Cycle	Reset	PC	Instr	(FSM) state	Src A	SrcB	ALUResult	Zero	Control Word
1	1	00	0	0	00	04	04	0	5010
2	0	04	addi 2002000	5 1	04	Х	Х	0	0030
3	0	04	addi 20020005	5 9	00	05	05	0	0420
4	0	04	addi 2002000		Х	Х	X	0	0800
5	0	04	addi 2002000	5 0	04	04	08	0	5010
6	0	08	addi 20030000	1	08	Х	Х	0	0030
7	0	08	addi 20030000	9	00	0c	0c	0	0420
8	0	08	addi 20030000	10	Х	Х	Х	0	0800
9	0	08	addi 2003000	0	08	0c	0c	0	5010
10	0	0c	addi 2067fff	7 1	0c	Х	Х	0	0030
11	0	0c	addi 2067fff	7 9	0c	-9	03	0	0420
12	0	0c	addi 2067fff	7 10	X	Х	Х	0	0800
13	0	0c	addi 2067fff	7 0	0c	10	10	0	5010
14	0	10	or 00e2202		10	X	X	0	0030
15	0	10	or 00e2202		03	05	07	0	0402
16	0	10	or 00e2202		X	X	X	0	0840
17	0	10	or 00e2202		10	04	14	0	5010
18	0	14	and 00642824		14	X	X	0	0030
19	0	14	and 00642824		0c	07	04	0	0402
20	0	14	and 00642824				X X	0	0840
20	0	14			14	04	18	0	5010
22	0	18			18			0	0030
	_		add 00a42820		_	X	X	_	
23	0	18	add 00a42820		04	07	0b	0	0402
24	0	18	add 00a42820		X	X	X	0	0840
25	0	18	add 00a42820		18	04	1c	0	5010
26	0	1c	Beq 10a7000a		1c	X	X	0	0030
27	0	1c	Beq 10a7000a		0b	03	08	0	0605
28	0	1c	Beq 10a7000a		1c	04	20	0	5010
29	0	20	Slt 0064202	a 1	20	Х	X	0	0030
30	0	20	Slt 0064202	a 6	0c	07	00	0	0402
31	0	20	Slt 0064202	a 7	Х	Х	Х	0	0840
32	0	20	Slt 0064202	a 0	20	28	28	0	5010
33	0	28	Beq 10800001	1 1	28	Х	X	1	0030
34	0	28	Beg 10800001	1 8	00	00	07	1	0605
35	0	28	Beg 10800001		28	04	2c	1	5010
36	0	2c	Slt 00e2202a	1	2c	Х	x	0	0030
37	0	2c	Slt 00e2202		2c	05	31	0	0402
38	0	2c	Slt 00e22028		X	X	X	0	0840
39	0	2c	Slt 00e22028	`	2c	04	30	0	5010
	_			* -					
40	0	30	add 00853820		30	X	X	0	0030
41	0	30	add 00853820		01	0b	0c	0	0402
42	0	30	add 00853820		X	X 0.4	X	0	0840
43	0	30	add 00853820		30	04	34	0	5010
44	0	34	sub 00e23822		34	X	X	0	0030
45	0	34	sub 00e23822		0c	05	07	0	0402
46	0	34	sub 00e23822		X	X	X	0	0840
47	0	34	sub 00e23822		34	04	38	0	5010
48	0	38	sw ac670044		38	X	X	0	0030
49	0	38	sw ac670044		0c	44	50	0	0420
50	0	38	sw ac670044		Х	Х	Х	0	2100
51	0	38	sw ac670044		38	04	3c	0	5010
52	0	3c	lw 8c020050		3c	Х	Х	0	0030
53	0	3c	lw 8c020050	9 2	00	50	50	0	0420
54	0	3c	lw 8c020050	9 3	Х	Х	Х	0	0100
55	0	3c	lw 8c020050	9 4	Х	Х	Х	0	0880
56	0	3c	lw 8c020050	9 0	3c	04	40	0	5010
57	0	40	J 0800001:		40	44	84	0	0030
58	0	40	J 0800001	1 b	Х	Х	Х	0	4008
59	0	40	J 0800001		40	48	48	0	5010
60	0	44	Sw ac020054		48	150	198	0	0030
61	0	44	Sw ac020054		00	54	54	0	0420
62	0	44	Sw ac020054		X		 	0	2100
02	ا ا	44	SW acuzuus		X	Х	X	Į U	2100

Table 1. Expected Instruction Trace