Architecture des Didinateurs TD1 · 1. Les Instructions. 11, Des instructions orithmétiques et logiques: OP VS1, VS2, volest [0] copis, rdest (4) [rs] (rs) (rs) .... 16 bits libres. 0 0 0 0 . adolf 0 0 0 0 1: 5 wb

0 2 RI31 - 28] 1/2 25 cmol alu 2 R[23-20] 2 R[19-16] 2) L'instruction Set valeur 24, rolest 1100 rolest 41 ---- valeur 24 ---3, L'instruction load [radi + raol2], rolest (1000 rolest 14, radicy) rods 14, -- 16 bits libres 4, L'instruction store vire, [ roul 1 + rads] 1001 rsrcuy) radiuy, radiuy, |--- 16 bits libres 5, Les instrution branchement branchement (6- and from adresse) [110 condition(4)] ---- déplacement (24) déplacement 24 : adresse de branchement - adresse compris r14 = Le registre PC (Program Counter): 提為例指信的於地址) r15: Le registre IR (Instruction Register): 1名主動な器。, 当例指定的代码。 Stowt: PC < 新海海海的地址 重复 IR = [PC]//科为创播信代码有入IR 独外通道 bromchement 第五列 1- 京が至: PC ←PC+1/PC ← aelresse de 直到程序活束 · La forme d'un circuit ségnentrel mi je d'is amoi. 1. Le xint En: fetch abus > riyipes abustn: 10 → 2. 通及 IR ~ [PC] 操作, 我们从状态, ferch 转为 devode dreg = 1111

olbus >r15 (JR)

3. devode Krogat, 120 W.T. nAM BikAT: u, Instructions arithmétiques et bajques ( RP IR[31]=0) (0游光带,反倒色差记) @ 1/2 /2 rolese ( ] R[2] ... 24]) > olbus In = 01 > dreg ( ] R[2] ... 24]) BAER" poplari" MED, PC = PC+1 Schoole Annes Cas (fetch) PC = PC+1 | peplas | | rollst = 15/ up 152 | 2R(31) = 6) area [3-0] = fetch \* "1110" + Setflags \* "IR[23-20] + poplus 1 \* "1110" breg [3...o] = fetch \* "0000" + decode \* IR[19...16] + poplas 1 \* "000]" drug [3...0] = fetch \* " 1111" + decode \* IR [27...24] + poplus ! \* "1110" noland [3.10] = fetch \* "0000" + dende \* 2R[31.128] + poplus 1 \* "0000" dbusIn[1...]: forth \* " 0!" + devode \* "0!" + poplus! \* "0!"

write : forth \* " 0" + devode \* "0" + poplus! \* "0"

Architecture cles Ordinateurs

Instructions.				
* reg = \$ 17 kg	add	Tori, reglest,	% rj brit	7.rj + %ri + reg/ust
* cst: * * * * order: text.	addee	7, ri, reglest.	7, r; 如(班拉)	
	Sub	J	冰弦	% vj 4 % vi - veg/ost
	Subce		·孤江胜位)	
	umnlec		东北边	% Vi = % Vi × reg/est
	ndivec		3、1019	%vj = %vi × reg/cst %vj = %vi ÷ reg/cst
	andie		AND	
	orcc		OR	
	Korcc	(阳的0,年为1)	有政	
	×norce	(极物1,最为0)	杨秋	
	su		万格	% rj 2 % ri 22 reg/cst
	srl		To As	% vi >> reg/cst
	Sethi	valiz, Vori	577	%ri « valm i his mbis)
	ld	[%ri + reg/cst],	%ri load	bibits
	ldub	7	7	8 bires
	5t	%ri, [%rj +reg/	'cst] STORE	42 birts
	5 t b			8 6745
	call	adr	湖州	
Branchement >	ba	ady	旅游路	
		ads		cconol by 45 FZ
	be			Broach Equal (I)
	bne			Bromen Not Equal ( not Z)
	bneg			Bromph NEGootive (N)
	bpos			Bromsh Positive (not N)
	bas			Browneh on Courny Set (C)
	bcc			Branch on Camy Clear 1 not C)
	bus			Broman on overflow Set (V)
	brc			Bromen on overflow Clear inst V)
	by no	t (Zw(N xor V))	大利好验	Bromeh on Greater Inot 2 or WxorV
		not (N xor V)	人子著子时转	Branch on Greater or Equal
		N xor V	小产时转	Browsh on Less
		ZOTINXOVV)	小子等子时延	Bromen on Less or Egget.

not (ZorC) Bronch on Greater, Unsigned unsigned.
Bronch on Greater or equal will bu not C bas C Bromeh on less than, unsigned blen Z or C Bronch on Less or Eggel, Unstryed. olr %ri CLEAR orce /oro. /oro. %ri mov %ri, %rj %rj 6/sri ora /sri, /sro, /srj ince % ri h bo! adder % ri, 1, % ri
notec % ri, % rj % rj = % rin jakk xnorec % ri. % ri. % rj dece % ri Din Suba %ri, 1, 7, vi Set valz, , %ri %ri - val Sethi valz, , orce %ri, valg., o, %ri orce fori, Vul, , %ri sety valis...s, %ri 

 cmp %ri, %rj
 以致
 Subuc %ri, %rj, %ro

 tst %ri
 行為於於於於於於於於

 neguc %ri
 0 - %ri
 Subuc. %ro, %ri, %ri

 nop
 补偿行
 Setha 0, %ro

 跳转至绝对电址 jmp % 17 push %ri Subse %130, 4, %130; st %11, [%130] 为核 (d [%130].%ri ; add %130, 4, %130 pop Vori YMX.

Synthétiques >