Reference Manual

Creating Expressions

The syntax for creating logical expressions is very straightforward. Expressions are written by defining individual logical gates:

name = OP name name… - The name in the left side of the assignment is the variable name for the desired expression, it can be an input of a previously created logic gate but it cannot be a name given to a previously created one. The names on the left side of the assignment are the inputs of the gate. These can be existing expression, it is a list of names separated by spaces. The NOT operator can only receive one input at a time. OP is the name of the logic gate that will be used for the expression. Available gates are:

- *AND*
- *NAND*
- *OR*
- *NOR*
- *XOR*
- *XNOR*
- *NOT*

Expression Functions

Functions are operations you can do with a declared logical expressions. The functions available in Logically are:

DISPLAY name - displays the resulting logical expression with the given name.

DEL name - deletes the specified expression and all its sub expressions. If it's the input of another expression, it will be replaced with a simple input variable.

TABLE name - generates the truth table for the specified logical expression.

CKT name - draws the circuit diagram for a given expression. Supports logic circuits with 2 or 3 input variables.

VENN name - draws the venn diagram of a given logical expression. Can draw diagrams with 2 or 3 variables.

SIMPLIFY name - simplifies the specified expression to an equivalent using its minterms.

Other Functions

HELP - displays available functions and how to define expressions.

EXIT - closes Logically.