```
void _timer_isr_{
                                 EVENT SIGNAL(event):
         transformation
     Immortal Threads
                                immortal thread(conv thread,args){
      Compiler Front End
                                  begin(conv thread);
                                 _def int a[N̄]; _def int b[K];
                                 def int out[NK+1];
                                   WAIT EXPIRES(event,5);
void _timer_isr_{
                                    def int i; WR(i,0);
 EVENT_SIGNAL(event);
                                   for(:i<NK+1:){
                                     def int i; WR(i,0);
                                    for(;j<K;){
                                     WR SELF(out[i]
immortal_thread(conv_thread,
                                           out[i]+a[i+j]*b[K-j-1]);
args){
                                     _WR_SELF(j,j+1);
 int a[N]; int b[K];
 int out[NK+1];
                                     WR SELF(i,i+1):
 while (1){
                                  end(conv thread):
  WAIT_EXPIRES(event,5);
  for(int i=0; i<NK+1; i++)</pre>
   for(int j=0; j<K; j++)</pre>
    out[i]+=a[i+i]*b[K-i-1];
                                  Target
                                               Immortal Threads
                                C Compiler
                                                  Library Source
   Event Driven C Source
                                                    Checkpoints
 in Multi-Threaded Fashion
                                                  Thread scheduling
                                 Target Image
                                                   Event handling
```

Source-to-source

The programmer is **oblivious** to the intermittent execution.