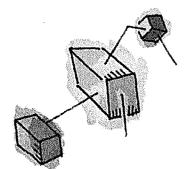


## Writers Have Priority Message Passing

RR

```
void reader(int i)
   message rmsq;
      while (true)
         rmsq = i;
         send (readrequest, rmsg)
         receive (mbox[i] rmsg)
         READUNIT ()
         rmsg = i; (/0)/i
         send (finished, rmsq);
void writer(int j)
   message rmsg;
   while(true) {
      rmsq = j;
      send (writerequest, rmsq);
      receive (mbox[j], rmsg);
      WRITEUNIT ();
      rmsq = j;
      send (finished, rmsq);
```

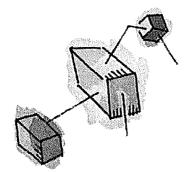
```
void controller()
                        count = 100, initially
      while (true)
         if (count > 0) {
            if (!empty (finished)) {
               receive (finished, msq);
               count++; / 4/
            else if (!empty (writerequest)) {
               receive (writerequest, msq);
               writer id = msq.id;
               count = count - 100;
            else if (!empty (readrequest))
               receive (readrequest, msg);
               count -- ; (7/count = 4)
               send (msg.id, "OK");
         if (count == 0) {
            send (writer id, "OK");
            receive (finished, msq);
            count = 100;
         while (count < 0) {
            receive (finished, msq);
            count++;
```



## Writers Have Priority Message Passing

```
void reader(int i)
   message rmsg;
      while (true) {
         rmsq = i;
         send (readrequest, rmsq);
         receive (mbox[i], rmsq);
         READUNIT ();
         rmsa = i;
         send (finished, rmsq);
void writer(int j)
   message rmsg;
   while(true) {
      rmsq = j;
      send (writerequest, rmsq);
      receive (mbox[j] rmsg)
      WRITEUNIT & A:()
      rmsq = i:(/6
      send (finished rmsq
```

```
void
     controller()
                        count = 100, initially
      while (true)
         if (count > 0) {
            if (!empty (finished)) {
               receive (finished, msq);
               count++;
            else if (!empty (writerequest))
               receive (writerequest, msg);
               writer id = msq.id; (/
               count = count - 100; (f) con
            else if (!empty (readrequest)) {
               receive (readrequest, msq);
               count--;
               send (msg.id, "OK");
         if (count == 0)
            send (writer id, "OK");
            receive (finished, msq)
            count = 100; (///
         while (count < 0) {
            receive (finished, msq);
            count++;
```

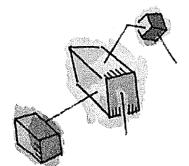


## Writers Have Priority Message Passing

```
RW
```

```
void reader(int i)
   message rmsq;
      while (true)
         rmsq = i;
         send (readrequest, rmsg);
         receive (mbox[i], rmsg);
         READUNIT ():/9
         rmsq = i; (20)
         send (finished, rmsq)
void writer(int j)
   message rmsq;
   while(true) {
      rmsq = j;
      send (writerequest, rmsg)
      receive (mbox[j], rmsg)
      WRITEUNIT (2):126
      rmsg = j; W
      send (finished, rmsg);
```

```
void
      controller()
                        count = 100, initially
      while (true)
         if (count > 0) {
            if (!empty (finished)) {
               receive (finished, msq);
               count++;
            else if (!empty (writerequest))
               receive (writerequest, msg);/
               writer id = msq.id; (62
               count = count - 100; (17) count
            else if (!empty (readrequest))
                receive (readrequest, msg) //6
               count -- ; (7) Court -49
               send (msq.id, "OK");
         if (count == 0)
            send (writer id, "OK");
            receive (finished, msq);
            count = 100; (1) Car
         while (count < 0) {(
            receive (finished, msg) (
            count++; (2) cout = C
```



## Writers Have Priority Message Passing

```
WR
```

```
void reader(int i)
  message rmsq;
      while (true) {
         rmsq = i;
         send (readrequest, rmsg)
         receive (mbox[i], rmsq)
         READUNIT ()
         rmsq = i;(^{1}
         send (finished, rmsq);
void writer(int j)
   message rmsq;
   while(true) {
      rmsq = j: (f
      send (writerequest, rmsq)
      receive (mbox[j]) rmsg)
      WRITEUNIT A(); (12
      rmsq = j_1/6
      send (finished, rmsg)
```

```
void
    controller()
                        count = 100, initially
      while (true)
         if (count > 0)
            if (!empty (finished)) {
               receive (finished, msq);
               count++; (30) cont= (00
            else if (!empty (writerequest))
               receive (writerequest, msg) //
               writer id = msg.id; (7
               count = count - 100; /// Count - C
            else if (!empty (readrequest))
               receive (readrequest, msg);
               count --; RV Cont2/
               send (msg.id, "OK");
         if (count == 0)
            send (writer id, "OK");
            receive (finished, msg);
            count = 100; (// ) con
         while (count < 0) {
            receive (finished, msq);
            count++;
```