## Y86-64 Instruction Set

Instruction	icode:fn		rA:rB									
halt	byte 0 0 = IHALT	0	1		2	3	4	5	6	7	8	9
nop	1 = INOP	0										
cmovXX rA, rB	2 = IRRMOVQ	fn										
rrmovq cmovle cmovl cmove cmovne cmovge cmovg		0 1 2 3 4 5 6										0
irmovq V, rB	3 = IIRMOVQ	0	F	rB	٧							9
rmmovq rA, D(rB)	4 = IRMMOVQ	0	rA	rВ	D							
mrmovq D(rB), rA	5 = IMRMOVQ	0	rA	rB	D							
OPq rA, rB	6 = IOPQ	fn	rA	rВ								
addq subq andq xorq		0 1 2 3									8	
jXX Dest	7 = IJXX	fn	Dest								0	
jmp jle jl je jne jge jg		0 1 2 3 4 5									8	
call Dest	8 = ICALL	0	Dest	:								
ret	9 = IRET	0										
pushq rA	A = IPUSHQ	0	rA	F								
popq rA	B = IPOPQ	0	rA	F	1							

## Register encoding

0	1	2	3	4	5	6	7
%rax	%rcx	%rdx	%rbx	%rsp	%rbp	%rsi	%rdi
8	9	Α	В	С	D	Е	F
%r8	%r9	%r10	%r11	%r12	%r13	%r14	No register