CPU

Register Name	Value 4 bytes
0	
1	
2	
3	
4	
5	
6	
7	

ALU | Control Unit

Memory

Addr 4 bytes	Value 1 byte	Addr 4 bytes	Value 1 byte	Addr 4 bytes	Value 1 byte	Addr 4 bytes	Value 1 byte	Addr 4 bytes	Value 1 byte
0x100		0x1000		0x2000		...		0x8020	
0x101		0x1001		0x2001				0x8021	
0x102		0x1002		0x2002				0x8022	
0x103		0x1003		0x2003				0x8023	
0x104		0x1004		0x2004				0x8024	
0x105		0x1005		0x2005				0x8025	
0x106		0x1006		0x2006				0x8026	
0x107		0x1007		0x2007				0x8027	
0x108		0x1008		0x2008				0x8028	
0x109		0x1009		0x2009				0x8029	
0x10a		0x100a		0x200a				0x802a	
0x10b		0x100b		0x200b				0x802b	
0x10c		0x100c		0x200c				0x802c	
0x10d		0x100d		0x200d				0x802d	
0x10e		0x100e		0x200e				0x802e	
0x10f		0x100f		0x200f				0x802f	

CPU

Register Name	Value 4 bytes
0	
1	
2	
3	
4	
5	
6	
7	

ALU | Control Unit

Memory

Addr 4 bytes	Value 1 byte	Addr 4 bytes	Value 1 byte	Addr 4 bytes	Value 1 byte	Addr 4 bytes	Value 1 byte	Addr 4 bytes	Value 1 byte
0x100		0x1000		0x2000		...		0x8020	
0x101		0x1001		0x2001				0x8021	
0x102		0x1002		0x2002				0x8022	
0x103		0x1003		0x2003				0x8023	
0x104		0x1004		0x2004				0x8024	
0x105		0x1005		0x2005				0x8025	
0x106		0x1006		0x2006				0x8026	
0x107		0x1007		0x2007				0x8027	
0x108		0x1008		0x2008				0x8028	
0x109		0x1009		0x2009				0x8029	
0x10a		0x100a		0x200a				0x802a	
0x10b		0x100b		0x200b				0x802b	
0x10c		0x100c		0x200c				0x802c	
0x10d		0x100d		0x200d				0x802d	
0x10e		0x100e		0x200e				0x802e	
0x10f		0x100f		0x200f				0x802f	