A "Programmable" Multifunction Adder/Subtractor

Send OP to Ci to add 1 when calculating a difference!

LSb (Least Significant Bit)

4 Full Adders

MSb (Most Significant Bit)

One's Complementer

Notes on usage:

OP=0: \( S = A + B \) (sum)

OP=1: \( S = A - B \) (difference)

Uov=1: Unsigned overflow

Sov=1: Signed Overflow

Copyright (C) 2019, 2020 John Winans

This documentation describes Open Hardware and is licensed under the CERN OHL v. 1.2.

You may redistribute and modify this documentation under the terms of the CERN OHL v.1.2 (http://ohwr.org/cernohl). This documentation is distributed without any express or implied warranty, including of merchantability, satisfaction quality and fitness for a particular purpose. Please see the CERN OHL v.1.2 for applicable conditions.

If you choose to manufacture products based on this design, please notify me (see license section 4.2) via jwinans@niu.edu.