```
clk <= current max calc time
                                       S1
                                                                      instruction: instr id t,
next instruction is to be sent()
                                                                      address: int[1,LAST_ADDR]
CPU REQ[CCTRL]!
                                                                      should take random instruction()
emit next instruction(),
                                      (clk >= current min calc time)
                                                                      FORCE EXTRA URGENT!
clk = 0
                                     MAX PRIORITY!
                                                                      set next instruction(instruction, address)
                                     clk = 0
                                      Ready
                     SYS INIT'
                runtime = 0,
                                             CPU ACK[ID]?
                     initialize()
                                             received acks += 1
      next instruction is(INSTR END)
      && (received acks == program counter)
      FORCE EXTRA URGENT!
                                          Terminated
```