







Logical E	xecution Trace		
5000	8000	12000	
5000	8000	12000	
5002	8002	12002	
5003	8002	12002	
5004	8005	12003	
5005		12005	
5005		12005	
5007		12007	
5008		12008	
5009		12009	
5010		12010	
5011		12011	
(a) Trace of Process A	(b) Trace of Process B	(c) Trace of Process C	
5000 = Starting address of p 8000 = Starting address of p 12000 = Starting address of	orogram of Process B		
Figure 3	.2 Traces of Processes of	Figure 3.1	

- "Owner" of resources allocated for program execution
- Encompasses one or more threads
  - · list the sequence of instructions that execute

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Relation T	Anton was derived
Medel	Characteristics
Throads	Parallolism, blocking system calls
Single-threaded process _ Finite-state machine	No paralle'ism, blocking system calls Parallo'ism, nonblocking system calls, interrup





















































	OS/161 mips_switch							
,	/* Get the new stack pointer from the new pcb */							
,	lw	sp, 0(a1)						
	nop		delay slot for load */					
	-		-					
/	* Now,	restore the reg	jisters */					
	lw	s0, 0(sp)						
	lw	s1, 4(sp)						
	lw	s2, 8(sp)						
	lw	s3, 12(sp)						
	lw	s4, 16(sp)						
	lw	s5, 20(sp)						
	lw	s6, 24(sp)						
	lw	s7, 28(sp)						
	lw	s8, 32(sp)						
	lw	gp, 36 (sp)						
	lw	ra, 40(sp)						
	nop		/* delay slot for load */					
	/* a:	d return. */						
	j ra							
	addi	sp, sp, 44	/* in delay slot */					
	.end	mips_switch						
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