Logic Synthesis & Verification, Fall 2010
National Taiwan University

Programming Assignment 2

Due on 2010/12/01 before lecture

1   [Programming ABC]

Programming task:

Write a procedure in ABC environment to print the unate statistics of a given
circuit.

- Please help finish the SAT-based unate computation of command `print_unate`
  under option `-b`.
- The to-be-finished function call `Abc_NtkPrintUnateSat` is in `src/base/abci/abcUnate.c`.
- The output format should be similar to that of BDD-based computation
  (full info can be displayed by the verbose mode under option `-v`).

Programming help:

See `Abc_NtkDSat` for an example of SAT solver usage.

Items to turn in:

(1) Your new file `abcUnate.c`
(2) A screenshot of ABC running your new command "`print_unate -b -v`" on
    example `s444.blif`.