Core MIPS	Name	Integer	Fl. pt.	Arithmetic core + MIPS-32	Name	Integer	Fl. pt.
add	add	0.0%	0.0%	FP add double	add.d	0.0%	10.6%
add immediate	addi	0.0%	0.0%	FP subtract double	sub.d	0.0%	4.9%
add unsigned	addu	5.2%	3.5%	FP multiply double	mul.d	0.0%	15.0%
add immediate unsigned	addiu	9.0%	7.2%	FP divide double	div.d	0.0%	0.2%
subtract unsigned	subu	2.2%	0.6%	FP add single	add.s	0.0%	1.5%
AND	AND	0.2%	0.1%	FP subtract single	sub.s	0.0%	1.8%
AND immediate	ANDi	0.7%	0.2%	FP multiply single	mul.s	0.0%	2.4%
OR	OR	4.0%	1.2%	FP divide single	div.s	0.0%	0.2%
OR immediate	ORi	1.0%	0.2%	load word to FP double	1.d	0.0%	17.5%
NOR	NOR	0.4%	0.2%	store word to FP double	s.d	0.0%	4.9%
shift left logical	s11	4.4%	1.9%	load word to FP single	1.s	0.0%	4.2%
shift right logical	srl	1.1%	0.5%	store word to FP single	s.s	0.0%	1.1%
load upper immediate	lui	3.3%	0.5%	branch on floating-point true	bc1t	0.0%	0.2%
load word	lw	18.6%	5.8%	branch on floating-point false	bc1f	0.0%	0.2%
store word	SW	7.6%	2.0%	floating-point compare double	c.x.d	0.0%	0.6%
load byte	1bu	3.7%	0.1%	multiply	mul	0.0%	0.2%
store byte	sb	0.6%	0.0%	shift right arithmetic	sra	0.5%	0.3%
branch on equal (zero)	beq	8.6%	2.2%	load half	1hu	1.3%	0.0%
branch on not equal (zero)	bne	8.4%	1.4%	store half	sh	0.1%	0.0%
jump and link	jal	0.7%	0.2%				
jump register	jr	1.1%	0.2%]			
				1			

FIGURE 3.26 The frequency of the MIPS instructions for SPEC CPU2006 integer and floating point. All instructions that accounted for at least 0.2% of the instructions are included in the table. Pseudoinstructions are converted into MIPS-32 before execution, and hence do not appear here.

slt

slti

sltu

sltiu

set less than

set less than immediate

set less than unsigned

set less than imm. uns.

9.9%

3.1%

3.4%

1.1%

2.3%

0.3%

0.8%

0.1%

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