Assembly Processador Infineon C166

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Instruções

- 1. Carrega R3 (o registrador 3) com o valor 5
- 2. Carrega R4 com 8
- 3. Soma R3 com R4 e guarda em R5
- 4. Subtrai 1 de R5
- 5. Salta para o endereço 20
- **6**. No endereço 20, copia R5 para R3
- 7. Salta para a terceira instrução desta lista (R5 <= R3+R4)

Instruction Set Manual:

https://www.infineon.com/dgdl/c166_ism_v2.0_2001_03[1].pdf?fileId=db3a304412b407950 112b41e7dbe32df

1. N	1. MOV R3, #5				
N	VOV	Rw, #data4	Move immediate word data to direct GPR	2	
2 . N	MOV R4, #8				
N	VOV	Rw, #data4	Move immediate word data to direct GPR	2	
3. ADD R3, R4					
A	ADD	Rw, Rw	Add direct word GPR to direct GPR	2	
MOV R5, R3					
N	VOV	Rw, Rw	Move direct word GPR to direct GPR	2	
4. SUB R5, #1					
S	UB	Rw, #data3	Subtract immediate word data from direct GPR	2	
5. JMPS 0, 20					
	JMPS	seg, caddr	Jump absolute to a code segment	4	
6. MOV R3, R5					
N	VOV	Rw, Rw	Move direct word GPR to direct GPR	2	
7. JMPS 0, 3					
	JMPS	seg, caddr	Jump absolute to a code segment	4	