

CME 2003 Logic Design

Experiment 4

Simplify the Boolean function below and implement with ICs.

$$F(w, x, y, z) = \sum (0, 1, 2, 4, 5, 6, 8, 9, 12, 13, 14)$$

Equipments:

- 74LS08 (and), 74LS32 (or) and 74LS14(not)
- Any other equipments necessary for the experiment.

Preliminary Work:

Draw truth table, Karnaugh map and logic diagram of the function.

Bring datasheets of the ICs you need in your design.

Come with your PreLab report.

The preliminary work and report are expected from each student individually.