7.3. An Example: Unbuffered Producer-Consumer

Because the send and receive operations effect a rendezvous, simple process synchronisation is straightforward. In the following program, a producer generates characters which are then consumed by a second process.

```
program procon1;
var link: channel of char;
process producer;
var local: char;
begin
     repeat
          (* generate character *)
          link ! local
     forever
      (* producer *)
end;
process consumer;
var local: char;
begin
     repeat
          link ? local;
          (* consume character *)
     forever
      (* consumer *)
end;
       (* main *)
begin
     cobegin
          producer;
          consumer
     coend
end.
```

7.4. Process States and Transitions

This section summarises the effects on process states of the features described in this chapter.

1. A process that attempts a send or receive operation on a channel on which there is no pending call becomes "suspended" if the channel is not mapped to a source of