The MAL Instruction Set			
Format		Effect	Notes
la li lw	R, constant	R ← constant R ← M[address]	M[i] is the contents of the (aligned) word of memory beginning at location i. m[i] is the contents of the byte of memory at location i.
lb lbu sw sb	R, address R, address	$R \leftarrow (m[address]_7)^{24} \parallel m[address]$ $R \leftarrow 0^{24} \parallel m[address]$ $R \rightarrow M[address]$ $[R]_{70} \rightarrow m[address]$	address can take several forms: label—absolute address (R _b)—base address I (R _b)—base displacement
add			D specifies a general register
sub		$D \leftarrow S_1 - S_2$	where the result is placed.
mul		$D \leftarrow S_1 * S_2$	
div		$D \leftarrow S_1 \text{ div } S_2$	S ₁ is the contents of a general register.
rem		$D \leftarrow S_1 \text{ rem } S_2$	
and		D O DE LES DE	S ₂ can be either the contents of a
or		$D \leftarrow S_1 \ OR \ S_2$	general register or a constant.
xor		$D \leftarrow S_1 \times OR S_2$	
nor		$D \leftarrow S_1 NOR S_2$	If S ₁ is not present, then S ₁
not		$D \leftarrow NOT S_1$	is the same as D.
move	D, S_2	$D \leftarrow S_2$	
sll srl	Rd. Rt. AMT	$\begin{split} R_d &\leftarrow [R_t]_{31-AMT0} \parallel 0^{AMT} \\ R_d &\leftarrow 0^{AMT} \parallel [R_t]_{31AMT} \\ R_d &\leftarrow ([R_t]_{31})^{AMT} \parallel [R_t]_{31AMT} \end{split}$	AMT may be either a general register or a constant. $0 \le AMT < 32$.
sra			F specifies a floating point
1.S		T [addices]	register where the result is placed.
S.S	F, address	F → M[address]	W specifies a floating point
li.s	F, constant	F ← Constant	istan whose content is to be
mov.s	F, F ₁		interpreted as a two's complement
add.s	F, F_1, F_2	$D \leftarrow F_1 + F_2$	integer.
sub.s	F, F_1, F_2	$D \leftarrow F_1 - F_2$ $D \leftarrow F_1 * F_2$	F ₁ , F ₂ , and G each specify a floating point register whose content is to be point register whose content is to be
mul.s	F, F_1, F_2	$D \leftarrow F_1 * F_2$ $D \leftarrow F_1 / F_2$	point register whose precision interpreted as a single-precision
	F, F ₁ , F ₂	$\begin{array}{c} D \leftarrow F_1 / F_2 \\ G \leftarrow W \end{array}$	floating point number.
		$W \leftarrow G$	
CVt.W.	SW,G	W + O	