CHAPTER 4

DECOMPOSITION

- Re-order the inputs in the decomposition. Since timing is important and signals arrive at different times, our work has shown that re-ordering the inputs will have an affect on the hazard behavior of both the decomposed netlist and the covered netlist.

- Add inverter pairs. This process involves adding inverter pairs to every wire in the netlist. This optimization increases the options available to the matching/covering step and has been shown to be effective in [23, 14] and also in our own work.

There are several others optimizations that could prove helpful and these are listed in the future work section in Chapter 7.