

LTSA

Prerequisites

- Eclipse Modeling Tools Version: Neon.2 Release (4.6.2)
(<https://www.eclipse.org/downloads/packages/release/Neon/2>)
- Labelled Transition System Analyser(LTSA) version 3.0 (<https://www.doc.ic.ac.uk/ltsa/>)
- CADP version 2018-j "Uppsala": Construction and Analysis of Distributed Processes.
(<http://cadp.inria.fr>),

LTSA transforms BPEL to LTS-format

The screenshot displays the LTSA-Engineer Eclipse IDE interface. The top menu bar includes File, Edit, Navigate, Search, Project, Run, BPELVT, Window, Help, LTSA, and BPEL4WS. The main workspace is divided into several panels:

- Navigator:** Shows the project structure with folders like TSTWS, bpelContent, casus_CaseHandling, and GitTest. The file `GitTest.bpel` is selected.
- Outline:** Displays the composition hierarchy, including `DEFAULT`, `GITTEST_BPModel`, and `GITTEST_Instance`.
- WS-BPEL FSP Editor:** Shows the BPEL code for `GitTest.bpel`, which includes process definitions and variable declarations.
- LTS Draw:** Displays the generated LTS model, showing a sequence of states (0, 1, E) connected by transitions, representing the process `gittest_clientgittest_client_reply_process`.
- LTS Output:** Provides summary statistics: Composition: `GITTEST_BPModel = GITTEST_MAIN1HIDEACTS`, State Space: $5 = 2 \times 3$, Composed in 172ms, and Minimised States: 3 in 0ms.

With CADP the LTS-format can be converted to LOTOS-format with `fsp2lotos`. This transformation resulted in error messages.