

Timed
automaton



```
graph LR; A[Timed automaton] --> B[Model checking]; B --> C[Correct system]; B --> D[Execution trace];
```

The diagram illustrates a model checking workflow. It begins with a 'Timed automaton' box on the left, which points via a thick black arrow to a central 'Model checking' box. This central box has a light gray background and rounded corners, and it contains a blue rectangular box labeled 'Statespace exploration'. From the right side of the 'Model checking' box, a thick black arrow branches into two paths. The upper path leads to a 'Correct system' box, and the lower path leads to an 'Execution trace' box. All boxes are white with black outlines and black text.

Model checking

Statespace
exploration

Correct
system

Execution
trace