





In this lab, we use it for error checking.











Run MODE 1 with all DIP switches at 0. Get parity bits from LEDs. Enter parity bits on the DIP switches and check the LEDs. They should read "00000000".

The Lab

- Introduce <u>an</u> error in the ROM schematic.
- Use <u>MODE 1</u> to detect the error and <u>MODE 0</u> to find its position.

Modes of Operation

- <u>Mode 1</u>
 - Shift 255 bits from the ROM.
 - Display the results on the 8 LEDs.
- <u>Mode 0</u>
 - Process the ROM output.
 - Stop when the LFSR pattern matches the DIP switches.
 - The position of the error, if one exists, is displayed.
- $\cdot\,$ Modes are controlled by the SPARE button.





- \cdot Read the handout.
- Read it again.
- Draw the schematics.
- Do the problems on the check-off sheet.