Name Derck Hernandez Assignment 2 CS 3339 - Spring 20		
net	ID ()h a Due: Friday, 2/15/19 @ 11:55pm	
TRAC	(email not long Axxxxx number) 40 points (late until noon 2/16 -10 points) (bmissions must be written in very neat handwriting and scanned (or typed) and submitted in PDF format to its with the filename of Ax_netID.pdf. You may submit as many times as you like prior to the deadline; only nost recent submittal will be graded. All assignments must be submitted individually and reflect your own it; however, I encourage you to work in groups and discuss the problems with your classmates.	
Fill i	the blank – 1 point each for each blank.	
100	Every Texas State student has access to an enterprise instance of github as described here: https://cs.txstate.edu/resources/labs/accounts/ The server is https://git, txState.edu/	
	In digital computers transistors are used as electronic $\frac{Switches}{Switches}$. Before the invention of transistors and integrated circuits other devices used include electromechanical $\frac{releys}{Switches}$ are vacuum $\frac{106es}{Switches}$.	ıd
	For your summer internship you have been tasked to improve the performance of an existing program. You realize that there is a section of code for which a newer math library that is twice as fast is available. You work diligently to incorporate the new library and are planning to wow your bosses. After spending days adapting the code for the new library the program only performs slightly faster. Turns out that the math portion was a small fraction of the original execution time. You have run straight into	
4)	Even though they are available in MIPS assembly, there is no mov (move from one register to another) or b. (branch less than) operation implemented in "bare metal". For this reason they are known as PScudo in Struction.	lt
	Write the proper prefix for the following e.g 1 x 10-3 seconds = 1 millisecond 1×10^{-9} seconds = 1 $\cancel{\text{Nono}}$ second 1×10^{-12} seconds = 1 $\cancel{\text{Pico}}$ second	
6)	A clock cycle time of 500 x 10 ⁻¹² seconds corresponds to a clock frequency of 2.0 GHz Soo FIW Soo	

	7) [4 points] What is the primary advantage of the RISC architecture over the CISC architecture?
	Risc has far temer Instructions verso CISC its also faster because
	Of the fewer instructions.
	What is the primary advantage that CISC continues to have over RISC?
	The flexability of the code, CISC Regumes more
	Loule 1 Which can avikly be edited/alterer 1 WithOut affecting
	The enflie System 8) [4 points] If you reduced the number of registers from 32 to 16 in the MIPS processor what would be the
	new maximum signed value you could use as an immediate? Express your number in decimal and explain
. 4	how you determined your answer. * ASSUMED bit length is not Changed
	25=32 24:16 1 NO 1 0= 1 0+ 1 [mm]
	2=32 21:16 66:15 46:15 46:15 46:15 421-1=131071
	421-1=[1310]
	9) [4 points] What will be the output of the following code snippet?
	<pre>uint32_t input = 0xfffce0af;</pre>
	- $+$ $+$ $+$ $+$ $+$ $+$ $+$ $+$ $+$ $+$
	<pre>int32_t u_field; int32_t s_field; int32_t s_field; int32_t s_field; int32_t s_field; int32_t s_field; input >> 4) & 0xff; u_field = (input >> 4) & 0xff; cout << hex << setw(8) << u_field << "hex is decimal " << dec << s_field << endl;</pre>
	cout << hex << setw(8) << u_fletd no.</th
	cout << hex << setw(8) cout << hex << setw(8); s_field = ((signed))input >> 16); cout << hex << setw(8) << s_field << "hex is decimal " << dec << s field << endl; cout << hex << setw(8) << s_field << "hex is decimal " << dec << s_field << endl; cout << hex << setw(8) << s_field << "hex is decimal " << dec << s_field << endl; cout << hex << setw(8) << s_field << "hex is decimal " << dec << s_field << endl; cout << hex is decimal " << dec << s_field << endl; cout << hex is decimal " << dec << s_field << endl; cout << en
	s_field = ((signed)) input > 10, 10, 10, 10, 10, 10, 10, 10, 10, 10,
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hift	1111 1111 1100 1110 0000 1000
	Mot tttc = 00000004
EA.	VIII + CCM
\. \.	10) [4 points] For project 2 you are provided with a C++ class file ALU.cpp/.h which uses the enum function. 10) [4 points] For project 2 you are provided with a C++ class file ALU.cpp/.h which uses the enum function.
-41/Ell	[4 points] For project 2 you are provided with a C++ class file ALO.Opp, [4 points] For project 2 you are provided with a C++ class file ALO.Opp, [4 points] For project 2 you are provided with a C++ class file ALO.Opp, [4 points] For project 2 you are provided with a C++ class file ALO.Opp, [4 points] For project 2 you are provided with a C++ class file ALO.Opp, [5 points] For project 2 you are provided with a C++ class file ALO.Opp, [6 points] For project 2 you are provided with a C++ class file ALO.Opp, [6 points] For project 2 you are provided with a C++ class file ALO.Opp, [7 points] For project 2 you are provided with a C++ class file ALO.Opp, [7 points] For project 2 you are provided with a C++ class file ALO.Opp, [8 points] For project 2 you are provided with a C++ class file ALO.Opp, [9 points] For project 2 you are provided with a C++ class file ALO.Opp, [9 points] For project 2 you are provided with a C++ class file ALO.Opp, [9 points] For project 2 you are provided with a C++ class file ALO.Opp, [9 points] For project 2 you are provided with a C++ class file ALO.Opp, [9 points] For project 2 you are provided with a C++ class file ALO.Opp, [9 points] For project 2 you are provided with a C++ class file ALO.Opp, [9 points] For project 2 you are provided with a C++ class file ALO.Opp, [9 points] For project 2 you are provided with a C++ class file ALO.Opp, [9 points] For project 2 you are provided with a C++ class file ALO.Opp, [9 points] For project 2 you are provided with a C++ class file ALO.Opp, [9 points] For project 2 you are provided with a C++ class file ALO.Opp, [9 points] For project 2 you are provided with a C++ class file ALO.Opp, [9 points] For project 2 you are provided with a C++ class file ALO.Opp, [9 points] For project 2 you are provided with a C++ class file ALO.Opp, [9 points] For project 2 you are provided with a C++ class file ALO.Opp, [9 points] For pro
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	Chum MLO-11 1001 / SHE L/2 SHER/3, CMPLt/4, MU1/5, 10.0763 17HD
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	they go from 0 to n.

