ESTADO INICIAL DE LA MEMORIA

	Caché P0			
posición	0	1	2	3
pal-0				
pal-1				
pal-2				
pal-3				
etiq	-1	-1	-1	-1
Estado	I	I	I	I

Sec	Sección Mem Compartida en P0				
	0	0		64	0
0	4	0	4	68	0
	8	0	7	72	0
	12	0		76	0
	16	0		80	0
1	20	0	5	84	0
'	24	0	ວ	88	0
	28	0		92	0
	32	0		96	0
2	36	0	6	100	0
	40	0	U	104	0
	44	0		108	0
	48	0		112	0
3	52	0	7	116	0
3	3 56 0 <i>i</i>	•	120	0	
	60	0		124	0

et.	ins	strucción	resultado	codificada	HIL
	DADDI	R4 ,R0 ,#4	R4 = 4	8044	
	DADDI	R1, R0, #15	R1 = 15	8 0 1 15	
	DADDI	R20, R0, #24	R20 = 24	8 0 20 24	
	DADDI	R2, R0, #0	R2 = 0	8020	
Allá	DADDI	R5, R0, #1000	R5 = 1000	8 0 5 1000	
AHÍ	DSUB	R5, R5, R1	R5 -= 1	34 5 1 5	
	BNEZ	R5, AHÍ	Ejecuta el salto mil veces	5 5 0 -2	
	SW	R1, 0(R2)	M[R2] = 15	43 2 1 0	
	SW	R1, 4(R2)	M[R2+4] = 15	43 2 1 4	
	SW	R1, 8(R2)	M[R2+8] = 15	43 2 1 8	1
	SW	R1, 12(R2)	M[R2+12] = 15	43 2 1 12	
	DSUB	R20, R20, R4	R20 -= 4	34 20 4 20	
	DADDI	R2, R2, #16	R2 +=16	8 2 2 16	
	BNEZ	R20, Allá	Ejecuta el salto 5 veces	5 20 0 -10	1
	DADDI	R31, R0, #99	R31= 99	8 0 31 99	
	SW	R31, 100(R0)	M[100] = 99	43 0 31 100	
	LW	R13, 92(R0)	R13= M [92] =15	35 0 13 92	1
	LW	R12, 0 (R0)	R12 = M [0] = 15	35 0 12 0	
	LW	R14, 28(R0)	R14 = M[28] = 15	35 0 14 28	1
	LW	R15, 120(R0)	R15 = M[120] = 0	35 0 15 0	
	FIN		FINALIZA	63 0 0 0	

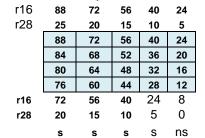
se guarda un 15 en esas direcciones de memoria

2	0	16	32	48	64	80	96	
20	24	20	16	12	8	4		
	0	16	32	48	64	80		
	4	20	36	52	68	84		
	8	24	40	56	72	88		
	12	28	44	60	76	92		
r2	16	32	48	64	80	96		
r20	20	16	12	8	4	0		

M[100] = 99
R13= M [92] =15
R12 = M [0] = 15
R14 = M[28] = 15
R15 = M[120] = 0

	DADDI	R4 ,R0 ,#5	R4 = 5	8 0 4 5
	DADDI	R2, R0, #-48	R2 = -48	8 0 2 -48
	DADDI	R28, R0, #25	R28 = 25	8 0 28 25
	DADDI	R16, R0, #88	R16= 88	8 0 16 88
ALLÁ	DADDI	R5, R0, #1000	R5 = 1000	8 0 5 1000
	SW	R2, 0(R16)	M[R16] =-48	43 16 2 0
	SW	R2, -4(R16)	M[R16+-4] = -48	43 16 2 -4
	SW	R2, -8(R16)	M[R16+-8] = -48	43 16 2 -8
	SW	R2, -12(R16)	M[R16+-12] = -48	43 16 2 -12
	DSUB	R28, R28, R4	R28 -= 5	34 28 4 28
	DADDI	R16, R16, #-16	R16 -=16	8 16 16 -16
AQUÍ	DADDI	R5, R5, #-1	R5 -= 1	8 5 5 -1
	BNEZ	R5, AQUÍ	Ejecuta el salto mil veces	5 5 0 -2
	BNEZ	R28, ALLÁ	Ejecuta el salto 4 veces	5 28 0 -10
	DADDI	R31, R0, #77	R31= 77	8 0 31 77
	SW	R31,0(R0)	M[0] = 77	43 0 31 0
	LW	R13, 92(R0)	R13= M [92] = 15	35 0 13 92
	LW	R11, 100 (R0)	R11 = M [100] = 99	35 0 11 100
	LW	R14, 28(R0)	R14 = M[28] = -48	35 0 14 28
	LW	R15, 120 (R0)	R15 = M[120] = 0	35 0 15 120
	FIN		FINALIZA	63 0 0 0

se guarda un -48 en esas posiciones de memoria



77 en pal 0 de bloque 0

R13, 92(R0)	15
R11, 100 (R0)	99
R14, 28(R0)	-48
R15, 120 (R0)	0

DADI	R4 ,R0 ,#4	R4 = 4	8044		
DADI	N R3, R0, #3	R3= 3	8033		
DADI	N R28, R0, #15	R28 = 15	8 0 28 15		
DADI	N R24, R0, #104	R24 = 104	8 0 24 104		
ALLÍ DADI	N R5, R0, #1000	R5 = 1000	8 0 5 1000		
SW	R3, 0(R24)	M[R24] = 3	43 24 3 0		se guarda el valor 3 en esas dir de mem
SW	R3, 4(R24)	M[R24+4] = 3	43 24 3 4		r24 104 112 120
ACÁ DADI	N R5, R5, #-1	R5 -= 1	8 5 5 -1		r28 <u>15 10 5</u>
BNE	Z R5, ACÁ	Ejecuta el salto mil veces	5 5 0 -2		104 112 120
DSU	R28, R28, R4	R28 -= 4	34 28 4 28	3	108 116 124
DADI	DI R24, R24, #8	R24 +=8	8 24 24 8		r24 112 120 128
BNE	R28, ALLÍ	Ejecuta el salto 2 veces	5 28 0 -10		r28 10 5 0
DADI	N R31, R0, #55	R31= 55	8 0 31 55		
SW	R31, 92(R0)	M[92] = 55	43 0 31 92		M 92= 55
LW	R11, 96 (R0)	R11 = M [96] = 0	35 0 11 96		R11 = M [96] = 0
LW	R12 ,104 (R0)	R12 = M [104] = 3	35 0 12 104		R12 = M [104] = 3
LW	R14, 28(R0)	R14 = M[28] = -48	35 0 14 28		R14 = M[28] = -48
LW	R15, 0 (R0)	R15 = M[0] = 77	35 0 15 0		R15 = M[0] =77
FIN		FINALIZA	63 0 0 0		1 1

		R4 ,R0, #222	R4 = 222	8 0 4 222	
	DADDI	R3, R0, #0	R3 = 0	8030	
	DSUB	R30, R30, R30	R30 = 0	34 30 30 30	
	DSUB	R10, R10, R10	R10 = 0	34 10 10 10	
	DADDI	R25, R0, #72	R25 = 72	8 0 25 72	
	DADDI	R8, R0, #8	R8 = 8	8088	
ETI	LW	R5, 0(R25)	R5 = M[R25] = -48 y -48	35 25 5 0	
	LW	R6, 4 (R25)	R6 = M[R25 + 4] = -48 y 55	35 25 6 4	
	DADD	R3, R5, R6	R3 = R5 + R6 = -96 y 7	32 5 6 3	
	DADD	R30, R30, R3	R30 += R3 = -96 y -185	32 30 3 30	
	SW	R4, 0(R25)	M[R25] = M[72] = 222 y M[88] = 222	43 25 4 0	
	SW	R4, 4 (R25)	M[R25 + 4] = M[76] = 222 y M[92] = 222	43 25 4 4	
	LW	R5, 8(R25)	R5 = M[R25+8] = M[80] = -48 y R5 = M[96] = 0	35 25 5 8	
	LW	R6, 12(R25)	R6 = M[R25 + 12] = -48 y 99	35 25 6 12	4
	DADD	R10, R5, R6	R10 = R5 + R6 = -96 y 99	32 5 6 10	
	SW	R4, 8(R25)	M[R25 + 8] = M[80] = 222 y M[96] = 222	43 25 4 8	
	SW	R4, 12(R25)	M[R25 + 12] = M[84] = 222 y M[100] = 222	43 25 4 12	
	DADD	R30, R30, R10	R30 += R10 = -192 y -86	32 30 10 30	
	DADDI	R8, R8, # -4	R8 -= 4	888-4	
	DADDI	R25, R25, # 16	R25 += 16 = 104	8 25 25 16	
	BNEZ	R8, ETI	Salta 1 vez	5 8 0 -15	
	SW	R30, 20(R0)	M[20] = R30 = -86	43 0 30 20	
	BEQZ	R8, END	SALTA	4801	
	SW	R25, 24 (R0)	NO SE DEBE EJECUTAR	43 0 25 24	
END	DADDI	R31, R0, #44	R31 = 44	8 0 31 44	
	SW	R31, 28 (R0)	M[28] = 44	43 0 31 28	
	LW	R11, 100 (R0)	R11 = M [100] = 222	35 0 11 100	
	LW	R12, 0 (R0)	R12 = M [0] = 77	35 0 12 0	
	LW	R13, 104(R0)	R13= M [104] = 3	35 0 13 104	
	LW	R15, 120 (R0)	R15 = M[120] = 3	35 0 15 120	
	FIN		FINALIZA	63 0 0 0	

r25	72	88
r8	8	4
r5	-48	-48
r6	-48	55
r3	-96	7
r30	-96	-185

Se guarda un **222** en posiciones de memoria: 72 88

	76	92
r5	-48	0
r6	-48	99
r10	-96	99
	80	96
	84	100
r30	-192	-86
r25	88	104
r8	4	0

M[20] = R30 = -86

R31 = 44

M[28] = R31= **44**

R11= M[100] = **222**

R12= M[0] = **77**

R13= M[104] = **3**

R15= M[120] = **3**

Al fin del hilo 1

	Caché P0				
posición	0	1	2	3	
pal-0	15	15	0	0	
pal-1	15	15	99	0	
pal-2	15	15	0	0	
pal-3	15	15	0	0	
etiq	0	1	6	7	
Estado	С	С	М	С	

Sección Mem Compartida en P0					
	0	15		64	15
0	4	15	4	68	15
U	8	15	4	72	15
	12	15		76	15
	16	15		80	15
1	20	15	5	84	15
'	24	15	5	88	15
	28	15		92	15
	32	15	6	96	0
2	36	15		100	0
	40	15		104	0
	44	15		108	0
	48	15		112	0
3	52	15	7	116	0
3	56	15	'	120	0
	60	15		124	0

R15 se guarda un **15** en esas direcciones de memo

R0

R1 R2

R3 R4

R5

R6

R7

R8

R9 R10

R11

R14 15

R17 R18

R19

R20 R21

R22

R23

R24

R25 R26

R27

R28

R20

R30

R31

0 15

96

4

0

0

0

0

0

0 R12 **15** R13 15

0

0

0

0

0

0

0

0

0

0

0

0

0

2	0	16	32	48	64	80
4	24	20	16	12	8	4
	0	16	32	48	64	80
	4	20	36	52	68	84
	8	24	40	56	72	88
	12	28	44	60	76	92

20 16 12 8 4 0

M[100] = 99R13= M [92] =15 R12 = M [0] = 15 R14 = M[28] = 15R15 = M[120] = 0R15 = M[120] = 0

Al fin de hilo 2, así que corrió el 1

	Caché P0				
posición	0	1	2	3	
pal-0	77	-48	0	0	
pal-1	15	-48	99	0	
pal-2	15	-48	0	0	
pal-3	-48	-48	0	0	
etiq	0	1	6	7	
Estado	М	M	С	С	

Sección Mem Compartida en PO 1 0 15							
0 4 15 4 68 -48 8 15 76 -48 12 15 76 -48 20 15 80 -48 24 15 84 -48 28 15 92 15 32 -48 96 0 36 -48 6 100 99 40 -48 104 0 44 -48 108 0 48 -48 7 116 0 56 -48 7 120 0	Sección Mem Compartida en P0						
1 1 2 15 76 -48 1 1 16 15 80 -48 2 15 80 -48 2 15 84 -48 2 15 92 15 2 2 15 92 15 2 36 -48 6 100 99 4 0 -48 4 -48 4 4 -48 108 0 4 8 -48 7 112 0 5 6 -48 7 116 0 1 20 0		0	15		64	-48	
8 15 72 -48 12 15 76 -48 20 15 80 -48 24 15 84 -48 28 15 92 15 32 -48 96 0 36 -48 6 100 99 40 -48 108 0 48 -48 12 0 55 -48 7 116 0 120 0	0	4	15	4	68	-48	
16 15 84 -48 88 -48 88 -48 92 15 92 15 100 99 104 0 108 0 120 0 120 0	U	8	15	-	72	-48	
1 20 15 5 84 -48 88 -48 92 15 92 15 15 96 0 104 0 108 0 108 0 120 0 120 0		12	15		76	-48	
24 15 88 -48 28 15 92 15 28 15 96 0 36 -48 6 100 99 40 -48 44 -48 44 -48 108 0 48 -48 56 -48 7 116 0 120 0		16	15		80	-48	
24 15 88 -48 28 15 92 15 28 32 -48 96 0 36 -48 6 100 99 40 -48 44 -48 108 0 48 -48 7 112 0 120 0	4	20	15	5	84	-48	
32 -48 96 0 36 -48 6 100 99 40 -48 104 0 44 -48 112 0 52 -48 7 116 0 100 99 104 0 108 0 116 0 116 0 120 0	•	24	15		88	-48	
2 36 -48 40 -48 44 -48 108 0 48 -48 7 112 0 52 -48 7 116 0 100 99 104 0 108 0 112 0 116 0 120 0		28	15		92	15	
40 -48 108 0 44 -48 108 0 48 -48 112 0 52 -48 7 116 0 104 0 108 0 112 0 116 0 120 0		32	-48	6	96	0	
40 -48 104 0 44 -48 108 0 48 -48 112 0 52 -48 7 116 0 56 -48 7 120 0	2	36	-48		100	99	
3 48 -48 7 112 0 52 -48 7 116 0 120 0	_	40	-48		104	0	
3 52 -48 7 116 0 56 -48 7 120 0		44	-48		108	0	
3 56 -48 7 120 0		48	-48		112	0	
56 -48 120 0	2	52	-48	7	116	0	
60 -48 124 0	3	56	-48	'	120	0	
		60	-48		124	0	

se guarda un -48 en estas dir de mem

88	72	56	40	24
84	68	52	36	20
80	64	48	32	16
76	60	44	28	12

77 en pal 0 de bloque 0

R13, 92(R0)	15
R11 , 100 (R0)	99
R14, 28(R0)	-48
R15, 120 (R0)	0

R0	0
R1	0
R2	-48
R3	0
R4	5
R5	0
R6	0
R7	0
R8	0
R9	0
R10	0
R11	99
R12	0
R13	15
R14	-48
R15	0
R16	8
R17	0
R18	0
R19	0
R20	0
R21	0
R22	0
R23	0
R24	0
R25	0
R26	0
R27	0
	_
R28	0
R28 R20	0
. (_0	

Al fin de hilo 3, así que corrieron el 1 y 2

	Caché P0					
posición	0 1 2					
pal-0	77	-48	0	3		
pal-1	15	-48	99	3		
pal-2	15	-48	3	3		
pal-3	-48	-48	3	3		
etiq	0	1	6	7		
Estado	M	С	М	М		

Sección Mem Compartida en P0						
0	0	15		64	-48	
	4	15	4	68	-48	
U	8	15	-	72	-48	
	12	15		76	-48	
	16	-48	5	80	-48	
1	20	-48		84	-48	
•	24	-48		88	-48	
	28	-48		92	55	
	32	-48	6	96	0	
2	36	-48		100	99	
	40	-48		104	0	
	44	-48		108	0	
	48	-48		112	0	
3	52	-48	7	116	0	
3	56	-48		120	0	
	60	-48		124	0	

se guarda el valor **3** en esas dir de mem r24 104 112 120 r28 15 10 5 104 112 120 108 116 124

r24 112 120 128 r28 10 5 0

M[92]= **55**

R11 = M [96] = 0 R12 = M [104] = 3 R14 = M[28] = -48 R15 = M[0] =77

R0 0 R1 0 R2 0 R3 3 R4 4 R5 0 R6 0 R7 0 R8 0 R9 0 R10 0 R11 0 R12 3 R13 0 R14 -48 R15 77 R16 0 R17 0 R18 0 R19 0 R20 0 R21 0 R22 0 R23 0 R24 **128** R25 0 R26 0 R27 0 R28 0 R20 0 R30 0

R31 **55**

Al fin de hilo 4, así que corrieron el 1, 2 y 3

	Caché P1					
posición	0	1	2	3		
pal-0	77	-48	222	3		
pal-1	15	-86	222	3		
pal-2	15	-48	3	3		
pal-3	-48	44	3	3		
etiq	0	1	6	7		
Estado	С	M	М	М		

Sección Mem Compartida en P0							
	0	77		64	-48		
0	4	15	4	68	-48		
U	8	15	4	72	222		
	12	-48		76	222		
	16	-48		80	222		
1	20	-48	5	84	222		
'	24	-48	Э	88	222		
	28	-48		92	222		
	32	-48		96	0		
2	36	-48	6	100	99		
	40	-48	0	104	0		
	44	-48		108	0		
	48	-48		112	0		
3	52	-48	7	116	0		
3	56	-48	′	120	0		
	60	-48		124	0		

72 r25 88 r8 8 4 r5 -48 -48 r6 -48 55 -96 7 r3 r30 -96 -185

Se guarda un 222 en posiciones de memo RS

76 92 r5 -48 -48 r6 99 r10 -96 99 80 96 84 100 r30 -192 -86 88 r25 104 4 r8 0

M[20] = R30 = -86 R31 = 44 M[28] = R31= 44 R11= M[100] = 222 R12= M[0] = 77 R13= M[104] = 3 R15= M[120] = 3

R3 7 R4 222 R5 R6 99 R7 0 R8 0 R9 0 R10 99 R11 **222** R12 77 3 R13 R14 0 R15 3 R16 R17 R18 0 R19 0 R20 0 R21 R22 R23 R24 R25 104 R26 0 R27 0 R28 0 R20 R30 **-86**

R31 **44**

R0 0

R1 0

R2