CV-8052 Instructions Sorted by Name

Opcode	Hex	C	B	Mnemonic
aaa10001		3	2	ACALL paged_addr
00100100	0x24	2	2	ADD A,#val
0010011i	0x26-0x27	1	1	ADD A,@Ri
00100101	0x25	2	2	ADD A,data
00101rrr	0x28-0x2F	1	1	ADD A,Rn
00110100	0x34	2	2	ADDC A,#val
0011011i	0x36-0x37	1	1	ADDC A,@Ri
00110101	0x35	2	2	ADDC A,data
00111rrr	0x38-0x3F	1	1	ADDC A,Rn
aaa00001		3	2	AJMP paged_addr
01010100	0x54	2	2	ANL A,#val
0101011i	0x56-0x57	1	1	ANL A,@Ri
01010101	0x55	2	2	ANL A,data
01011rrr	0x58-0x5F	1	1	ANL A,Rn
10110000	0xB0	2	2	ANL C,/bit
10000010	0x82	2	2	ANL C,bit
01010011	0x53	3	3	ANL data,#val
01010010	0x52	2	2	ANL data,A
1011011i	0xB6-0xB7	3/4	3	CJNE @Ri,#val,rel
10110100	0xB4	3/4	3	CJNE A,#val,rel
10110101	0xB5	3/4	3	CJNE A,data,rel
10111rrr	0xB8-0xBF	3/4	3	CJNE Rn,#val,rel
11100100	0xE4	1	1	CLR A
11000010	0xC2	2	2	CLR bit
11000011	0xC3	1	1	CLR C
11110100	0xF4	1	1	CPL A
10110010	0xB2	2	2	CPL bit
10110011	0xB3	1	1	CPL C
11010100	0xD4	1	1	DA A
0001011i	0x16-0x17	1	1	DEC @Ri
00010100	0x14	1	1	DEC A
00010101	0x15	2	2	DEC data
00011rrr	0x18-0x1F	1	1	DEC Rn
10000100	0x84	10	1	DIV AB
11010101	0xD5	3/4	3	DJNZ data,rel
11011rrr	0xD8-0xDF	2/3	2	DJNZ Rn,rel
0000011i	0x06-0x07	1	1	INC @Ri
00000100	0x04	1	1	INC A
00000101	0x05	2	2	INC data
10100011	0xA3	1	1	INC DPTR
00001rrr	0x08-0x0F	1	1	INC Rn
00100000	0x20	3/4	3	JB bit,rel
00010000	0x10	3/4	3	JBC bit,rel
01000000	0x40	2/3	2	JC rel
01110011	0x73	2	1	JMP @A+DPTR
00110000	0x30	3/4	3	JNB bit,rel
01010000	0x50	2/3	2	JNC rel
01110000	0x70	2/3	2	JNZ rel
01100000	0x60	2/3	2	JZ rel
00010010	0x12	3	3	LCALL abs_addr
00000010	0x02	3	3	LJMP abs_addr
0111011i	0x76-0x77	2	2	MOV @Ri,#val
1111011i	0xF6-0xF7	1	1	MOV @Ri,A
1010011i	0xA6-0xA7	3	2	MOV @Ri,data
01110100	0x74	2	2	MOV A,#val
1110011i	0xE6-0xE7	1	1	MOV A,@Ri
11100101	0xE5	2	2	MOV A,data
11101rrr	0xE8-0xEF	1	1	MOV A,Rn
10010010	0x92	2	2	MOV bit,C
10100010	0xA2	2	2	MOV C,bit
01110101	0x75	3	3	MOV data,#val
1000011i	0x86-0x87	2	2	MOV data,@Ri
11110101	0xF5	2	2	MOV data,A
10000101	0x85	3	3	MOV data,data
10001rrr	0x88-0x8F	2	2	MOV data,Rn
10010000	0x90	3	3	MOV DPTR,#val
01111rrr	0x78-0x7F	2	2	MOV Rn,#val
11111rrr	0xF8-0xFF	1	1	MOV Rn,A
10101rrr	0xA8-0xAF	3	2	MOV Rn,data
10010011	0x93	4	1	MOVC A,@A+DPTR
10000011	0x83	4	1	MOVC A,@A+PC
11110000	0xF0	1	1	MOVX @DPTR,A
1111001i	0xF2-0xF3	1	1	MOVX @Ri,A
11100000	0xE0	2	1	MOVX A,@DPTR
1110001i	0xE2-0xE3	2	1	MOVX A,@Ri
10100100	0xA4	1	1	MUL AB
00000000	0x00	1	1	NOP
01000100	0x44	2	2	ORL A,#val
0100011i	0x46-0x47	1	1	ORL A,@Ri
01000101	0x45	2	2	ORL A,data
01001rrr	0x48-0x4F	1	1	ORL A,Rn
10100000	0xA0	2	2	ORL C,/bit
01110010	0x72	2	2	ORL C,bit
01000011	0x43	3	3	ORL data,#val
01000010	0x42	2	2	ORL data,A
11010000	0xD0	3	2	POP data
11000000	0xC0	3	2	PUSH data
00100010	0x22	3	1	RET
00110010	0x32	3	1	RETI
00100011	0x23	1	1	RL A
00110011	0x33	1	1	RLC A
00000011	0x03	1	1	RR A
00010011	0x13	1	1	RRC A
11010010	0xD2	2	2	SETB bit
11010011	0xD3	1	1	SETB C
10000000	0x80	3	2	SJMP rel
10010100	0x94	2	2	SUBB A,#val
1001011i	0x96-0x97	1	1	SUBB A,@Ri
10010101	0x95	2	2	SUBB A,data
10011rrr	0x98-0x9F	1	1	SUBB A,Rn
11000100	0xC4	1	1	SWAP A
1100011i	0xC6-0xC7	1	1	XCH A,@Ri
11000101	0xC5	2	2	XCH A,data
11001rrr	0xC8-0xCF	1	1	XCH A,Rn
1101011i	0xD6-0xD7	1	1	XCHD A,@Ri
01100100	0x64	2	2	XRL A,#val
0110011i	0x66-0x67	1	1	XRL A,@Ri
01100101	0x65	2	2	XRL A,data
01101rrr	0x68-0x6F	1	1	XRL A,Rn
01100011	0x63	3	3	XRL data,#val
01100010	0x62	2	2	XRL data,A

CV-8052 Instructions Sorted by Opcode Number

Opcode	Hex	C	B	Mnemonic
00000000	0x00	1	1	NOP
aaa00001		3	2	AJMP paged_addr
00000010	0x02	3	3	LJMP abs_addr
00000011	0x03	1	1	RR A
00000100	0x04	1	1	INC A
00000101	0x05	2	2	INC data
0000011i	0x06-0x07	1	1	INC @Ri
00001rrr	0x08-0x0F	1	1	INC Rn
00010000	0x10	3/4	3	JBC bit,rel
aaa10001		3	2	ACALL paged_addr
00010010	0x12	3	3	LCALL abs_addr
00010011	0x13	1	1	RRC A
00010100	0x14	1	1	DEC A
00010101	0x15	2	2	DEC data
0001011i	0x16-0x17	1	1	DEC @Ri
00011rrr	0x18-0x1F	1	1	DEC Rn
00100000	0x20	3/4	3	JB bit,rel
00100010	0x22	3	1	RET
00100011	0x23	1	1	RL A
00100100	0x24	2	2	ADD A,#val
00100101	0x25	2	2	ADD A,data
0010011i	0x26-0x27	1	1	ADD A,@Ri
00101rrr	0x28-0x2F	1	1	ADD A,Rn
00110000	0x30	3/4	3	JNB bit,rel
00110010	0x32	3	1	RETI
00110011	0x33	1	1	RLC A
00110100	0x34	2	2	ADDC A,#val
00110101	0x35	2	2	ADDC A,data
0011011i	0x36-0x37	1	1	ADDC A,@Ri
00111rrr	0x38-0x3F	1	1	ADDC A,Rn
01000000	0x40	2/3	2	JC rel
01000010	0x42	2	2	ORL data,A
01000011	0x43	3	3	ORL data,#val
01000100	0x44	2	2	ORL A,#val
01000101	0x45	2	2	ORL A,data
0100011i	0x46-0x47	1	1	ORL A,@Ri
01001rrr	0x48-0x4F	1	1	ORL A,Rn
01010000	0x50	2/3	2	JNC rel
01010010	0x52	2	2	ANL data,A
01010011	0x53	3	3	ANL data,#val
01010100	0x54	2	2	ANL A,#val
01010101	0x55	2	2	ANL A,data
0101011i	0x56-0x57	1	1	ANL A,@Ri
01011rrr	0x58-0x5F	1	1	ANL A,Rn
01100000	0x60	2/3	2	JZ rel
01100010	0x62	2	2	XRL data,A
01100011	0x63	3	3	XRL data,#val
01100100	0x64	2	2	XRL A,#val
01100101	0x65	2	2	XRL A,data
0110011i	0x66-0x67	1	1	XRL A,@Ri
01101rrr	0x68-0x6F	1	1	XRL A,Rn
01110000	0x70	2/3	2	JNZ rel
01110010	0x72	2	2	ORL C,bit
01110011	0x73	2	1	JMP @A+DPTR
01110100	0x74	2	2	MOV A,#val
01110101	0x75	3	3	MOV data,#val

Opcode	Hex	C	B	Mnemonic
0111011i	0x76-0x77	2	2	MOV @Ri,#val
01111rrr	0x78-0x7F	2	2	MOV Rn,#val
10000000	0x80	3	2	SJMP rel
10000010	0x82	2	2	ANL C,bit
10000011	0x83	4	1	MOVC A,@A+PC
10000100	0x84	10	1	DIV AB
10000101	0x85	3	3	MOV data,data
1000011i	0x86-0x87	2	2	MOV data,@Ri
10001rrr	0x88-0x8F	2	2	MOV data,Rn
10010000	0x90	3	3	MOV DPTR,#val
10010010	0x92	2	2	MOV bit,C
10010011	0x93	4	1	MOVC A,@A+DPTR
10010100	0x94	2	2	SUBB A,#val
10010101	0x95	2	2	SUBB A,data
1001011i	0x96-0x97	1	1	SUBB A,@Ri
10011rrr	0x98-0x9F	1	1	SUBB A,Rn
10100000	0xA0	2	2	ORL C,/bit
10100010	0xA2	2	2	MOV C,bit
10100011	0xA3	1	1	INC DPTR
10100100	0xA4	1	1	MUL AB
1010011i	0xA6-0xA7	3	2	MOV @Ri,data
10101rrr	0xA8-0xAF	3	2	MOV Rn,data
10110000	0xB0	2	2	ANL C,/bit
10110010	0xB2	2	2	CPL bit
10110011	0xB3	1	1	CPL C
10110100	0xB4	3/4	3	CJNE A,#val,rel
10110101	0xB5	3/4	3	CJNE A,data,rel
1011011i	0xB6-0xB7	3/4	3	CJNE @Ri,#val,rel
10111rrr	0xB8-0xBF	3/4	3	CJNE Rn,#val,rel
11000000	0xC0	3	2	PUSH data
11000010	0xC2	2	2	CLR bit
11000011	0xC3	1	1	CLR C
11000100	0xC4	1	1	SWAP A
11000101	0xC5	2	2	XCH A,data
1100011i	0xC6-0xC7	1	1	XCH A,@Ri
11001rrr	0xC8-0xCF	1	1	XCH A,Rn
11010000	0xD0	3	2	POP data
11010010	0xD2	2	2	SETB bit
11010011	0xD3	1	1	SETB C
11010100	0xD4	1	1	DA A
11010101	0xD5	3/4	3	DJNZ data,rel
1101011i	0xD6-0xD7	1	1	XCHD A,@Ri
11011rrr	0xD8-0xDF	2/3	2	DJNZ Rn,rel
11100000	0xE0	2	1	MOVX A,@DPTR
1110001i	0xE2-0xE3	2	1	MOVX A,@Ri
11100100	0xE4	1	1	CLR A
11100101	0xE5	2	2	MOV A,data
1110011i	0xE6-0xE7	1	1	MOV A,@Ri
11101rrr	0xE8-0xEF	1	1	MOV A,Rn
11110000	0xF0	1	1	MOVX @DPTR,A
1111001i	0xF2-0xF3	1	1	MOVX @Ri,A
11110100	0xF4	1	1	CPL A
11110101	0xF5	2	2	MOV data,A
1111011i	0xF6-0xF7	1	1	MOV @Ri,A
11111rrr	0xF8-0xFF	1	1	MOV Rn,A