is false.
p9 is false or p1 is true.
p8 is false or p2 is true.
p8 is false or p4 is true.

...

no_thinking_tag (n=5)



anthropic/clause-3-5-haiku-20241022 — accuracy — prompt_c6875730a1 (horn_if_then)

prompt_template=prompts/exp6_horn_yesno.j2 | parse_family=yes_no

Instruction excerpt:

Your task is to solve a problem in propositional logic containing both facts and if-then rules.

You will get a list of facts and if-then rules and have to determine whether a fact p_0 can be derived from this list.

If a fact p_0 can be derived, the last word of your answer should be 'yes', otherwise the last word should be 'no'.

Facts are represented as ' pN ' where N is a number.

All the statements are either facts or if-then rules allowing to derive a single fact.

All the given statements are implicitly connected with 'and': they are all claimed to be true.

...

Example (horn=1, low, maxvars=3, maxlen=3, satflag=1)

p1. p2. if p1 then p0. Answer: yes.

Example 2. Statements: p1. p2. if p1 then p9. Answer: no.

Example 3. Statements: p1. if p1 then p2. if p2 then p0. Answer: yes.

Example 4. Statements: p1. if p1 then p3. if p2 and p1 then p0. Answer: no.

Example 5. Statements: p1. if p1 then p2. if p2 then p3. if p3 then p0. Answer: yes.

Example 6. Statements: p1. if p1 then p2. if p2 then p1. if p3 then p0. Answer: no.

Example 7. Statements: p1. p3. if p1 then p2. if p2 and p3 then p4. if p4 then p0. Answer: yes.

Example 8. Statements: p1. if p1 then p2. if p2 and p3 then p4. if p4 then p0. Answer: no.

Example 9. Statements: p6. p3. if p3 then p1. if p3 then p1. if p4 and p5

...

no_thinking_tag (n=520)



anthropic/clause-3-5-haiku-20241022 — sat_accuracy — prompt_c6875730a1 (horn=1, low, maxvars=3, maxlen=3, satflag=1)

prompt_template=prompts/exp6_horn_yesno.j2 | parse_family=yes_no

Instruction excerpt:

Your task is to solve a problem in propositional logic containing both facts and if-then rules.

You will get a list of facts and if-then rules and have to determine whether a fact p_0 can be derived from this list.

If a fact p_0 can be derived, the last word of your answer should be 'yes', otherwise the last word should be 'no'.

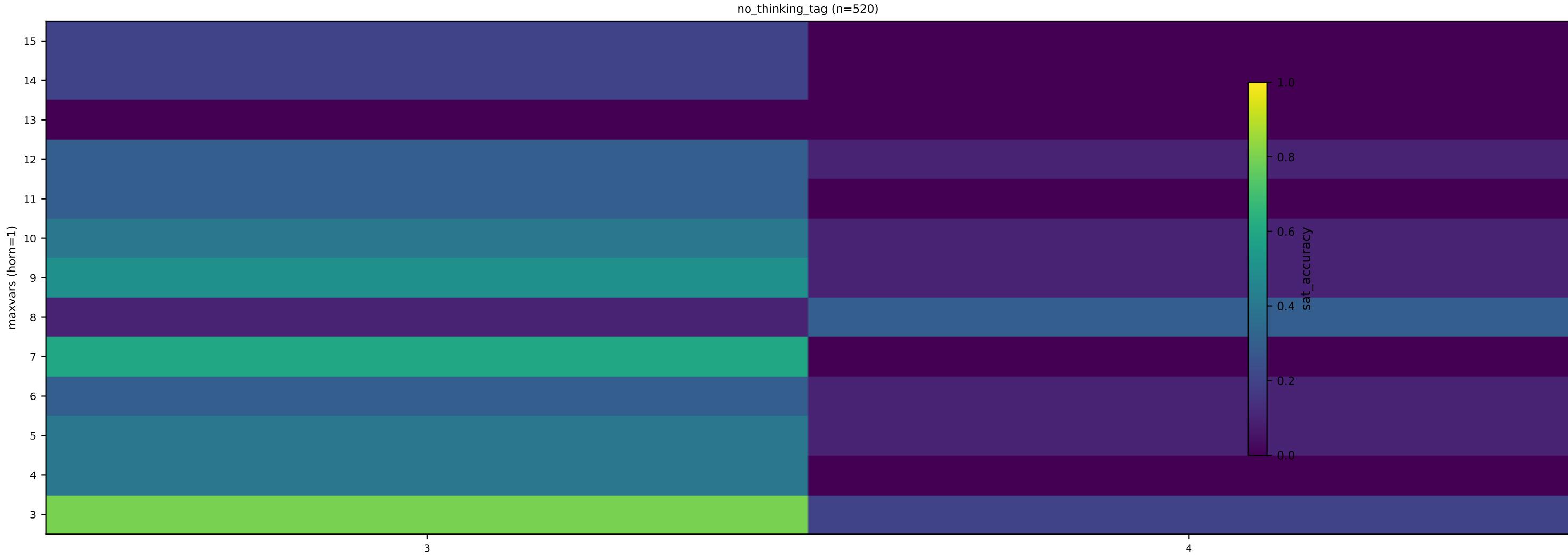
Facts are represented as 'pN' where N is a number.

All the statements are either facts or if-then rules allowing to derive a single fact.

All the given statements are implicitly connected with 'and': they are all claimed to be true.

...

Example 1. horn=1, low, maxvars=3, maxlen=3, satflag=1
p1. p2. if p_1 then p_0 . Answer: yes.
Example 2. Statements: p1. p2. if p_1 then p_0 . Answer: no.
Example 3. Statements: p1. if p_1 then p2. if p_2 then p_0 . Answer: yes.
Example 4. Statements: p1. if p_1 then p3. if p_2 and p_1 then p_0 . Answer: no.
Example 5. Statements: p1. if p_1 then p2. if p_2 then p3. if p_3 then p_0 .
Answer: yes.
Example 6. Statements: p1. if p_1 then p2. if p_2 then p1. if p_3 then p_0 .
Answer: no.
Example 7. Statements: p1. p3. if p_1 then p2. if p_2 and p_3 then p_4 . if p_4 then p_0 . Answer: yes.
Example 8. Statements: p1. if p_1 then p2. if p_2 and p_3 then p_4 . if p_4 then p_0 .
Answer: no.
Example 9. Statements: p6. p3. if p_3 then p1. if p_3 then p1. if p_4 and p_5
...
...



anthropic/clause-3-5-haiku-20241022 — unsat_accuracy — prompt_c6875730a1 (horn_ifthen=1, low, maxvars=3, maxlen=3, satflag=1)

prompt_template=prompts/exp6_horn_yesno.j2 | parse_family=yes_no

Instruction excerpt:

Your task is to solve a problem in propositional logic containing both facts and if-then rules.

You will get a list of facts and if-then rules and have to determine whether a fact p_0 can be derived from this list.

If a fact p_0 can be derived, the last word of your answer should be 'yes', otherwise the last word should be 'no'.

Facts are represented as ' pN ' where N is a number.

All the statements are either facts or if-then rules allowing to derive a single fact.

All the given statements are implicitly connected with 'and': they are all claimed to be true.

...

Example 1. Statements: p_1 . p_2 . if p_1 then p_0 . Answer: yes.
Example 2. Statements: p_1 . p_2 . if p_1 then p_0 . Answer: no.
Example 3. Statements: p_1 . if p_1 then p_2 . if p_2 then p_0 . Answer: yes.
Example 4. Statements: p_1 . if p_1 then p_3 . if p_2 and p_1 then p_0 . Answer: no.
Example 5. Statements: p_1 . if p_1 then p_2 . if p_2 then p_3 . if p_3 then p_0 . Answer: yes.
Example 6. Statements: p_1 . if p_1 then p_2 . if p_2 then p_1 . if p_3 then p_0 . Answer: no.
Example 7. Statements: p_1 . p_3 . if p_1 then p_2 . if p_2 and p_3 then p_4 . if p_4 then p_0 . Answer: yes.
Example 8. Statements: p_1 . if p_1 then p_2 . if p_2 and p_3 then p_4 . if p_4 then p_0 . Answer: no.
Example 9. Statements: p_6 . p_3 . if p_3 then p_1 . if p_3 then p_1 . if p_4 and p_5 ...

