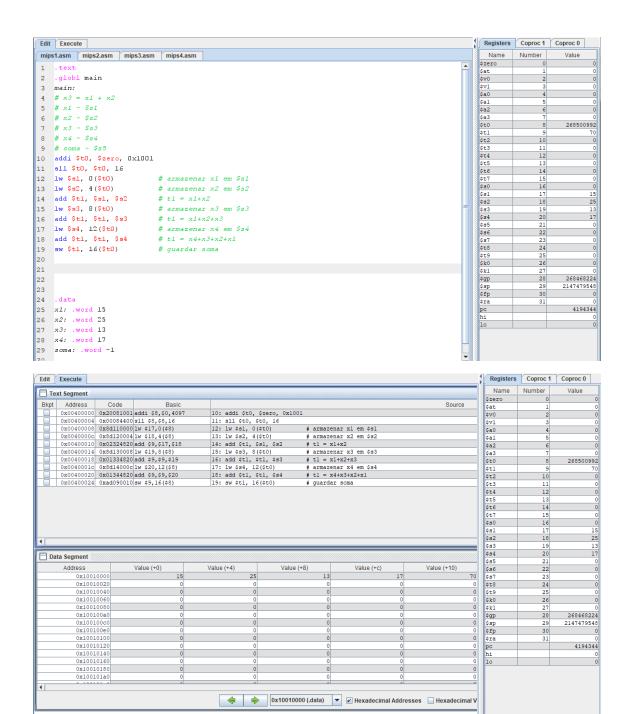
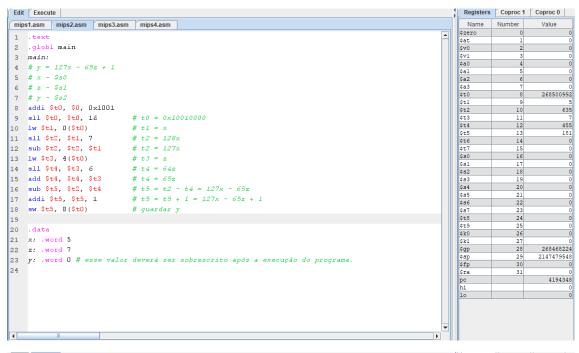
Programa 9:

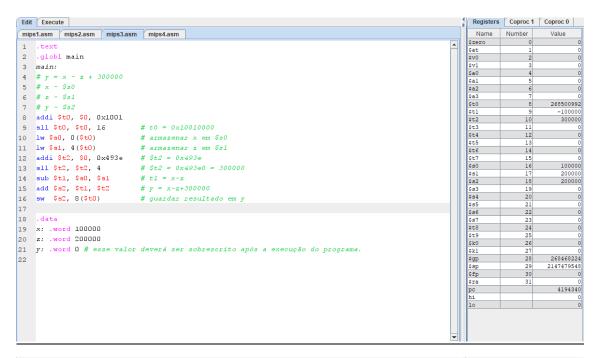


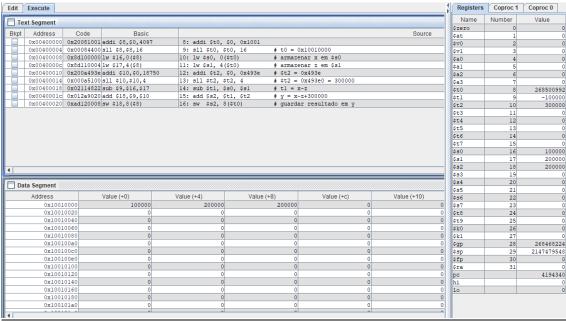
Programa 10:



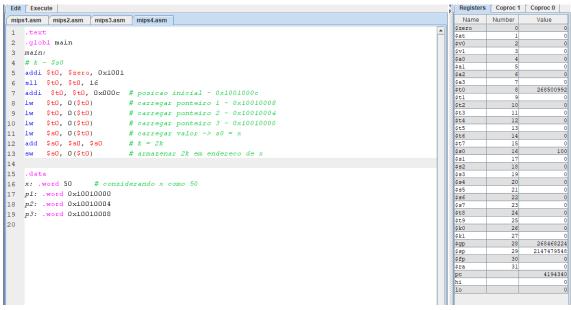
dit	Execute						Re	egisters	Coproc 1	Coproc 0
Tex	t Segment						900000 1	Name	Number	Value
Bkpt		Code Basic				Source	\$ze		0	
		20081001 addi \$8,\$0,4097	8: addi \$t0, \$	0 0×1001		Outree	Şat		2	
		00084400 sll \$8,\$8,16	9: sll \$t0, \$t		10010000		\$v0		3	
		8d090000 lw \$9,0(\$8)	10: lw \$t1, 0(\$				\$v1 \$a0		3	
		000951c0 s11 \$10.\$9.7	11: sl1 \$t2, \$t		Rv.		\$al		5	
		01495022 sub \$10,\$10,\$9	12: sub \$t2, \$t				\$a2		6	
		8d0b0004 lw \$11,4(\$8)	13: 1w \$t3, 4(\$				\$a2		7	
		000b6180 sll \$12,\$11,6	14: sll \$t4, \$t				\$t0		8	26850099
		018b6020 add \$12,\$12,\$11	15: add \$t4, \$t				\$t1		9	20030093
		014c6822 sub \$13,\$10,\$12	16: sub \$t5, \$t		- t4 = 127x - 65z		\$t2		10	63
		21ad0001 addi \$13,\$13,1	17: addi \$t5, \$		+ 1 = 127x - 65z + 1	1	\$t2		11	0.0
		ad0d00008 sw \$13.8(\$8)	18: sw \$t5, 8(\$				\$t4		12	45
					•		\$t5		13	18
							\$t6		14	
							St7		15	
							\$80)	16	
							\$s0 \$s1		16	
								L		
							\$s1	2	17	
D-4	- 6 10000000						\$s1 \$s2	2	17	
] Data	a Segment						\$s1 \$s2 \$s3	2 3	17 18 19	
Data	a Segment Address	Value (+0)	Value (+4)	Value (+8)	Value (+c)	Value (+10)	\$s1 \$s2 \$s3 \$s4	2 3 4	17 18 19 20	
Data			Value (+4) 7	Value (+8)	Value (+c)	Value (+10)	\$s1 \$s2 \$s3 \$s4 \$s5	2 3 4 5	17 18 19 20 21	
Data	Address	0 5				Value (+10)	\$81 \$82 \$83 \$84 \$85 \$85	2 3 4 5	17 18 19 20 21 22	
Data	Address 0x1001000	5 0	7	181	0	Value (+10)	\$81 \$82 \$83 \$84 \$85 \$86 0 \$87	3	17 18 19 20 21 22 23	
Data	Address 0x1001000 0x1001002	0 5 0 0 0 0	7 0	181	0	Value (+10)	\$s1 \$s2 \$s3 \$s4 \$s5 \$s6 0 \$s7	1 2 2 3 3 4 5 5 5 7 7 3 3 9 9	17 18 19 20 21 22 23 24	
Data	Address 0x1001000 0x1001002 0x1001004	0 5 0 0 0 0	7 0 0	181 0 0	0 0	Value (+10)	\$81 \$82 \$83 \$84 \$85 \$86 0 \$87 0 \$18	2 2 3 3 4 5 5 5 7 7 8 3 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	17 18 19 20 21 22 23 24 25	
Data	Address 0x1001000 0x1001002 0x1001004 0x1001006	0 5 0 0 0 0 0 0	7 0 0	181 0 0	0 0 0	Value (+10)	\$81 \$82 \$83 \$84 \$85 \$86 0 \$87 0 \$18 0 \$19 0 \$19	2 2 3 3 4 5 5 5 7 7 8 3 9 9 9 9 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	17 18 19 20 21 22 23 24 25 26	2684682:
) Data	0x1001000 0x1001002 0x1001004 0x1001006 0x1001008	5 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	7 0 0 0	181 0 0 0 0	0 0 0 0	Value (+10)	\$s1 \$s2 \$s3 \$s4 \$s5 \$s5 \$s6 0 \$s7 0 \$t8 0 \$t9 0 \$k0	1 2 3 3 4 5 5 5 7 7 8 3 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	17 18 19 20 21 22 23 24 25 26 27	
Data	Address 0x1001000 0x1001002 0x1001004 0x1001006 0x1001008	5 5 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	7 0 0 0 0	181 0 0 0 0 0	0 0 0 0 0	Value (+10)	\$31 \$32 \$33 \$34 \$35 \$36 \$36 \$37 \$46 \$57 \$6 \$6 \$6 \$6 \$6 \$6 \$6 \$6 \$6 \$6 \$6 \$6 \$6	1 2 3 3 4 5 5 5 5 7 7 3 3 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	17 18 19 20 21 22 23 24 25 26 27 28	
	Address 0x1001000 0x1001002 0x1001004 0x1001006 0x1001008 0x100100a	5 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	7 0 0 0 0 0 0	181 0 0 0 0 0 0	0 0 0 0 0	Value (+10)	\$31 \$32 \$33 \$34 \$35 \$35 \$36 \$37 \$37 \$48 \$48 \$48 \$48 \$48 \$48 \$48 \$48 \$48 \$48	1 2 2 3 3 4 5 5 5 5 7 7 8 3 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	17 18 19 20 21 22 23 24 25 26 27 28	
	Address 0x1001000 0x1001002 0x1001004 0x1001006 0x1001000 0x1001000 0x1001000 0x1001000 0x1001000	00	7 0 0 0 0 0 0 0 0	181 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0	Value (+10)	\$31 \$32 \$33 \$34 \$35 \$36 \$36 \$37 \$36 \$37 \$48 \$37 \$48 \$37 \$48 \$48 \$48 \$48 \$48 \$48 \$48 \$48 \$48 \$48	1 2 2 3 3 4 5 5 5 5 7 7 8 3 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	17 18 19 20 21 22 23 24 25 26 27 28 29	21474795
	Address	5 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	7 0 0 0 0 0 0	181 0 0 0 0 0 0	0 0 0 0 0 0 0 0	Value (+10)	\$31 \$22 \$33 \$35 \$35 \$35 \$35 \$35 \$35 \$35 \$35 \$35	1 2 2 3 3 4 5 5 5 5 7 7 8 3 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	17 18 19 20 21 22 23 24 25 26 27 28 29	21474795
	Address 0x1001000 0x1001002 0x1001004 0x1001004 0x1001008 0x1001008 0x1001000 0x1001000 0x1001000 0x10010100 0x1001010	00 5 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	7 0 0 0 0 0 0 0 0 0 0	181 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0	Value (+10)	Sel Sel	1 2 2 3 3 4 5 5 5 5 7 7 8 3 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	17 18 19 20 21 22 23 24 25 26 27 28 29	21474795
Data	Address	00 5 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	7 0 0 0 0 0 0 0 0	181 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0	Value (+10)	\$31 \$22 \$33 \$35 \$35 \$35 \$35 \$35 \$35 \$35 \$35 \$35	1 2 2 3 3 4 5 5 5 5 7 7 8 3 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	17 18 19 20 21 22 23 24 25 26 27 28 29	26846822 214747954 419434

Programa 11:





Programa 12:



Execute						Registers	Coproc 1	Coproc 0
Text Segment						Name	Number	Value
		000000000000000000000000000000000000000	xxxxxxxxxxxxxxxxxxxxx		***************************************	\$zero	0	
ot Address Code					Source	_ \$at	1	
	1001 addi \$8,\$0,4097	5: addi \$t0, \$ze				\$v0	2	
0x00400004 0x0008		6: sll \$t0, \$t0				\$v1	3	
0x00400008 0x2108			0, 0x000c # posicao :			\$a0	4	
0x0040000c 0x8d08		8: lw \$t0, 0(\$		ponteiro 1 - 0x100100		\$al	5	
0x00400010 0x8d08		9: lw \$t0, 0(\$		ponteiro 2 - 0x100100		\$a2	6	
0x00400014 0x8d08		10: lw \$t0, 0(\$		ponteiro 3 - 0x100100	000	\$a3	7	
0x00400018 0x8d10		11: lw \$s0, 0(\$		valor -> s0 = x		\$t0	8	268500
	8020 add \$16,\$16,\$16	12: add \$s0, \$s0				\$t1	9	
0x00400020 0xad10	0000 sw \$16,0(\$8)	13: sw \$s0, 0(\$	t0) # armazena:	r 2k em endereco de x		\$t2	10	
						\$t3	11	
						\$t4	12	
						\$t5	13	
							14	
						\$t6		
						\$t6 \$t7	15	
						\$t7	15	
						\$t7 \$s0	15 16	
						\$t7 \$s0 \$s1	15 16 17	
D-1- 6						\$t7 \$s0 \$s1 \$s2	15 16 17 18	
Data Segment						\$t7 \$s0 \$s1 \$s2 \$s3	15 16 17 18 19	
Data Segment Address	Value (+0)	Value (+4)	Value (+8)	Value (+c)	Value (+10)	\$t7 \$s0 \$s1 \$s2 \$s3 \$s4	15 16 17 18 19 20	
	Value (+0) 100	Value (+4) 268500992	Value (+8) 268500996	Value (+c)		\$t7 \$s0 \$s1 \$s2 \$s3 \$s4 \$s5	15 16 17 18 19 20 21	
Address		. ,				\$17 \$80 \$81 \$82 \$83 \$84 \$85 \$86	15 16 17 18 19 20 21 22	
Address 0x10010000	100	268500992	268500996	268501000		\$t7 \$s0 \$s1 \$s2 \$s3 \$s4 \$s5 \$s6 \$s7	15 16 17 18 19 20 21 22 23	
Address 0x10010000 0x10010020	100	268500992 0	268500996 0	268501000 0		\$t7 \$s0 \$s1 \$s2 \$s3 \$s4 \$s5 \$s6 \$s7 \$t8	15 16 17 18 19 20 21 22 23 24	
Address 0x10010000 0x10010020 0x10010040	100 0 0	268500992 0 0	268500996 0 0	268501000 0 0		\$t7 \$s0 \$s1 \$s2 \$s3 \$s4 \$s5 \$s6 0 0 \$s7 0 \$t8	15 16 17 18 19 20 21 22 23 24 25	
Address 0x10010000 0x10010020 0x10010040 0x10010060	100 0 0	268500992 0 0	268500996 0 0	268501000 0 0		\$t7 \$50 \$51 \$52 \$53 \$54 \$55 \$56 \$56 \$57 \$58 \$58 \$58 \$58 \$58 \$58 \$58 \$58 \$58 \$58	15 16 17 18 19 20 21 22 23 24 25 26	
Address 0x10010000 0x10010020 0x10010040 0x10010060 0x10010080	100 0 0 0 0	268500992 0 0 0	268500996 0 0 0	268501000 0 0 0		\$17 \$80 \$81 \$82 \$83 \$84 \$85 \$86 \$86 \$6 \$7 \$86 \$86 \$86 \$86 \$86 \$86 \$86 \$86 \$86 \$86	15 16 17 18 19 20 21 22 23 24 25 26 27	268468
Address 0x10010000 0x10010020 0x10010040 0x10010060 0x10010080 0x100100a0	100 0 0 0 0 0	268500992 0 0 0 0 0	268500996 0 0 0 0	268501000 0 0 0 0		5t7 \$a0 \$a1 \$a2 \$a3 \$a4 \$a5 \$a6 \$a7 \$t0 \$t0 \$t0 \$t0 \$t0 \$t0 \$t0 \$t0	15 16 17 18 19 20 21 22 23 24 25 26 27	268468
Address 0x10010000 0x10010020 0x10010040 0x10010060 0x10010080 0x100100a0 0x100100c0	100 0 0 0 0 0	268500992 0 0 0 0 0 0	268500996 0 0 0 0 0	268501000 0 0 0 0 0		5t7 5s0 5s1 6s2 6s3 5s4 6s5 5s6 0 6t8 0 6t8 0 6t8 0 6t8 0 6k0 0 6k0 0 6k0 0 6k0 0 6k0 0 6k0 0 6k0	15 16 17 18 19 20 21 22 23 24 25 26 27 28	268468
Address 0x10010000 0x10010020 0x10010020 0x10010040 0x10010060 0x10010080 0x10010080 0x10010080 0x10010080	100 0 0 0 0 0 0 0	268500992 0 0 0 0 0 0 0	268500996 0 0 0 0 0 0 0	268501000 0 0 0 0 0 0 0		5t7 5s0 6s1 6s2 6s3 6s4 6s5 6s6 0 6s7 0 5t8 0 5t	15 16 17 18 19 20 21 22 23 24 25 26 27 28 29	268468 2147479
Address 0x10010000 0x10010020 0x10010040 0x10010040 0x10010060 0x10010080 0x10010080 0x10010080 0x10010080 0x10010080	100 0 0 0 0 0 0 0 0	268500992 0 0 0 0 0 0 0 0 0	268500996 0 0 0 0 0 0 0 0	268501000 0 0 0 0 0 0 0		St7 Sa0 Sa1 Sa2 Sa4 Sa5 Sa6 Sa7 O St9 O St0 Sk1 O Sap	15 16 17 18 19 20 21 22 23 24 25 26 27 28 29	268468 2147479
Address 0x10010000 0x10010020 0x10010020 0x10010040 0x10010060 0x10010080 0x10010080 0x10010080 0x10010000 0x10010000 0x10010000 0x10010000 0x10010000	100 0 0 0 0 0 0 0 0 0	268500992 0 0 0 0 0 0 0 0 0 0	268500996 0 0 0 0 0 0 0 0 0	268501000 0 0 0 0 0 0 0 0 0		6t7 6a0 6s1 6s1 6s2 6s3 6s4 6s5 6s6 0 6t8 0 6t9 0 6t9 0 6k1 0 6t9 0 6k1 0 6sp 0 6sp 0 6sp	15 16 17 18 19 20 21 22 23 24 25 26 27 28 29	268468 2147479
Address 0x10010000 0x100101000 0x100101000 0x100101000	100 0 0 0 0 0 0 0 0 0 0	268500992 0 0 0 0 0 0 0 0 0 0	268500996 0 0 0 0 0 0 0 0 0	268501000 0 0 0 0 0 0 0 0 0		6c7 6a0 6a1 6a2 6a3 6a4 6a5 6a6 0 6a7 6a6 0 6c6 0 6c6 0 6c6 0 6c6 0 6c7 6c6 0 6c6 0 6c6 0 6c7	15 16 17 18 19 20 21 22 23 24 25 26 27 28 29	268468 2147479 4194