



Department of Computer
Science

UNIVERSITY OF COLORADO BOULDER



Design and Analysis of Operating Systems CSCI 3753

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These slides adapted from materials provided by the textbook authors.



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Example Deadlock Detection Problems

Banker's Algorithm

	Allocation			Still needs			Max			Avail		
Process	R1	R2	R3	R1	R2	R3	R1	R2	R3	R1	R2	R3
p0	1	2	3				7	5	4	4	2	1
p1	2	1	2				7	1	2			
p2	0	1	0				3	3	2			
p3	0	0	1				1	0	1			

What are the resources available at each step in the order of execution?

step	P #	R1	R2	R3
0	-	4	2	1

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