Integer arithmetic					
mnemonic	description	operands	notes		
add	add 32 bit integers	dreg <= reg1, reg2			
addi]	dreg <= reg, imm	7		
addiu					
addu		dreg <= reg1, reg2			
mulhi	multiply 32 bit integers	dreg <= intermediate	Upper 32 bits of a 64 bit result		
muli		dreg <= reg, imm			
muls					
mulu					
mulus					
muls_16	multiply 16 bit integers	1			
mulu_16	_	dreg <= reg1, reg2			
mulus_16					
sub	subtract 32 bit integers				
subu					
Byte and bitfield manipulation					
mnemonic	description	operands	notes		
exb	extract byte from word	dreg <= reg, imm			
exbf	extract bitfield from word	dreg <= reg1, reg2			
exbfi		dreg <= reg, imm	32 bit version only Not allowed to be executed conditionally		
exh	extract halfword from word				
lli	Load lower/upper halfword	dreg <= imm	32 bit version only		
lui	with immediate value	dreg <= reg, imm	Not allowed to be executed conditionally		
sext	Sign extend an integer	dreg <= reg1, reg2			
sexti		dreg <= reg, imm			
conb	Concatenate	dreg <= reg1, reg2			
conh	bytes/halfwords	T * 4 *			
Boolean bitwise operations					
mnemonic	description	operands	notes		
and	bitwise and	dreg <= reg1, reg2	-		
andi	bitwise not	dreg <= reg, imm	-		
not	bitwise or	dreg <= reg dreg <= reg1, reg2	-		
or ori	of twise of	dreg <= reg, imm	1		
xor	bitwise xor	dreg <= reg1, reg2	1		
AUI					
		inal jumps (branch	1		
mnemonic	description Branch if condition is true.	operands	notes Pro evaluated flags from one of		
bc	Dianch if condition is true.	pc <= pc, imm	Pre-evaluated flags from one of the eight condition registers are		
begt belt	1		used to evaluate condition.		
beq	-		asset to evaluate condition.		
bgt	-				
blt	1				
bnc	1				
bne	†				
	ı	Other jumps	1		
mnemonic	description	operands	notes		
jal	jump and save link address	pc <= pc, imm	Not allowed to be executed		
Jan	Jump and save mix address	dreg <= pc + increment	conditionally.		
jalr	1	pc <= reg			
J		dreg <= pc + increment			
-	1.		Not allowed to be executed		
jmp	jump	pc <= pc, imm	conditionally		
jmp jmpr	Jump	pc <= pc, min			

	In	teger comparison	
mnemonic	description	operands	notes
cmp	Compare and evaluate	creg <= reg1, reg2	Not allowed to be executed
cmpi	condition flags.	creg <= reg, imm	conditionally.
-	U	Shifts	
mnemonic	description	operands	notes
sll	logical shift left	dreg <= reg1, reg2	Only left shift produces flags
slli		dreg <= reg, imm	
sra	arithmetic shift right	dreg <= reg1, reg2	
srai	<u> </u>	dreg <= reg, imm	7
srl	logical shift right	dreg <= reg1, reg2	7
srli		dreg <= reg, imm	
	Memory loa	d and store & dat	a moving
mnemonic	description	operands	notes
ld	load a word from memory	dreg <= mem[reg +	Address does not have to be
		imm]	aligned to word boundary. Usage
st	store a word to memory	mem[reg1 + imm] <=	of bits 0 to 1 depend on
	-	reg2	implementation.
mov	move a word from register	dreg <= reg	
	to register.		
	Copr	ocessor instruction	ns
mnemonic	description	operands	notes
cop	coprosessor instruction	cop <= imm	32 bit version only
			Not allowed to be executed
			conditionally
movfc	mov data from coprocessor	dreg <= cop, cpreg	
movtc	mov data to coprocessor	cop <= reg, cpreg	
	Mode	changing instructi	ions
mnemonic	description	operands	notes
chrs	Change register set to	psr <= imm	Not allowed to be executed
	operate with		conditionally. chrs, di, ei and retu
di	disable interrupts	psr <= IE <= '0'	available in super user mode only.
ei	enable interrupts	psr <= IE <= '1'	
swm	switch between	psr <= imm	Version 1.0 supports to decoding
	decoding modes:		modes: 16 bit ISA and 32 bit ISA.
reti	return from an interrupt	pc <= hw_stack_addr	
4	service routine	psr <= hw_stack_psr	The state of the late of the state of the st
retu	return to user/SPSR defined mode.	pc <= lreg	These instructions should be used to interface operating system or
scall	system entry	psr <= spsr psr <= sys_psr	similar.
Scali	system entry	psi <= sys_psi pc <= sys_entry_addr	Sillinat.
		Miscellaneous	
	description	1	notes
mnemonic	description Restore all condition	operands creg <= reg	Not allowed to be executed
rcon	registers from general	cicg \— icg	conditionally
	purpose register.		
scon	Move the contents of all	dreg <= creg	_
2011	condition registers to a		
	general purpose register		
trap	software exception	psr <=	Should be used to catch software
ιιαρ			
пар			exceptions.