

Report about safety problem `Trip_request.txt`

MCMT v. 2.0

June 17, 2024

Abstract

This report has been generated automatically. Variables `z1`, `z2`, ... *always* range over distinct elements.

List of reachable nodes

- **Inconsistent** node 0 at depth 0 labelled by

`∃z1. (and false (ENTRY z1))`

- **Kept** node 1 at depth 0 labelled by

`∃z1. (and (sat true)(= p0 false)(= p1 false)(= p2 false)
(= p3 false)(= p4 false)(= p5 false)(= p6 true))
(= dt1 true)(= dt2 true)(= dt3 true)(= dt4 true))
(ENTRY z1))`

- **Kept** node 2 at depth 1 generated by applying the transition $\tau_7(z1)$ on node 1 and labelled by

`∃z1. (and (sat true) (ENTRY z1) (= permanent (userstat user[z1]))
(= dt1 true) (= dt2 true) (= dt3 true) (= ht4[z1] false))
(= p0 false) (= p1 false) (= p2 false) (= p3 false))
(= p6 false) (= ht3[z1] true) (= p4 true))
(= p5 true) (<= workload[z1] 70) (<= 0 workload[z1]))`

- **Kept** node 3 at depth 2 generated by applying the transition $\tau_4(z2)$ on node 2 and labelled by

`∃z1,z2. (and (ENTRY z1) (sat true) (ENTRY z2) (= intern (userstat user[z2]))
(= permanent (userstat user[z1])) (= flag ThreeTwo))
(= dt1 true) (= dt3 true) (= ht1[z2] false))
(= ht2[z2] false) (= ht4[z1] false) (= p0 false))
(= p1 false) (= p3 false) (= p4 false) (= p6 false))
(= ht3[z1] true) (= p2 true) (= p5 true))
(<= workload[z1] 70) (<= 0 workload[z1]))
(<= workload[z2] 70) (<= 0 workload[z2]))`

- **Kept** node 4 at depth 2 generated by applying the transition $\tau_5(z1)$ on node 2 and labelled by

```

 $\exists z1.$  (and (sat true) (ENTRY z1) (= permanent (userstat user[z1] ))
          (= flag TwoThree) (= dt1 true) (= dt2 true) )
      (= ht3[z1] false) (= ht4[z1] false) (= p0 false) )
      (= p1 false) (= p2 false) (= p5 false) (= p6 false) )
      (= p3 true) (= p4 true) (<= workload[z1] 10) )
      (<= 0 workload[z1]) )

```

- **Kept** node 5 at depth 3 generated by applying the transition $\tau_6(z1)$ on node 3 and labelled by

```

 $\exists z1, z2.$  (and (ENTRY z2) (sat true) (ENTRY z1) (= permanent (userstat user[z1] ))
                (= intern (userstat user[z2] )) (= flag ThreeTwo) )
            (= dt1 true) (= ht1[z2] false) (= ht2[z2] false) )
            (= ht3[z1] false) (= ht4[z1] false) (= p0 false) )
            (= p1 false) (= p4 false) (= p5 false) (= p6 false) )
            (= p2 true) (= p3 true) (<= workload[z1] 10) )
            (<= 0 workload[z1]) (<= workload[z2] 70) )
            (<= 0 workload[z2]) )

```

- **Kept** node 6 at depth 3 generated by applying the transition $\tau_3(z2)$ on node 4 and labelled by

```

 $\exists z1, z2.$  (and (ENTRY z1) (sat true) (ENTRY z2) (= intern (userstat user[z2]))
                (= permanent (userstat user[z1] )) (= flag TwoThree) )
            (= dt1 true) (= ht1[z2] false) (= ht2[z2] false) )
            (= ht3[z1] false) (= ht4[z1] false) (= p0 false) )
            (= p1 false) (= p4 false) (= p5 false) (= p6 false) )
            (= p2 true) (= p3 true) (<= workload[z1] 10) )
            (<= 0 workload[z1]) (<= workload[z2] 70) )
            (<= 0 workload[z2]) )

```

- **Kept** node 7 at depth 4 generated by applying the transition $\tau_1(z3)$ on node 5 and labelled by

```

 $\exists z1, z2, z3.$  (and (ENTRY z1) (sat true) (ENTRY z2) (ENTRY z3)
                    ((userstat user[z3]) intern) (= permanent (userstat user[z1] )) )
                (= intern (userstat user[z2] )) (= flag ThreeTwo) )
            (= ht1[z3] false) (= ht2[z2] false) (= ht3[z1] false) )
            (= ht4[z1] false) (= p2 false) (= p3 false) )
            (= p4 false) (= p5 false) (= p6 false) (= p0 true) )
            (= p1 true) (<= workload[z1] 10) (<= 0 workload[z1]) )

```

```

(<= workload[z2] 70) (<= 0 workload[z2]) )
(<= workload[z3] 70) (<= 0 workload[z3]) )
(not (= NULLUserID user[z3])) )

```

- **Kept** node 8 at depth 4 generated by applying the transition $\tau_2(z3)$ on node 5 and labelled by

```

∃z1, z2, z3.      (and (ENTRY z1) (sat true) (ENTRY z2) (ENTRY z3)
                  ((userstat user[z3]) permanent) (= permanent (userstat user[z1] )) )
                  (= intern (userstat user[z2] )) (= flag ThreeTwo) )
                  (= ht1[z3] false) (= ht2[z2] false) (= ht3[z1] false) )
                  (= ht4[z1] false) (= p0 false) (= p2 false) )
                  (= p3 false) (= p4 false) (= p5 false) (= p6 false) )
                  (= p1 true) (<= workload[z1] 10) (<= 0 workload[z1]) )
                  (<= workload[z2] 70) (<= 0 workload[z2]) )
                  (<= workload[z3] 80) (<= 0 workload[z3]) )
                  (not (= NULLUserID user[z3])) )

```

- **Kept** node 9 at depth 4 generated by applying the transition $\tau_1(z3)$ on node 6 and labelled by

```

∃z1, z2, z3.      (and (ENTRY z2) (sat true) (ENTRY z1) (ENTRY z3)
                  ((userstat user[z3]) intern) (= permanent (userstat user[z1] )) )
                  (= intern (userstat user[z2] )) (= flag TwoThree) )
                  (= ht1[z3] false) (= ht2[z2] false) (= ht3[z1] false) )
                  (= ht4[z1] false) (= p2 false) (= p3 false) )
                  (= p4 false) (= p5 false) (= p6 false) (= p0 true) )
                  (= p1 true) (<= workload[z1] 10) (<= 0 workload[z1]) )
                  (<= workload[z2] 70) (<= 0 workload[z2]) )
                  (<= workload[z3] 70) (<= 0 workload[z3]) )
                  (not (= NULLUserID user[z3])) )

```

- **Kept** node 10 at depth 4 generated by applying the transition $\tau_2(z3)$ on node 6 and labelled by

```

∃z1, z2, z3.      (and (ENTRY z2) (sat true) (ENTRY z1) (ENTRY z3)
                  ((userstat user[z3]) permanent) (= permanent (userstat user[z1] )) )
                  (= intern (userstat user[z2] )) (= flag TwoThree) )
                  (= ht1[z3] false) (= ht2[z2] false) (= ht3[z1] false) )
                  (= ht4[z1] false) (= p0 false) (= p2 false) )
                  (= p3 false) (= p4 false) (= p5 false) (= p6 false) )
                  (= p1 true) (<= workload[z1] 10) (<= 0 workload[z1]) )
                  (<= workload[z2] 70) (<= 0 workload[z2]) )
                  (<= workload[z3] 80) (<= 0 workload[z3]) )
                  (not (= NULLUserID user[z3])) )

```