Score:	Name:			-	
	ECE 305	55 Quiz - Octol	per 20, 2	2011	
1. Why would you a single	expect that even a very entry 15 f	small TLB will ha	ve a high	hit rate? Hemory	
location				/	
virtual byte address virtual addresses sl physical address go entry in each line.	ne 2-way set associative ses, 36-bit physical me hown below in hex, sta- enerated. The TLB is in A LRU replacement po to the final contents of the	emory byte address te whether each ac uitially empty after olicy is used. A p	ses, and dress ca power operation of the second sec	4K byte pages. It uses a TLB hit or and the set on the first the page table of	For the sequence of r miss and show the the left gets the first entries and TLB are
Virtual address se	quence				
Virtual Address	Hit/Miss	Physica	al Addres	<u>:S</u>	
00000303E2	_M_	OFF	FF	33EZ	
00000311E3	M	o 0 o	Doo	1E 3	
0000030012	14	CFF	FF O	012	
0000000171	$\overline{\Lambda}$		000	171	
02000300E1	M	000	CEC	DOE	
0000030153	W	OFF		153	
TLB Final Conten	nts	<u> </u>			
Line: Set #1 Valid		Data Set ‡	2 Valid	Tag	Data
0	1 020003	OOREO	1	000003	OFFFO
1	00003	ODODOO			
2			_		
3			_		
Page Table Initial	Contents				
Virtual Page #		Data			
0000000 0000001 0000002 0000003		0F0000 030000 0B0000 0F2000			
0000030 0000031	•••	0FFFF0 0D0D00			
0100000 0100030 0100000 0100300 0100310	•••	0B2000 0D0000 0E0000 065000 060000			

00ACE0

0200030