Operations		128	64	32	16	8	4	2	1	
Immediate	imm	0	0							
Calculate	calc	0	1							
Сору	mov	1	0							
Condition	cond	1	1							
Register 0 in	r0i			0	0	0				
Register 1 in	r1i			0	0	1				
Register 2 in	r2i			0	1	0				
	r3i			0	1	1				
Register 4 in	r4i			1	0	0				
Register 5 in	r5i			1	0	1				
	in			1	1	0				
Unused				1	1	1				
Register 0 out	r0o						0	0	0	
	r1o						0	0	1	
	r2o						0	1	0	
	r3o						0	1	1	
	r4o						1	0	0	
	r5o						1	0	1	
	out						1	1	0	
Unused							1	1	1	
Or	or						0	0	0	
	nand						0	0	1	
	nor						0	1	0	
	and						0	1	1	
	add						1		0	
	sub						1	0	1	
Unused							1	1	0	
Unused							1	1	1	
Never	never						0	0	0	
	jeq						0			
	jlt						0			
	jle						0			
	jmp						1			
	jne						1			
Greater than or Equal to 0							1			
	jgt						1			

Instruction Layouts											
_					_			_			
Сору		28 64		16	8		4	2	1		
	Operation		Copy from			Copy to					
Calculation	1	28 64	32	16	8		4	2	1		
	Operation		Unused			Condition					
Condition	1	28 64	32	16	8		4	2	1		
	Operation		Unused			Function					
Immediate	1	28 64	32	! 16	8		4	2	1		
ininediate	Operation	28 04	Value	10	0		4		1		
	орогалог.		raido								
Info											
		"Immediate" is the term for sending a value directly to reg0. The immediate value is marked in the bits 1-6 of the instruction byte.									
	An immediate	value can range fro	m U - 63								
	Calculations a	Calculations always take the values in reg1 and reg2, and do the function on them. Reg1 is on the left of the calculation									
		Example: Addition = reg1 + reg2, Subtraction = reg1 - reg 2									
	Conditions alv	Conditions always take the value in reg3 and compare it against the given condition									
	If the condition	If the condition is evaluated as true, the program counter will jump to the line of code at the value stored in reg0.									
	Th										
		There are only 16 bytes for programming, but you could add more if you wanted.									
	Tou would jus	You would just need to rewire the bus after thr registers.									
	The program	The program bits start at 128 on the left. To program, replace the low constants with high constants and rewire.									
		When you have finished your program, export it as a custom component and then copy and paste it into the main CPU.									
		replace the component at the top of the CPU named "Program" and you should ensure you wire it correctly.									
Assembly Code Syntax		//	1 1-)								
Using the Replit file	mov:	mov (from adr) (to adr)								
	calc / cond:	calc / cond (ope	ration)								
	caic / corld.	caio / cona (ope	auon)								
	imm:	imm (value)									

Conditions are slightly tricky to implement. Because the jump address is always stored in r0, you must send an immediate value to r0 before the jump.								
The immediate value should be the byte of code that you want to jump to, e.g. byte 3, byte 2, etc.								
Your lines of code begin at byte 0, and increment by 1 for each instruction.								
After the immediate instruction, you then add your jump condition, e.g. cond jne.								