

```

include(syndex.m4x)dnl
processor_555,root, ABCD,
  SynDEX v5.1c (c)INRIA 2000,
  Thu Mar 16 14:07:12 2000
)
semaphores_(
  B_d_empty_can, B_d_full_can,
  A_c_empty_can, A_c_full_can,
)
alloc_(int,A_b)
alloc_(int,A_c)
alloc_(int,B_d)

```

```

main_
  spawn_thread_(can)
  sensor()
  loop_
    Suc0_(A_c_empty_can)
    sensor(A_b, A_c)
    Prel_(A_c_full_can)
    Suc0_(B_d_empty_can)
    compute(A_b, B_d)
    Prel_(B_d_full_can)
  endloop_
  sensor()
  wait_endthread_(can)
endmain_

```

```

thread_(CAN,can, root, p)
  loadDnto_(, p)
  Pre0_(A_c_empty_can)
  Pre0_(B_d_empty_can)
  loop_
    Suc1_(A_c_full_can)
    send_(A_c, 555,root,p)
    Prel_(A_c_empty_can)
    Suc1_(B_d_full_can)
    send_(B_d, 555,root,p)
    Prel_(B_d_empty_can)
  endloop_
endthread_

```

endprocessor_

```

include(syndex.m4x)dnl
processor_555,p, ABCD,
  SynDEX v5.1c (c)INRIA 2000,
  Thu Mar 16 14:07:11 2000
)
semaphores_(
  B_d_empty_can, B_d_full_can,
  A_c_empty_can, A_c_full_can,
)
alloc_(int,B_d)
alloc_(int,A_c)
alloc_(int,C_d)

```

```

thread_(CAN,can, root, p)
  loadFrom_(root)
  loop_
    Suc1_(A_c_empty_can)
    recv_(A_c, 555,root,p)
    Prel_(A_c_full_can)
    Suc1_(B_d_empty_can)
    recv_(B_d, 555,root,p)
    Prel_(B_d_full_can)
  endloop_
endthread_

```

endprocessor_

```

main_
  spawn_thread_(can)
  Prel_(A_c_empty_can)
  actuator()
  Prel_(B_d_empty_can)
  loop_
    Suc0_(A_c_full_can)
    compute(A_c, C_d)
    Prel_(A_c_empty_can)
    Suc0_(B_d_full_can)
    actuator(B_d, C_d)
    Prel_(B_d_empty_can)
  endloop_
  actuator()
  wait_endthread_(can)
endmain_

```