Name: COSC 6360		:	(First name first)	
		6360 Quiz #2		March 1, 2010
		Closed book. You can have with you one	single-sided 8½ by 11 sheet o	f notes.
1.	Giv	one example of:		
	a)	an external pager in the Mach operating system:	(10 points)	
		_the file system		
	b)	a <i>memory object</i> managed by that external pager:	: (10 points)	
		_a file		
2.	tab	sider a 64-bit system using a clustered page table. a uses (a) <i>partial subblocking</i> with a subblocking <i>e</i> sublocking factor? (2×10 points)		
	Ра	e table entries will occupy <u>3×8=24</u> bytes i	f the page table uses partial s	subblocking and
		4x8=32 bytes if it uses complete subblockin	ıg.	
3.	Int	e ARC cache replacement policy, which events res	sult in an update of target_T1?	(2×10 points)
	a)	Target_T1 will increase _when a page fault is ca	used by a page that happens t	o be in B1
	b)	<b>Target_T1 will decrease when</b> <u>when a page fau</u>	It is caused by a page that ha	ppens to be in B2
4.		in is said to use an <b>eager release policy</b> . Why?( <b>ase policy</b> ?(10 points)	10 points) What would be the	corresponding <b>lazy</b>
	An eager release policy distributes all updates as soon as they are released. A lazy policy does not forward the same updates until some other process requests them.			zy policy does not
5.	When should we use the Munin write-shared protocol? (10 points) Why? (10 points)			)
	W	should use the Munin write shared protocol whe	never two or more processes (	access distinct

We should use the Munin write shared protocol whenever two or more processes access distinct variables that reside in the same page and none of these variables are accessed by more than one process. This situation is known as <u>false sharing</u> and results in many unnecessary data transfers among the processes, creating the so-called "ping-pong effect." The Munin write shared protocol avoids these transfers.