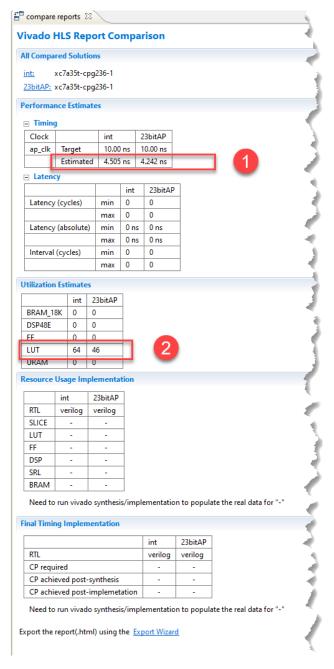
Integer Arithmetic-Overloading: Quiz Solution

www.highlevel-synthesis.com

This file is a resource of the Udemy course: Digital System Design with High-Level Synthesis for FPGA: Combinational Circuits https://www.udemy.com/course/his-combinational-circuits/?referralCode=8D449A491B9F4582DDEF

The main differences between the synthesis reports of two design are highlighted in the following figure.



- 1) The design with 23-bit arbitrary-precision data type is faster as its propagation delay is lower than the other implementation.
- 2) The design with 23-bit arbitrary-precision data type utilises less resources, here LUTs.