























































			ļ	\ = I	3 + (С			
lw rb,b	IF	ID	EX	MEM	WB				
lw rc, c		IF	ID	EX	MEM	WB			
add ra,rb,rc			IF	ID	Cale	EX	MEM	WB	
sw a, ra				IF	Cale	ID	EX	MEM	WB
								DAP Spr	.'98 ©UCB 29



















Pipeline speed	up =	1 + Bra	Pipeline onch frequency	depth ×Branch penalty
			and frequency	A Drailen penaity
Scheduling E scheme p	Branch enalty	CPI	speedup v. unpipelined	speedup v. stall
Stall pipeline	3	1.42	3.5	1.0
Predict taken	1	1.14	4.4	1.26
Predict not taker	า 1	1.09	4.5	1.29
Delayed branch	0.5	1.07	4.6	1.31
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