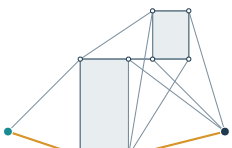
Reusable collision information and recurring query attachment

Fixed polygonal map



Persistent: obstacle connections
Query-specific: start / goal attachments

Separate the validation domains

Complete persistent checks once for the fixed map.

Keep new terminal checks on demand.

Same 60 switched A* workloads

Faster than bundled completion

55 / 60

Faster than permanent laziness

8 / 60

Recurring validation savings and the value of completing the graph are distinct.