

Edit Microinstructions						
Type of Microinstruction: Arithmetic						
name	type	source1	source2	destination	overflowBit	carryBit
acc=acc*mdr	MULTIPLY	acc	mdr	acc	halt-bit	(none)
acc=acc+mdr	ADD	acc	mdr	acc	halt-bit	(none)
acc=acc-mdr	SUBTRACT	acc	mdr	acc	halt-bit	(none)

Instructions

multiply
stop
load
store
read
write
add
subtract
multiply
jump
jmpz

new

dup

del

Format

Implementation

Instruction

Length: 16

Opcode 0x8

4

12

op

addr

To add fields, drag them in from the list of fields on the right.

To delete fields, drag them out away from the other fields.

Assembly

op

addr

All Fields

addr

unused

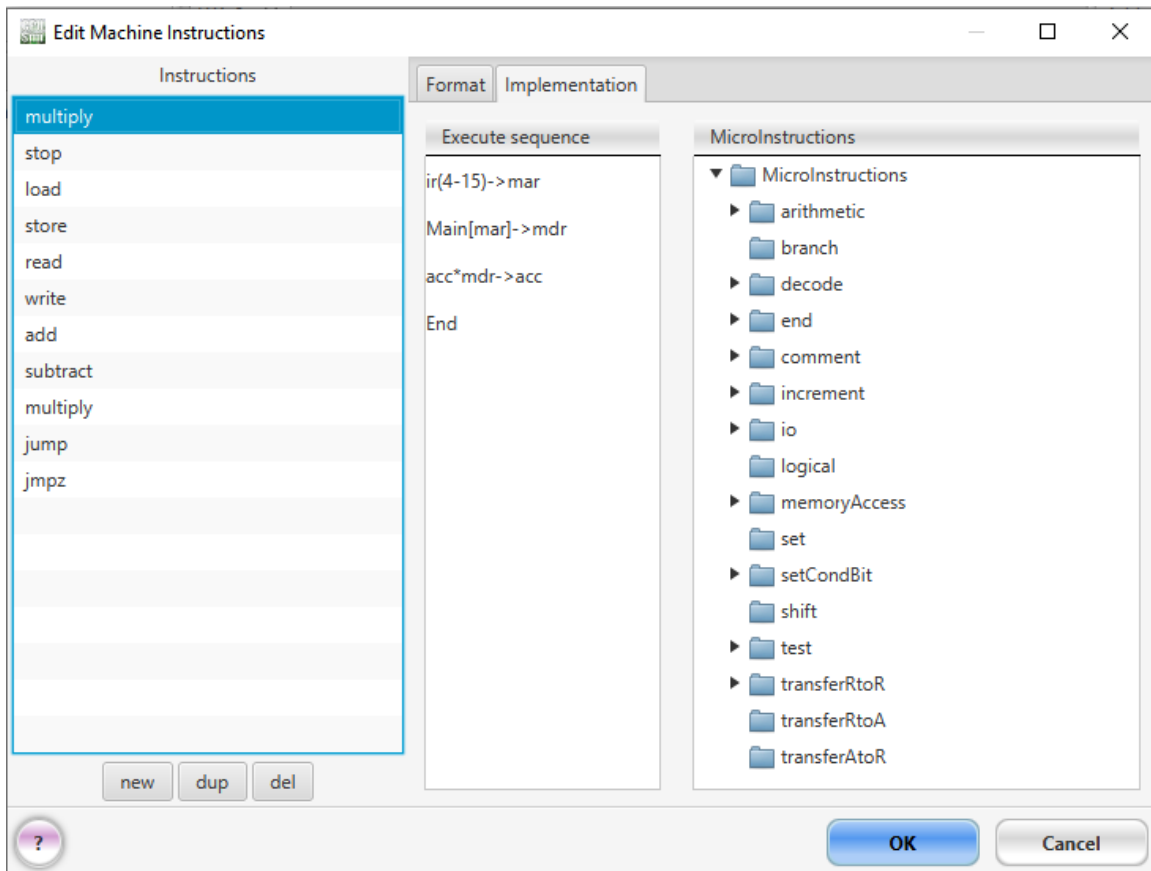
op

Edit Fields...

?

OK

Cancel



File
Edit
Modify
Execute
Help

Data
Dec

Registers

Name	Width	Data
pc	12	16
acc	16	15
ir	16	0
mar	12	14
mdr	16	0
status	3	-4

*b X
NEW X

```

1 ;abdalkarim aldabash 120170798
2
3
4 Start:  read
5         jmpz  Done
6         multiply  s
7         store  s
8         jump  Start
9
10
11 Done:   load  s
12         write
13         stop
14
15 s:      .data 2 1
16

```

EXECUTING...
 Enter Inputs, the first of which must be an Integer: 5
 Enter Inputs, the first of which must be an Integer: 3
 Enter Inputs, the first of which must be an Integer: 0
 Output: 15
 EXECUTION HALTED NORMALLY due to the setting of the bit(s): [halt-bit]