

Workshop de Assembly:

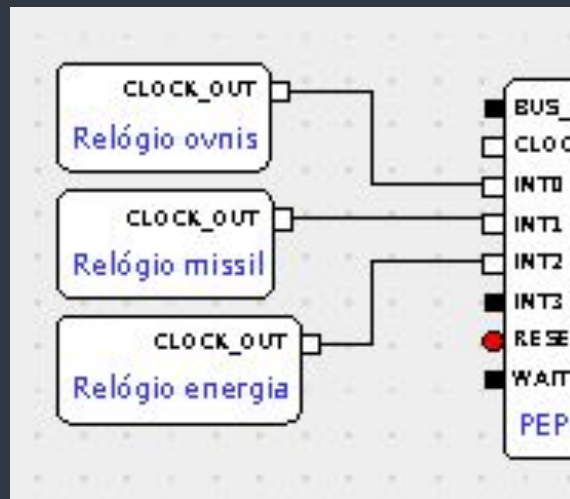
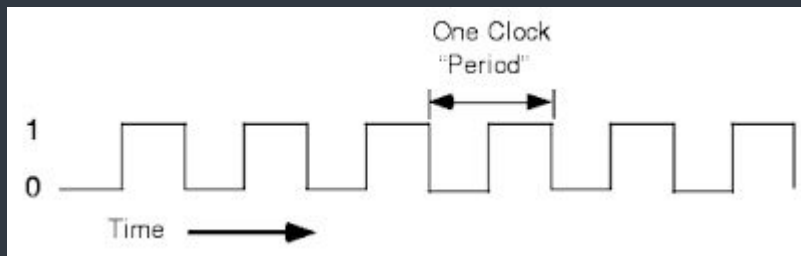
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; https://github.com/Jonyleo/IST_Projects/tree/master/workshops/ASM2

Resumo:

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- ; * Exercício (Live coding)
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- ; * Exercício (Live coding)
- ; * Erros comuns e Debugging
- ; * Duvidas

Interrupções:

; Relógios



Interrupções:

; Rotinas de interrupção

interrupt:

; pushes

; code

; pops

RFE

Interrupções:

```
; BTE  
PLACE 1000H  
BTE_Start:  
WORD interrupt  
WORD 0  
WORD 0  
WORD 0
```

Interrupções:

```
; BTE  
PLACE 0
```

```
MOV BTE, BTE_Start
```

Interrupções:

; Enabling interruptions

PLACE 0

MOV BTE, BTE_Start

EIO

Interrupções:

; Enabling interruptions

PLACE 0

MOV BTE, BTE_Start

EIO

EI

Interrupções:

; Disabling interruptions

DI

DI0

Interrupções:

; Disabling interruptions

DI

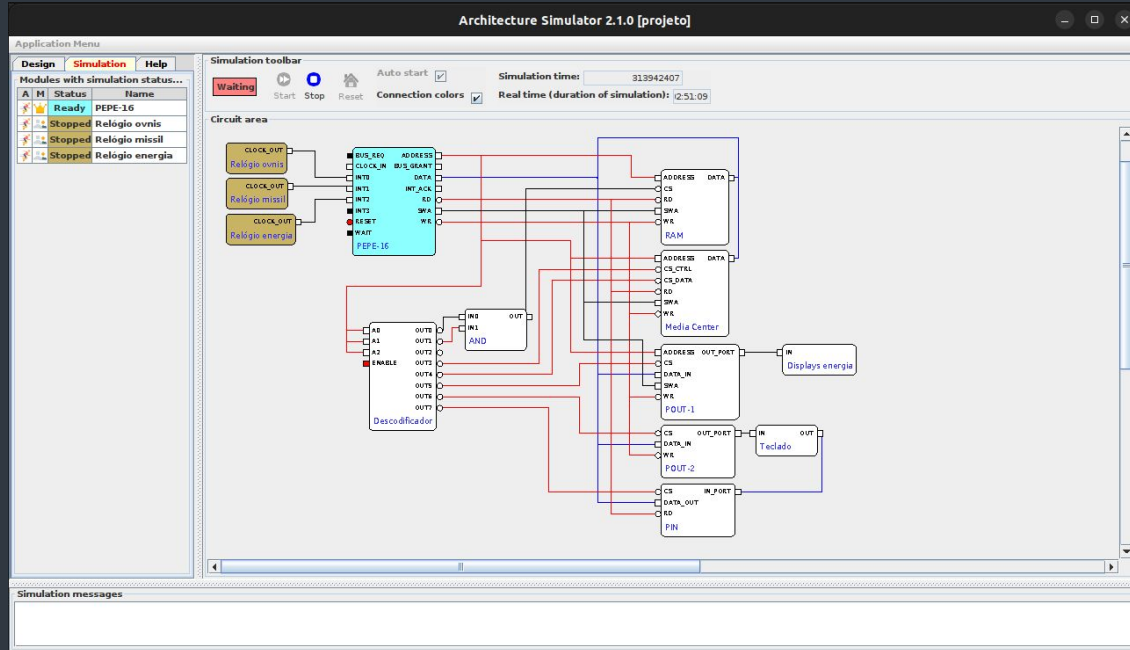
DI0

Interrupções:

; Registo de estado



Exercicio (Live coding):



Processos:

PLACE 1000H

STACK 100H

SP_init:

STACK 100H

SP_init_processo:

PLACE 0

MOV SP, SP_init

Processos:

```
PROCESS SP_init_processo
```

```
processo:
```

```
; inicializações
```

```
processo_loop:
```

```
; code
```

```
YIELD
```

```
JMP processo_loop
```

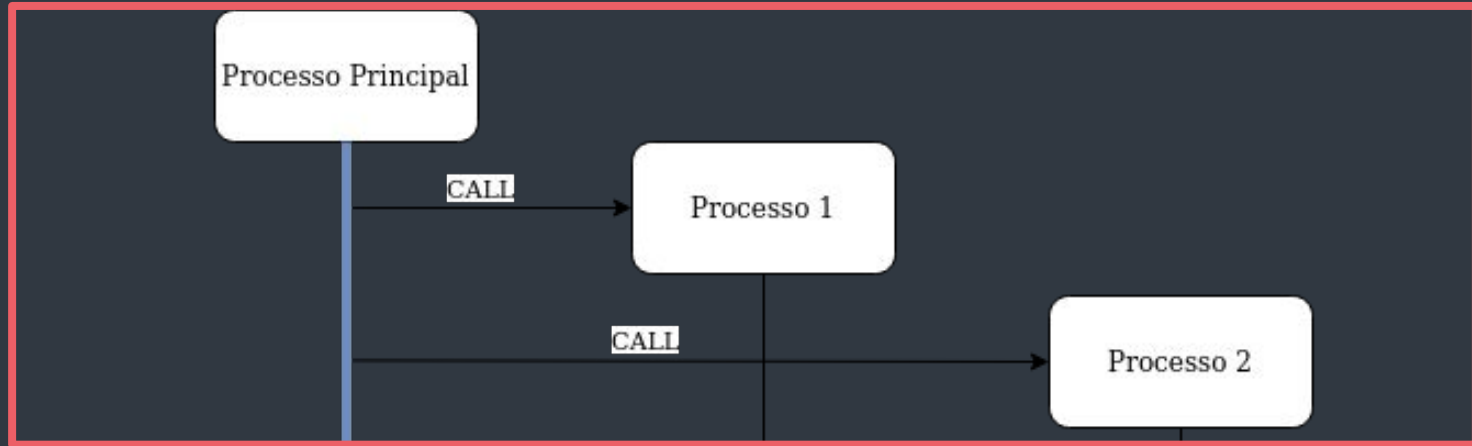
Processos:

; Chamar processo
CALL processo

end:
YIELD
JMP end

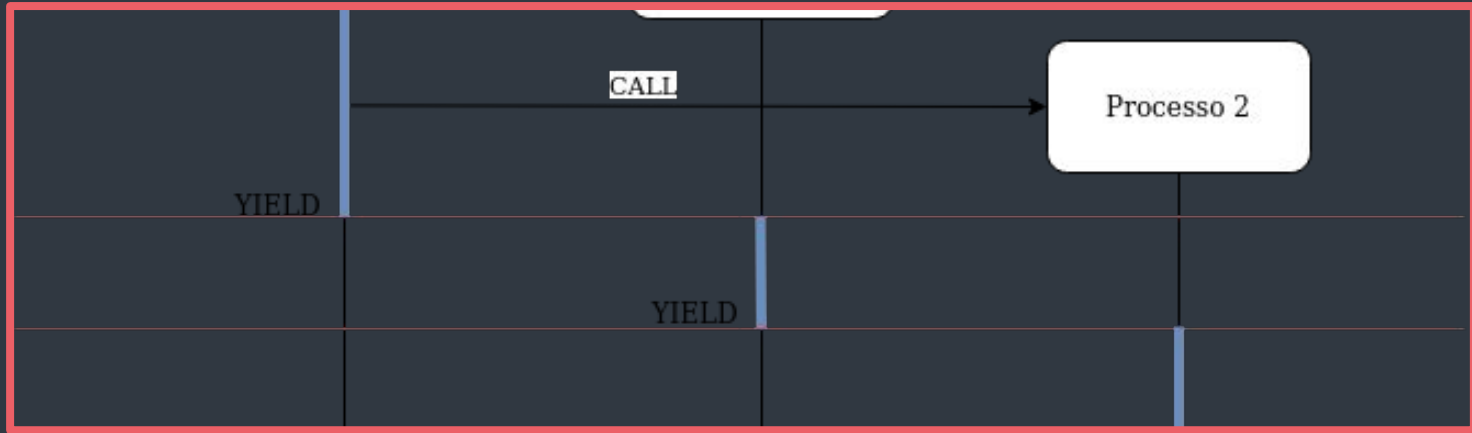
Processos:

; Exemplo



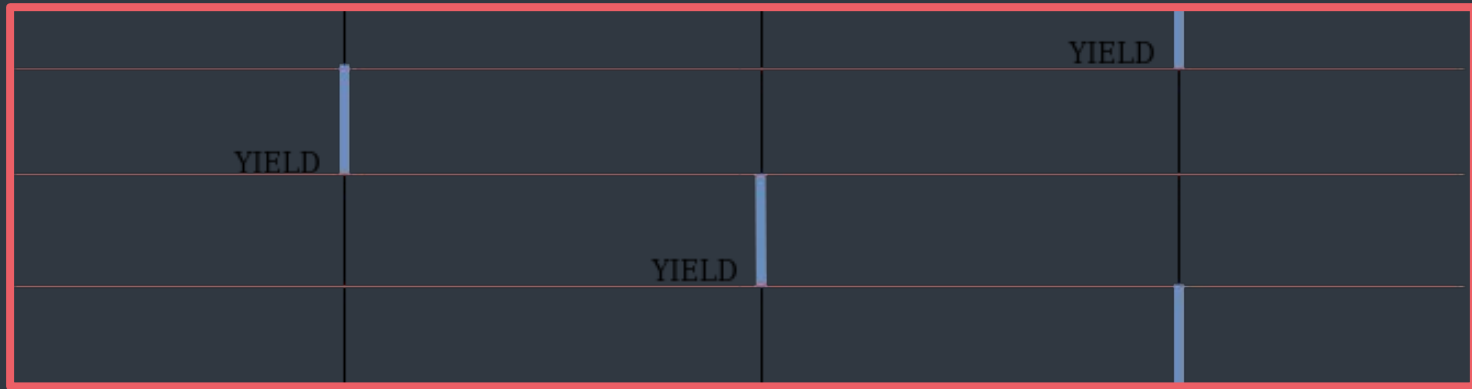
Processos:

; Exemplo

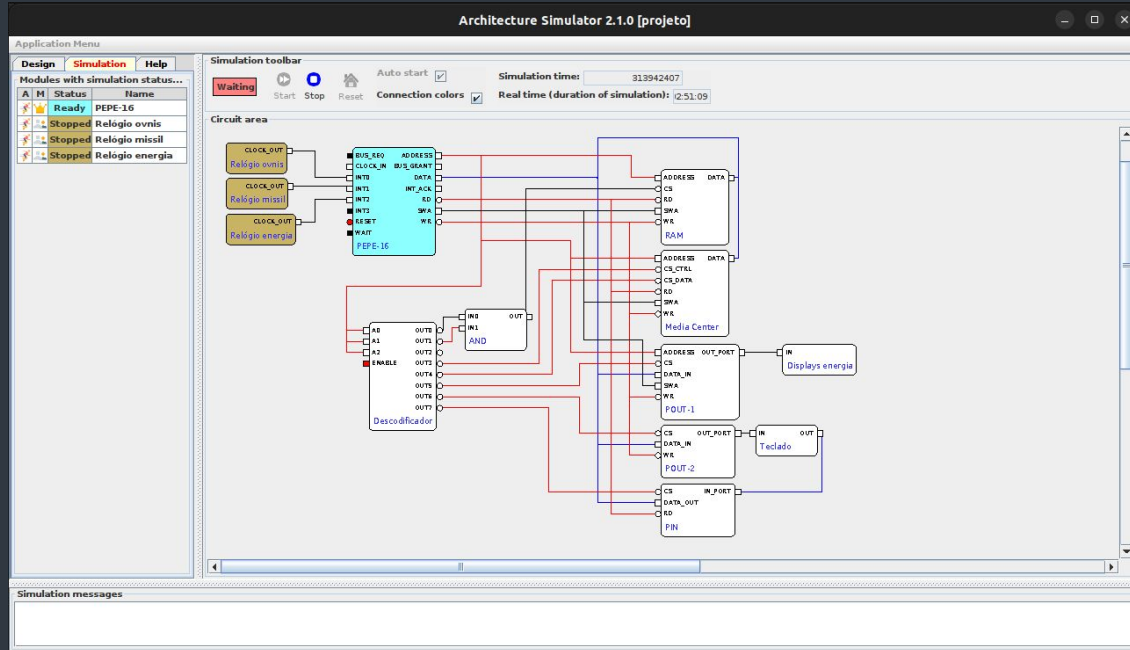


Processos:

; Exemplo



Exercicio (Live coding):



Erros Comuns e Debugging:

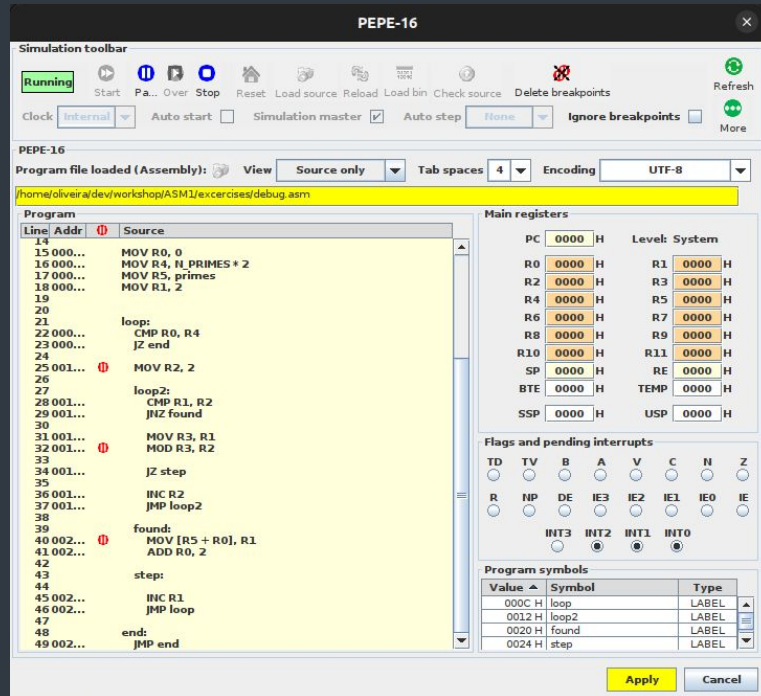
interrupt:
; pushes
; code
; pops
RET

interrupt:
PUSH R0
; code
POP R1
RFE

Erros Comuns e Debugging:

- ; Verificar que BTE está bem configurado
- ; Verificar se as interrupções foram ativadas

Debugging:



Duvidas: