JIA,
breakatwhitespace=false,
breaklines=true,
captionpos=b,
commentstyle=gray,
deletekeywords=...,
emphstyle=orange,
escapeinside=%\*\*),
extendedchars=true,
frame=none,
keepspaces=true,
keywordstyle=blue,
numbers=left,
numbers=left,
numbersep=5pt,
numberstyle=gray,
rulecolor=black,
showspaces=false,
showstringspaces=false,
showstringspaces=false,
stepnumber=2,
stringstyle=orange,
tabsize=2,
title=



$$\begin{array}{l} \stackrel{\cdot F}{F} \\ \stackrel{\cdot F}{S} F \approx SS \\ [\lor D) \sigma A \lor C \neg B \lor Dwhere A \sigma \mathcal{C} \sigma \neg B \sigma \mathcal{D} \sigma \sigma = (A, B) \end{array}$$

$$[](A\vee)\sigma(\neg B\vee)\sigma A\vee\neg\vee D$$

$$(A\lor) = A(\neg B\lor) = \neg B\sigma = (A, B)$$

 $[\{ \forall \neg (y), \neg (), ()\}[y \mapsto][x \mapsto] \neg (y)(x) \vee \neg (y) \neg ()()_0 \bot = \{(\bot) \vee \neg (\bot), \neg (), ()\} * satisfiable[x \mapsto]() \vee \neg (y)(x) \vee \neg (y)) \neg ()S_1 \bot \{(\bot) \vee \neg (\bot), \neg (), ()\} \}$ 

```
\ell_1((x,y)), \ell_2((x,())), \ell_3(((),))\ell_1 \mapsto ..*.*
\ell_2 \mapsto ..*.
\ell_3 \mapsto \dots
int32_t
yices_assert_formula(context_t
*ctx,
term_t
t);
\texttt{term}\_\texttt{t}
yices_or(uint32_t
n,
term_t
arg[]);
term_t
yices_not(term_t
arg);
\texttt{term}\_\texttt{t}
yices_eq(term_t
left,
term_t
right);
term_t
yices_application(term_t
fun,
uint32_t
n,
const
term_t
arg[]);
term_t
yices_new_uninterpreted_term(type_t
tau);
type_t
yices_function_type(uint32_t
n,
const
type_t
dom[],
type_t
range);
type_t
yices_bool_type(void);
type_t
yices_new_uninterpreted_type(void);
smt_status_t
yices_check_context(context_t
*ctx,
const
param_t
*params);
{\tt model\_t}
*yices_get_model(context_t
*ctx,
int32_t
keep_subst);
int32_t
yices_get_bool_value(model_t
*mdl,
```

term\_t
t,
int32\_t

```
\neg ((,)), (x,) = x}* unsatisfiable S \perp = \{(), \neg ((,)), (\perp,) = \perp\}* satisfiable
 \begin{array}{l} \bot \} * \\ satisfiable \\ \neq \\ y \lor \\ \neg () \lor \\ (y) * \\ , congruence \\ \neq \\ s \\ x \neq \\ y \lor \\ y = \\ xs \neq \\ t * \\ symmetry \\ x \neq \\ y \lor \\ y \neq \\ x \downarrow \\ x \neq \\ y \lor \\ y \neq \\ x \downarrow \\ x \neq \\ y \lor \\ (x_1, x_2) = (y_1, y_2)(s_1, s_2) \neq \\ (t_1, t_2) \\ x \neq \\ y \lor \\ \neg (x) \lor \\ (y)(s) \\ x \neq \\ x \neq \\ y \checkmark \\ \end{array} 
            (y)(s)
         x \neq y
       y \lor \neg (x) \lor (y) \neg (s) * 
congruence
Sym
me
try
re
flex-
in
    flexive ty fight for the first field of the first field of the field
```

$$\exists a_1 \overset{\circ}{\dots} a_m \forall y_1 \dots y_n \ F$$

$$F \neq x \lor (x), (y, )$$

$$flex \\ blson$$