

state	opcode_out	equal_out	next_state	pc_write	pc_drive	plus1_drive	op1_write	op2_write	add_drive	opcode_write	addr0_write	addr0_drive	addr1_write	addr1_drive	addr2_write	addr2_drive	address_write	mem_write	mem_drive
be1			be2											1			1		
be2			be3				1												1
be3			be4													1	1		
be4			be5					1											1
be5		0	fetch1																
be5		1	be6																
be6			fetch1	1								1							