Carry Select Adder (1A)

-
-

Please send corrections (or suggestions) to youngwlim@hotmail.com.

This document was produced by using OpenOffice and Octave.

Angle

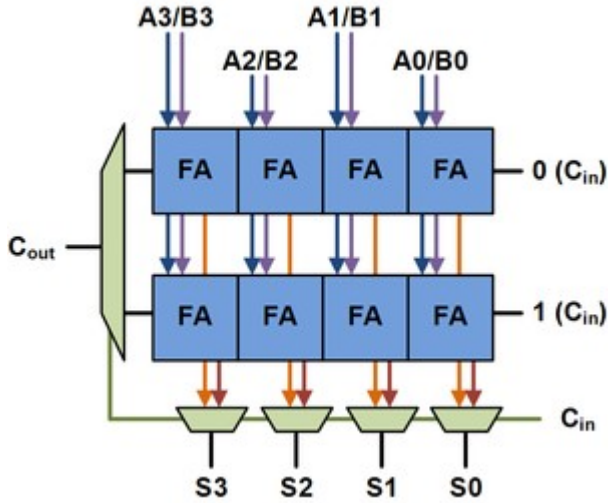
The carry-select adder generally consists of
two ripple carry adder and a multiplexer.

Adding two n-bit numbers with a carry-select adder
is done with two adders (therefore two ripple carry adders),

in order to perform the calculation twice,
one time with the assumption of the carry-in being zero
and the other assuming it will be one.

After the two results are calculated, the correct sum,
as well as the correct carry-out, is then selected with the
multiplexer once the correct carry-in is known.

Carry Select Adder



https://en.wikipedia.org/wiki/Carry-select_adder

References

[1] http://en.wikipedia.org/
[2] J-P Deschamps,et. al., “Sunthesis of Arithmetic Circuits”, 2006