SRCV Harness

Task / Query
x

Main context $C_t = [x, E_t, H_t]$

Solver Agent

Plan, use tools, and reason over evidence.

Candidate answer $\hat{y}_t$

- **Evidence E_t**
- **Reasoning**
- **Answer**

Query

Selected evidence E_t

Compaction request

Compacted context

$\hat{y}_t + E_t$

Feedback f_t

Context branch

Reader Agent

Retrieve and filter evidence.

Candidate evidence
statute / web docs

→

Selected evidence
excerpts + citations

Only selected evidence enters solver.

Context branch

Compaction Agent

Compress and preserve key state.

Trajectory history → **Compacted context**

Rebuild the main context.

Independent context

Verifier Agent

Check the answer against evidence.

Rubrics
- ☐ Evidence coverage
- ☐ Relevance
- ☐ Grounded reasoning

→ **Verification feedback f_t**

Return feedback for revision.

Read evidence, manage context, verify, and iteratively refine the answer.