

ECE 411 MP3 Control Signals

ADDERMUX

0	ADJ9	0	SR2
1	ADJ11	1	DEST

STOREMUX

ALUMUX

000	SR2	000	SR2
001	SEXT6	001	PC_ADDER_OUT
010	ADJ6	010	MEM/WB_DMEM_OUT
011	SEXT5	011	PC+2
100	SEXT4	100	ALU_OUT

PCMUX

LDBMUX

0	MEM_RDATA[15:8]	00	DMEM_OUT
1	MEM_RDATA[7:0]	01	TRAP_VECTOR8
		10	ALU_OUT

DATAMUX

REGFILEMUX

000	LDBMUX_OUT	0	SR2
001	MEM_RDATA	1	SR2[7:0]
010	PC_ADDER_OUT		
011	PC		
100	ALU_OUT		

WDATAMUX

