

Input File Format



- Single Trace Instance in JSON Format
- Multiple Trace Instances in ZIP Format

TraceFormat

TraceSIR

ReportEval



- ### Optional Additional Requirements for Report Generation
- Language, Template, Structure, Format, Scope

Single Trace Instance Format



- [Required] oid messages (OpenAI)
- [Optional] task gold_score gold_judge other



StructureAgent

TraceFormat

messages (OpenAI)

	Thought	Action	Observation
Round ₁	We have a puzzle:	search{"query":"....."}	【0† Tribute to late actor
Round...
Round*	Explanation: - The	finish{"answer":"....."}	/

◆ id ➤ TraceBench-{1, 2, ... , *}

◆ oid

len(thought)=len
(action)=len(obs
ervation)=*

◆ length

◆ thought

◆ action

◆ observation

◆ task

Abstract
length threshold
per field per step

◆ gold_score

◆ gold_judge

◆ other



InsightAgent

> Overall Assessment

➤ 0~100

> Error Detection

◆ gold_score

◆ gold_judge

➤ Main Error: Core fatal error in the trace

➤ Other Errors: Other minor errors in the trace

> Weakness Identification

➤ Disadvantages: Shortcomings revealed in the trace

➤ Advantages: Commendable aspects in the trace

> Root Cause Analysis

➤ Insight

> Optimization Suggestions

➤ Suggestions: Concrete and actionable suggestions

➤ Fine-tuned Samples: Targeted SFT samples



ReportAgent

> Error Label

> Ready Time

> Error Frequency Estimation

> Score Distribution Modeling



> Report Generation

➤ Markdown
➤ Requirement

> Report Refinement

➤ Appendix
➤ TraceBench

ReportEval

Overall Structure

Overall Impact

Error Analysis

Root Cause
Analysis

Optimization
Analysis