```
/*
1
2
     * Scola Tutorial
3
     * by Antoine B. Rauzy
4
     * Bridge with just blocks and scenarios
5
      */
6
7
     domain UnitState {WORKING, FAILED} end
8
9
    block System
10
        block source
11
             Boolean outFlow true
12
         end
13
         block A
            UnitState state WORKING
14
15
             Boolean inFlow false
16
             Boolean outFlow false
17
             assertion Transfer
18
                 set outFlow (if (eq _state WORKING) inFlow false)
19
             end
20
         end
21
         block B
22
             UnitState state WORKING
23
             Boolean inFlow false
24
             Boolean outFlow false
25
             assertion Transfer
26
                set outFlow (if (eq state WORKING) inFlow false)
27
             end
28
         end
29
         block C
             UnitState state WORKING
30
             Boolean inFlow false
31
32
             Boolean outFlow false
33
             assertion Transfer
34
                 set outFlow (if (eq state WORKING) inFlow false)
35
             end
         end
36
37
         block D
             UnitState state WORKING
38
             Boolean inFlow false
39
40
             Boolean outFlow false
41
             assertion Transfer
42
                 set outFlow (if (eq state WORKING) inFlow false)
43
             end
44
         end
45
         block target
46
             Boolean inFlow false
47
         end
48
         assertion Transfer
49
             set A.inFlow source.outFlow
50
             set B.inFlow A.outFlow
51
             set C.inFlow A.outFlow
52
             set D.inFlow (or B.outFlow C.outFlow)
53
             set target.inFlow D.outFlow
54
         end
55
    end
56
57
    scenario SystemPool as System
58
         scenario ALane as A
59
             state Initial
60
             task Failure
61
                 set state FAILED
62
             end
63
             task Repair
64
                 set _state WORKING
65
             end
66
             next Initial Failure
             next Failure Repair
67
68
             next Repair Failure
69
         end
70
         scenario BLane as B
71
             state Initial
72
             task Failure
```

```
73
                 set _state FAILED
 74
              end
 75
              task Repair
 76
                 set _state WORKING
 77
              end
 78
             next Initial Failure
 79
             next Failure Repair
 80
             next Repair Failure
 81
         end
 82
         scenario CLane as C
 83
             state Initial
 84
             task Failure
 85
                 set _state FAILED
 86
             end
 87
             task Repair
 88
                set _state WORKING
 89
             end
 90
             next Initial Failure
 91
             next Failure Repair
 92
             next Repair Failure
 93
         end
 94
         scenario DLane as D
 95
             state Initial
 96
             task Failure
 97
                 set _state FAILED
 98
             end
99
             task Repair
100
               set _state WORKING
101
              end
102
             next Initial Failure
103
             next Failure Repair
104
             next Repair Failure
105
          end
106
     end
107
```