Multiplexers
Wilfrid Laurier University

Terry Sturtevant

Wilfrid Laurier University

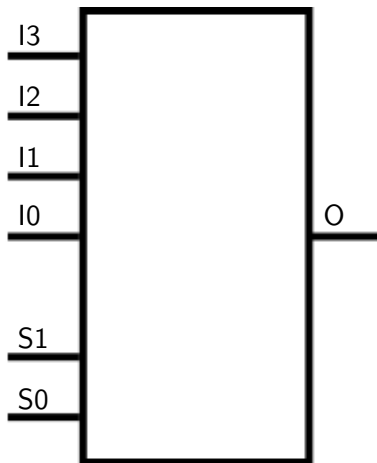February 1, 2012

Introduction

Introduction

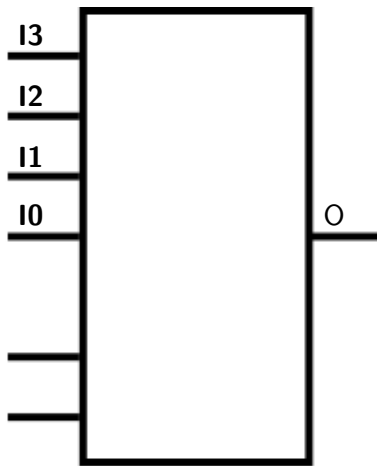- A multiplexer has several input lines, select inputs, and one or more outputs.

Introduction

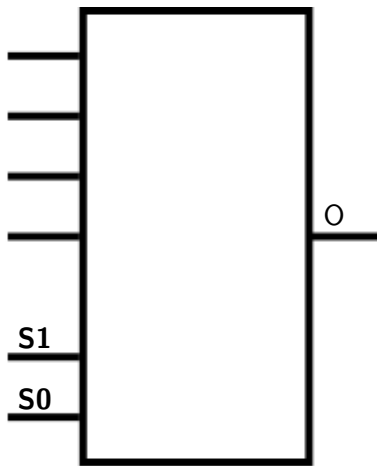- A multiplexer has several input lines, select inputs, and one or more outputs.

  The outputs follow whichever input is identified by the select inputs.
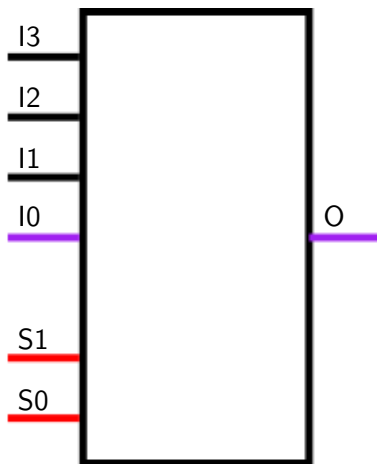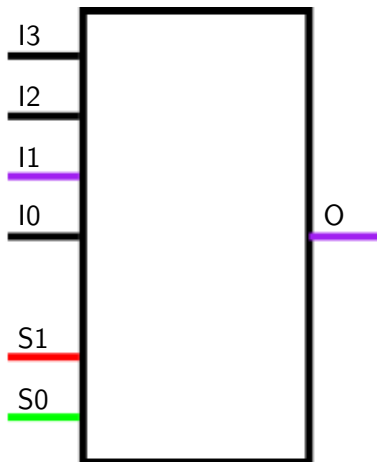
This is a 4 input multiplexer.
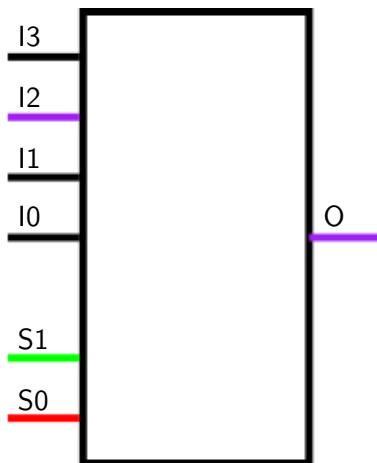
These are the inputs.
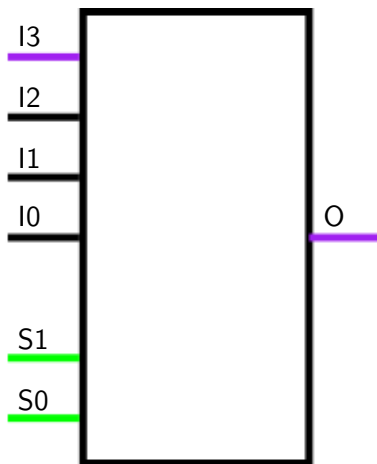
These are the *select* inputs.

When input 0 is selected, the output follows input I0.

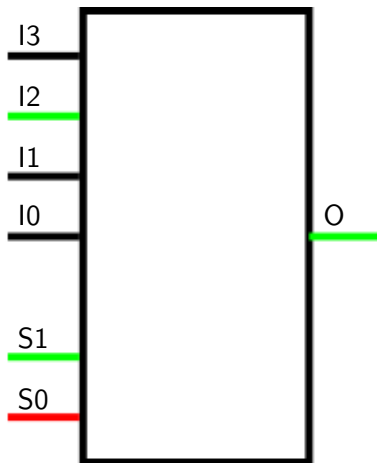When input 1 is selected, the output follows input I1.

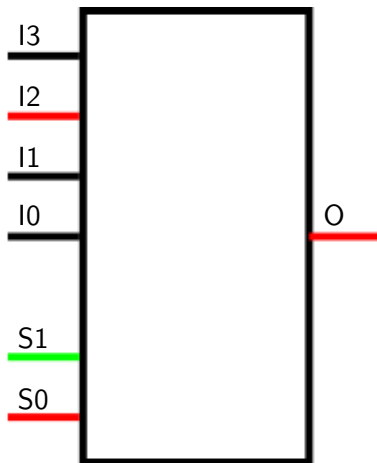When input 2 is selected, the output follows input I2.

When input 3 is selected, the output follows input I3.

Here's a closer look where a single input, I2, is selected.

When input 2 is selected, and input 2 is HIGH the output is HIGH.

When input 2 is selected, and input 2 is LOW the output is LOW.