



















































Handling shared resources Priority Ceiling Protocol: (Sha, Rajkumar & Lehoczky, 1990) Basic idea: Each resource is assigned a priority ceiling equal to the priority of the highest-priority task that can lock it. Then, a task τ, is allowed to enter a critical region only if its priority is higher than all priority ceilings of the resources currently locked by tasks other than τ. When the task τ, blocks one or more higher-priority tasks, it temporarily inherits the highest priority of the blocked tasks. Advantage: No deadlock: priority ceilings prevent deadlocks No chained blocking: a task can be blocked at most the duration of one critical region.











