INSTRUCTION LIST :

MULTD F4 F0 F8 ADDD F2 F0 F4 ADDD F4 F0 F8

Clock cycle : 0

						G TABLE					
PC	~~~~	INSTRU	JCTION	 I	SSUED	START		FIN	~~~~~~~ ISHED	Write	
0			F4 F0 F8		-	-			-		-
1			2 F0 F4		-	-			-		-
2		ADDD F4	4 F0 F8		-	-			-		-
~~~~~~	~~~~	~~~~~~~	~~~~~~~	~~~~	Reservatio	on Station	~~~~~	~~~~~~	~~~~~~~	~~~~~	·~~~~~~~~
~~~~~~ Time left	~~~~	~~~~~~~ Tag	~~~~~~~~ OP	~~~~	Busy	valueJ	~~~~~	valueK	~~~~~~ Qj	~~~~~~	
		Add0			False	0		0	-5		•
		Add1			False	0		0			
		Add2			False	0		0			
		Mult0			False	0		0			
		Mult1			False	0		0			
	~~~~	Load	d Station								
Time left		Tag	Busy	0.0.0.0.0.0.0	Address						
		Load0	False								
		Load1	False								
		Load2	False								
		Load3	False								
		Load4	False								
		Load5	False								
·~~~~~	~~~~	~~~~~~~	~~~~~~~	~~~~	-	 ister	~~~~~		~~~~~~	~~~~~	······································
Name Qi	F0	F1	F2	F3	F4	F5	 F6	F7	 F8	~~~~~~ F9	·~~~~~~~
Value	6.0	0.0	3.5	0.0	10.0	0.0	0.0	0.0	7.8	0.0	

______

Clock cycle : 1

PC : 0

NEXT FP INSTRUCTION TO BE ISSUED: 'MULTD F4 F0 F8'

			TIMING	TABLE			
PC	INSTRU		ISSUED	STARTED	FINI		Write CDB
0	MULTD F	4 F0 F8	1	-	-		-
1	ADDD F2	F0 F4	-	-	-		-
2	ADDD F4	F0 F8	-	-	-		-
			Reservatio	on Station			
~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	Tag	OP	Busy	valueJ	valueK	Qj	~~~~~~~~ Qk
	Add0		False	0	0		•
	Add1		False	0	0		
	Add2		False	0	0		
9	Mult0	MULTD	True	6.0	7.8		
	Mult1		False	0	0		
·~~~~~~~~		Station	······································				
~~~~~~~~~~ Time left		Busy	Address				
	Load0	False					
	Load1	False					
	Load2	False					
	Load3	False					
	Load4	False					
	Load5	False					

~~~~~~	~~~~~~	~~~~~~	~~~~~~~	~~~~~~	~~~~~~	~~~~~~	~~~~~~	~~~~~~	~~~~~~	~~~~~~~	~~~~~~~
					Regi	.ster					
~~~~~~	~~~~~~	~~~~~~	~~~~~~	~~~~~~	~~~~~~~	~~~~~~	~~~~~~	~~~~~~	~~~~~~	~~~~~~~	~~~~~~~
Name	FØ	F1	F2	F3	F4	F5	F6	F7	F8	F9	
Qi					Mult0						
Value	6.0	0.0	3.5	0.0	10.0	0.0	0.0	0.0	7.8	0.0	

Clock cycle : 2

PC : 1

NEXT FP INSTRUCTION TO BE ISSUED: 'ADDD F2 F0 F4'

Instruction 'ADDD F2 F0 F4' ISSUED at clock 2 in 'Add0'
Instruction 'MULTD F4 F0 F8' STARTED at clock 2 in 'Mult0'

						TABLE					
PC	~~~~~~	INSTRUC			~~~~~~~ SSUED	START			~~~~~~ ISHED	Wri	te CDB
0		MULTD F4	F0 F8		1	2			-		-
1		ADDD F2	F0 F4		2	-			-		-
2		ADDD F4	F0 F8		-	-			-		-
.~~~~~	,~~~~~~	·~~~~~		~~~~	~~~~~~ Reservatio	n Station	~~~~~	.~~~~~~	~~~~~~	~~~~~	~~~~~~~
~~~~~~ Time left		-~~~~~ -	 OP	~~~~	~~~~~~ Busy	valueJ	~~~~~	valueK	~~~~~~ Qj	~~~~~	~~~~~~ Qk
2	Ado		ADDD		True	6.0		10.0	ري.		Mult0
_	Ado		,,,,,,,		False	0		0			
	Ado				False	0		ø			
8	Mu]	lt0	MULTD		True	6.0		7.8			
	Mu]	lt1			False	0		0			
~~~~~~	.~~~~~		Station ~~~~~~	-~~~~	~~~~~~						
Time left			Busy		Address						
	Loa		False								
	Loa		False								
	Loa		False								
	Loa		False								
	Loa		False								
	Loa	105	False								
	,~~~~~~	.~~~~~		~~~~		ster	~~~~	,~~~~~~	~~~~~~	~~~~~	~~~~~~
	-~~~~~ F0	F1	F2	F3	~~~~~~ F4	F5	~~~~ F6	F7	~~~~~~ F8	-~~~~ F9	~~~~~~
Name Qi	10		Add0		Mult0						

Clock cycle : 3

PC : 2

NEXT FP INSTRUCTION TO BE ISSUED: 'ADDD F4 F0 F8'

10.0.0.0.0.0.0.0.0.0.0.0.0.0.0.0.0.0	~~~~~~~	,~~~~~~~~			,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	
			LIMING	G TABLE		
PC	INSTRU	ICTION	ISSUED	STARTED	FINISHED	Write CDB
0	MULTD F	4 F0 F8	1	2	-	-
1	ADDD F2	! F0 F4	2	-	-	-
2	ADDD F4	F0 F8	-	-	-	-
~~~~~~~~~~	~~~~~~~	~~~~~~~~	~~~~~~~~~	~~~~~~~~~		
			Reservatio	on Station		
~~~~~~~~~~	~~~~~~~~	~~~~~~~~~		~~~~~~~~~~	~~~~~~~~~~~	
Time left	Tag	OP	Busy	valueJ	valueK	Qj Qk
2	Add0	ADDD	True	6.0	10.0	Mult0
	Add1		False	0	0	
	Add2		False	0	0	
7	Add2 Mult0	MULTD	False True	0 6.0	0 7.8	

~~~~~~~~~~			~~~~~~
	Load	l Station	
~~~~~~~~~~	~~~~~~~~	~~~~~~~~~	~~~~~~~~
Time left	Tag	Busy	Address
	Load0	False	
	Load1	False	
	Load2	False	
	Load3	False	
	Load4	False	
	Load5	False	

~~~~~~~	~~~~~~~	.~~~~~~~	.~~~~~~~	~~~~~~	~~~~~~~~	~~~~~~	~~~~~~~	~~~~~~~	~~~~~~~	~~~~~~~~	
					Regi	ster					
~~~~~~~	~~~~~~	~~~~~~	~~~~~~~	~~~~~~	~~~~~~~	~~~~~~	~~~~~~~	~~~~~~~	~~~~~~~	~~~~~~~~	~~~~~~~
Name	F0	F1	F2	F3	F4	F5	F6	F7	F8	F9	
Qi			Add0		Mult0						
Value	6.0	0.0	3.5	0.0	10.0	0.0	0.0	0.0	7.8	0.0	

Clock cycle : 4

PC : 2

NEXT FP INSTRUCTION TO BE ISSUED: 'ADDD F4 F0 F8'

			TIMING				
~~~~~~ PC	INSTR	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	ISSUED	STARTED		~~~~~~~ ISHED	Write CDB
0		F4 F0 F8	1	2		-	-
1		2 F0 F4	2	-		-	-
2	ADDD F	4 F0 F8	-	-		-	-
~~~~~~	~~~~~~~~~	~~~~~~~~	Reservatio			~~~~~~	
~~~~~~~ Time left	Tag	~~~~~~~ OP	 Busy	valueJ	valueK	~~~~~~ Qj	-~~~~~~~ Qk
2	Add0	ADDD	True	6.0	10.0		Mult0
	Add1		False	0	0		
	Add2		False	0	0		
6	Mult0	MULTD	True	6.0	7.8		
	Mult1		False	0	0		
~~~~~~		~~~~~~~~ d Station					
~~~~~~~ ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	Loa						
~~~~~~~ ~~~~~~~~ Time left	~~~~~~~~	d Station	~~~~~~~				
~~~~~~~ ~~~~~~~~ Time left	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	d Station ~~~~~~~ Busy	~~~~~~~				
~~~~~~~ ~~~~~~~~ Time left	Tag Load0	d Station  Busy False False False	~~~~~~~				
~~~~~~~ ~~~~~~~~ Time left	Tag Load0 Load1 Load2 Load3	d Station  Busy False False False False False	~~~~~~~				
~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	Tag Load0 Load1 Load2	d Station  Busy False False False	~~~~~~~				
~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	Tag Load0 Load1 Load2 Load3	d Station  Busy False False False False False	~~~~~~~				
~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	Tag Load0 Load1 Load2 Load3 Load4	d Station  Busy False False False False False False False	~~~~~~~			~~~~~~~~	
~~~~~~~~~	Tag Load0 Load1 Load2 Load3 Load4 Load5	Busy False False False False False False False	Address	ster		~~~~~~~ ~~~~~~~~~ F8	~~~~~~~~ ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~

Clock cycle : 5

PC : 2

NEXT FP INSTRUCTION TO BE ISSUED: 'ADDD F4 F0 F8'

1010101010101010101010101010101					
		TTMTN	G TABLE		
		LILITIN	O TABLE		
~~~~~~~~~~~	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	~~~~~~~~~~~~~	~~~~~~~~~~~~~	~~~~~~~~~~~~~~~	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
PC	INSTRUCTION	ISSUED	STARTED	FINISHED	Write CDB
0	MULTD F4 F0 F8	1	2	-	-
1	ADDD F2 F0 F4	2	-	-	-
2	ADDD F4 F0 F8	-	-	-	-

				tion Station			
Time left	~~~~~~~ Tag	OP	Busy	valueJ	valueK	Qj	Qk
2	Add0	ADDD	True	6.0	10.0		Mult0
	Add1		False	0	0		
	Add2		False	0	0		
5	Mult0	MULTD	True	6.0	7.8		
	Mult1		False	0	0		
,~~~~~	~~~~~~~~~ Loa		~~~~~~~~	~			
~~~~~~~ Time left	~~~~~~~ Tag	Busy	Address	~			
TIME TELL	Load0	False	Addi ess				
	Load1	False					
	Load2	False					
	Load3	False					
	Load4	False					
	Load5	False					
		.~~~~~~~	~~~~~~~~	~~~~~~~~~~	·~~~~~~~~~~	~~~~~~~~~~	·~~~~~~~~~~~
~~~~~~	~~~~~~~~~~~~						
				egister			
	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	~~~~~~ F2 Add0	R ~~~~~~~ F3 F4 Mult0	F5	F6 F7		F9

Clock cycle : 6

PC : 2

NEXT FP INSTRUCTION TO BE ISSUED: 'ADDD F4 F0 F8'

				ING TABLE				
PC	INSTI	RUCTION	ISSUED	STARTE		FINISHED	Write C	onne DB
0		F4 F0 F8	1	2		-	-	
1		F2 F0 F4	2	-		-	-	
2	ADDD 1	F4 F0 F8	-	-		-	-	
	~~~~~~~~~	~~~~~~~~	Reserva	tion Station	~~~~~~~	,~~~~~~~	~~~~~~~	~~~~~
~~~~~~ Time left	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~		Busy	valueJ	~~~~~~ valueK	Qj	 Q	\ \
2	Add0	ADDD	True	6.0	10.0			lt0
	Add1		False	0	0			
	Add2		False	0	0			
4	Mult0	MULTD	True	6.0	7.8			
	Mult1		False	0	0			
	Loa	ad Station		~				
Time left	~~~~~~~~~ Tag	Busy	Address	•				
	Load0	False						
	Load1	False						
	Load2	False						
	Load3	False						
	Load4	False						
	Load5	False						
.~~~~~~	~~~~~~~~	~~~~~~~~		~~~~~~~ egister	~~~~~~~		~~~~~~~	~~~~
Name Qi	F0 F1	F2 Add0	F3 F4 Mult0	F5	F6 F	77 F8	~~~~~~~ F9	~~~~
/alue	6.0 0.0		0.0 10.0	0.0	0.0 0.	0 7.8	0.0	

Clock cycle : 7 PC : 2

PC 0		~~~~~~~~	~~~~~~~~~~~~~~~	6 TABLE 	~~~~	~~~~~~~	~~~~~~	~~~~~~~~~~~	~~~~
0	INSTRU		ISSUED	START	ED		ISHED	Write CDB	
1		F4 F0 F8 2 F0 F4	1 2	2			-	-	
2		4 F0 F8	-	-			-	-	
		~~~~~~~~			~~~~~	~~~~~~~	~~~~~~	~~~~~~~~~~~~	~~~~
		~~~~~~~ OP		on Station ~~~~~~~ valueJ	~~~~	~~~~~~~~~ .valuak	~~~~~~~	۰۰۰۰۰۰۰۰۰۰۰۰۰۰۰۰۰۰۰۰۰۰۰۰۰۰۰۰۰۰۰۰۰۰۰۰۰۰	~~~~~
2	Tag Add0	ADDD	Busy True	6.0		valueK 10.0	Qj	Qk Mult0	
	Add1		False	0		0			
	Add2		False	0		0			
3	Mult0	MULTD	True	6.0		7.8			
	Mult1		False	0		0			
~~~~~~~~	Load	~~~~~~~ d Station	~~~~~~~						
Time left		Busy	Address						
	Load0	False							
	Load1	False							
	Load2 Load3	False False							
	Load4	False							
	Load5	False							
~~~~~~~~~	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	~~~~~~~			~~~~~	~~~~~~	~~~~~~	~~~~~~~~~~	~~~~
Name F0	F1	F2	F3 F4	F5		~~~~~~ F7	F8	F9	~~~~
Qi Value 6.0	0.0	Add0 3.5	Mult0 0.0 10.0	0.0	0.0	0.0	7.8	0.0	
ock cycle : 8			***************************************					!#####################################	
ock cycle : 8		************	***************************************						
ock cycle : 8 ∴ : 2 XT FP INSTRUCTIO	ON TO BE ISSU	######################################	######################################		~~~~		~~~~~~~~	***************************************	
cock cycle : 8 C: 2 EXT FP INSTRUCTION PC	ON TO BE ISSU	JED: 'ADDD F	######################################		~~~~~		~~~~~~~~	***************************************	
ock cycle : 8 :: 2 EXT FP INSTRUCTION PC 0	ON TO BE ISSU	JED: 'ADDD F	4 F0 F8' TIMING		~~~~~	**************************************	~~~~~~~~		
cock cycle : 8 C: 2 EXT FP INSTRUCTION PC	ON TO BE ISSU	JED: 'ADDD F	######################################	G TABLE START 2	~~~~~	**************************************	######################################		
ock cycle : 8 Extra FP INSTRUCTION PC 0 1 2	ON TO BE ISSU	JED: 'ADDD F	4 F0 F8' TIMINO ISSUED 1 2 -	5 TABLE START 2	###### ~~~~~~ ~~~~~	**************************************	######################################		
ock cycle : 8 : : 2 XT FP INSTRUCTION PC 0 1 2	ON TO BE ISSU	JED: 'ADDD F	4 F0 F8' TIMINO ISSUED 1 2 -	G TABLE START 2 on Station	**************************************		######################################		
ock cycle : 8 : : 2 XT FP INSTRUCTION PC 0 1 2	INSTRUMULTD FE ADDD F2	JED: 'ADDD F	4 F0 F8' TIMING ISSUED 1 2 - Reservation Busy True	G TABLE START 2 on Station	**************************************		######################################	Write CDB	
ock cycle : 8 : : 2 EXT FP INSTRUCTION PC 0 1 2 Time left	INSTRI MULTD F ADDD F2 Tag Add0 Add1	JED: 'ADDD F JCTION F4 F0 F8 2 F0 F4 4 F0 F8	######################################	G TABLE START 2 On Station valueJ 6.0 0	**************************************	######################################	######################################	Write CDB	
ock cycle : 8 : 2 XT FP INSTRUCTION PC 0 1 2 Time left 2	INSTRI MULTD F ADDD F2 ADDD F2 Tag Add0 Add1 Add2	UED: 'ADDD F CONTROL OF F4 F4 F0 F8 F4 F0 F8 F6 F8 CONTROL OF F8 OP ADDD	######################################	START 2 on Station valueJ 6.0 0	**************************************	FIN valueK 10.0 0	######################################	Write CDB	
ock cycle : 8 : : 2 XT FP INSTRUCTION PC 0 1 2 Time left	INSTRI MULTD F ADDD F2 Tag Add0 Add1	JED: 'ADDD F JCTION F4 F0 F8 2 F0 F4 4 F0 F8	######################################	G TABLE START 2 On Station valueJ 6.0 0	**************************************	######################################	######################################	Write CDB	
ock cycle : 8 : 2 XT FP INSTRUCTIO PC 0 1 2 Time left 2	INSTRUMULTD FADDD	UED: 'ADDD F	######################################	START: 2 on Station valueJ 6.0 0 0 6.0	**************************************	######################################	######################################	Write CDB	
ock cycle : 8 : 2 XT FP INSTRUCTION PC 0 1 2 Time left 2	INSTRUMULTD FADDD	UED: 'ADDD F JED: 'ADDD F JED: 'ADDD F JED: 'ADDD F JED: 'ADDD F MULTD MULTD	######################################	START: 2 on Station valueJ 6.0 0 0 6.0	**************************************	######################################	######################################	Write CDB	
ock cycle : 8 : 2 XT FP INSTRUCTION PC	INSTRUMULTD FADDD	UED: 'ADDD F UCTION F4 F0 F8 2 F0 F4 4 F0 F8 OP ADDD MULTD d Station Busy	######################################	START: 2 on Station valueJ 6.0 0 0 6.0	**************************************	######################################	######################################	Write CDB	
ock cycle : 8 : 2 XT FP INSTRUCTIO PC 0 1 2 Time left 2	INSTRUMULTD FADDD	UED: 'ADDD F JED: 'ADDD F JED: 'ADDD F JED: 'ADDD F JED: 'ADDD F MULTD MULTD	######################################	START: 2 on Station valueJ 6.0 0 0 6.0	**************************************	######################################	######################################	Write CDB	
ock cycle : 8 : 2 XT FP INSTRUCTION PC 0 1 2 Time left 2	INSTRIMULTD FADDD	JED: 'ADDD F JCTION F4 F0 F8 2 F0 F4 4 F0 F8 OP ADDD MULTD d Station Busy False	######################################	START: 2 on Station valueJ 6.0 0 0 6.0	**************************************	######################################	######################################	Write CDB	
ock cycle : 8 : 2 XT FP INSTRUCTION PC 0 1 2 Time left 2	INSTRIMULTD FADDD	JED: 'ADDD F JCTION F4 F0 F8 2 F0 F4 4 F0 F8 MULTD MULTD d Station Busy False False False False	######################################	START: 2 on Station valueJ 6.0 0 0 6.0	**************************************	######################################	######################################	Write CDB	
ock cycle : 8 : 2 XT FP INSTRUCTION PC 0 1 2 Time left 2	INSTRIMULTD FADDD FADDDD FADDDD FADDDD FADDDD FADDDDD FADDDD FADDD FADDDD FADDDD FADDDD FADDDD FADDDD FADDDD FADDDD FADDDD FADDD FADDDD FADDD FADDDD FADDDD FADDDD FADDDD FADDDD FADDDD FADDDD FADDDD FADDD FADDDD FADDDD FADDDD FADDDD FADDDD FADDDD FADDDD FADDD FADDD FADDDD FADDD FA	JED: 'ADDD F JCTION F4 F0 F8 2 F0 F4 4 F0 F8 MULTD MULTD d Station Busy False False False False False False	######################################	START: 2 on Station valueJ 6.0 0 0 6.0	**************************************	######################################	######################################	Write CDB	
pck cycle : 8 : 2 XT FP INSTRUCTION PC 0 1 2 Time left 2	INSTRIMULTD FADDD	JED: 'ADDD F JCTION F4 F0 F8 2 F0 F4 4 F0 F8 MULTD MULTD d Station Busy False False False False	######################################	START: 2 on Station valueJ 6.0 0 0 6.0	**************************************	######################################	######################################	Write CDB	

F0 F1 F2 F3 F4 F5 F6 F7 F8 F9 Add0 Mult0

Mult0

Add0

Name Qi

Value 6.0 0.0 3.5 0.0 10.0 0.0 0.0 0.0 7.8 0.0

Clock cycle : 9

PC : 2

NEXT FP INSTRUCTION TO BE ISSUED: 'ADDD F4 F0 F8'

~~~~~~	~~~~~	~~~~~~~~	~~~~~~~~	~~~~~		TABLE	~~~~~	~~~~~~~	~~~~~~~~	~~~~~~	~~~~~~~~~~~
PC		INSTR	JCTION		SSUED	STARTE			ISHED	Wri	te CDB
0		MULTD	F4 F0 F8		1	2			-		-
1			2 F0 F4		2	-			-		-
2		ADDD F	4 F0 F8		-	-		-			-
~~~~~~	~~~~	~~~~~~	~~~~~~~	~~~~	Reservatio	n Station	~~~~	~~~~~~	~~~~~~	~~~~~	~~~~~~~~~
 Γime left		~~~~~~~ Tag	~~~~~~~~ OP	~~~~	 Busy	valueJ	~~~~	valueK	~~~~~~ Qj	~~~~~	0k
2		Add0	ADDD		True	6.0		10.0	۲۶		Mult0
-		Add1	71000		False	0		0			
		Add2			False	ø		0			
1		Mult0	MULTD		True	6.0		7.8			
		Mult1			False	0		0			
~~~~~	~~~~		d Station	.~~~~	~~~~~~						
 Time left		~~~~~~~ Tag	Busy	~~~~	Address						
		Load0	False								
		Load1	False								
		Load2	False								
		Load3	False								
		Load4	False								
		Load5	False								
,~~~~~	~~~~	~~~~~~	~~~~~~~	.~~~~		 ster	~~~~	~~~~~~	~~~~~~	~~~~~	~~~~~~~~~
-~~~~~ lame	~~~~ F0	~~~~~~ F1	~~~~~~~~ F2		~~~~~~ F4	F5	~~~~ F6		~~~~~ F8	~~~~~~ F9	~~~~~~~~~
Qi	10	1 ±	Add0	1 5	Mult0	1 5	10	1,	10	1,5	
lue	6.0	0.0	3.5	0.0	10.0	0.0	0.0	0.0	7.8	0.0	

Clock cycle : 10

PC : 2

	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		TIMING	TABLE			
PC	INSTRU		ISSUED	STARTED	FINIS		Write CDB
0	MULTD F	4 F0 F8	1	2	-		-
1	ADDD F2	F0 F4	2	-	-		-
2	ADDD F4	F0 F8	-	-	-		-
.~~~~~~			Reservatio	on Station			~~~~~~~~
~~~~~~~~~ Time left	Tag	OP	Busy	valueJ	valueK	Qj	Qk
2	Add0	ADDD	True	6.0	10.0		Mult0
	Add1		False	0	0		
	Add2		False	0	0		
0	Mult0	MULTD	True	6.0	7.8		
	Mult1		False	0	0		
~~~~~~~	Load	Station	~~~~~~~				
~~~~~~~~ Time left		Busy	Address				
	Load0	False					
	Load1	False					
	Load2	False					

Load3	False
Load4	False
Load5	False

~~~~~~~	~~~~~~	~~~~~~	~~~~~~~	~~~~~~	~~~~~~~	~~~~~~	~~~~~~	~~~~~~	~~~~~~	~~~~~~~	~~~~~~~~
					Regi	ster					
~~~~~~~	~~~~~~		.~~~~~~	~~~~~~	Ü		~~~~~~~	.~~~~~~	~~~~~~	~~~~~~~	~~~~~~~
Name	F0	F1	F2	F3	F4	F5	F6	F7	F8	F9	
Qi			Add0		Mult0						
Value	6.0	0.0	3.5	0.0	10.0	0.0	0.0	0.0	7.8	0.0	

Clock cycle : 11

PC : 2

NEXT FP INSTRUCTION TO BE ISSUED: 'ADDD F4 F0 F8'

Instruction 'MULTD F4 F0 F8' FINISHED at clock 11 in 'Mult0'

					TIMING						
PC	~~~~~~	INSTRU	JCTION		SSUED	STARTE			ISHED	Wri	te CDB
0			4 F0 F8		1	2		:	11		-
1		ADDD F2			2	-			-	-	
2	2 ADDD F4 F0 F8		1 F0 F8	-		-			-	-	
~~~~~	~~~~~	~~~~~	~~~~~~	~~~~	Reservatio	~~~~~~~ n Station	~~~~		~~~~~~		~~~~~~~
~~~~~~ Time left		~~~~~ ag	 OP	.~~~~	Busy	valueJ	~~~~	valueK	~~~~~~ Qj	.~~~~~	Qk
2	Ad		ADDD		True	6.0		10.0	-3		Mult0
	Ad				False	0		0			
	Ad				False	0		0			
0		lt0	MULTD		True	6.0		7.8			
	Mu	lt1			False	0		0			
.~~~~~		Load	Station								
Time left		ag	Busy		Address						
		ad0	False								
		ad1	False								
		ad2	False								
		ad3	False								
		ad4	False								
	Lo	ad5	False								
~~~~~~		~~~~~	~~~~~~~	~~~~	 Regi	~~~~~~~ ster	~~~~		~~~~~~~		~~~~~~~
Name	F0	~~~~~ F1	F2 Add0	F3	F4 Mult0	F5	F6	F7	F8	 F9	~~~~~~~
Qi			Auuo		MUTCO						

Clock cycle : 12

PC : 2

NEXT FP INSTRUCTION TO BE ISSUED: 'ADDD F4 F0 F8'

Add1

Instruction 'MULTD F4 F0 F8' BROADCASTED in CDB at clock 12 with value '46.8'

~~~~~		~~~~~~~		~~~~~~~~~	~~~~~~~	~~~~~~~	~~~~~~~~~~	~~~~~~~
				TIMING TAB	LE			
~~~~~		~~~~~~~		~~~~~~~~~	~~~~~~~~~	~~~~~~~~~	~~~~~~~~~~	~~~~~~~
	PC	INSTRUCTION	ON IS	SUED	STARTED	FINISHED	Write	CDB
	0	MULTD F4 F	9 F8 :	1	2	11	1	2
	1	ADDD F2 F0	F4	2	-	-	-	
	2	ADDD F4 F0	F8	-	-	-	-	
~~~~~	~~~~~~~	~~~~~~~~	~~~~~~~~~~			~~~~~~~~~	~~~~~~~~~~	~~~~~~~
				Reservation St	ation			
		~~~~~~~~						
Time	left	Tag	OP	Busy	valueJ	valueK	Qj	Qk
1	L ,	Add0	ADDD	True	6.0	46.8		

False

		Add2 Mult0 Mult1			False False False	0 0 0		0 0 0			
~~~~~~~	~~~~~	~~~~~~~ Load	 d Station	~~~~	~~~~~~						
Time left		Tag Load0 Load1 Load2 Load3 Load4 Load5	Busy False False False False False	~~~~	Address						
~~~~~~~	.~~~~	~~~~~~~		~~~~	~~~~~~ Regi	 ster	~~~~~~	~~~~~~~	~~~~~~	~~~~~~~	~~~~~~
Name	F0	F1	F2	~~~~~ F3		F5		~~~~~~ F7	F8	F9	
Qi Value	6.0	0.0	Add0 3.5	0.0	46.8	0.0	0.0	0.0	7.8	0.0	
NEXT FP INST Instruction Instruction	'ADDD	F4 F0 F8' IS	SSUED at clo	ck 13 :	in 'Add1' in 'Add0' ~~~~~~	TABLE	~~~~~	~~~~~~	~~~~~~	~~~~~~~~~	vaaaaaaaaaaa
~~~~~~~ PC	.~~~~	INSTRU		~~~~	~~~~~~~ ISSUED		~~~~~~ RTED		~~~~~~~ ISHED	Write (	CDB
0 1 2		MULTD F ADDD F2 ADDD F4			1 2 13		2 13 -		11 - -	12 - -	
~~~~~~	~~~~	~~~~~~		~~~~	Reservatio	n Station	~~~~~	~~~~~~~	~~~~~~		~~~~~
Time left 0 1		Tag Add0 Add1 Add2 Mult0 Mult1	OP ADDD ADDD	~~~~	Busy True True False False False	value: 6.0 6.0 0 0		valueK 46.8 7.8 0 0	Qj	(	Qk
~~~~~~~~	.~~~~	Load	Station								
Time left		Tag Load0 Load1 Load2 Load3 Load4 Load5	Busy False False False False False		Address						
~~~~~~~~~	.~~~~	~~~~~~~~~	·~~~~~~~~~	~~~~~	~~~~~~~ Regi	ster	~~~~~~	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	~~~~~~~~~	~~~~~~~	~~~~~~
Name Qi	F0	F1	F2 Add0	F3	F4 Add1	F5	F6	F7	F8	F9	
Value	6.0	0.0	3.5	0.0	46.8	0.0	0.0	0.0	7.8	0.0	

Clock cycle : 14

PC : 3

Instruction 'ADDD F4 F0 F8' STARTED at clock 14 in 'Add1' Instruction 'ADDD F2 F0 F4' FINISHED at clock 14 in 'Add0'

TIMING TABLE

PC 0 1 2	MULTD ADDD F	UCTION F4 F0 F8 2 F0 F4 4 F0 F8	ISSUED 1 2 13	STAR 2 1 1	3		ISHED 11 14 -	Write CDB 12 - -	
~~~~~~~	~~~~~~~~~~~	~~~~~~~	Reservatio	n Station	~~~~~	~~~~~~~	,~~~~~~	~~~~~~~~~~~~~~~	~~~~
Time left 0 0	Tag Add0 Add1 Add2 Mult0 Mult1	OP ADDD ADDD	Busy True True False False False	valueJ 6.0 6.0 0 0	~~~~	valueK 46.8 7.8 0 0	Qj	Qk	~~~~
·~~~~~~	Loa	~~~~~~~~~ d Station	~~~~~~~~						
Time left	Tag Load0 Load1 Load2 Load3 Load4 Load5	Busy False False False False False	Address						
~~~~~~		~~~~~~~~	Regi	ster	~~~~~	~~~~~~~		~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	~~~~
Name Qi Value	F0 F1 6.0 0.0	F2 Add0 3.5	F3 F4 Add1 0.0 46.8	F5 0.0	F6 0.0	F7 0.0	F8 7.8	F9 0.0	
######################################	: 15 'ADDD F4 F0 F8' F	######################################	ock 15 in 'Add1' CDB at clock 15 w	***********	*****			~~~~~~~~~~	
~~~~~~ PC	INSTR	~~~~~~~~~ UCTION	ISSUED	STAR	~~~~ <i>~</i> ГЕD	~~~~~~~ FIN	ISHED	write CDB	~~~~
0 1 2	ADDD F	F4 F0 F8 2 F0 F4 4 F0 F8	1 2 13	2 1 1	3		11 14 15	12 15 -	
~~~~~~	~~~~~~~~~~	~~~~~~~	Reservatio		~~~~~	~~~~~~~	~~~~~~	~~~~~~~~~~~~	~~~~
Time left	Tag Add0 Add1 Add2 Mult0 Mult1	OP ADDD	Busy False True False False False	valueJ 0 6.0 0	~~~~	valueK 0 7.8 0 0	Qj	Qk	~~~~

			d Station								
Time		Tag Load0 Load1 Load2 Load3 Load4 Load5	Busy False False False False False		Address						
~~~~~	~~~~~	~~~~~~	.~~~~~~	~~~~~		ster	~~~~~~	~~~~~~~	~~~~~~	~~~~~~~	~~~~~~~
Name Qi	~~~~~ F0	~~~~~~ F1	F2	F3	F4 Add1	F5		F7	F8	F9	~~~~~~~
Value	6.0	0.0	52.8	0.0	46.8	0.0	0.0	0.0	7.8	0.0	

Clock cycle : 16 PC : 3

Instruction 'ADDD F4 F0 F8' BROADCASTED in CDB at clock 16 with value '13.8'

					TIMING	TABLE					
PC	.~~~~	INSTRU		 I	SSUED	START	ED	FIN:	ISHED	~~~~~~~ Wri	ite CDB
0			F4 F0 F8			2			11		12
1			2 F0 F4		2	13		14		15	
2		ADDD F	4 F0 F8		13	14		=	15		16
.~~~~~	.~~~~~	~~~~~~	~~~~~~	~~~~~	Reservatio		~~~~	~~~~~~~	~~~~~~	~~~~~	
~~~~~~ Time left	.~~~~		~~~~~~~~ OP	~~~~~	Busy	valueJ	~~~~~	~~~~~~~~~ valueK	~~~~~~~ Qj	~~~~~	Qk
		Add0			False	0		0	cs		·
		Add1			False	0		0			
		Add2			False	0		0			
		Mult0			False	0		0			
		Mult1			False	0		0			
~~~~~~			d Station	~~~~~	~~~~~~						
Time left		Tag	Busy		Address						
		Load0	False								
		Load1	False								
		Load2	False								
		Load3	False								
		Load4	False								
		Load5	False								
~~~~~	~~~~~	·~~~~~~	~~~~~~~	~~~~	Regi	.ster	~~~~	~~~~~~~	~~~~~~	~~~~~	~~~~~~
~~~~~~ Name	F0	F1	F2	 F3	F4	F5	 F6		F8	F9	
Qi											