1. Table

Instruction	Fetch	Decode	Execute	Memory	Write Back
addq %rax,%rbx	11,12,14,15,16,17,19	5,21,22,26,27	31,32,33,34,35,36,37,41	---	38,22
rrmovq %rax,%rbx	11,12,14,15,16,17,19	5,21,26	31,33,36,37	---	38,22
irmovq 5,%rbx	11,12,14,15,17,18,19	4,5	33,36,37	---	38,22
Mrmovq 5(%rdx),%rax	11,12,14,15,16,17,18,19	4,5,22,27	32,33,34,36,37	38,39,43,46	3,21
rmmovq %rax,5(%rdx)	11,12,14,15,16,17,18,19	4,5,21,22,26,27	31,33,34,36,37	31,38,39,40,42	---
push %rax	11,12,14,15,16,19	5,21,24,26,27	32,34,36,37	31,38,39,40,42	38,24
pop %rax	11,12,14,15,16,19	5,24,26,27	32,34,36,37	31,39,43,46	38,24,3,21
jne loop	11,12,14,15,18,19	4,5	33,35,36,37,41	---	---
call func	11,12,14,15,18,19	4,5,24,27	32,34,36,37	38,39,40,42	38,24
ret	11,12,14,15,19	5,24,26,27	32,34,36,37	31,39,43,46	38,24
cmovne %rax,%rbx	11,12,14,15,16,17,19	5,21,26,27	31,32,33,34,35,36,37,41	---	38,22

2. Table

Instruction	**icode**	**ifun**	**rA**	**rB**	**valC**	**valA**	**valB**	**dstE**	**dstM**	**srcA**	**valE**	**valM**	**Cnd**
addq %rax,%rbx	6	0	0	3		1	2	3		0	3		1
rrmovq %rax,%rbx	2	0	0	3		1		3		0	1		
irmovq 5,%rbx	3	0	F	3	5			3			5		
mrmovq 5(%rbx),%rax	5	0	0	3	5		2	0			7	0	
rmmovq %rax,5(%rdx)	4	0	0	2	5	1	0x1000			0	0x1005	1	
push %rax	A	0	0	F		1	0x2000	4		4	0x1FF8	1	
pop %rax	B	0	0	F		0x2000	0x2000	4	0	4	0x2008	2	
jmp loop	7	0			0x3000								1
call func	8	0			0x4000		0x2000	4			0x1FF8	0x0009	
ret	9	0				0x2000	0x2000	4		4	0x2008	2	
cmove %rax,%rbx	2	3	0	3		1	0	3		0	1		1