SIMPLE MICROPROCESSOR DESIGN AND SPECIFICATIONS

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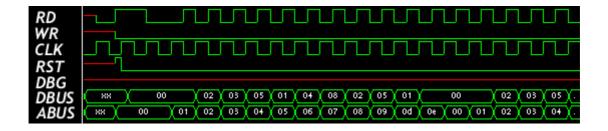
OpCode Table

Hexadecimal	Binary	OpCode		
00	00000000	JMP 8bit_address		
01	00000001	JMPA		
02	00000010	ЈМРВ		
03	00000011	MOVA 8bit_data		
04	00000100	MOVB 8bit_data		
05	00000101	ADDAB		
06	00000110	NOP		

Simple Assemly Program

0ffset	Binary	Нех	Mnemonic
00	00000000 00000010	00 02	JMP 02
02	00000011 00000101	03 05	MOVA
04	00000001	01	JMPA
05	00000100 00001000	04 08	MOVB 08
07	00000010	02	JMPB
08	00000101	05	ADDAB
09	00000001	01	JMPA
0A	00000110	06	NOP
0B	00000110	06	NOP
9C	00000110	06	NOP
0D	00000000 00000000	00 00	JMP 00

Signal Output



Microprocessor specification

Data Bus Length	8 bits		
Address Bus Length	8 bits		
Address Model	flat		
Total Addressable Memory	256 Byte		
General Purpose Registers	A, B, IP		
Max.Opcode Length	2 Bytes		
Supported Instructions	JMP, MOVA, MOVB, ADDAB, JMPA, JMPB, NOP		