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	1	28 64	3:	2 16	8		4	2	1		
	Operation		Copy from			Copy to					
Calculation	1	28 64	3:	2 16	8		4	2	1		
	Operation		Unused			Condition					
Condition	1	28 64	3:	2 16	8		4	2	1		
	Operation		Unused			Function					
Immediate	1	28 64	3:	2 16	8		4	2	1		
	Operation		Value								
Info + Setup											
		"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 0 - 63								
		lways take the value			ction on them. Re	g1 is on the le	eft of the cal	culation			
	Example: Add	ition = reg1 + reg2,	Subtraction = reg	11 - reg 2							
	0 1111										
		vays take the value i									
	If the condition	n is evaluated as tru	e, the program c	ounter will jump to	the line of code a	the value sto	ored in regu	•			
	\\/han program	nming the firstheet l	of hit is the 1994	hit To program o	aammanant aimm	lu rankasa ka	u constants	with high constant	to and require		
	When programming, the furthest left bit is the 128th bit. To program a component, simply replace low constants with high constants and rewire. When finished, package the whole circuit as one component and copy and paste into the processor file.										
		re added it into the fi									
	When you ha	ve added it into the in	ie, rewire it iii pie	dee of the placehol	dei program com	Joneni.					
Setup											
Cottap											
	Togale the PF	E and CLR switches	by the program	component and re	place the program	n component	with your o	vn program.			
	Toggle the PRE and CLR switches by the program component and replace the program component with your own program, Flip the switch by the clock to allow pulses to pass into the processor.										
		he clock to a very fa		·).					
	Change the v										
	Enjoy!										
	, ,										
Assembly Code Syntax											
Using the Replit file	mov:	mov (from adr) (to adr)		*more similary to	сру					

calc / ca	cond: calc / cond (operation	ation)										
imm:	imm (value)											
Condition	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 imr	The immediate value should be the byte of code that you want to jump to, e.g. byte 3, byte 2, etc.											
Your lin	nes of code begin at byte 0,											
After th	ne immediate instruction, you	ump condition, e.g	. cond jne.									