





## Edit Configuration File

















```
main.cph
                 sample.txt
actor scale (k: unsigned < 8>)
in (i:unsigned<8>)
out (o:unsigned<8>)
rules i -> o
|x->k*x|
stream inp:unsigned<8> from "sample.txt";
stream outp:unsigned<8> to "result.txt";
net outp = scale 2 inp;
```

```
scale act.cpp
main net.cpp
                      scale act.h
// This file has been automatically generated by the Caph compiler (version
// from file main.cph, on 2017-05-31 at 17:14:34, by <unknown>
// For more information, see : http://caph.univ-bpdermont.fr
#include "scale act.h"
void scale_act::main(void) {
  while (1)
   wait(); // dk
    // rule 0: i.rdy, o.rdy / p_x=i, wr(o,k*p_x)
    if ( (i->rd_rdy()) && (o->wr_rdy()) ) {
     p x = i > read();
     o->write((k)*(p x));
```

```
> "C:\Program Files\Caph\bin\caphc" -prefix main -systemc main.cph
# This is the Caph compiler, version 2.8.3
# (C) 2011-2017 J. Serot (Jocelyn.Serot@univ-bpclermont.fr)
# For more information, see : http://caph.univ-bpclermont.fr
# Wrote file .\main expanded.dot
# Wrote file .\main_net.cpp
# Wrote file .\scale act.h
# Wrote file .\scale act.cpp
```