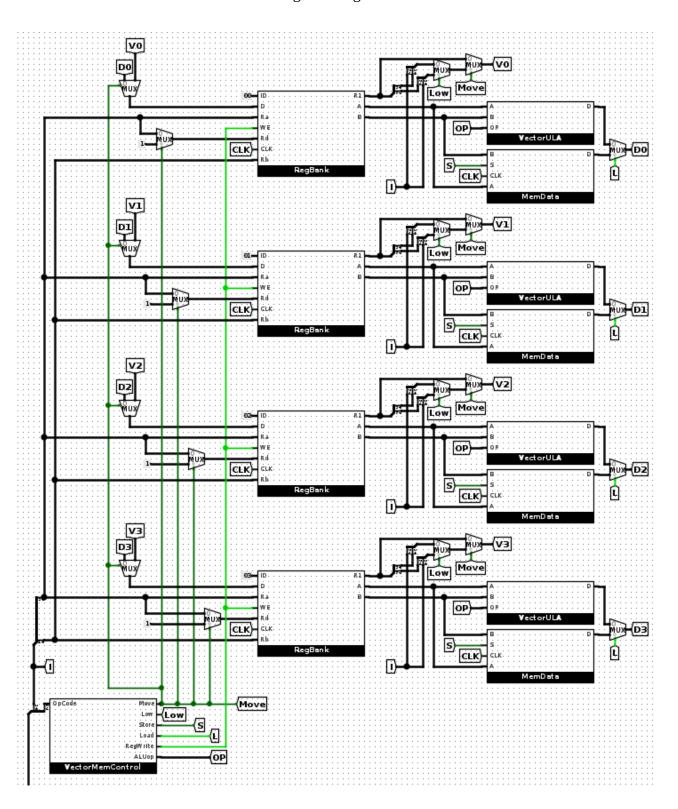
Relatório

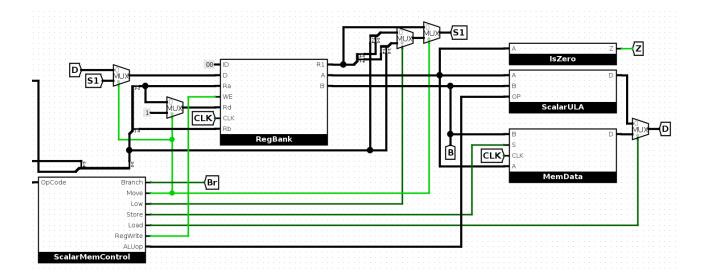
Trabalho 2 — Arquitetura de Computadores Lucas Emanuel de Oliveira Santos — GRR20224379

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I. Diagrama Sagui Vetorial



II. Diagrama Sagui Vetorial



III. Código de teste

Instrução	Descrição	Binário	Hexa
S movh 1111	# R1 = 240	00101111	2F
S movl 1111	# R1 = 255	00111111	3F
S and \$R1 \$R2	# R1 = R1 & R2	01100110	66
S movl 0001	# R1 = 1	00110001	31
S add \$R3 \$R1	# R3 = R3 + R1	01001101	4D
S st \$R1 \$R1	#M[R1] = R1	00010101	15
S ld \$R2 \$R1	# R2 = M[R1]	00001001	09
S sub \$R1 \$R2	# R1 = R1 - R2	01010110	56
V movh 1111	# R1 = 240	10101111	AF
V movl 1111	# R1 = 255	10111111	BF
V and \$R1 \$R2	# R1 = R1 & R2	11100110	E6
V movl 0001	#R1 = 1	10110001	B1
V st \$R1 \$R1	# M[R1] = R1	10010101	95
V ld \$R2 \$R1	# R2 = M[R1]	10001001	89
V add \$R1 \$R2	# R1 = R1 + R2	11000110	C6
V sub \$R1 \$R2	# R1 = R1 - R2	11010110	D6
V or \$R1 \$R2	# R1 = R1 R2	11110110	F6
S brzr \$R1 \$R1	# goto 0	01110101	75
	S movl 1111 S and \$R1 \$R2 S movl 0001 S add \$R3 \$R1 S st \$R1 \$R1 S ld \$R2 \$R1 S sub \$R1 \$R2 V movh 1111 V movl 1111 V and \$R1 \$R2 V movl 0001 V st \$R1 \$R1 V ld \$R2 \$R1 V add \$R1 \$R2 V sub \$R1 \$R2 V sub \$R1 \$R2	S movh 1111 #R1 = 240 S movl 1111 #R1 = 255 S and \$R1 \$R2 #R1 = R1 & R2 S movl 0001 #R1 = 1 S add \$R3 \$R1 #R3 = R3 + R1 S st \$R1 \$R1 #M[R1] = R1 S ld \$R2 \$R1 #R2 = M[R1] S sub \$R1 \$R2 #R1 = R1 - R2 V movh 1111 #R1 = 255 V and \$R1 \$R2 #R1 = R1 & R2 V movl 0001 #R1 = R1 V st \$R1 \$R1 #M[R1] = R1 V ld \$R2 \$R1 #R2 = M[R1] V add \$R1 \$R2 #R1 = R1 & R2 V movl 0001 #R1 = R1 V st \$R1 \$R1 #M[R1] = R1 V ld \$R2 \$R1 #R2 = M[R1] V add \$R1 \$R2 #R1 = R1 + R2 V sub \$R1 \$R2 #R1 = R1 - R2 V or \$R1 \$R2 #R1 = R1 R2	S movh 1111 #R1 = 240 00101111 S movl 1111 #R1 = 255 00111111 S and \$R1 \$R2 #R1 = R1 & R2 01100110 S movl 0001 #R1 = 1 00110001 S add \$R3 \$R1 #R3 = R3 + R1 01001101 S st \$R1 \$R1 #M[R1] = R1 00010101 S ld \$R2 \$R1 #R2 = M[R1] 00001001 S sub \$R1 \$R2 #R1 = R1 - R2 01010110 V movh 1111 #R1 = 240 10101111 V movl 1111 #R1 = 255 10111111 V and \$R1 \$R2 #R1 = R1 & R2 11100110 V movl 0001 #R1 = 1 10110001 V st \$R1 \$R1 #M[R1] = R1 10010101 V st \$R1 \$R1 #M[R1] = R1 10010101 V ld \$R2 \$R1 #R2 = M[R1] 10001001 V add \$R1 \$R2 #R1 = R1 + R2 11000110 V sub \$R1 \$R2 #R1 = R1 - R2 11010110 V sub \$R1 \$R2 #R1 = R1 - R2 11010110 V or \$R1 \$R2 #R1 = R1 R2 11110110