

## 关于测试流水线 CPU 的简单方法

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(黄底为循环)

指令地址	汇编指令	十六进制	运行结果	
0x00000000	addiu \$2,\$0,0x8	24020008	0x8	0
0x00000004	sb \$2,1(\$0)	a0020001		1
0x00000008	lb \$1,1(\$0)	80010001		2
0x0000000C	addiu \$1,\$1,0	24210000	0x8	3
0x00000010	ori \$2,\$0,2	34020002	0x2	4
0x00000014	xori \$3,\$2,8	38430008	0xa	5
0x00000018	sub \$4,\$3,\$1	00612022	0x2	6
0x0000001C	and \$5,\$4,\$2	00822824	0x2	7
0x00000020	lui \$6,0xf000	3c06f000	0xf000 0000	8
0x00000024	sra \$6,\$6,1	00063043	0xf800 0000	9
0x00000028	srl \$6,\$6,1	00063042	0x7c00 0000	a
0x0000002C	sll \$6,\$6,2	00063080	0xf000 0000	b
0x00000030	srav \$6,\$6,\$2	00463007	0xfc00 0000	c
0x00000034	lui \$7,2	3c070002	0x0002 0000	d
0x00000038	sllv \$7,\$7,\$2	00473804	0x0008 0000	e
0x0000003C	srlv \$7,\$7,\$2	00473806	0x0002 0000	f
0x00000040	xor \$7,\$7,\$1	00e13826	0x0002 0008	10
0x00000044	sll \$5,\$5,2	00052880	0x8/0x20	11
0x00000048	beq \$5,\$1,-2	10a1fffe	0x0/0x18	12
0x0000004c	jal 0x00000080	0c000020		13
0x00000050	slt \$8,\$13,\$1	01a1402a	1	14
0x00000054	addiu \$14,\$0,-2	240efffe	-2	15
0x00000058	slt \$9,\$8,\$14	010e482a	1	16
0x0000005c	slti \$10,\$9,2	292a0002	1	17
0x00000060	slti \$11,\$10,0	294b0000	0	18
0x00000064	add \$11,\$11,\$10	016a5820	1/2	19
0x00000068	bne \$11,\$2,-2	1562fffe	-1/0	1a
0x0000006c	addiu \$12,\$0,-2	240cfffe	-2	1b
0x00000070	addiu \$12,\$12,1	258c0001	-1/0	1c
0x00000074	bltz \$12,-2	0580fffe		1d
0x00000078	andi \$12,\$2,2	304c0002	2	1e
0x0000007c	j 0x0000008c	08000023		1f
0x00000080	sw \$2,4(\$1)	ac220004	0xc	20
0x00000084	lw \$13,4(\$1)	8c2d0004	0xc	21
0x00000088	jr \$31	03e00008		22
0x0000008c	halt	FC000000		23