

# Block-Capture State Diagram (Non-Isolated Case)

11/20/01

		Block							
		Not Assigned to Atom				Assigned to Atom			
		Write	Read-Modify-Write	Read-Atomic	Read-Non-Committed	Read-Non-Committed	Read-Atomic	Read-Modify-Write	Write
Transcrash	Not Assigned to Atom	Transcrash and block are assigned to a newly created atom		Transcrash reads a Committed block		Transcrash reads a Non-Committed block	Transcrash is assigned to the block atom		
	Assigned to Atom	Block is assigned to the transcrash atom					<b>IF:</b> <i>Transcrash and block are assigned to different atoms:</i> The two atoms are fused together and the spheres of influence are combined  <i>Transcrash and block are assigned to the same atom:</i> They are already in the same sphere of influence		