

anthropic/claude-sonnet-4-20250514 — accuracy — prompt_c6875730a1 (horn_if_then) — prompt_template (horn=1, low, maxvars=3, maxlen=3, satflag=1)

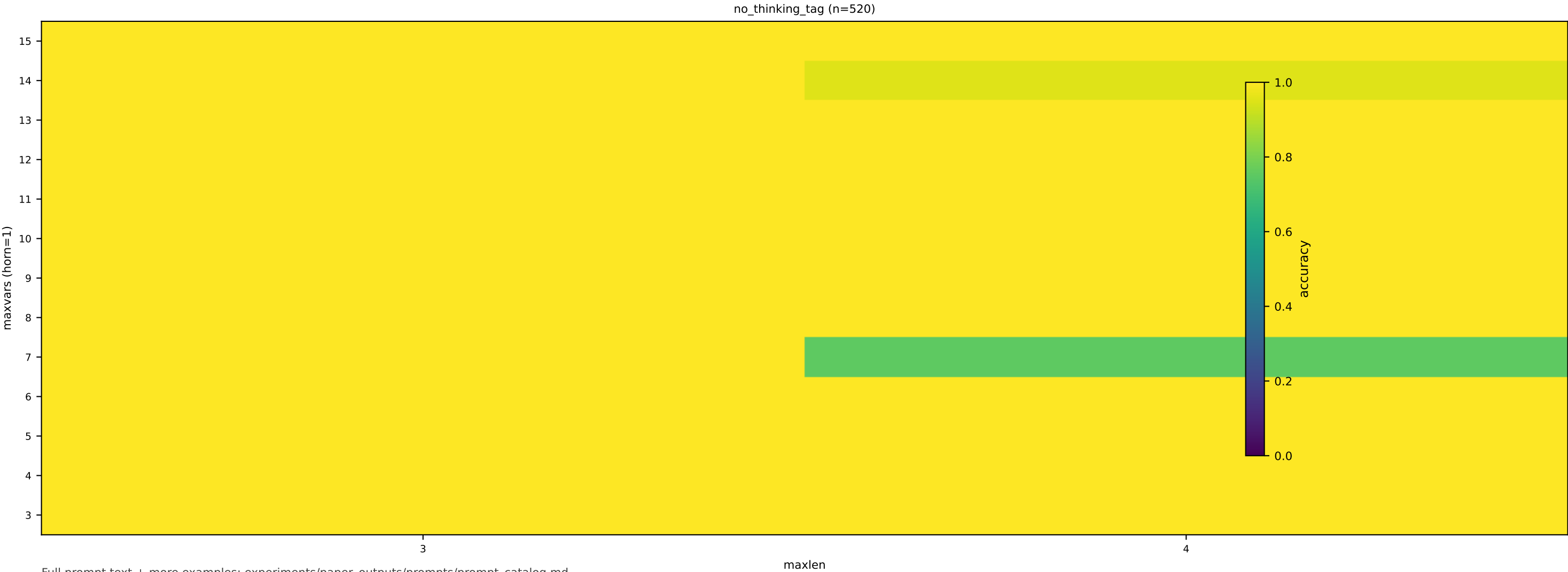
prompt_template=prompts/exp6_horn_yesno.j2 | parse_family=yes_no

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 p0 can be derived from this list.
If a fact p0 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.

...

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 ...



anthropic/claude-sonnet-4-20250514 — sat_accuracy — prompt_c6875730a1 (horn=1, low, maxvars=3, maxlen=3, satflag=1)

prompt_template=prompts/exp6_horn_yesno.j2 | parse_family=yes_no

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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.

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Example 1. Statements: p1. p2. if p1 then p0. Answer: yes.

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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

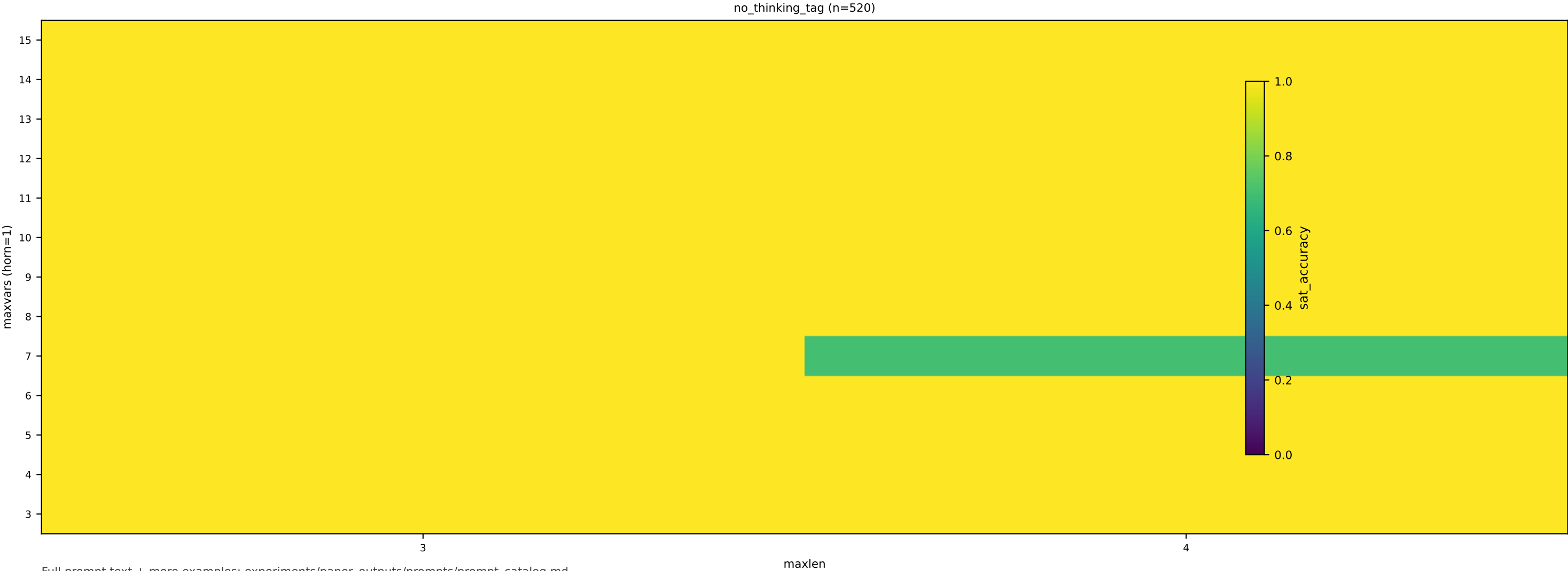
p0. Answer: yes.

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

...



anthropic/claude-sonnet-4-20250514 — unsat_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 p0 can be derived from this list. If a fact p0 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.

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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

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