

INSTRUCTION LIST :

```
LD F6 34(R2)
LD F2 45(R3)
MULTD F0 F2 F4
SUBD F8 F6 F2
DIVD F10 F0 F6
ADDD F6 F8 F2
```

Clock cycle : 0

TIMING TABLE

| PC | INSTRUCTION | ISSUED | STARTED | FINISHED | Write CDB |
|----|----------------|--------|---------|----------|-----------|
| 0 | LD F6 34(R2) | - | - | - | - |
| 1 | LD F2 45(R3) | - | - | - | - |
| 2 | MULTD F0 F2 F4 | - | - | - | - |
| 3 | SUBD F8 F6 F2 | - | - | - | - |
| 4 | DIVD F10 F0 F6 | - | - | - | - |
| 5 | ADDD F6 F8 F2 | - | - | - | - |

Reservation Station

| Time left | Tag | OP | Busy | valueJ | valueK | Qj | Qk |
|-----------|-------|----|-------|--------|--------|----|----|
| | Add0 | | False | 0 | 0 | | |
| | Add1 | | False | 0 | 0 | | |
| | Add2 | | False | 0 | 0 | | |
| | Mult0 | | False | 0 | 0 | | |
| | Mult1 | | False | 0 | 0 | | |

Load Station

| Time left | Tag | Busy | Address |
|-----------|-------|-------|---------|
| | Load0 | False | |
| | Load1 | False | |
| | Load2 | False | |
| | Load3 | False | |
| | Load4 | False | |
| | Load5 | False | |

Register

| Name | F0 | F1 | F2 | F3 | F4 | F5 | F6 | F7 | F8 | F9 |
|-------|-----|-----|-----|-----|------|-----|-----|-----|-----|-----|
| Qi | | | | | | | | | | |
| 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: 'LD F6 34(R2)'

TIMING TABLE

| PC | INSTRUCTION | ISSUED | STARTED | FINISHED | Write CDB |
|----|----------------|--------|---------|----------|-----------|
| 0 | LD F6 34(R2) | 1 | - | - | - |
| 1 | LD F2 45(R3) | - | - | - | - |
| 2 | MULTD F0 F2 F4 | - | - | - | - |
| 3 | SUBD F8 F6 F2 | - | - | - | - |
| 4 | DIVD F10 F0 F6 | - | - | - | - |
| 5 | ADDD F6 F8 F2 | - | - | - | - |

Reservation Station

| Time left | Tag | OP | Busy | valueJ | valueK | Qj | Qk |
|-----------|-------|----|-------|--------|--------|----|----|
| | Add0 | | False | 0 | 0 | | |
| | Add1 | | False | 0 | 0 | | |
| | Add2 | | False | 0 | 0 | | |
| | Mult0 | | False | 0 | 0 | | |
| | Mult1 | | False | 0 | 0 | | |

Load Station

| Time left | Tag | Busy | Address |
|-----------|-------|-------|---------|
| 2 | Load0 | True | 34+R2 |
| | Load1 | False | |
| | Load2 | False | |
| | Load3 | False | |
| | Load4 | False | |
| | Load5 | False | |

| Register | | | | | | | | | | |
|----------|-----|-----|-----|-----|------|-----|-------|-----|-----|-----|
| Name | F0 | F1 | F2 | F3 | F4 | F5 | F6 | F7 | F8 | F9 |
| Qi | | | | | | | Load0 | | | |
| 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: 'LD F2 45(R3)'

Instruction 'LD F6 34(R2)' STARTED at clock 2 in 'Load0'

| TIMING TABLE | | | | | | |
|--------------|----------------|--------|---------|----------|-----------|--|
| PC | INSTRUCTION | ISSUED | STARTED | FINISHED | Write CDB | |
| 0 | LD F6 34(R2) | 1 | 2 | - | - | |
| 1 | LD F2 45(R3) | 2 | - | - | - | |
| 2 | MULTD F0 F2 F4 | - | - | - | - | |
| 3 | SUBD F8 F6 F2 | - | - | - | - | |
| 4 | DIVD F10 F0 F6 | - | - | - | - | |
| 5 | ADD F6 F8 F2 | - | - | - | - | |

| Reservation Station | | | | | | | |
|---------------------|-------|----|-------|--------|--------|----|----|
| Time left | Tag | OP | Busy | valueJ | valueK | Qj | Qk |
| | Add0 | | False | 0 | 0 | | |
| | Add1 | | False | 0 | 0 | | |
| | Add2 | | False | 0 | 0 | | |
| | Mult0 | | False | 0 | 0 | | |
| | Mult1 | | False | 0 | 0 | | |

| Load Station | | | |
|--------------|-------|-------|---------|
| Time left | Tag | Busy | Address |
| 1 | Load0 | True | 34+R2 |
| 2 | Load1 | True | 45+R3 |
| | Load2 | False | |
| | Load3 | False | |
| | Load4 | False | |
| | Load5 | False | |

| Register | | | | | | | | | | |
|----------|-----|-----|-------|-----|------|-----|-------|-----|-----|-----|
| Name | F0 | F1 | F2 | F3 | F4 | F5 | F6 | F7 | F8 | F9 |
| Qi | | | Load1 | | | | Load0 | | | |
| Value | 6.0 | 0.0 | 3.5 | 0.0 | 10.0 | 0.0 | 0.0 | 0.0 | 7.8 | 0.0 |

#####

Clock cycle : 3
PC : 2

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

Instruction 'MULTD F0 F2 F4' ISSUED at clock 3 in 'Mult0'
Instruction 'LD F2 45(R3)' STARTED at clock 3 in 'Load1'

| TIMING TABLE | | | | | | |
|--------------|--------------|--------|---------|----------|-----------|--|
| PC | INSTRUCTION | ISSUED | STARTED | FINISHED | Write CDB | |
| 0 | LD F6 34(R2) | 1 | 2 | - | - | |
| 1 | LD F2 45(R3) | 2 | 3 | - | - | |

| | | | | | |
|---|----------------|---|---|---|---|
| 2 | MULTD F0 F2 F4 | 3 | - | - | - |
| 3 | SUBD F8 F6 F2 | - | - | - | - |
| 4 | DIVD F10 F0 F6 | - | - | - | - |
| 5 | ADDD F6 F8 F2 | - | - | - | - |

Reservation Station

| Time left | Tag | OP | Busy | valueJ | valueK | Qj | Qk |
|-----------|-------|-------|-------|--------|--------|-------|----|
| | Add0 | | False | 0 | 0 | | |
| | Add1 | | False | 0 | 0 | | |
| | Add2 | | False | 0 | 0 | | |
| 6 | Mult0 | MULTD | True | 3.5 | 10.0 | Load1 | |
| | Mult1 | | False | 0 | 0 | | |

Load Station

| Time left | Tag | Busy | Address |
|-----------|-------|-------|---------|
| 0 | Load0 | True | 34+R2 |
| 1 | Load1 | True | 45+R3 |
| | Load2 | False | |
| | Load3 | False | |
| | Load4 | False | |
| | Load5 | False | |

Register

| Name | F0 | F1 | F2 | F3 | F4 | F5 | F6 | F7 | F8 | F9 |
|-------|-------|-----|-------|-----|------|-----|-------|-----|-----|-----|
| Qi | Mult0 | | Load1 | | | | Load0 | | | |
| 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 : 3

NEXT FP INSTRUCTION TO BE ISSUED: 'SUBD F8 F6 F2'

Instruction 'SUBD F8 F6 F2' ISSUED at clock 4 in 'Add0'

Instruction 'LD F6 34(R2)' FINISHED at clock 4 in 'Load0'

TIMING TABLE

| PC | INSTRUCTION | ISSUED | STARTED | FINISHED | Write CDB |
|----|----------------|--------|---------|----------|-----------|
| 0 | LD F6 34(R2) | 1 | 2 | 4 | - |
| 1 | LD F2 45(R3) | 2 | 3 | - | - |
| 2 | MULTD F0 F2 F4 | 3 | - | - | - |
| 3 | SUBD F8 F6 F2 | 4 | - | - | - |
| 4 | DIVD F10 F0 F6 | - | - | - | - |
| 5 | ADDD F6 F8 F2 | - | - | - | - |

Reservation Station

| Time left | Tag | OP | Busy | valueJ | valueK | Qj | Qk |
|-----------|-------|-------|-------|--------|--------|-------|-------|
| 2 | Add0 | SUBD | True | 0.0 | 3.5 | Load0 | Load1 |
| | Add1 | | False | 0 | 0 | | |
| | Add2 | | False | 0 | 0 | | |
| 6 | Mult0 | MULTD | True | 3.5 | 10.0 | Load1 | |
| | Mult1 | | False | 0 | 0 | | |

Load Station

| Time left | Tag | Busy | Address |
|-----------|-------|-------|---------|
| | Load0 | True | 34+R2 |
| 0 | Load1 | True | 45+R3 |
| | Load2 | False | |
| | Load3 | False | |
| | Load4 | False | |
| | Load5 | False | |

Register

| Name | F0 | F1 | F2 | F3 | F4 | F5 | F6 | F7 | F8 | F9 |
|------|-------|----|-------|----|----|----|-------|----|------|----|
| Qi | Mult0 | | Load1 | | | | Load0 | | Add0 | |

| | | | | | | | | | | |
|--|----------------|-------|---------|---------|--------|----------|------|-----------|------|-----|
| Value | 6.0 | 0.0 | 3.5 | 0.0 | 10.0 | 0.0 | 0.0 | 0.0 | 7.8 | 0.0 |
| ##### | | | | | | | | | | |
| ##### | | | | | | | | | | |
| | | | | | | | | | | |
| Clock cycle : 5 | | | | | | | | | | |
| PC : 4 | | | | | | | | | | |
| | | | | | | | | | | |
| NEXT FP INSTRUCTION TO BE ISSUED: 'DIVD F10 F0 F6' | | | | | | | | | | |
| | | | | | | | | | | |
| Instruction 'DIVD F10 F0 F6' ISSUED at clock 5 in 'Mult1' | | | | | | | | | | |
| Instruction 'LD F2 45(R3)' FINISHED at clock 5 in 'Load1' | | | | | | | | | | |
| Instruction 'LD F6 34(R2)' BROADCASTED in CDB at clock 5 with value '37.5' | | | | | | | | | | |
| ~~~~~ | | | | | | | | | | |
| TIMING TABLE | | | | | | | | | | |
| ~~~~~ | | | | | | | | | | |
| PC | INSTRUCTION | | ISSUED | STARTED | | FINISHED | | Write CDB | | |
| 0 | LD F6 34(R2) | | 1 | 2 | | 4 | | 5 | | |
| 1 | LD F2 45(R3) | | 2 | 3 | | 5 | | - | | |
| 2 | MULTD F0 F2 F4 | | 3 | - | | - | | - | | |
| 3 | SUBD F8 F6 F2 | | 4 | - | | - | | - | | |
| 4 | DIVD F10 F0 F6 | | 5 | - | | - | | - | | |
| 5 | ADDD F6 F8 F2 | | - | - | | - | | - | | |
| ~~~~~ | | | | | | | | | | |
| Reservation Station | | | | | | | | | | |
| ~~~~~ | | | | | | | | | | |
| Time left | Tag | OP | Busy | valueJ | valueK | Qj | | Qk | | |
| 2 | Add0 | SUBD | True | 37.5 | 3.5 | | | Load1 | | |
| | Add1 | | False | 0 | 0 | | | | | |
| | Add2 | | False | 0 | 0 | | | | | |
| 6 | Mult0 | MULTD | True | 3.5 | 10.0 | Load1 | | | | |
| 12 | Mult1 | DIVD | True | 6.0 | 37.5 | Mult0 | | | | |
| ~~~~~ | | | | | | | | | | |
| Load Station | | | | | | | | | | |
| ~~~~~ | | | | | | | | | | |
| Time left | Tag | Busy | Address | | | | | | | |
| | Load0 | False | | | | | | | | |
| | Load1 | True | 45+R3 | | | | | | | |
| | Load2 | False | | | | | | | | |
| | Load3 | False | | | | | | | | |
| | Load4 | False | | | | | | | | |
| | Load5 | False | | | | | | | | |
| ~~~~~ | | | | | | | | | | |
| Register | | | | | | | | | | |
| ~~~~~ | | | | | | | | | | |
| Name | F0 | F1 | F2 | F3 | F4 | F5 | F6 | F7 | F8 | F9 |
| Qi | Mult0 | | Load1 | | | | | | Add0 | |
| Value | 6.0 | 0.0 | 3.5 | 0.0 | 10.0 | 0.0 | 37.5 | 0.0 | 7.8 | 0.0 |

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Clock cycle : 6

PC : 5

NEXT FP INSTRUCTION TO BE ISSUED: 'ADDD F6 F8 F2'

Instruction 'ADDD F6 F8 F2' ISSUED at clock 6 in 'Add1'

Instruction 'LD F2 45(R3)' BROADCASTED in CDB at clock 6 with value '49.0'

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| | | | | | | |
|----|-------|-------|------|------|------|-------|
| 5 | Mult0 | MULTD | True | 49.0 | 10.0 | |
| 12 | Mult1 | DIVD | True | 6.0 | 37.5 | Mult0 |

| Load Station | | | |
|--------------|-------|-------|---------|
| Time left | Tag | Busy | Address |
| | Load0 | False | |
| | Load1 | False | |
| | Load2 | False | |
| | Load3 | False | |
| | Load4 | False | |
| | Load5 | False | |

| Register | | | | | | | | | | |
|----------|-------|-----|------|-----|------|-----|------|-----|------|-----|
| Name | F0 | F1 | F2 | F3 | F4 | F5 | F6 | F7 | F8 | F9 |
| Qi | Mult0 | | | | | | Add1 | | Add0 | |
| Value | 6.0 | 0.0 | 49.0 | 0.0 | 10.0 | 0.0 | 37.5 | 0.0 | 7.8 | 0.0 |

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Clock cycle : 7
PC : 6

Instruction 'SUBD F8 F6 F2' STARTED at clock 7 in 'Add0'
Instruction 'MULTD F0 F2 F4' STARTED at clock 7 in 'Mult0'

| TIMING TABLE | | | | | |
|--------------|----------------|--------|---------|----------|-----------|
| PC | INSTRUCTION | ISSUED | STARTED | FINISHED | Write CDB |
| 0 | LD F6 34(R2) | 1 | 2 | 4 | 5 |
| 1 | LD F2 45(R3) | 2 | 3 | 5 | 6 |
| 2 | MULTD F0 F2 F4 | 3 | 7 | - | - |
| 3 | SUBD F8 F6 F2 | 4 | 7 | - | - |
| 4 | DIVD F10 F0 F6 | 5 | - | - | - |
| 5 | ADDD F6 F8 F2 | 6 | - | - | - |

| Reservation Station | | | | | | | |
|---------------------|-------|-------|-------|--------|--------|-------|----|
| Time left | Tag | OP | Busy | valueJ | valueK | Qj | Qk |
| 0 | Add0 | SUBD | True | 37.5 | 49.0 | | |
| 2 | Add1 | ADDD | True | 7.8 | 49.0 | Add0 | |
| | Add2 | | False | 0 | 0 | | |
| 4 | Mult0 | MULTD | True | 49.0 | 10.0 | | |
| 12 | Mult1 | DIVD | True | 6.0 | 37.5 | Mult0 | |

| Load Station | | | |
|--------------|-------|-------|---------|
| Time left | Tag | Busy | Address |
| | Load0 | False | |
| | Load1 | False | |
| | Load2 | False | |
| | Load3 | False | |
| | Load4 | False | |
| | Load5 | False | |

| Register | | | | | | | | | | |
|----------|-------|-----|------|-----|------|-----|------|-----|------|-----|
| Name | F0 | F1 | F2 | F3 | F4 | F5 | F6 | F7 | F8 | F9 |
| Qi | Mult0 | | | | | | Add1 | | Add0 | |
| Value | 6.0 | 0.0 | 49.0 | 0.0 | 10.0 | 0.0 | 37.5 | 0.0 | 7.8 | 0.0 |

#####

Clock cycle : 8
PC : 6

Instruction 'SUBD F8 F6 F2' FINISHED at clock 8 in 'Add0'

| TIMING TABLE | | | | | |
|--------------|-------------|--------|---------|----------|-----------|
| PC | INSTRUCTION | ISSUED | STARTED | FINISHED | Write CDB |

| | | | | | |
|---|----------------|---|---|---|---|
| 0 | LD F6 34(R2) | 1 | 2 | 4 | 5 |
| 1 | LD F2 45(R3) | 2 | 3 | 5 | 6 |
| 2 | MULTD F0 F2 F4 | 3 | 7 | - | - |
| 3 | SUBD F8 F6 F2 | 4 | 7 | 8 | - |
| 4 | DIVD F10 F0 F6 | 5 | - | - | - |
| 5 | ADDD F6 F8 F2 | 6 | - | - | - |

Reservation Station

| Time left | Tag | OP | Busy | valueJ | valueK | Qj | Qk |
|-----------|-------|-------|-------|--------|--------|-------|----|
| 0 | Add0 | SUBD | True | 37.5 | 49.0 | | |
| 2 | Add1 | ADDD | True | 7.8 | 49.0 | Add0 | |
| | Add2 | | False | 0 | 0 | | |
| 3 | Mult0 | MULTD | True | 49.0 | 10.0 | | |
| 12 | Mult1 | DIVD | True | 6.0 | 37.5 | Mult0 | |

Load Station

| Time left | Tag | Busy | Address |
|-----------|-------|-------|---------|
| | Load0 | False | |
| | Load1 | False | |
| | Load2 | False | |
| | Load3 | False | |
| | Load4 | False | |
| | Load5 | False | |

Register

| Name | F0 | F1 | F2 | F3 | F4 | F5 | F6 | F7 | F8 | F9 |
|-------|-------|-----|------|-----|------|-----|------|-----|------|-----|
| Qi | Mult0 | | | | | | Add1 | | Add0 | |
| Value | 6.0 | 0.0 | 49.0 | 0.0 | 10.0 | 0.0 | 37.5 | 0.0 | 7.8 | 0.0 |

#####

Clock cycle : 9
PC : 6

Instruction 'SUBD F8 F6 F2' BROADCASTED in CDB at clock 9 with value '-11.5'

TIMING TABLE

| PC | INSTRUCTION | ISSUED | STARTED | FINISHED | Write CDB |
|----|----------------|--------|---------|----------|-----------|
| 0 | LD F6 34(R2) | 1 | 2 | 4 | 5 |
| 1 | LD F2 45(R3) | 2 | 3 | 5 | 6 |
| 2 | MULTD F0 F2 F4 | 3 | 7 | - | - |
| 3 | SUBD F8 F6 F2 | 4 | 7 | 8 | 9 |
| 4 | DIVD F10 F0 F6 | 5 | - | - | - |
| 5 | ADDD F6 F8 F2 | 6 | - | - | - |

Reservation Station

| Time left | Tag | OP | Busy | valueJ | valueK | Qj | Qk |
|-----------|-------|-------|-------|--------|--------|-------|----|
| | Add0 | | False | 0 | 0 | | |
| 1 | Add1 | ADDD | True | -11.5 | 49.0 | | |
| | Add2 | | False | 0 | 0 | | |
| 2 | Mult0 | MULTD | True | 49.0 | 10.0 | | |
| 12 | Mult1 | DIVD | True | 6.0 | 37.5 | Mult0 | |

Load Station

| Time left | Tag | Busy | Address |
|-----------|-------|-------|---------|
| | Load0 | False | |
| | Load1 | False | |
| | Load2 | False | |
| | Load3 | False | |
| | Load4 | False | |
| | Load5 | False | |

Register

| Name | F0 | F1 | F2 | F3 | F4 | F5 | F6 | F7 | F8 | F9 |
|-------|-------|-----|------|-----|------|-----|------|-----|-------|-----|
| Qi | Mult0 | | | | | | Add1 | | | |
| Value | 6.0 | 0.0 | 49.0 | 0.0 | 10.0 | 0.0 | 37.5 | 0.0 | -11.5 | 0.0 |

#####

Clock cycle : 10
PC : 6

Instruction 'ADDD F6 F8 F2' STARTED at clock 10 in 'Add1'

| TIMING TABLE | | | | | |
|--------------|----------------|--------|---------|----------|-----------|
| PC | INSTRUCTION | ISSUED | STARTED | FINISHED | Write CDB |
| 0 | LD F6 34(R2) | 1 | 2 | 4 | 5 |
| 1 | LD F2 45(R3) | 2 | 3 | 5 | 6 |
| 2 | MULTD F0 F2 F4 | 3 | 7 | - | - |
| 3 | SUBD F8 F6 F2 | 4 | 7 | 8 | 9 |
| 4 | DIVD F10 F0 F6 | 5 | - | - | - |
| 5 | ADDD F6 F8 F2 | 6 | 10 | - | - |

| Reservation Station | | | | | | | |
|---------------------|-------|-------|-------|--------|--------|-------|----|
| Time left | Tag | OP | Busy | valueJ | valueK | Qj | Qk |
| 0 | Add0 | | False | 0 | 0 | | |
| | Add1 | ADDD | True | -11.5 | 49.0 | | |
| | Add2 | | False | 0 | 0 | | |
| 1 | Mult0 | MULTD | True | 49.0 | 10.0 | | |
| 12 | Mult1 | DIVD | True | 6.0 | 37.5 | Mult0 | |

| Load Station | | | |
|--------------|-------|-------|---------|
| Time left | Tag | Busy | Address |
| | Load0 | False | |
| | Load1 | False | |
| | Load2 | False | |
| | Load3 | False | |
| | Load4 | False | |
| | Load5 | False | |

| Register | | | | | | | | | | |
|----------|-------|-----|------|-----|------|-----|------|-----|-------|-----|
| Name | F0 | F1 | F2 | F3 | F4 | F5 | F6 | F7 | F8 | F9 |
| Qi | Mult0 | | | | | | Add1 | | | |
| Value | 6.0 | 0.0 | 49.0 | 0.0 | 10.0 | 0.0 | 37.5 | 0.0 | -11.5 | 0.0 |

#####

Clock cycle : 11
PC : 6

Instruction 'ADDD F6 F8 F2' FINISHED at clock 11 in 'Add1'

| TIMING TABLE | | | | | |
|--------------|----------------|--------|---------|----------|-----------|
| PC | INSTRUCTION | ISSUED | STARTED | FINISHED | Write CDB |
| 0 | LD F6 34(R2) | 1 | 2 | 4 | 5 |
| 1 | LD F2 45(R3) | 2 | 3 | 5 | 6 |
| 2 | MULTD F0 F2 F4 | 3 | 7 | - | - |
| 3 | SUBD F8 F6 F2 | 4 | 7 | 8 | 9 |
| 4 | DIVD F10 F0 F6 | 5 | - | - | - |
| 5 | ADDD F6 F8 F2 | 6 | 10 | 11 | - |

| Reservation Station | | | | | | | |
|---------------------|-------|-------|-------|--------|--------|-------|----|
| Time left | Tag | OP | Busy | valueJ | valueK | Qj | Qk |
| 0 | Add0 | | False | 0 | 0 | | |
| | Add1 | ADDD | True | -11.5 | 49.0 | | |
| | Add2 | | False | 0 | 0 | | |
| 0 | Mult0 | MULTD | True | 49.0 | 10.0 | | |
| 12 | Mult1 | DIVD | True | 6.0 | 37.5 | Mult0 | |

| Load Station | | | |
|--------------|-----|------|---------|
| Time left | Tag | Busy | Address |

| | |
|-------|-------|
| Load0 | False |
| Load1 | False |
| Load2 | False |
| Load3 | False |
| Load4 | False |
| Load5 | False |

Register

| | | | | | | | | | | |
|-------|-------|-----|------|-----|------|-----|------|-----|-------|-----|
| Name | F0 | F1 | F2 | F3 | F4 | F5 | F6 | F7 | F8 | F9 |
| Qi | Mult0 | | | | | | Add1 | | | |
| Value | 6.0 | 0.0 | 49.0 | 0.0 | 10.0 | 0.0 | 37.5 | 0.0 | -11.5 | 0.0 |

Clock cycle : 12
PC : 6

Instruction 'MULTD F0 F2 F4' FINISHED at clock 12 in 'Mult0'
Instruction 'ADDD F6 F8 F2' BROADCASTED in CDB at clock 12 with value '37.5'

TIMING TABLE

| PC | INSTRUCTION | ISSUED | STARTED | FINISHED | Write CDB |
|----|----------------|--------|---------|----------|-----------|
| 0 | LD F6 34(R2) | 1 | 2 | 4 | 5 |
| 1 | LD F2 45(R3) | 2 | 3 | 5 | 6 |
| 2 | MULTD F0 F2 F4 | 3 | 7 | 12 | - |
| 3 | SUBD F8 F6 F2 | 4 | 7 | 8 | 9 |
| 4 | DIVD F10 F0 F6 | 5 | - | - | - |
| 5 | ADDD F6 F8 F2 | 6 | 10 | 11 | 12 |

Reservation Station

| Time left | Tag | OP | Busy | valueJ | valueK | Qj | Qk |
|-----------|-------|-------|-------|--------|--------|-------|----|
| | Add0 | | False | 0 | 0 | | |
| | Add1 | | False | 0 | 0 | | |
| | Add2 | | False | 0 | 0 | | |
| 0 | Mult0 | MULTD | True | 49.0 | 10.0 | | |
| 12 | Mult1 | DIVD | True | 6.0 | 37.5 | Mult0 | |

Load Station

| Time left | Tag | Busy | Address |
|-----------|-------|-------|---------|
| | Load0 | False | |
| | Load1 | False | |
| | Load2 | False | |
| | Load3 | False | |
| | Load4 | False | |
| | Load5 | False | |

Register

| | | | | | | | | | | |
|-------|-------|-----|------|-----|------|-----|------|-----|-------|-----|
| Name | F0 | F1 | F2 | F3 | F4 | F5 | F6 | F7 | F8 | F9 |
| Qi | Mult0 | | | | | | | | | |
| Value | 6.0 | 0.0 | 49.0 | 0.0 | 10.0 | 0.0 | 37.5 | 0.0 | -11.5 | 0.0 |

Clock cycle : 13
PC : 6

Instruction 'MULTD F0 F2 F4' BROADCASTED in CDB at clock 13 with value '490.0'

TIMING TABLE

| PC | INSTRUCTION | ISSUED | STARTED | FINISHED | Write CDB |
|----|----------------|--------|---------|----------|-----------|
| 0 | LD F6 34(R2) | 1 | 2 | 4 | 5 |
| 1 | LD F2 45(R3) | 2 | 3 | 5 | 6 |
| 2 | MULTD F0 F2 F4 | 3 | 7 | 12 | 13 |
| 3 | SUBD F8 F6 F2 | 4 | 7 | 8 | 9 |
| 4 | DIVD F10 F0 F6 | 5 | - | - | - |
| 5 | ADDD F6 F8 F2 | 6 | 10 | 11 | 12 |

| Reservation Station | | | | | | | |
|---------------------|-------|------|-------|--------|--------|----|----|
| Time left | Tag | OP | Busy | valueJ | valueK | Qj | Qk |
| | Add0 | | False | 0 | 0 | | |
| | Add1 | | False | 0 | 0 | | |
| | Add2 | | False | 0 | 0 | | |
| | Mult0 | | False | 0 | 0 | | |
| 11 | Mult1 | DIVD | True | 490.0 | 37.5 | | |

| Load Station | | | |
|--------------|-------|-------|---------|
| Time left | Tag | Busy | Address |
| | Load0 | False | |
| | Load1 | False | |
| | Load2 | False | |
| | Load3 | False | |
| | Load4 | False | |
| | Load5 | False | |

| Register | | | | | | | | | | |
|----------|-------|-----|------|-----|------|-----|------|-----|-------|-----|
| Name | F0 | F1 | F2 | F3 | F4 | F5 | F6 | F7 | F8 | F9 |
| Qi | | | | | | | | | | |
| Value | 490.0 | 0.0 | 49.0 | 0.0 | 10.0 | 0.0 | 37.5 | 0.0 | -11.5 | 0.0 |

#####

Clock cycle : 14
PC : 6

Instruction 'DIVD F10 F0 F6' STARTED at clock 14 in 'Mult1'

| TIMING TABLE | | | | | | |
|--------------|----------------|--------|---------|----------|-----------|--|
| PC | INSTRUCTION | ISSUED | STARTED | FINISHED | Write CDB | |
| 0 | LD F6 34(R2) | 1 | 2 | 4 | 5 | |
| 1 | LD F2 45(R3) | 2 | 3 | 5 | 6 | |
| 2 | MULTD F0 F2 F4 | 3 | 7 | 12 | 13 | |
| 3 | SUBD F8 F6 F2 | 4 | 7 | 8 | 9 | |
| 4 | DIVD F10 F0 F6 | 5 | 14 | - | - | |
| 5 | ADDD F6 F8 F2 | 6 | 10 | 11 | 12 | |

| Reservation Station | | | | | | | |
|---------------------|-------|------|-------|--------|--------|----|----|
| Time left | Tag | OP | Busy | valueJ | valueK | Qj | Qk |
| | Add0 | | False | 0 | 0 | | |
| | Add1 | | False | 0 | 0 | | |
| | Add2 | | False | 0 | 0 | | |
| | Mult0 | | False | 0 | 0 | | |
| 10 | Mult1 | DIVD | True | 490.0 | 37.5 | | |

| Load Station | | | |
|--------------|-------|-------|---------|
| Time left | Tag | Busy | Address |
| | Load0 | False | |
| | Load1 | False | |
| | Load2 | False | |
| | Load3 | False | |
| | Load4 | False | |
| | Load5 | False | |

| Register | | | | | | | | | | |
|----------|-------|-----|------|-----|------|-----|------|-----|-------|-----|
| Name | F0 | F1 | F2 | F3 | F4 | F5 | F6 | F7 | F8 | F9 |
| Qi | | | | | | | | | | |
| Value | 490.0 | 0.0 | 49.0 | 0.0 | 10.0 | 0.0 | 37.5 | 0.0 | -11.5 | 0.0 |

#####

Clock cycle : 15
PC : 6

TIMING TABLE

| PC | INSTRUCTION | ISSUED | STARTED | FINISHED | Write CDB |
|----|----------------|--------|---------|----------|-----------|
| 0 | LD F6 34(R2) | 1 | 2 | 4 | 5 |
| 1 | LD F2 45(R3) | 2 | 3 | 5 | 6 |
| 2 | MULTD F0 F2 F4 | 3 | 7 | 12 | 13 |
| 3 | SUBD F8 F6 F2 | 4 | 7 | 8 | 9 |
| 4 | DIVD F10 F0 F6 | 5 | 14 | - | - |
| 5 | ADDD F6 F8 F2 | 6 | 10 | 11 | 12 |

Reservation Station

| Time left | Tag | OP | Busy | valueJ | valueK | Qj | Qk |
|-----------|-------|------|-------|--------|--------|----|----|
| | Add0 | | False | 0 | 0 | | |
| | Add1 | | False | 0 | 0 | | |
| | Add2 | | False | 0 | 0 | | |
| | Mult0 | | False | 0 | 0 | | |
| 9 | Mult1 | DIVD | True | 490.0 | 37.5 | | |

~~~~~  
Load Station

| Time left | Tag   | Busy  | Address |
|-----------|-------|-------|---------|
|           | Load0 | False |         |
|           | Load1 | False |         |
|           | Load2 | False |         |
|           | Load3 | False |         |
|           | Load4 | False |         |
|           | Load5 | False |         |

Register

| Name  | F0    | F1  | F2   | F3  | F4   | F5  | F6   | F7  | F8    | F9  |
|-------|-------|-----|------|-----|------|-----|------|-----|-------|-----|
| Qi    |       |     |      |     |      |     |      |     |       |     |
| Value | 490.0 | 0.0 | 49.0 | 0.0 | 10.0 | 0.0 | 37.5 | 0.0 | -11.5 | 0.0 |

Clock cycle : 16  
PC : 6

~~~~~  
TIMING TABLE

| PC | INSTRUCTION | ISSUED | STARTED | FINISHED | Write CDB |
|----|----------------|--------|---------|----------|-----------|
| 0 | LD F6 34(R2) | 1 | 2 | 4 | 5 |
| 1 | LD F2 45(R3) | 2 | 3 | 5 | 6 |
| 2 | MULTD F0 F2 F4 | 3 | 7 | 12 | 13 |
| 3 | SUBD F8 F6 F2 | 4 | 7 | 8 | 9 |
| 4 | DIVD F10 F0 F6 | 5 | 14 | - | - |
| 5 | ADD F6 F8 F2 | 6 | 10 | 11 | 12 |

~~~~~ Reservation Station ~~~~~

| Time left | Tag   | OP   | Busy  | valueJ | valueK | Qj | Qk |
|-----------|-------|------|-------|--------|--------|----|----|
|           | Add0  |      | False | 0      | 0      |    |    |
|           | Add1  |      | False | 0      | 0      |    |    |
|           | Add2  |      | False | 0      | 0      |    |    |
|           | Mult0 |      | False | 0      | 0      |    |    |
| 8         | Mult1 | DIVD | True  | 490.0  | 37.5   |    |    |

~~~~~  
Load Station

| Time left | Tag | Busy | Address |
|-----------|-------|-------|---------|
| | Load0 | False | |
| | Load1 | False | |
| | Load2 | False | |
| | Load3 | False | |
| | Load4 | False | |
| | Load5 | False | |

Register

| Name | F0 | F1 | F2 | F3 | F4 | F5 | F6 | F7 | F8 | F9 |
|-------|-------|-----|------|-----|------|-----|------|-----|-------|-----|
| Qi | | | | | | | | | | |
| Value | 490.0 | 0.0 | 49.0 | 0.0 | 10.0 | 0.0 | 37.5 | 0.0 | -11.5 | 0.0 |

Clock cycle : 17
PC : 6

| PC | INSTRUCTION | ISSUED | STARTED | FINISHED | Write CDB |
|----|----------------|--------|---------|----------|-----------|
| 0 | LD F6 34(R2) | 1 | 2 | 4 | 5 |
| 1 | LD F2 45(R3) | 2 | 3 | 5 | 6 |
| 2 | MULTD F0 F2 F4 | 3 | 7 | 12 | 13 |
| 3 | SUBD F8 F6 F2 | 4 | 7 | 8 | 9 |
| 4 | DIVD F10 F0 F6 | 5 | 14 | - | - |
| 5 | ADDD F6 F8 F2 | 6 | 10 | 11 | 12 |

| | | | | | | | |
|-----------|-------|------|-------|--------|--------|----|----|
| Time left | Tag | OP | Busy | valueJ | valueK | Qj | Qk |
| | Add0 | | False | 0 | 0 | | |
| | Add1 | | False | 0 | 0 | | |
| | Add2 | | False | 0 | 0 | | |
| | Mult0 | | False | 0 | 0 | | |
| 7 | Mult1 | DIVD | True | 490.0 | 37.5 | | |

| Time left | Tag | Busy | Address |
|-----------|-------|-------|---------|
| | Load0 | False | |
| | Load1 | False | |
| | Load2 | False | |
| | Load3 | False | |
| | Load4 | False | |
| | Load5 | False | |

| Name | F0 | F1 | F2 | F3 | F4 | F5 | F6 | F7 | F8 | F9 |
|-------|-------|-----|------|-----|------|-----|------|-----|-------|-----|
| Qi | | | | | | | | | | |
| Value | 490.0 | 0.0 | 49.0 | 0.0 | 10.0 | 0.0 | 37.5 | 0.0 | -11.5 | 0.0 |

Clock cycle : 18
PC : 6

| PC | INSTRUCTION | ISSUED | STARTED | FINISHED | Write CDB |
|----|----------------|--------|---------|----------|-----------|
| 0 | LD F6 34(R2) | 1 | 2 | 4 | 5 |
| 1 | LD F2 45(R3) | 2 | 3 | 5 | 6 |
| 2 | MULTD F0 F2 F4 | 3 | 7 | 12 | 13 |
| 3 | SUBD F8 F6 F2 | 4 | 7 | 8 | 9 |
| 4 | DIVD F10 F0 F6 | 5 | 14 | - | - |
| 5 | ADDD F6 F8 F2 | 6 | 10 | 11 | 12 |

| Time left | Tag | OP | Busy | valueJ | valueK | Qj | Qk |
|-----------|-------|------|-------|--------|--------|----|----|
| | Add0 | | False | 0 | 0 | | |
| | Add1 | | False | 0 | 0 | | |
| | Add2 | | False | 0 | 0 | | |
| | Mult0 | | False | 0 | 0 | | |
| 6 | Mult1 | DIVD | True | 490.0 | 37.5 | | |

Load Station

| Time left | Tag | Busy | Address |
|-----------|-------|-------|---------|
| | Load0 | False | |
| | Load1 | False | |
| | Load2 | False | |
| | Load3 | False | |
| | Load4 | False | |
| | Load5 | False | |

| Register | | | | | | | | | | |
|----------|-------|-----|------|-----|------|-----|------|-----|-------|-----|
| Name | F0 | F1 | F2 | F3 | F4 | F5 | F6 | F7 | F8 | F9 |
| Qi | | | | | | | | | | |
| Value | 490.0 | 0.0 | 49.0 | 0.0 | 10.0 | 0.0 | 37.5 | 0.0 | -11.5 | 0.0 |

#####

Clock cycle : 19
PC : 6

| TIMING TABLE | | | | | |
|--------------|----------------|--------|---------|----------|-----------|
| PC | INSTRUCTION | ISSUED | STARTED | FINISHED | Write CDB |
| 0 | LD F6 34(R2) | 1 | 2 | 4 | 5 |
| 1 | LD F2 45(R3) | 2 | 3 | 5 | 6 |
| 2 | MULTD F0 F2 F4 | 3 | 7 | 12 | 13 |
| 3 | SUBD F8 F6 F2 | 4 | 7 | 8 | 9 |
| 4 | DIVD F10 F0 F6 | 5 | 14 | - | - |
| 5 | ADDD F6 F8 F2 | 6 | 10 | 11 | 12 |

| Reservation Station | | | | | | | |
|---------------------|-------|------|-------|--------|--------|----|----|
| Time left | Tag | OP | Busy | valueJ | valueK | Qj | Qk |
| | Add0 | | False | 0 | 0 | | |
| | Add1 | | False | 0 | 0 | | |
| | Add2 | | False | 0 | 0 | | |
| | Mult0 | | False | 0 | 0 | | |
| 5 | Mult1 | DIVD | True | 490.0 | 37.5 | | |

| Load Station | | | |
|--------------|-------|-------|---------|
| Time left | Tag | Busy | Address |
| | Load0 | False | |
| | Load1 | False | |
| | Load2 | False | |
| | Load3 | False | |
| | Load4 | False | |
| | Load5 | False | |

| Register | | | | | | | | | | |
|----------|-------|-----|------|-----|------|-----|------|-----|-------|-----|
| Name | F0 | F1 | F2 | F3 | F4 | F5 | F6 | F7 | F8 | F9 |
| Qi | | | | | | | | | | |
| Value | 490.0 | 0.0 | 49.0 | 0.0 | 10.0 | 0.0 | 37.5 | 0.0 | -11.5 | 0.0 |

#####

Clock cycle : 20
PC : 6

| TIMING TABLE | | | | | |
|--------------|----------------|--------|---------|----------|-----------|
| PC | INSTRUCTION | ISSUED | STARTED | FINISHED | Write CDB |
| 0 | LD F6 34(R2) | 1 | 2 | 4 | 5 |
| 1 | LD F2 45(R3) | 2 | 3 | 5 | 6 |
| 2 | MULTD F0 F2 F4 | 3 | 7 | 12 | 13 |
| 3 | SUBD F8 F6 F2 | 4 | 7 | 8 | 9 |
| 4 | DIVD F10 F0 F6 | 5 | 14 | - | - |
| 5 | ADDD F6 F8 F2 | 6 | 10 | 11 | 12 |

| Reservation Station | | | | | | | |
|---------------------|-------|------|-------|--------|--------|----|----|
| Time left | Tag | OP | Busy | valueJ | valueK | Qj | Qk |
| | Add0 | | False | 0 | 0 | | |
| | Add1 | | False | 0 | 0 | | |
| | Add2 | | False | 0 | 0 | | |
| | Mult0 | | False | 0 | 0 | | |
| 4 | Mult1 | DIVD | True | 490.0 | 37.5 | | |

| Load Station | | | |
|--------------|-------|-------|---------|
| Time left | Tag | Busy | Address |
| | Load0 | False | |
| | Load1 | False | |
| | Load2 | False | |
| | Load3 | False | |
| | Load4 | False | |
| | Load5 | False | |

| Register | | | | | | | | | | |
|----------|-------|-----|------|-----|------|-----|------|-----|-------|-----|
| Name | F0 | F1 | F2 | F3 | F4 | F5 | F6 | F7 | F8 | F9 |
| Qi | | | | | | | | | | |
| Value | 490.0 | 0.0 | 49.0 | 0.0 | 10.0 | 0.0 | 37.5 | 0.0 | -11.5 | 0.0 |

#####

Clock cycle : 21
PC : 6

| TIMING TABLE | | | | | | |
|--------------|----------------|--------|---------|----------|-------|-----|
| PC | INSTRUCTION | ISSUED | STARTED | FINISHED | Write | CDB |
| 0 | LD F6 34(R2) | 1 | 2 | 4 | | 5 |
| 1 | LD F2 45(R3) | 2 | 3 | 5 | | 6 |
| 2 | MULTD F0 F2 F4 | 3 | 7 | 12 | | 13 |
| 3 | SUBD F8 F6 F2 | 4 | 7 | 8 | | 9 |
| 4 | DIVD F10 F0 F6 | 5 | 14 | - | | - |
| 5 | ADD F6 F8 F2 | 6 | 10 | 11 | | 12 |

| Reservation Station | | | | | | | |
|---------------------|-------|------|-------|--------|--------|----|----|
| Time left | Tag | OP | Busy | valueJ | valueK | Qj | Qk |
| | Add0 | | False | 0 | 0 | | |
| | Add1 | | False | 0 | 0 | | |
| | Add2 | | False | 0 | 0 | | |
| | Mult0 | | False | 0 | 0 | | |
| 3 | Mult1 | DIVD | True | 490.0 | 37.5 | | |

| Load Station | | | |
|--------------|-------|-------|---------|
| Time left | Tag | Busy | Address |
| | Load0 | False | |
| | Load1 | False | |
| | Load2 | False | |
| | Load3 | False | |
| | Load4 | False | |
| | Load5 | False | |

| Register | | | | | | | | | | |
|----------|-------|-----|------|-----|------|-----|------|-----|-------|-----|
| Name | F0 | F1 | F2 | F3 | F4 | F5 | F6 | F7 | F8 | F9 |
| Qi | | | | | | | | | | |
| Value | 490.0 | 0.0 | 49.0 | 0.0 | 10.0 | 0.0 | 37.5 | 0.0 | -11.5 | 0.0 |

#####

Clock cycle : 22
PC : 6

TIMING TABLE

| PC | INSTRUCTION | ISSUED | STARTED | FINISHED | Write CDB |
|----|----------------|--------|---------|----------|-----------|
| 0 | LD F6 34(R2) | 1 | 2 | 4 | 5 |
| 1 | LD F2 45(R3) | 2 | 3 | 5 | 6 |
| 2 | MULTD F0 F2 F4 | 3 | 7 | 12 | 13 |
| 3 | SUBD F8 F6 F2 | 4 | 7 | 8 | 9 |
| 4 | DIVD F10 F0 F6 | 5 | 14 | - | - |
| 5 | ADDD F6 F8 F2 | 6 | 10 | 11 | 12 |

Reservation Station

| Time left | Tag | OP | Busy | valueJ | valueK | Qj | Qk |
|-----------|-------|------|-------|--------|--------|----|----|
| | Add0 | | False | 0 | 0 | | |
| | Add1 | | False | 0 | 0 | | |
| | Add2 | | False | 0 | 0 | | |
| | Mult0 | | False | 0 | 0 | | |
| 2 | Mult1 | DIVD | True | 490.0 | 37.5 | | |

Load Station

| Time left | Tag | Busy | Address |
|-----------|-------|-------|---------|
| | Load0 | False | |
| | Load1 | False | |
| | Load2 | False | |
| | Load3 | False | |
| | Load4 | False | |
| | Load5 | False | |

Register

| Name | F0 | F1 | F2 | F3 | F4 | F5 | F6 | F7 | F8 | F9 |
|-------|-------|-----|------|-----|------|-----|------|-----|-------|-----|
| Qi | | | | | | | | | | |
| Value | 490.0 | 0.0 | 49.0 | 0.0 | 10.0 | 0.0 | 37.5 | 0.0 | -11.5 | 0.0 |

Clock cycle : 23

PC : 6

TIMING TABLE

| PC | INSTRUCTION | ISSUED | STARTED | FINISHED | Write CDB |
|----|----------------|--------|---------|----------|-----------|
| 0 | LD F6 34(R2) | 1 | 2 | 4 | 5 |
| 1 | LD F2 45(R3) | 2 | 3 | 5 | 6 |
| 2 | MULTD F0 F2 F4 | 3 | 7 | 12 | 13 |
| 3 | SUBD F8 F6 F2 | 4 | 7 | 8 | 9 |
| 4 | DIVD F10 F0 F6 | 5 | 14 | - | - |
| 5 | ADDD F6 F8 F2 | 6 | 10 | 11 | 12 |

Reservation Station

| Time left | Tag | OP | Busy | valueJ | valueK | Qj | Qk |
|-----------|-------|------|-------|--------|--------|----|----|
| | Add0 | | False | 0 | 0 | | |
| | Add1 | | False | 0 | 0 | | |
| | Add2 | | False | 0 | 0 | | |
| | Mult0 | | False | 0 | 0 | | |
| 1 | Mult1 | DIVD | True | 490.0 | 37.5 | | |

Load Station

| Time left | Tag | Busy | Address |
|-----------|-------|-------|---------|
| | Load0 | False | |
| | Load1 | False | |
| | Load2 | False | |
| | Load3 | False | |
| | Load4 | False | |
| | Load5 | False | |

Register

| Name | F0 | F1 | F2 | F3 | F4 | F5 | F6 | F7 | F8 | F9 |
|------|----|----|----|----|----|----|----|----|----|----|
|------|----|----|----|----|----|----|----|----|----|----|

| | | | | | | | | | | |
|-------|-------|-----|------|-----|------|-----|------|-----|-------|-----|
| Qi | | | | | | | | | | |
| Value | 490.0 | 0.0 | 49.0 | 0.0 | 10.0 | 0.0 | 37.5 | 0.0 | -11.5 | 0.0 |
| ##### | | | | | | | | | | |
| ##### | | | | | | | | | | |

Clock cycle : 24
PC : 6

| | | | | | |
|--------------|----------------|--------|---------|----------|-----------|
| TIMING TABLE | | | | | |
| PC | INSTRUCTION | ISSUED | STARTED | FINISHED | Write CDB |
| 0 | LD F6 34(R2) | 1 | 2 | 4 | 5 |
| 1 | LD F2 45(R3) | 2 | 3 | 5 | 6 |
| 2 | MULTD F0 F2 F4 | 3 | 7 | 12 | 13 |
| 3 | SUBD F8 F6 F2 | 4 | 7 | 8 | 9 |
| 4 | DIVD F10 F0 F6 | 5 | 14 | - | - |
| 5 | ADDD F6 F8 F2 | 6 | 10 | 11 | 12 |

| | | | | | | | |
|---------------------|-------|------|-------|--------|--------|----|----|
| Reservation Station | | | | | | | |
| Time left | Tag | OP | Busy | valueJ | valueK | Qj | Qk |
| | Add0 | | False | 0 | 0 | | |
| | Add1 | | False | 0 | 0 | | |
| | Add2 | | False | 0 | 0 | | |
| | Mult0 | | False | 0 | 0 | | |
| 0 | Mult1 | DIVD | True | 490.0 | 37.5 | | |

| | | | |
|--------------|-------|-------|---------|
| Load Station | | | |
| Time left | Tag | Busy | Address |
| | Load0 | False | |
| | Load1 | False | |
| | Load2 | False | |
| | Load3 | False | |
| | Load4 | False | |
| | Load5 | False | |

| | | | | | | | | | | |
|----------|-------|-----|------|-----|------|-----|------|-----|-------|-----|
| Register | | | | | | | | | | |
| Name | F0 | F1 | F2 | F3 | F4 | F5 | F6 | F7 | F8 | F9 |
| Qi | | | | | | | | | | |
| Value | 490.0 | 0.0 | 49.0 | 0.0 | 10.0 | 0.0 | 37.5 | 0.0 | -11.5 | 0.0 |

#####

#####

Clock cycle : 25
PC : 6

Instruction 'DIVD F10 F0 F6' FINISHED at clock 25 in 'Mult1'

| | | | | | |
|--------------|----------------|--------|---------|----------|-----------|
| TIMING TABLE | | | | | |
| PC | INSTRUCTION | ISSUED | STARTED | FINISHED | Write CDB |
| 0 | LD F6 34(R2) | 1 | 2 | 4 | 5 |
| 1 | LD F2 45(R3) | 2 | 3 | 5 | 6 |
| 2 | MULTD F0 F2 F4 | 3 | 7 | 12 | 13 |
| 3 | SUBD F8 F6 F2 | 4 | 7 | 8 | 9 |
| 4 | DIVD F10 F0 F6 | 5 | 14 | 25 | - |
| 5 | ADDD F6 F8 F2 | 6 | 10 | 11 | 12 |

| | | | | | | | |
|---------------------|-------|------|-------|--------|--------|----|----|
| Reservation Station | | | | | | | |
| Time left | Tag | OP | Busy | valueJ | valueK | Qj | Qk |
| | Add0 | | False | 0 | 0 | | |
| | Add1 | | False | 0 | 0 | | |
| | Add2 | | False | 0 | 0 | | |
| | Mult0 | | False | 0 | 0 | | |
| 0 | Mult1 | DIVD | True | 490.0 | 37.5 | | |

| | | | |
|--------------|--|--|--|
| Load Station | | | |
| | | | |

| | | | | | | | | | | |
|-----------|-------|-------|---------|-----|------|-----|------|-----|-------|-----|
| Time left | Tag | Busy | Address | | | | | | | |
| | Load0 | False | | | | | | | | |
| | Load1 | False | | | | | | | | |
| | Load2 | False | | | | | | | | |
| | Load3 | False | | | | | | | | |
| | Load4 | False | | | | | | | | |
| | Load5 | False | | | | | | | | |
| ~~~~~ | | | | | | | | | | |
| Register | | | | | | | | | | |
| ~~~~~ | | | | | | | | | | |
| Name | F0 | F1 | F2 | F3 | F4 | F5 | F6 | F7 | F8 | F9 |
| Qi | | | | | | | | | | |
| Value | 490.0 | 0.0 | 49.0 | 0.0 | 10.0 | 0.0 | 37.5 | 0.0 | -11.5 | 0.0 |
| ##### | | | | | | | | | | |
| ##### | | | | | | | | | | |

Clock cycle : 26
PC : 6

Instruction 'DIVD F10 F0 F6' BROADCASTED in CDB at clock 26 with value '13.067'

| | | | | | |
|--------------|----------------|--------|---------|----------|-----------|
| TIMING TABLE | | | | | |
| ~~~~~ | | | | | |
| PC | INSTRUCTION | ISSUED | STARTED | FINISHED | Write CDB |
| 0 | LD F6 34(R2) | 1 | 2 | 4 | 5 |
| 1 | LD F2 45(R3) | 2 | 3 | 5 | 6 |
| 2 | MULTD F0 F2 F4 | 3 | 7 | 12 | 13 |
| 3 | SUBD F8 F6 F2 | 4 | 7 | 8 | 9 |
| 4 | DIVD F10 F0 F6 | 5 | 14 | 25 | 26 |
| 5 | ADDD F6 F8 F2 | 6 | 10 | 11 | 12 |

| | | | | | | | |
|---------------------|-------|----|-------|--------|--------|----|----|
| Reservation Station | | | | | | | |
| ~~~~~ | | | | | | | |
| Time left | Tag | OP | Busy | valueJ | valueK | Qj | Qk |
| | Add0 | | False | 0 | 0 | | |
| | Add1 | | False | 0 | 0 | | |
| | Add2 | | False | 0 | 0 | | |
| | Mult0 | | False | 0 | 0 | | |
| | Mult1 | | False | 0 | 0 | | |

~~~~~

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

|          |       |     |      |     |      |     |      |     |       |     |
|----------|-------|-----|------|-----|------|-----|------|-----|-------|-----|
| ~~~~~    |       |     |      |     |      |     |      |     |       |     |
| Register |       |     |      |     |      |     |      |     |       |     |
| ~~~~~    |       |     |      |     |      |     |      |     |       |     |
| Name     | F0    | F1  | F2   | F3  | F4   | F5  | F6   | F7  | F8    | F9  |
| Qi       |       |     |      |     |      |     |      |     |       |     |
| Value    | 490.0 | 0.0 | 49.0 | 0.0 | 10.0 | 0.0 | 37.5 | 0.0 | -11.5 | 0.0 |