

**PCB #2: ALU Design in Layout and Simulation in PSpice (100 points)**

**COVER SHEET**

Honor Code: \_\_\_I have neither given or received, nor have I tolerated others' \_\_\_  
\_\_\_\_\_use of unauthorized aid.\_\_\_\_\_

Name: \_\_\_Joe Leveille\_\_\_ Signature: \_\_\_\_\_*Joseph Leveille*\_\_\_\_\_

Honor Code: \_\_\_I have neither given or received, nor have I tolerated others' \_\_\_  
\_\_\_\_\_I have neither given or received, nor have I tolerated others' \_\_\_\_\_

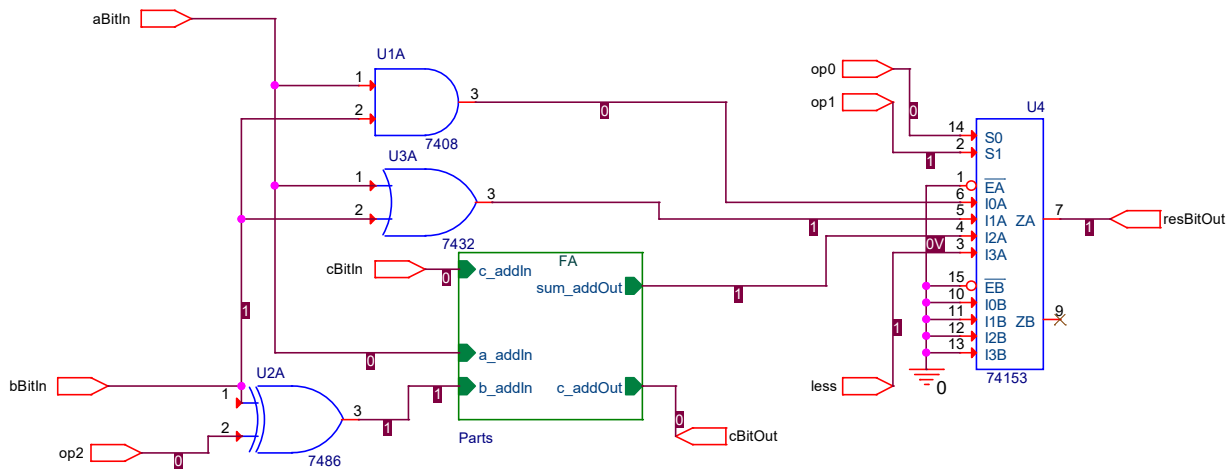
Name: \_\_\_Jon Bayert\_\_\_ Signature: \_\_\_\_\_*Jonathan Bayert*\_\_\_\_\_

**A complete assignment will contain:**

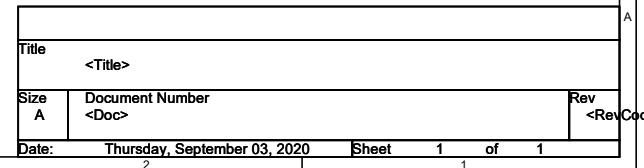
- 1) The schematic for both (standard and MSB) bit slices and the ALU
- 2) PSpice output waveforms for the four 8-bit inputs. Make 4 pages, one for each input combination, each page containing the 5 operations. Show the result, carry, overflow, and zero flag results.

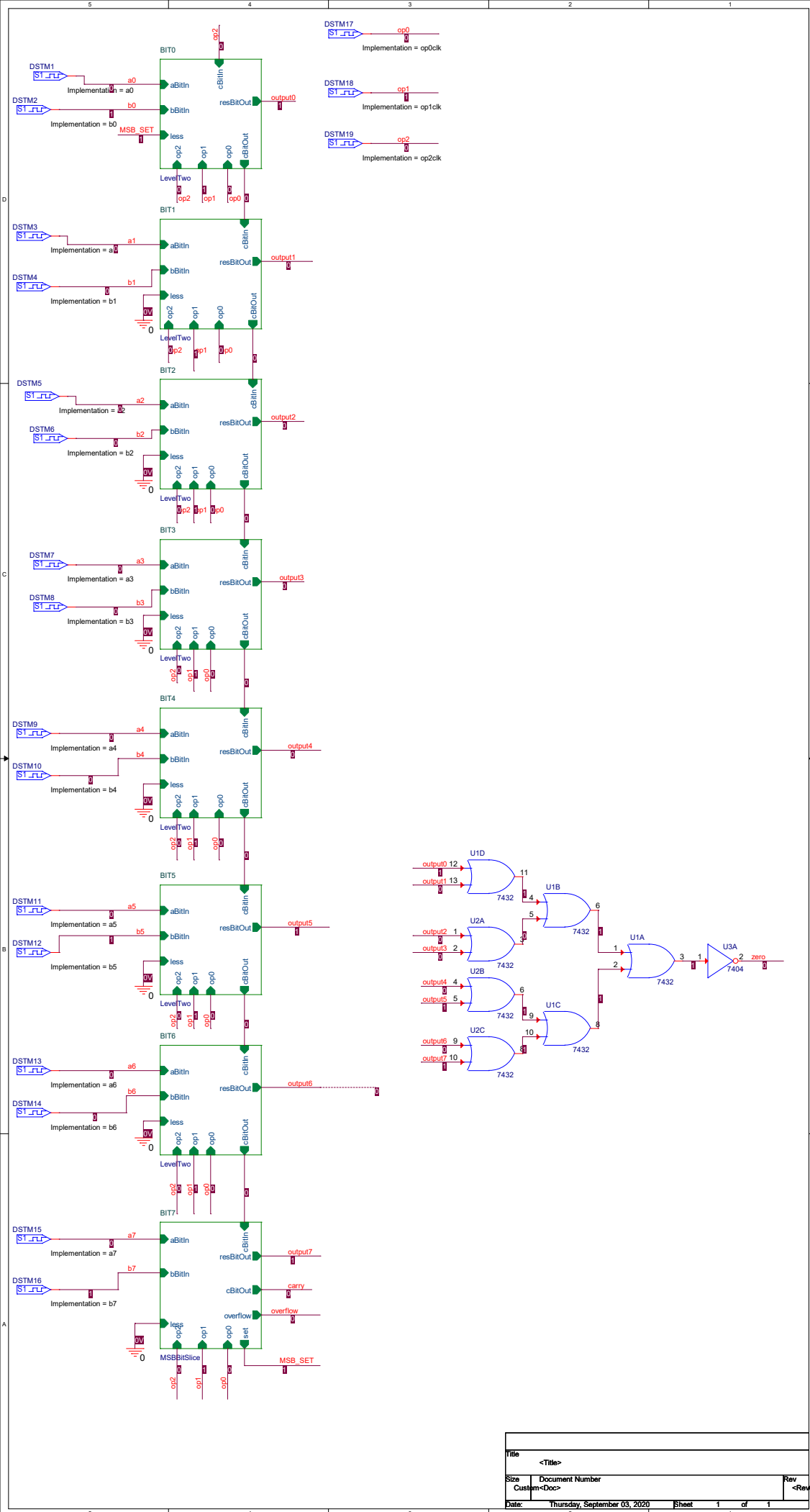
**Label each of these at the top of the 1st page of each part.**

**Have your outputs (not necessarily inputs) in HEX form... combine outputs into busses. Do not add busses in OrCad Capture, just in the Pspice simulation window. Use "Add Trace" and put your signals in braces for a bus: { r7 r6 r5 ... }.**



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Size	Document Number	Rev
A	<Doc>	<RevCod>
Date:	Thursday, September 03, 2020	Sheet 1 of 1





DSTM17  
Implementation = op0clk

DSTM18  
Implementation = op1clk

DSTM19  
Implementation = op2clk

