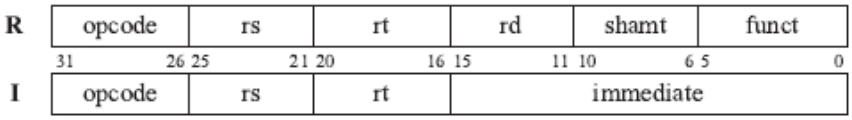
الجداول المستخدمة في ترميز التعليمات بلغة الآلة

INSTRUCTION SET

NAME, MNEMONIC		FOR-MAT	OPCODE / FUNCT (Hex)
Add	`add`	R	$0 / 20_{hex}$
Add Immediate	`addi`	I	8_{hex}
Add Imm. Unsigned	`addiu`	I	9_{hex}
Add Unsigned	`addu`	R	$0 / 21_{hex}$
And	`and`	R	$0 / 24_{hex}$
And Immediate	`andi`	I	c_{hex}
Branch On Equal	`beq`	I	4_{hex}
Branch On Not Equal	`bne`	I	5_{hex}
Jump	`j`	J	2_{hex}
Jump And Link	`jal`	J	3_{hex}
Jump Register	`jr`	R	$0 / 08_{hex}$
Load Byte Unsigned	`lbu`	I	24_{hex}
Load Halfword Unsigned	`lhu`	I	25_{hex}
Load Linked	`ll`	I	30_{hex}
Load Upper Imm.	`lui`	I	f_{hex}
Load Word	`lw`	I	23_{hex}
Nor	`nor`	R	$0 / 27_{hex}$
Or	`or`	R	$0 / 25_{hex}$
Or Immediate	`ori`	I	d_{hex}
Set Less Than	`slt`	R	$0 / 2a_{hex}$
Set Less Than Imm.	`slti`	I	a_{hex}
Set Less Than Imm. Unsigned	`sltiu`	I	b_{hex}
Set Less Than Unsig.	`sltu`	R	$0 / 2b_{hex}$
Shift Left Logical	`sll`	R	$0 / 00_{hex}$
Shift Right Logical	`srl`	R	$0 / 02_{hex}$
Store Byte	`sb`	I	28_{hex}
Store Conditional	`sc`	I	38_{hex}
Store Halfword	`sh`	I	29_{hex}
Store Word	`sw`	I	$2b_{hex}$
Subtract	`sub`	R	$0 / 22_{hex}$
Subtract Unsigned	`subu`	R	$0 / 23_{hex}$

BASIC INSTRUCTION FORMATS



REGISTER NAME, NUMBER, USE

NAME	NUMBER	USE
$zero	0	The Constant Value 0
$at	1	Assembler Temporary
$v0-$v1	2-3	Values for Function Results and Expression Evaluation
$a0-$a3	4-7	Arguments
$t0-$t7	8-15	Temporaries
$s0-$s7	16-23	Saved Temporaries
$t8-$t9	24-25	Temporaries
$k0-$k1	26-27	Reserved for OS Kernel
$gp	28	Global Pointer
$sp	29	Stack Pointer
$fp	30	Frame Pointer
$ra	31	Return Address