

Coordinator

Generate high-level graph path between src & tgt (hlp).

Send:

$hlp[i - 1], hlp[i], hlp[i + 1]$

Recv: collision messages between threads.

When: enough collisions registered.

Send: stop msg.

Generate collision graph path (cgp)

Send: $cgp[i], cgp[i + 1]$

Recv: intermediate path between collisions.

Concatenate intermediate paths from src to tgt for the overall path.

Search Thread 'i'

Recv: Vertices for fringe search (t_1, s, t_2).

Search towards target $t_{1|2}$ claiming vertices with no owner.

When: vertex is $t_{1|2}$ or owned by another thread.

Send: collision msg to coordinator **if** vertex is not $t_{1|2}$.

Update: search heuristic to target second goal.

Recv: stop msg.

Recv: Endpoints for fringe search (s, t).

Search for path between s & t using only personally owned vertices.

Send: final path msg.