

In file system - console

Enter the number of files:

1

0: Enter the name of an ASM-file you want to work with (without .txt):

simple\_values

File 0: tests\simple\_values.txt

Data memory file path: tests\simple\_values-data.txt

Program memory file path: tests\simple\_values-prog.txt

Common info file path: tests\simple\_values-info.txt

Error file path: tests\simple\_values-error.txt

OpCode file path: tests\opcodes\_dbl.txt

avoid = 0x0000000000000000 address 0 = 00000000

x = 0x4000000000000000 address 1 = 00000001

z = 0x4010000000000000 address 2 = 00000010

y = 0x4028000000000000 address 3 = 00000011

q = 0x4010000000000000 address 4 = 00000100

u = 0x3FD0000000000000 address 5 = 00000101

p = 0x4014000000000000 address 6 = 00000110

l = 0x4018000000000000 address 7 = 00000111

w = 0x405A400000000000 address 8 = 00001000

v = 0x4014000000000000 address 9 = 00001001

x\_plus\_z = 0x0000000000000000 address 10 = 00001010

y\_div\_xz = 0x0000000000000000 address 11 = 00001011

q\_mul\_u = 0x0000000000000000 address 12 = 00001100

p\_mul\_l = 0x0000000000000000 address 13 = 00001101

v\_plus\_pl = 0x0000000000000000 address 14 = 00001110

w\_div\_vpl = 0x0000000000000000 address 15 = 00001111

yxz\_sub\_qu = 0x0000000000000000 address 16 = 00010000

a = 0x0000000000000000 address 17 = 00010001

1 add x z x\_plus\_z2 div y x\_plus\_z y\_div\_xz3 out y\_div\_xz ? 04 mul q u q\_mul\_u5 out q\_mul\_u

? 06 mul p l p\_mul\_l7 add v p\_mul\_l v\_plus\_pl8 div w v\_plus\_pl w\_div\_vpl9 out w\_div\_vpl ?

010 sub y\_div\_xz q\_mul\_u yxz\_sub\_qu11 add yxz\_sub\_qu w\_div\_vpl a12 out a ? 0

-----

add index: 1 level: 1

operand :x

read- 1,

write-

operand :z

read- 1,

write-

operand :x\_plus\_z

read- 2,

write- 1,

-----

div index: 2 level: 2

operand :y

read- 2,

write-

operand :x\_plus\_z

read- 2,

write- 1,

operand :y\_div\_xz

read- 3, 10,

write- 2,

-----

out index: 3 level: 3

```
operand :y_div_xz
  read- 3, 10,
  write- 2,
operand :?
  read-
  write-
operand :0
  read-
  write-
```

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```
mul index: 4 level: 1
```

```
operand :q
  read- 4,
  write-
operand :u
  read- 4,
  write-
operand :q_mul_u
  read- 5, 10,
  write- 4,
```

-----

```
out index: 5 level: 2
```

```
operand :q_mul_u
  read- 5, 10,
  write- 4,
operand :?
  read-
  write-
operand :0
  read-
  write-
```

-----

```
mul index: 6 level: 1
```

```
operand :p
  read- 6,
  write-
operand :l
  read- 6,
  write-
operand :p_mul_l
  read- 7,
  write- 6,
```

-----

```
add index: 7 level: 2
```

```
operand :v
  read- 7,
  write-
operand :p_mul_l
  read- 7,
  write- 6,
operand :v_plus_pl
  read- 8,
  write- 7,
```

-----

```
div index: 8 level: 3
```

```
operand :w
  read- 8,
```

```

    write-
operand :v_plus_pl
    read- 8,
    write- 7,
operand :w_div_vpl
    read- 9, 11,
    write- 8,

```

```

-----
out index: 9 level: 4
    operand :w_div_vpl
        read- 9, 11,
        write- 8,
    operand :?
        read-
        write-
    operand :0
        read-
        write-

```

```

-----
sub index: 10 level: 3
    operand :y_div_xz
        read- 3, 10,
        write- 2,
    operand :q_mul_u
        read- 5, 10,
        write- 4,
    operand :yxz_sub_qu
        read- 11,
        write- 10,

```

```

-----
add index: 11 level: 4
    operand :yxz_sub_qu
        read- 11,
        write- 10,
    operand :w_div_vpl
        read- 9, 11,
        write- 8,
    operand :a
        read- 12,
        write- 11,

```

```

-----
out index: 12 level: 5
    operand :a
        read- 12,
        write- 11,
    operand :?
        read-
        write-
    operand :0
        read-
        write-

```

```

takt: 0
- started 4
- rf{1 add x z x_plus_z=[1 add x z x_plus_z, 2 div y x_plus_z y_div_xz], 10 sub y_div_xz
q_mul_u yxz_sub_qu=[10 sub y_div_xz q_mul_u yxz_sub_qu, 11 add yxz_sub_qu w_div_vpl a], 6
mul p l p_mul_l=[6 mul p l p_mul_l, 7 add v p_mul_l v_plus_pl, 8 div w v_plus_pl w_div_vpl]}
- ready [1 add x z x_plus_z, 4 mul q u q_mul_u, 6 mul p l p_mul_l]

```

```

takt: 1
- started 6
- rf{1 add x z x_plus_z=[1 add x z x_plus_z, 2 div y x_plus_z y_div_xz], 10 sub y_div_xz
q_mul_u yxz_sub_qu=[10 sub y_div_xz q_mul_u yxz_sub_qu, 11 add yxz_sub_qu w_div_vpl a], 6
mul p 1 p_mul_l=[6 mul p 1 p_mul_l, 7 add v p_mul_l v_plus_pl, 8 div w v_plus_pl w_div_vpl]}
- ready [1 add x z x_plus_z, 6 mul p 1 p_mul_l]
takt: 2
- started 1
- rf{1 add x z x_plus_z=[1 add x z x_plus_z, 2 div y x_plus_z y_div_xz], 10 sub y_div_xz
q_mul_u yxz_sub_qu=[10 sub y_div_xz q_mul_u yxz_sub_qu, 11 add yxz_sub_qu w_div_vpl a], 6
mul p 1 p_mul_l=[6 mul p 1 p_mul_l, 7 add v p_mul_l v_plus_pl, 8 div w v_plus_pl w_div_vpl]}
- ready [1 add x z x_plus_z]
takt: 3
- rf{1 add x z x_plus_z=[1 add x z x_plus_z, 2 div y x_plus_z y_div_xz], 10 sub y_div_xz
q_mul_u yxz_sub_qu=[10 sub y_div_xz q_mul_u yxz_sub_qu, 11 add yxz_sub_qu w_div_vpl a], 6
mul p 1 p_mul_l=[6 mul p 1 p_mul_l, 7 add v p_mul_l v_plus_pl, 8 div w v_plus_pl w_div_vpl]}
- ready []
takt: 4
- rf{1 add x z x_plus_z=[1 add x z x_plus_z, 2 div y x_plus_z y_div_xz], 10 sub y_div_xz
q_mul_u yxz_sub_qu=[10 sub y_div_xz q_mul_u yxz_sub_qu, 11 add yxz_sub_qu w_div_vpl a], 6
mul p 1 p_mul_l=[6 mul p 1 p_mul_l, 7 add v p_mul_l v_plus_pl, 8 div w v_plus_pl w_div_vpl]}
- ready []
takt: 5
- rf{1 add x z x_plus_z=[1 add x z x_plus_z, 2 div y x_plus_z y_div_xz], 10 sub y_div_xz
q_mul_u yxz_sub_qu=[10 sub y_div_xz q_mul_u yxz_sub_qu, 11 add yxz_sub_qu w_div_vpl a], 6
mul p 1 p_mul_l=[6 mul p 1 p_mul_l, 7 add v p_mul_l v_plus_pl, 8 div w v_plus_pl w_div_vpl]}
- ready []
takt: 6
- started 2
- bypass 1 add x z x_plus_z to 2 div y x_plus_z y_div_xz
- rf{2 div y x_plus_z y_div_xz=[2 div y x_plus_z y_div_xz], 10 sub y_div_xz q_mul_u
yxz_sub_qu=[10 sub y_div_xz q_mul_u yxz_sub_qu, 11 add yxz_sub_qu w_div_vpl a], 6 mul p 1
p_mul_l=[6 mul p 1 p_mul_l, 7 add v p_mul_l v_plus_pl, 8 div w v_plus_pl w_div_vpl]}
- ready []
takt: 7
- rf{2 div y x_plus_z y_div_xz=[2 div y x_plus_z y_div_xz], 10 sub y_div_xz q_mul_u
yxz_sub_qu=[10 sub y_div_xz q_mul_u yxz_sub_qu, 11 add yxz_sub_qu w_div_vpl a], 6 mul p 1
p_mul_l=[6 mul p 1 p_mul_l, 7 add v p_mul_l v_plus_pl, 8 div w v_plus_pl w_div_vpl]}
- ready []
takt: 8
- rf{2 div y x_plus_z y_div_xz=[2 div y x_plus_z y_div_xz], 10 sub y_div_xz q_mul_u
yxz_sub_qu=[10 sub y_div_xz q_mul_u yxz_sub_qu, 11 add yxz_sub_qu w_div_vpl a], 6 mul p 1
p_mul_l=[6 mul p 1 p_mul_l, 7 add v p_mul_l v_plus_pl, 8 div w v_plus_pl w_div_vpl]}
- ready []
takt: 9
- rf{2 div y x_plus_z y_div_xz=[2 div y x_plus_z y_div_xz], 10 sub y_div_xz q_mul_u
yxz_sub_qu=[10 sub y_div_xz q_mul_u yxz_sub_qu, 11 add yxz_sub_qu w_div_vpl a], 6 mul p 1
p_mul_l=[6 mul p 1 p_mul_l, 7 add v p_mul_l v_plus_pl, 8 div w v_plus_pl w_div_vpl]}
- ready []
takt: 10
- rf{2 div y x_plus_z y_div_xz=[2 div y x_plus_z y_div_xz], 10 sub y_div_xz q_mul_u
yxz_sub_qu=[10 sub y_div_xz q_mul_u yxz_sub_qu, 11 add yxz_sub_qu w_div_vpl a], 6 mul p 1
p_mul_l=[6 mul p 1 p_mul_l, 7 add v p_mul_l v_plus_pl, 8 div w v_plus_pl w_div_vpl]}
- ready []
takt: 11
- rf{2 div y x_plus_z y_div_xz=[2 div y x_plus_z y_div_xz], 10 sub y_div_xz q_mul_u
yxz_sub_qu=[10 sub y_div_xz q_mul_u yxz_sub_qu, 11 add yxz_sub_qu w_div_vpl a], 6 mul p 1

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p_mul_l=[6 mul p l p_mul_l, 7 add v p_mul_l v_plus_pl, 8 div w v_plus_pl w_div_vpl]}
- ready []
takt: 12
- rf{2 div y x_plus_z y_div_xz=[2 div y x_plus_z y_div_xz], 10 sub y_div_xz q_mul_u
yxz_sub_qu=[10 sub y_div_xz q_mul_u yxz_sub_qu, 11 add yxz_sub_qu w_div_vpl a], 6 mul p l
p_mul_l=[6 mul p l p_mul_l, 7 add v p_mul_l v_plus_pl, 8 div w v_plus_pl w_div_vpl]}
- ready []
takt: 13
- rf{2 div y x_plus_z y_div_xz=[2 div y x_plus_z y_div_xz], 10 sub y_div_xz q_mul_u
yxz_sub_qu=[10 sub y_div_xz q_mul_u yxz_sub_qu, 11 add yxz_sub_qu w_div_vpl a], 6 mul p l
p_mul_l=[6 mul p l p_mul_l, 7 add v p_mul_l v_plus_pl, 8 div w v_plus_pl w_div_vpl]}
- ready []
takt: 14
- rf{2 div y x_plus_z y_div_xz=[2 div y x_plus_z y_div_xz], 10 sub y_div_xz q_mul_u
yxz_sub_qu=[10 sub y_div_xz q_mul_u yxz_sub_qu, 11 add yxz_sub_qu w_div_vpl a], 6 mul p l
p_mul_l=[6 mul p l p_mul_l, 7 add v p_mul_l v_plus_pl, 8 div w v_plus_pl w_div_vpl]}
- ready []
takt: 15
- writeback4 mul q u q_mul_u
- rf{2 div y x_plus_z y_div_xz=[2 div y x_plus_z y_div_xz], 10 sub y_div_xz q_mul_u
yxz_sub_qu=[10 sub y_div_xz q_mul_u yxz_sub_qu, 11 add yxz_sub_qu w_div_vpl a], 6 mul p l
p_mul_l=[6 mul p l p_mul_l, 7 add v p_mul_l v_plus_pl, 8 div w v_plus_pl w_div_vpl]}
- ready []
takt: 16
- started 7
- bypass 6 mul p l p_mul_l to 7 add v p_mul_l v_plus_pl
- rf{7 add v p_mul_l v_plus_pl=[7 add v p_mul_l v_plus_pl, 8 div w v_plus_pl w_div_vpl], 2
div y x_plus_z y_div_xz=[2 div y x_plus_z y_div_xz], 10 sub y_div_xz q_mul_u yxz_sub_qu=[10
sub y_div_xz q_mul_u yxz_sub_qu, 11 add yxz_sub_qu w_div_vpl a]}
- ready []
takt: 17
- ended 4 mul q u q_mul_u
3 of 12
- rf{7 add v p_mul_l v_plus_pl=[7 add v p_mul_l v_plus_pl, 8 div w v_plus_pl w_div_vpl], 2
div y x_plus_z y_div_xz=[2 div y x_plus_z y_div_xz], 10 sub y_div_xz q_mul_u yxz_sub_qu=[10
sub y_div_xz q_mul_u yxz_sub_qu, 11 add yxz_sub_qu w_div_vpl a]}
- ready []
takt: 18
- rf{7 add v p_mul_l v_plus_pl=[7 add v p_mul_l v_plus_pl, 8 div w v_plus_pl w_div_vpl], 2
div y x_plus_z y_div_xz=[2 div y x_plus_z y_div_xz], 10 sub y_div_xz q_mul_u yxz_sub_qu=[10
sub y_div_xz q_mul_u yxz_sub_qu, 11 add yxz_sub_qu w_div_vpl a]}
- ready []
takt: 19
- started 8
- bypass 7 add v p_mul_l v_plus_pl to 8 div w v_plus_pl w_div_vpl
- rf{8 div w v_plus_pl w_div_vpl=[8 div w v_plus_pl w_div_vpl], 2 div y x_plus_z
y_div_xz=[2 div y x_plus_z y_div_xz], 10 sub y_div_xz q_mul_u yxz_sub_qu=[10 sub y_div_xz
q_mul_u yxz_sub_qu, 11 add yxz_sub_qu w_div_vpl a]}
- ready []
takt: 20
- rf{8 div w v_plus_pl w_div_vpl=[8 div w v_plus_pl w_div_vpl], 2 div y x_plus_z
y_div_xz=[2 div y x_plus_z y_div_xz], 10 sub y_div_xz q_mul_u yxz_sub_qu=[10 sub y_div_xz
q_mul_u yxz_sub_qu, 11 add yxz_sub_qu w_div_vpl a]}
- ready []
takt: 21
- rf{8 div w v_plus_pl w_div_vpl=[8 div w v_plus_pl w_div_vpl], 2 div y x_plus_z
y_div_xz=[2 div y x_plus_z y_div_xz], 10 sub y_div_xz q_mul_u yxz_sub_qu=[10 sub y_div_xz

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q_mul_u yxz_sub_qu, 11 add yxz_sub_qu w_div_vpl a}}
- ready []
takt: 22
- rf{8 div w v_plus_pl w_div_vpl=[8 div w v_plus_pl w_div_vpl], 2 div y x_plus_z
y_div_xz=[2 div y x_plus_z y_div_xz], 10 sub y_div_xz q_mul_u yxz_sub_qu=[10 sub y_div_xz
q_mul_u yxz_sub_qu, 11 add yxz_sub_qu w_div_vpl a}}
- ready []
takt: 23
- rf{8 div w v_plus_pl w_div_vpl=[8 div w v_plus_pl w_div_vpl], 2 div y x_plus_z
y_div_xz=[2 div y x_plus_z y_div_xz], 10 sub y_div_xz q_mul_u yxz_sub_qu=[10 sub y_div_xz
q_mul_u yxz_sub_qu, 11 add yxz_sub_qu w_div_vpl a}}
- ready []
takt: 24
- rf{8 div w v_plus_pl w_div_vpl=[8 div w v_plus_pl w_div_vpl], 2 div y x_plus_z
y_div_xz=[2 div y x_plus_z y_div_xz], 10 sub y_div_xz q_mul_u yxz_sub_qu=[10 sub y_div_xz
q_mul_u yxz_sub_qu, 11 add yxz_sub_qu w_div_vpl a}}
- ready []
takt: 25
- rf{8 div w v_plus_pl w_div_vpl=[8 div w v_plus_pl w_div_vpl], 2 div y x_plus_z
y_div_xz=[2 div y x_plus_z y_div_xz], 10 sub y_div_xz q_mul_u yxz_sub_qu=[10 sub y_div_xz
q_mul_u yxz_sub_qu, 11 add yxz_sub_qu w_div_vpl a}}
- ready []
takt: 26
- rf{8 div w v_plus_pl w_div_vpl=[8 div w v_plus_pl w_div_vpl], 2 div y x_plus_z
y_div_xz=[2 div y x_plus_z y_div_xz], 10 sub y_div_xz q_mul_u yxz_sub_qu=[10 sub y_div_xz
q_mul_u yxz_sub_qu, 11 add yxz_sub_qu w_div_vpl a}}
- ready []
takt: 27
- rf{8 div w v_plus_pl w_div_vpl=[8 div w v_plus_pl w_div_vpl], 2 div y x_plus_z
y_div_xz=[2 div y x_plus_z y_div_xz], 10 sub y_div_xz q_mul_u yxz_sub_qu=[10 sub y_div_xz
q_mul_u yxz_sub_qu, 11 add yxz_sub_qu w_div_vpl a}}
- ready []
takt: 28
- rf{8 div w v_plus_pl w_div_vpl=[8 div w v_plus_pl w_div_vpl], 2 div y x_plus_z
y_div_xz=[2 div y x_plus_z y_div_xz], 10 sub y_div_xz q_mul_u yxz_sub_qu=[10 sub y_div_xz
q_mul_u yxz_sub_qu, 11 add yxz_sub_qu w_div_vpl a}}
- ready []
takt: 29
- rf{8 div w v_plus_pl w_div_vpl=[8 div w v_plus_pl w_div_vpl], 2 div y x_plus_z
y_div_xz=[2 div y x_plus_z y_div_xz], 10 sub y_div_xz q_mul_u yxz_sub_qu=[10 sub y_div_xz
q_mul_u yxz_sub_qu, 11 add yxz_sub_qu w_div_vpl a}}
- ready []
takt: 30
- rf{8 div w v_plus_pl w_div_vpl=[8 div w v_plus_pl w_div_vpl], 2 div y x_plus_z
y_div_xz=[2 div y x_plus_z y_div_xz], 10 sub y_div_xz q_mul_u yxz_sub_qu=[10 sub y_div_xz
q_mul_u yxz_sub_qu, 11 add yxz_sub_qu w_div_vpl a}}
- ready []
takt: 31
- rf{8 div w v_plus_pl w_div_vpl=[8 div w v_plus_pl w_div_vpl], 2 div y x_plus_z
y_div_xz=[2 div y x_plus_z y_div_xz], 10 sub y_div_xz q_mul_u yxz_sub_qu=[10 sub y_div_xz
q_mul_u yxz_sub_qu, 11 add yxz_sub_qu w_div_vpl a}}
- ready []
takt: 32
- rf{8 div w v_plus_pl w_div_vpl=[8 div w v_plus_pl w_div_vpl], 2 div y x_plus_z
y_div_xz=[2 div y x_plus_z y_div_xz], 10 sub y_div_xz q_mul_u yxz_sub_qu=[10 sub y_div_xz
q_mul_u yxz_sub_qu, 11 add yxz_sub_qu w_div_vpl a}}
- ready []
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takt: 33
- rf{8 div w v_plus_pl w_div_vpl=[8 div w v_plus_pl w_div_vpl], 2 div y x_plus_z
y_div_xz=[2 div y x_plus_z y_div_xz], 10 sub y_div_xz q_mul_u yxz_sub_qu=[10 sub y_div_xz
q_mul_u yxz_sub_qu, 11 add yxz_sub_qu w_div_vpl a]}
- ready []

takt: 34
- rf{8 div w v_plus_pl w_div_vpl=[8 div w v_plus_pl w_div_vpl], 2 div y x_plus_z
y_div_xz=[2 div y x_plus_z y_div_xz], 10 sub y_div_xz q_mul_u yxz_sub_qu=[10 sub y_div_xz
q_mul_u yxz_sub_qu, 11 add yxz_sub_qu w_div_vpl a]}
- ready []

takt: 35
- rf{8 div w v_plus_pl w_div_vpl=[8 div w v_plus_pl w_div_vpl], 2 div y x_plus_z
y_div_xz=[2 div y x_plus_z y_div_xz], 10 sub y_div_xz q_mul_u yxz_sub_qu=[10 sub y_div_xz
q_mul_u yxz_sub_qu, 11 add yxz_sub_qu w_div_vpl a]}
- ready []

takt: 36
- rf{8 div w v_plus_pl w_div_vpl=[8 div w v_plus_pl w_div_vpl], 2 div y x_plus_z
y_div_xz=[2 div y x_plus_z y_div_xz], 10 sub y_div_xz q_mul_u yxz_sub_qu=[10 sub y_div_xz
q_mul_u yxz_sub_qu, 11 add yxz_sub_qu w_div_vpl a]}
- ready []

takt: 37
- rf{8 div w v_plus_pl w_div_vpl=[8 div w v_plus_pl w_div_vpl], 2 div y x_plus_z
y_div_xz=[2 div y x_plus_z y_div_xz], 10 sub y_div_xz q_mul_u yxz_sub_qu=[10 sub y_div_xz
q_mul_u yxz_sub_qu, 11 add yxz_sub_qu w_div_vpl a]}
- ready []

takt: 38
- rf{8 div w v_plus_pl w_div_vpl=[8 div w v_plus_pl w_div_vpl], 2 div y x_plus_z
y_div_xz=[2 div y x_plus_z y_div_xz], 10 sub y_div_xz q_mul_u yxz_sub_qu=[10 sub y_div_xz
q_mul_u yxz_sub_qu, 11 add yxz_sub_qu w_div_vpl a]}
- ready []

takt: 39
- rf{8 div w v_plus_pl w_div_vpl=[8 div w v_plus_pl w_div_vpl], 2 div y x_plus_z
y_div_xz=[2 div y x_plus_z y_div_xz], 10 sub y_div_xz q_mul_u yxz_sub_qu=[10 sub y_div_xz
q_mul_u yxz_sub_qu, 11 add yxz_sub_qu w_div_vpl a]}
- ready []

takt: 40
- rf{8 div w v_plus_pl w_div_vpl=[8 div w v_plus_pl w_div_vpl], 2 div y x_plus_z
y_div_xz=[2 div y x_plus_z y_div_xz], 10 sub y_div_xz q_mul_u yxz_sub_qu=[10 sub y_div_xz
q_mul_u yxz_sub_qu, 11 add yxz_sub_qu w_div_vpl a]}
- ready []

takt: 41
- rf{8 div w v_plus_pl w_div_vpl=[8 div w v_plus_pl w_div_vpl], 2 div y x_plus_z
y_div_xz=[2 div y x_plus_z y_div_xz], 10 sub y_div_xz q_mul_u yxz_sub_qu=[10 sub y_div_xz
q_mul_u yxz_sub_qu, 11 add yxz_sub_qu w_div_vpl a]}
- ready []

takt: 42
- rf{8 div w v_plus_pl w_div_vpl=[8 div w v_plus_pl w_div_vpl], 2 div y x_plus_z
y_div_xz=[2 div y x_plus_z y_div_xz], 10 sub y_div_xz q_mul_u yxz_sub_qu=[10 sub y_div_xz
q_mul_u yxz_sub_qu, 11 add yxz_sub_qu w_div_vpl a]}
- ready []

takt: 43
- rf{8 div w v_plus_pl w_div_vpl=[8 div w v_plus_pl w_div_vpl], 2 div y x_plus_z
y_div_xz=[2 div y x_plus_z y_div_xz], 10 sub y_div_xz q_mul_u yxz_sub_qu=[10 sub y_div_xz
q_mul_u yxz_sub_qu, 11 add yxz_sub_qu w_div_vpl a]}
- ready []

takt: 44
- rf{8 div w v_plus_pl w_div_vpl=[8 div w v_plus_pl w_div_vpl], 2 div y x_plus_z
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y_div_xz=[2 div y x_plus_z y_div_xz], 10 sub y_div_xz q_mul_u yxz_sub_qu=[10 sub y_div_xz
q_mul_u yxz_sub_qu, 11 add yxz_sub_qu w_div_vpl a]}
- ready []
takt: 45
- writeback2 div y x_plus_z y_div_xz
- rf{8 div w v_plus_pl w_div_vpl=[8 div w v_plus_pl w_div_vpl], 10 sub y_div_xz q_mul_u
yxz_sub_qu=[10 sub y_div_xz q_mul_u yxz_sub_qu, 11 add yxz_sub_qu w_div_vpl a]}
- ready []
takt: 46
- rf{8 div w v_plus_pl w_div_vpl=[8 div w v_plus_pl w_div_vpl], 10 sub y_div_xz q_mul_u
yxz_sub_qu=[10 sub y_div_xz q_mul_u yxz_sub_qu, 11 add yxz_sub_qu w_div_vpl a]}
- ready []
takt: 47
- ended 2 div y x_plus_z y_div_xz
5 of 12
- rf{8 div w v_plus_pl w_div_vpl=[8 div w v_plus_pl w_div_vpl], 10 sub y_div_xz q_mul_u
yxz_sub_qu=[10 sub y_div_xz q_mul_u yxz_sub_qu, 11 add yxz_sub_qu w_div_vpl a]}
- ready []
takt: 48
- started 10
- rf{8 div w v_plus_pl w_div_vpl=[8 div w v_plus_pl w_div_vpl], 10 sub y_div_xz q_mul_u
yxz_sub_qu=[10 sub y_div_xz q_mul_u yxz_sub_qu, 11 add yxz_sub_qu w_div_vpl a]}
- ready [3 out y_div_xz ? 0, 10 sub y_div_xz q_mul_u yxz_sub_qu]
takt: 49
- started 3
- rf{8 div w v_plus_pl w_div_vpl=[8 div w v_plus_pl w_div_vpl], 10 sub y_div_xz q_mul_u
yxz_sub_qu=[10 sub y_div_xz q_mul_u yxz_sub_qu, 11 add yxz_sub_qu w_div_vpl a]}
- ready [3 out y_div_xz ? 0]
takt: 50
- rf{8 div w v_plus_pl w_div_vpl=[8 div w v_plus_pl w_div_vpl], 10 sub y_div_xz q_mul_u
yxz_sub_qu=[10 sub y_div_xz q_mul_u yxz_sub_qu, 11 add yxz_sub_qu w_div_vpl a]}
- ready []
takt: 51
- rf{8 div w v_plus_pl w_div_vpl=[8 div w v_plus_pl w_div_vpl], 10 sub y_div_xz q_mul_u
yxz_sub_qu=[10 sub y_div_xz q_mul_u yxz_sub_qu, 11 add yxz_sub_qu w_div_vpl a]}
- ready []
takt: 52
- failed -10 sub y_div_xz q_mul_u yxz_sub_qu11 add yxz_sub_qu w_div_vpl ataktOccupiedtrue
statusnotPermittedStatus
- writeback10 sub y_div_xz q_mul_u yxz_sub_qu
- ended 3 out y_div_xz ? 0
6 of 12
- rf{8 div w v_plus_pl w_div_vpl=[8 div w v_plus_pl w_div_vpl], 11 add yxz_sub_qu w_div_vpl
a=[11 add yxz_sub_qu w_div_vpl a]}
- ready []
takt: 53
- started 5
- rf{8 div w v_plus_pl w_div_vpl=[8 div w v_plus_pl w_div_vpl], 11 add yxz_sub_qu w_div_vpl
a=[11 add yxz_sub_qu w_div_vpl a]}
- ready [5 out q_mul_u ? 0]
takt: 54
- ended 10 sub y_div_xz q_mul_u yxz_sub_qu
7 of 12
- rf{8 div w v_plus_pl w_div_vpl=[8 div w v_plus_pl w_div_vpl], 11 add yxz_sub_qu w_div_vpl
a=[11 add yxz_sub_qu w_div_vpl a]}
- ready []
takt: 55
```



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- rf{8 div w v_plus_pl w_div_vpl=[8 div w v_plus_pl w_div_vpl], 11 add yxz_sub_qu w_div_vpl
a=[11 add yxz_sub_qu w_div_vpl a]}
- ready []
takt: 56
- ended 5 out q_mul_u ? 0
8 of 12
- rf{8 div w v_plus_pl w_div_vpl=[8 div w v_plus_pl w_div_vpl], 11 add yxz_sub_qu w_div_vpl
a=[11 add yxz_sub_qu w_div_vpl a]}
- ready []
takt: 57
- rf{8 div w v_plus_pl w_div_vpl=[8 div w v_plus_pl w_div_vpl], 11 add yxz_sub_qu w_div_vpl
a=[11 add yxz_sub_qu w_div_vpl a]}
- ready []
takt: 58
- writeback8 div w v_plus_pl w_div_vpl
- rf{11 add yxz_sub_qu w_div_vpl a=[11 add yxz_sub_qu w_div_vpl a]}
- ready []
takt: 59
- rf{11 add yxz_sub_qu w_div_vpl a=[11 add yxz_sub_qu w_div_vpl a]}
- ready []
takt: 60
- ended 8 div w v_plus_pl w_div_vpl
9 of 12
- rf{11 add yxz_sub_qu w_div_vpl a=[11 add yxz_sub_qu w_div_vpl a]}
- ready []
takt: 61
- started 11
- rf{11 add yxz_sub_qu w_div_vpl a=[11 add yxz_sub_qu w_div_vpl a]}
- ready [9 out w_div_vpl ? 0, 11 add yxz_sub_qu w_div_vpl a]
takt: 62
- started 9
- rf{11 add yxz_sub_qu w_div_vpl a=[11 add yxz_sub_qu w_div_vpl a]}
- ready [9 out w_div_vpl ? 0]
takt: 63
- rf{11 add yxz_sub_qu w_div_vpl a=[11 add yxz_sub_qu w_div_vpl a]}
- ready []
takt: 64
- rf{11 add yxz_sub_qu w_div_vpl a=[11 add yxz_sub_qu w_div_vpl a]}
- ready []
takt: 65
- writeback11 add yxz_sub_qu w_div_vpl a
- ended 9 out w_div_vpl ? 0
10 of 12
- rf{}
- ready []
takt: 66
- rf{}
- ready []
takt: 67
- ended 11 add yxz_sub_qu w_div_vpl a
11 of 12
- rf{}
- ready []
takt: 68
- started 12
- rf{}
- ready [12 out a ? 0]

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takt: 69
- rf{}
- ready []
takt: 70
- rf{}
- ready []
takt: 71
- ended 12 out a ? 0
12 of 12
- rf{}
- ready []
```

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