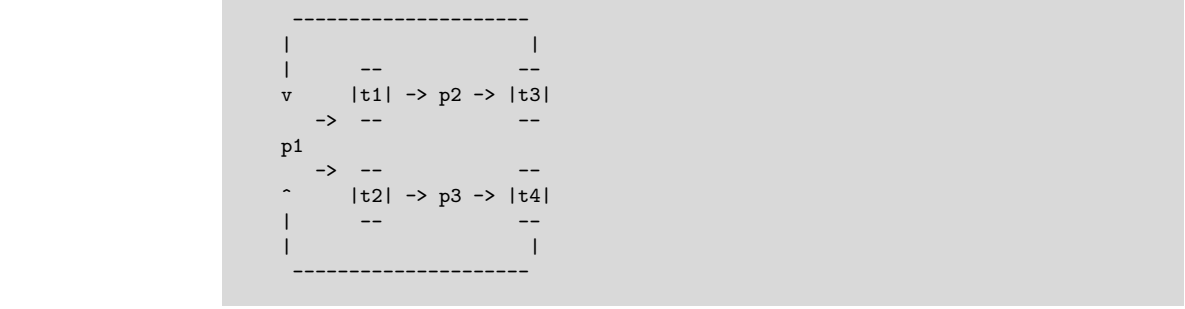
MODULE *Example6_Bound*

A 4-bound Petri Net



Places $\triangleq$ { "p1", "p2", "p3" } Define the net.
Transitions $\triangleq$ { "t1", "t2", "t3", "t4" }
Arcs $\triangleq$ [
$p1 \mapsto$ { "t1", "t2" },
$p2 \mapsto$ { "t3" },
$p3 \mapsto$ { "t4" },

$t1 \mapsto$ { "p2" },
$t2 \mapsto$ { "p3" },
$t3 \mapsto$ { "p1" },
$t4 \mapsto$ { "p1" }
]
ArcWeights $\triangleq$ $\langle\rangle$ Unspecified arc weights default to 1.
InitialMarking $\triangleq$ $[p2 \mapsto 2,\ p3 \mapsto 2]$
VARIABLE *Marking*

PN $\triangleq$ INSTANCE *PetriNet* Instantiate it within a namespace.

Spec $\triangleq$ *PN*!*Spec* Make *Spec* and *Invariants* available for the config file.

Invariants $\triangleq$ *PN*!*Invariants*

Properties

Petri Net is 4-bound. Asserting 3-bound would fail.
BoundFour $\triangleq$ *PN*!*Bound*(4)