	op	fun c_p os	func	sub _fu nc_ pos	sub _fu nc		imm_e xtend	d_a ddr	ddr _1_	d_e	rea d_e n_1 _bu ff	alu_op	operand_0	operand_1	wri te_ en	wri te_ add r	mem _en	mem _wr ite _en	write_mem _data	t_w rit e_e n		hi_ wri te_ en		BRANCH_EN	BRANCH_PC		cp0_rea d_addr	
NOP	00001							rx	ry	1	1	X	X	X	0	X	0	X	X	0	0	X	X	0	X	0	X	0
В	00010					10:0	sign	rx	ry	0	0	X	X	Х	0	X	0	X	X	0	0	X	X	1	b_pc	0	X	0
BEQZ	00100					7:0	sign	rx	ry	1	0	X	X	Х	0	X	0	X	X	0	0	X	X	reg_0_eq_0	cb_pc	0	X	0
BNEZ	00101					7:0	sign	rx	ry	1	0	X	X	Х	0	X	0	X	X	0	0	X	X	not reg_0_eq_0	cb_pc	0	X	0
SLL	00110	1:0	00			4:2	shift	rx	ry	0	1	alu_sll	READ_DATA_1	shamt_buff	1	rx	0	X	X	0	0	X	X	0	X	0	X	0
SRA	00110	1:0	11			4:2	shift	rx	ry	0	1	alu_sra	READ_DATA_1	shamt_buff	1	rx	0	X	X	0	0	X	X	0	X	0	X	0
ADDIU3	01000					3:0	sign	rx	ry	1	0	alu_addu	READ_DATA_0	imm4se	1	ry	0	X	X	0	0	X	X	0	X	0	X	0
ADDIU	01001					7:0	sign	rx	ry	1	0	alu_addu	READ_DATA_0	imm8se	1	rx	0	X	X	0	0	X	X	0	X	0	X	0
ADDSP	01100	10:8	011			7:0	sign	rx	ry	0	0	alu_addu	SP	imm8se	0	X	0	X	X	0	1	X	X	0	X	0	X	0
BTEQZ	01100	10:8	000			7:0	sign	rx	ry	0	0	X	X	X	0	X	0	X	X	0	0	X	X	not T	cb_pc	0	X	0
MTSP	01100	10:8	100					rx	ry	0	1	alu_or	READ_DATA_1	zero_word	0	X	0	X	X	0	1	X	X	0	X	0	X	0
LI	01101					7:0	zero	rx	ry	0	0	alu_or	zero_word	imm8ze	1	rx	0	X	X	0	0	X	X	0	X	0	X	0
CMPI	01110					7:0	sign	rx	ry	1	0	alu_cmp	READ_DATA_0	imm8se	1	X	0	X	X	0	0	X	X	0	X	0	X	0
MOVE	01111							rx	ry	0	1	alu_or	READ_DATA_1	zero_word	1	rx	0	X	X	0	0	X	X	0	X	0	X	0
LW_SP	10010					7:0	sign	rx	ry	0	0	alu_addu	SP	imm8se	1	rx	1	0	X	0	0	X	X	0	X	1	X	0
LW	10011					4:0	sign	rx	ry	1	0	alu_addu	READ_DATA_0	imm5se	1	ry	1	0	X	0	0	X	X	0	Х	1	X	0
SW_SP	11010					7:0	sign	rx	ry	1	0	alu_addu	SP	imm8se	0	X	1	1	READ_DATA_0	0	0	X	X	0	Х	0	X	0
SW	11011					4:0	sign	rx	ry	1	1	alu_addu	READ_DATA_0	imm5se	0	X	1	1	READ_DATA_1	0	0	X	X	0	Х	0	X	0
ADDU	11100	1:0	01					rx	ry	1	1	alu_addu	READ_DATA_0	READ_DATA_1	1	rz	0	X	X	0	0	X	X	0	X	0	X	0
SUBU	11100	1:0	11					rx	ry	1	1	alu_subu	READ_DATA_0	READ_DATA_1	1	rz	0	X	X	0	0	X	X	0	X	0	X	0
AND	11101	4:0	01100					rx	ry	1	1	alu_and	READ_DATA_0	READ_DATA_1	1	rx	0	X	X	0	0	X	X	0	X	0	X	0
OR	11101	4:0	01101					rx	ry	1	1	alu_or	READ_DATA_0	READ_DATA_1	1	rx	0	X	X	0	0	X	X	0	X	0	X	0
NOT	11101	4:0	01111					rx	ry	0	1	alu_nor	READ_DATA_1	zero_word	1	rx	0	X	X	0	0	X	X	0	X	0	X	0
CMP	11101		01010					rx	ry	1	1	alu_cmp	READ_DATA_0	READ_DATA_1	0	X	0	X	X	1	0	X	X	0	X	0	X	0
	11101							rx	ry	1	0	X	X	X	0	X	0	X	X	0	0	X	X	1	READ_DATA_0	0	X	0
	11101			7:5	010			rx	ry	0	0	alu_or	PC	zero_word	1	rx	0	X	X	0	0	X	X	0	X	0	X	0
SLLV	11101	4:0	00100					rx	ry	1	1	alu_sll	READ_DATA_1	READ_DATA_0	1	ry	0	X	X	0	0	X	X	0	X	0	X	0
	11101							rx	ry	1	1	alu_sra	READ_DATA_1	READ_DATA_0	1	ry	0	X	X	0	0	X	X	0	X	0	X	0
MTIH	11110	4:0	00001					rx	ry	1	1	X	X	Х	0	X	0	X	X	0	0	X	X	0	X	0	0	0
	11110							rx	ry	1	1	X	X	Х	0	X	0	X	X	0	0	X	X	0	X	0	0	1
	11110	_						rx	ry	1	0	X	X	X	0	X	0	X	X	0	0	X	X	0	X	0	imm 7:5	1
MTCO	11110	4:0	00001					rx	ry	1	0	X	X	X	0	X	0	X	X	0	0	X	X	0	X	0	imm 7:5	0