```
/**** A compiler avec
  gcc -o Exemple1_await_generate Exemple1_await_generate.c \
      traceinstantsf.c -I $CHEMIN/ft_v1.1/include -L $CHEMIN/ft_v1.1/lib \
      -lfthread -lpthread
*****/
#include "fthread.h"
#include "stdio.h"
#include "unistd.h"
#include "traceinstantsf.h"
#include "stdlib.h"
#include "pthread.h"
ft thread t
             ft_trace, ft_broadcastor;
ft thread t
             ft awaiter[3];
ft_scheduler_t sched;
ft_event_t
              evt;
void awaiter (void *arg)
 long i, n, res;
 for (i = 0; i < 5; i++) {
   fprintf(stdout, "awater%d en attente d'un evenement.\n", (long)arg);
   res = ft thread await(evt);
   if (res == OK) {
     ft_thread_get_value(evt, 0, (void *)&n);
     fprintf(stdout,
              "awaiter%d a recu l'evenement numero %d.\n",
             (long)arg, n);
void broadcastor (void *arg)
 long i;
 for (i=0;; ++i) {
   fprintf(stdout, "broadcastor broadcast l'evenement numero %d.\n", i);
   ft_scheduler_broadcast_value(evt, (void *)i);
   ft_thread_cooperate();
void join awaiters (void *arg)
 long i;
 fprintf(stdout, "Debut de join awaiters.\n");
 for (i = 0; i < 3; ++i) {
   ft_thread_join(ft_awaiter[i]);
 fprintf(stdout, "Fin de tous les awaiter.\n");
 fprintf(stdout, "Stoper la trace.\n");
 ft scheduler stop(ft trace);
```

```
fprintf(stdout, "Stoper le generateur.\n", (long)arg);
  ft scheduler stop(ft broadcastor);
  fprintf(stdout, "******* exit(0) ********\n");
 exit(0);
int main(int argc, char *argv[])
 long i;
  sched = ft scheduler create ();
  evt = ft event create(sched);
  ft trace
                = ft_thread_create(sched, traceinstants, NULL, (void *)50);
  for (i = 0; i < 3; ++i) {
    ft_awaiter[i] = ft_thread_create(sched, awaiter, NULL, (void *)(i + 1));
  ft_broadcastor = ft_thread_create(sched, broadcastor, NULL, NULL);
  ft_thread_create(sched, join_awaiters, NULL, NULL);
  ft scheduler start(sched);
  fprintf(stdout, "\n\nC'est fini pour le programme principal.\n");
  ft_exit();
              /* Bloquant donc. */
 return 0;
                /* Never reached.*/
                /* Juste pour calmer le compilo pur avoir ecrit int main() */
$ Exemple1 await broadcast
C'est fini pour le programme principal.
>>>>>> instant 0:
awater1 en attente d'un evenement.
awater2 en attente d'un evenement.
awater3 en attente d'un evenement.
broadcastor broadcast l'evenement numero 0.
Debut de join awaiters.
>>>>>> instant 1:
awaiter1 a recu l'evenement numero 0.
awater1 en attente d'un evenement.
awaiter1 a recu l'evenement numero 0.
awater1 en attente d'un evenement.
awaiter1 a recu l'evenement numero 0.
awaterl en attente d'un evenement.
awaiter1 a recu l'evenement numero 0.
awater1 en attente d'un evenement.
awaiter1 a recu l'evenement numero 0.
awaiter2 a recu l'evenement numero 0.
awater2 en attente d'un evenement.
awaiter2 a recu l'evenement numero 0.
```

ion 02 film 2017 10.54.04 CET Example 1 await broadcast a	Dog 2
jeu. 02 f'vr. 2017 19:54:04 CET Exemple1_await_broadcast.c	Page 3
awater2 en attente d'un evenement. awaiter2 a recu l'evenement numero 0.	
awaiter2 a recu l'evenement numero 0. awater2 en attente d'un evenement.	
awaiter2 a recu l'evenement numero 0.	
awater2 en attente d'un evenement.	ļ
awaiter2 a recu l'evenement numero 0.	
awaiter3 a recu l'evenement numero 0.	ļ
awater3 en attente d'un evenement.	
awaiter3 a recu l'evenement numero 0.	
awater3 en attente d'un evenement. awaiter3 a recu l'evenement numero 0.	ļ
awater3 a recu l'evenement numero 0. awater3 en attente d'un evenement.	
awaiter3 a recu l'evenement numero 0.	
awater3 en attente d'un evenement.	
awaiter3 a recu l'evenement numero 0.	
broadcastor broadcast l'evenement numero 1.	
Fin de tous les awaiter.	
Stoper la trace.	
Stoper le generateur.	
****** exit(0) ******* */	
^/	