AbdelRahmon A	le Abel	otah S	Sheet 3	170122	96 NOTES
(1) a) ii	1 Date	2.			
			e i		
6) ii)	Date	2			
ن ن	Stru	ctural		3	
6	. 0 1.	. /			
2) a) i	JRA	W			
b) <u>ii</u>	· J W	łR .			
c) <u>i</u>	VI No	ne	14 13		
3 a) N	ote th	at scoreboar	d falous is	are no WAV	for instruction
N	or St	ruct was no	Ford.		
. J.	f cann	of be issued	because it he	not be resued	dience with I'
• }	2 Can	not be issued	615 14 car	anot be assued	
(a) Ir	status-	Issued	Operands	Execution Completed	Result
7	T1 /	Ves	Yes	(ONJECT CK	NV MIGGEL
	I2	Yes	10000		
	I3	Yes			The second secon
	I4	No			
	I5	No			
wet a					

Nile

1

-			A 1					
	Busy	Op.	Dest	Source 1	Source 2	Unit.	1 United	Roy 1 Roy 2
£01	Yes	ADDI	R5	R5				No
FU2	Yes	LF	F3	RS		FU1	13	No
FU3	Yes	APPE	F4	F3	FO			Yes Yes
FU4	THE RESERVE TO SHARE THE PARTY OF THE PARTY				J.M	u day		
FU5	No							
Registo	chle				,			
Registo	naçus						4 ,4	
Reg.	\ En	F1	F2	F3 F	4 F5	TRE		
F()	1		12	-	13	FU		
				11		1102		
	S. ONE			and the second	nolow	- 123	- Sign	
(A) Nam	dependen	Ce:	1 300					
		W	en tous e	instruction	use the	Lane !	regicto	ar
1	e de la	Ma	many loc	abin, colle	ed a na	ne bu	Here	\$ 40
	- 1	1	an of	abin, colle dala b	etween	rugh	uctions	
		a	Bocrate	I with	that w	me	1.1	
_ 2	lypes						· Market	
1-	antidepen	idence;	when	y writes	to have	i	Reads	
	ADD	R1,	R3, 1	24				
	LD	R4	,0(1	20)	use a	Ville	rent n	me
	, , ,			>	R5			
2-0	out put f	refendance	e: wh	en i and	wite	to the	Sove no	re
	ADP	R4			/			
	LO	R4,	0(R	0)				
Mila		1			-R5			
STATIONERIE	5							

) Assumptions	NOTES
1.5→F2	
2. highest address -> R 3. lowest address -8.	1 Clamata Caram
3. lowest address -8.	→R2
87-386	
LOOP:	
L.D	F0, 0(R1)
ADD. D	F4, F0, F2
S.D	F4, O(R1)
DADDUI	R1, R1,#8
BNE	R1, R2, Loop
	BRANK AND AND ROOM
Scheduled;	
root.	
LP	FO, O(R1)
ADDI	OI R1, R1, #-8
A00.	0 F4, F0, F2
Stall	
Stoll	
5.0	F4, 8(R1)
BNE	R1, R2, LOOP
	FI 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4
020	
NIIE	

6 unrolled logo:

L00 P:	L.D	f	=0,	o(R1)	- 3			A.A.	
	ADD.D		F4	FO. F.	2	F			
	SOD		F4 ((R1)		;	drgo	DADO	ILBN
	L.0			-8 (R1)					
	ADD.D			, F6,F					
123/11	5.0			-866		j	1/	11	U
	L. 0			-16(1					
	ADD. 0								
	5.0		F12.	F10,	(RL)	٠	11	11	-11
	BAOOU		F4	, -24(
	BAFA	+ DO. O	Fl6	, F14,	F2				
	5.D			, - 24					
	DADU		R1	, R1,	# - 3	2	-1	K TANKIN	Ý.
	BNE			1, R2,					
9 Lo	op:	L.D		F6,0	(R1)				
		D	-		8(R1)				
		1.0		F10,					
-		L.D			-24(1				
		AOD. (F4,					
_		ADD. (F8,					
		ADD. 0			Flo				
	,	400.0		F 16	, ,	, F			
		5.0		F4	, oli	-			
		5. D		£8	-01	R1)		
	0	ADDUJ		R1	. 01	,			
		5.0		F12	11	R11	32		
60		5.0		Fle	, 8 /	011		1	/
Nile		BNE		PI	RO	(1)	OP	#	
THE THE PARTY OF		NIA		11/	1116	10	T		