The topics that I will cover next are:

- · Multicycle pipeline.
- Out-of-order execution (O3)
- · Pipeline scheduling.

To masulo:

Instruct	Fisur	Emeute	Witehack
LD F6,32(l2) LD F2,44(R?) MULD F0, F2, F4 SUBD F8, F2, F6 DIVD F10, F0, F6 ADDD F6, F8, F2			

LD 32+ Reg(R) Load 2 Yes LD 1 1901 & Evad of Add 1 Yes SUBD Add 1 Road 2 Add 2 Yes ADD B Add 1 Road 2 Add 3 Nor Mul 1 Yes Ulub Pag(Fu) load 2 Mul 2 Yes Diwd Nul 1 Load 1	Name	Busy	Op	Vy .	Vik) 9 j) 9.k	A	
Load 2 Yes SUBD Load & Enad & Load & Add & Road & Add & Road & Road & Add & Road & Add & Road & Add &			LDV	1		•		32+ Rog(R)	
Add 1 Yes SUBD Lond 2 Coad 2 Add 2 Yes ADD B Add 1 Road 2 Add 3 Nor Null Yes Huld Road 2	_		LDV					44+Reg(RS)	
Add 3 No Mull Yes Mull Region load 2	Add 1					Lord &	Anad d		
Mul Yes Mul D Rog(Fu) load 2	Adol 2	Yes /	ADD B			Addr	Road 2		
Nulla	Add 3	No		,					
		Yes V	Huld V	/	Rog(Fu')	Load 2	,	/	
	lul 2	yu V	DWD		-0 -'	-			

FO F2 F4 F6 F8 F10

Mull road 2 0 Road 1 Add 1 Mul 2/

1

Addz

Scoubsarding & Tomasulo Same? How to do visue, execute and curs? How many cycle for each?	
I - Once of becomes available, what to write in V?	
/ > How to know mul. D is ready to write?	
-> Will loop come?	
> What us DADDIVEBNE!	
> Will you give # reservation stations?	
. Is what to it all value one available / Showa are sur por	
→ When to write Mems [Reg] & When to winte Rig? Touch reviable?	
-> Temp variable? Two WB at the same thank	
→ When to write Mems (Reg] & When to winte Reg? → Temp variable? → WAW & WAR Just Sissue Frecute WB Cycle 2 - 3 4 Cycle	
	\$
LD F2, 44 (k3) V2 3	' \
MULD F0, F2, F4 V3	
SUBD F8, F2, F6	
DIVD FID, FD, FB	
ADDD $F6, F8, +2$	
Reservation station	
Busy Op Vy Vk Yy Yk	
Road! Yes LD 32+ Reg [R2]	
Lord 2 108 1 D	
Add 1 Yes Sub D " don't hoad !!	
Add 2 Yes Add D Add 1 Road 2	
Add 3 No	_
Had 5 No Mul D Ham Land 2 Reg Feit Load 2 Reg Feit Load 1	
Mul 2 Yes Diod Mal Lord	

Register Stalus

FO F2 F4 F6 F8 F10

Mult Appell 0 Local Add New 2

Add 1 Mult 2