

Validated Designs for Object-oriented Systems

Fitzgerald, Larsen, Mukherjee, Plat, Verhoef
info@vdmbook.com – www.vdmbook.com

ERRATA SHEET

last updated on 14 December 2005

On page 162; the definition of `ResetLog` and `WriteLog` should be changed to:

```
class OperatorControl
...
public ResetLog: () ==> ()
ResetLog() ==
  atomic
  ( messageLog := [];
    locations := [] );

public WriteLog: seq1 of char * CWS`Location ==> ()
WriteLog(message, location) ==
  atomic
  ( messageLog :=
    messageLog ^ [message ^ ConvertNum2String(location)];
    locations := locations ^ [location] );

end OperatorControl
```

This change is necessary in order to ensure that the invariant (requiring the length of the instance variables `messageLog` and `locations` to be equal) is checked after *both* instance variables are updated.

On page 180; the first box should be changed to:

```
class CongestionSensor
...
instance variables
  passageSensors: map CWS`Lane to PassageSensor := {|->};

end OperatorControl
```

END OF ERRATA SHEET