	alu_ctrl	mult_sel	mult_en	jump_reg
ADD	010	01	0	0
SUB	110	01	0	0
JAL	000	00	0	0
AND	000	01	0	0
OR	001	01	0	0
SUB	010	01	0	0
SLT	110	01	0	0
MULTU	111	01	1	0
MFHI	000	11	0	0
MFLO	000	10	0	0
JR	000	01	0	1

	branch	jump	reg_dst	we_reg	alu_src	we_dm	dm2reg	alu_op
R-type	0	0	01	1	0	0	0	11
ADDI	0	0	00	1	1	0	0	00
BEQ	1	0	00	0	0	0	0	01
J	0	1	00	0	0	0	0	00
SW	0	0	00	0	1	1	0	00
LW	0	0	00	1	1	0	1	00
JAL	0	1	10	1	0	0	0	10