Instruction Code Summary

H / L	0	1	2	3	4	5	6	7	8	9	A	B	C	D	E	F
0	NOP	JBC bit, rel	JB bit, rel	JNB bit, rel	JC rel	JNC rel	JZ rel	JNZ rel	SJMP rel	MOV DPTR, # data 16	ORL C, /bit	ANL C. /bit	PUSH dir	POP dir	MOVX A, @DPTR	MOVX @DPTR, A
1	AJMP (P0)	ACALL (P0)	AJMP (P1)	ACALL (P1)	AJMP (P2)	ACALL (P2)	AJMP (P3)	ACALL (P3)	AJMP (P4)	ACALL (P4)	AJMP (P5)	ACALL (P5)	AJMP (P6)	ACALL (P6)	AJMP (P7)	ACALL (P7)
2	LJMP addr16	LCALL addr16	RET	RETI	ORL dir, A	ANL dir, A	XRL dir, A	ORL C, bit	ANL C, bit	MOV bit, C	MOV C, bit	CPL bit	CLR bit	SETB bit	MOVX A, @R0	MOVX @R0, A
3	RR A	RRC A	RL A	RLC A	ORL dir, # data	ANL dir, # data	XRL dir, # data	JMP @A+DPTR	MOVC A, @A+PC	MOVC A, @A+DPTR	INC DPTR	CPL C	CLR C	SETB C	MOVX A, @R1	MOVX @R1, A
4	INC A	DEC A	ADD A, # data	ADDC A, # data	ORL A, # data	ANL A, # data	XRL A, # data	MOV A, # data	DIV AB	SUBB A, # data	MUL AB	CJNE A, # data, rel	SWAP A	DA A	CLR A	CPL A
5	INC dir	DEC dir	ADD A, dir	ADDC A, dir	ORL A, dir	ANL A, dir	XRL A, dir	MOV dir, # data	MOV dir, dir	SUBB A, dir		CJNE A, dir, rel	XCH A, dir	DJNZ dir, rel	MOV A, dir	MOV dir, A
6	INC @R0	DEC @R0	ADD A, @R0	ADDC A, @R0	ORL A, @R0	ANL A, @R0	XRL A, @R0	MOV @R0, # data	MOV dir, @R0	SUBB A, @R0	MOV @R0, dir	CJNE @R0, # data, rel	XCH A, @R0	XCHD A, @R0	MOV A, @R0	MOV @ R0, A
7	INC @R1	DEC @R1	ADD A, @R1	ADDC A, @R1	ORL A, @R1	ANL A, @R1	XRL A, @R1	MOV @R1, # data	MOV dir, @R1	SUBB A, @R1	MOV @R1, dir	CJNE @R1, # data, rel	XCH A, @R1	XCHD A, @R1	MOV A, @R1	MOV @ R1, A
8	INC R0	DEC R0	ADD A, R0	ADDC A, R0	ORL A, R0	ANL A, R0	XRL A, R0	MOV R0, # data	MOV dir, R0	SUBB A, R0	MOV R0, dir	CJNE R0, # data, rel	XCH A, R0	DJNZ R0, rel	MOV A, R0	MOV R0, A
9	INC R1	DEC R1	ADD A, R1	ADDC A, R1	ORL A, R1	ANL A, R1	XRL A, R1	MOV R1, # data	MOV dir, R1	SUBB A, R1	MOV R1, dir	CJNE R1, # data, rel	XCH A, R1	DJNZ R1, rel	MOV A, R1	MOV R1, A
A	INC R2	DEC R2	ADD A, R2	ADDC A, R2	ORL A, R2	ANL A, R2	XRL A, R2	MOV R2, # data	MOV dir, R2	SUBB A, R2	MOV R2, dir	CJNE R2, # data, rel	XCH A, R2	DJNZ R2, rel	MOV A, R2	MOV R2, A
B	INC R3	DEC R3	ADD A, R3	ADDC A, R3	ORL A, R3	ANL A, R3	XRL A, R3	MOV R3, # data	MOV dir, R3	SUBB A, R3	MOV R3, dir	CJNE R3, # data, rel	XCH A, R3	DJNZ R3, rel	MOV A, R3	MOV R3, A
C	INC R4	DEC R4	ADD A, R4	ADDC A, R4	ORL A, R4	ANL A, R4	XRL A, R4	MOV R4, # data	MOV dir, R4	SUBB A, R4	MOV R4, dir	CJNE R4, # data, rel	XCH A, R4	DJNZ R4, rel	MOV A, R4	MOV R4, A
D	INC R5	DEC R5	ADD A, R5	ADDC A, R5	ORL A, R5	ANL A, R5	XRL A, R5	MOV R5, # data	MOV dir, R5	SUBB A, R5	MOV R5, dir	CJNE R5, # data, rel	XCH A, R5	DJNZ R5, rel	MOV A, R5	MOV R5, A
E	INC R6	DEC R6	ADD A, R6	ADDC A, R6	ORL A, R6	ANL A, R6	XRL A, R6	MOV R6, # data	MOV dir, R6	SUBB A, R6	MOV R6, dir	CJNE R6, # data, rel	XCH A, R6	DJNZ R6, rel	MOV A, R6	MOV R6, A
F	INC R7	DEC R7	ADD A, R7	ADDC A, R7	ORL A, R7	ANL A, R7	XRL A, R7	MOV R7, # data	MOV dir, R7	SUBB A, R7	MOV R7, dir	CJNE R7, # data, rel	XCH A, R7	DJNZ R7, rel	MOV A, R7	MOV R7, A

2Byte	3Byte
2Cycle	4Cycle