

|         | TraceCompass-3.3.0            |       |      |      |       |               |           |                 |                     |  |  |  |  |
|---------|-------------------------------|-------|------|------|-------|---------------|-----------|-----------------|---------------------|--|--|--|--|
| Date:   | 2018/02/05                    |       |      |      |       |               |           |                 |                     |  |  |  |  |
| Section | Content                       | To do | Pass | Fail | Total | Comments      | Automated | Lock held by... | Manual Test Version |  |  |  |  |
| 1       | Integration                   | 0     | 23   | 0    | 23    |               | 0         |                 |                     |  |  |  |  |
| 2       | JUnit Tests                   | 0     | 18   | 0    | 18    |               | 18        |                 |                     |  |  |  |  |
| 3       | TMF - Project View            | 0     | 149  | 0    | 149   | With comments | 102       |                 |                     |  |  |  |  |
| 4       | TMF - EventsEditor            | 0     | 25   | 0    | 25    | With comments | 10        |                 |                     |  |  |  |  |
| 5       | TMF - BookmarksView           | 0     | 17   | 0    | 17    |               | 2         |                 |                     |  |  |  |  |
| 6       | TMF - Filters View            | 0     | 12   | 0    | 12    | With comments | 12        |                 |                     |  |  |  |  |
| 7       | TMF - Colors View             | 0     | 6    | 0    | 6     | With comments | 6         |                 |                     |  |  |  |  |
| 8       | TMF - Histogram View          | 0     | 49   | 1    | 50    | With comments | 5         |                 |                     |  |  |  |  |
| 9       | TMF - Sequence Diagram        | 0     | 37   | 0    | 37    | With comments | 2         |                 |                     |  |  |  |  |
| 10      | TMF - Statistics View         | 0     | 18   | 0    | 18    | With comments | 6         |                 |                     |  |  |  |  |
| 11      | TMF - Time Chart View         | 0     | 26   | 0    | 26    |               | 1         |                 |                     |  |  |  |  |
| 12      | TMF - Custom Parsers          | 0     | 28   | 0    | 28    | With comments | 12        |                 |                     |  |  |  |  |
| 13      | TMF - State System Explorer   | 0     | 14   | 0    | 14    |               | 6         |                 |                     |  |  |  |  |
| 14      | TMF - Call Stack View         | 0     | 24   | 0    | 24    | With comments | 14        |                 |                     |  |  |  |  |
| 15      | TMF - Remote Fetching         | 0     | 53   | 0    | 53    |               | 51        |                 |                     |  |  |  |  |
| 16      | LTTng 2.0 - Control Flow View | 0     | 52   | 0    | 52    | With comments | 15        |                 |                     |  |  |  |  |
| 17      | LTTng 2.0 - Resources View    | 0     | 40   | 0    | 40    | With comments | 6         |                 |                     |  |  |  |  |
| 18      | LTTng 2.0 - Control View      | 0     | 131  | 0    | 131   | With comments | 118       |                 |                     |  |  |  |  |
| 19      | GDB Tracing                   | 0     | 25   | 0    | 25    |               | 5         |                 |                     |  |  |  |  |
| 20      | Tracing RCP                   | 0     | 31   | 1    | 32    |               | 0         |                 |                     |  |  |  |  |
| 21      | LTTng 2.0 - Memory Analysis   | 0     | 22   | 0    | 22    | With comments | 5         |                 |                     |  |  |  |  |
| 22      | LTTng 2.0 - CPU Analysis      | 0     | 25   | 2    | 27    | With comments | 5         |                 |                     |  |  |  |  |
| 23      | Trace Synchronization         | 0     | 13   | 0    | 13    | With comments | 0         |                 |                     |  |  |  |  |
| 24      | XML analysis                  | 0     | 40   | 0    | 40    | With comments | 0         |                 |                     |  |  |  |  |
| 25      | Network Trace analysis        | 0     | 11   | 0    | 11    |               | 3         |                 |                     |  |  |  |  |
| 26      | Critical path                 | 0     | 43   | 1    | 44    | With comments | 2         |                 |                     |  |  |  |  |
| 27      | LTTng 2.0 - I/O Analysis      | 0     | 21   | 0    | 21    | With comments | 5         |                 |                     |  |  |  |  |



| #                                     | Section                          | Pass  | Fail  | To Do  | Comment |
|---------------------------------------|----------------------------------|---|---|--------|---------|
|                                       | Integration                      | 23  | 0   | 0      | 2       |
| Target:                               |                                  |   |   |        |         |
| Step                                  | Test Case                        | Action  | Verification  |        | Comment |
| <b>1 Verify C/C++ EPP Package RC1</b> |                                  |   |   |        |         |
| 1.1                                   | Download EPP Package             | Download, extract and start EPP package   | EPP Package starts  | Manual | N/A     |
| 1.2                                   | Version of Tracing Features      | Go to Help -> About Eclipse -> Installation Details   | Verify that all tracing features and plug-ins are present and have the correct version (TMF, LTTng, CTF, GDBTrace)                                  | Manual | N/A     |
| 1.3                                   | TMF presence                     | Open Tracing perspective  | Tracing perspective opens   | Manual | N/A     |
| 1.4                                   | LTTng presence                   | Open LTTng Kernel perspective   | LTTng Kernel perspective  | Manual | N/A     |
| 1.5                                   | GDB Tracepoint Analysis presence | Open GDB Trace perspective  | GDB Tracepoint analysis perspective   | Manual | N/A     |
| 1.6                                   | Oxygen Update Site               | Go to Help -> Install New Software... -> Update site "Oxygen - http://download.eclipse.org/staging/oxygen/"   | Verify that all LTTng Kernel, LTTng UST and GDB Trace are available   | Manual | N/A     |
| <b>2 Verify C/C++ EPP Package RC2</b> |                                  |   |   |        |         |
| 2.1                                   | Download EPP Package             | Download, extract and start EPP package. Check the mailing list for the package <a href="https://dev.eclipse.org/mailman/listinfo/epp-dev">https://dev.eclipse.org/mailman/listinfo/epp-dev</a>   | EPP Package starts  | Manual | Pass    |
| 2.2                                   | Version of Tracing Features      | Go to Help -> About Eclipse -> Installation Details   | Verify that all tracing features and plug-ins are present and have the correct version (TMF, LTTng, CTF, GDBTrace)                                  | Manual | Pass    |
| 2.3                                   | TMF presence                     | Open Tracing perspective  | Tracing perspective opens   | Manual | Pass    |
| 2.4                                   | LTTng presence                   | Open LTTng Kernel perspective   | LTTng Kernel perspective  | Manual | Pass    |
| 2.5                                   | GDB Tracepoint Analysis presence | Open GDB Trace perspective  | GDB Tracepoint analysis perspective   | Manual | Pass    |
| 2.6                                   | Oxygen Update Site               | Go to Help -> Install New Software... -> Use the testing update site "Oxygen - http://download.eclipse.org/staging/oxygen/"   | Verify that all LTTng Kernel, LTTng UST and GDB Trace are available   | Manual | Pass    |
| <b>3 Verify C/C++ EPP Package RC3</b> |                                  |   |   |        |         |
| 3.1                                   | Download EPP Package             | Download, extract and start EPP package   | EPP Package starts  | Manual | Pass    |
| 3.2                                   | Version of Tracing Features      | Go to Help -> About Eclipse -> Installation Details   | Verify that all tracing features and plug-ins are present and have the correct version (TMF, LTTng, CTF, GDBTrace)                                  | Manual | Pass    |
| 3.3                                   | TMF presence                     | Open Tracing perspective  | Tracing perspective opens   | Manual | Pass    |
| 3.4                                   | LTTng presence                   | Open LTTng Kernel perspective   | LTTng Kernel perspective  | Manual | Pass    |
| 3.5                                   | GDB Tracepoint Analysis presence | Open GDB Trace perspective  | GDB Tracepoint analysis perspective   | Manual | Pass    |
| 3.6                                   | Oxygen Update Site               | Go to Help -> Install New Software... -> Use the testing update site "Oxygen - http://download.eclipse.org/staging/oxygen/"   | Verify that all LTTng Kernel, LTTng UST and GDB Trace are available   | Manual | Pass    |
| <b>4 Verify C/C++ EPP Package RC4</b> |                                  |   |   |        |         |
| 4.1                                   | Download EPP Package             | Download, extract and start EPP package   | EPP Package starts  | Manual | Pass    |
| 4.2                                   | Version of Tracing Features      | Go to Help -> About Eclipse -> Installation Details   | Verify that all tracing features and plug-ins are present and have the correct version (TMF, LTTng Control, LTTng Kernel, LTTng UST, CTF, GDBTrace) | Manual | Pass    |
| 4.3                                   | TMF presence                     | Open Tracing perspective  | Tracing perspective opens   | Manual | Pass    |
| 4.4                                   | LTTng presence                   | Open LTTng Kernel perspective   | LTTng Kernel perspective  | Manual | Pass    |
| 4.5                                   | GDB Tracepoint Analysis presence | Open GDB Trace perspective  | GDB Tracepoint analysis perspective   | Manual | Pass    |
| 4.6                                   | Oxygen Update Site               | Go to Help -> Install New Software... -> Use the testing update site "Oxygen - http://download.eclipse.org/staging/oxygen/"   | Verify that all LTTng Kernel, LTTng UST and GDB Trace are available   | Manual | Pass    |
| <b>5 Verify Update Site</b>           |                                  |   |   |        |         |
| 5.1                                   | Oxygen Update Site               | Download Eclipse for Committers and install LTTng Kernel, LTTng UST, GDBTrace and PCAP Network Analysis from main simrel testing Update site "Oxygen - http://download.eclipse.org/staging/oxygen/"   | Verify that installation was successful   | Manual | Pass    |
| 5.2                                   | Trace Compass Update Site        | Download Eclipse for Committers and install LTTng Kernel, LTTng Control, LTTng UST, GDBTrace and PCAP Network Analysis from the Linux Tools Update site <a href="http://download.eclipse.org/tracecompass/oxygen/milestones">http://download.eclipse.org/tracecompass/oxygen/milestones</a> | Verify that installation was successful   | Manual | Pass    |

|          |   |  |   |        |      |  |
|----------|---|--|---|--------|------|--|
| 5.3      | Upgrade using Oxygen Update Site        | Download Eclipse for Committers from Oxygen.0 and install LTTng, LTTng Kernel, GDBTrace and PCAP Network Analysis from main simrel Update site.<br><a href="http://download.eclipse.org/releases/neon">http://download.eclipse.org/releases/neon</a><br>Try to update the installation using the testing simrel update site.<br>Oxygen - <a href="http://download.eclipse.org/staging/oxygen/">http://download.eclipse.org/staging/oxygen/</a>   | Verify that installation was successful | Manual | Pass |  |
| 5.4      | Upgrade using Trace Compass Update Site | Download Eclipse for Committers from Oxygen.0 and install LTTng, LTTng Kernel, LTTng UST, GDBTrace and PCAP Network Analysis from the Trace Compass release Update site.<br><a href="http://download.eclipse.org/tracecompass/releases/2.3.0/repository">http://download.eclipse.org/tracecompass/releases/2.3.0/repository</a><br>Try to update the installation using the Trace Compass update site <a href="http://download.eclipse.org/tracecompass/oxygen/milestones">http://download.eclipse.org/tracecompass/oxygen/milestones</a>  | Verify that installation was successful | Manual | Pass |  |
| 5.5      | Upgrade from previous EPP               | Download Eclipse previous C/C++ EPP package. Try to upgrade using both update sites:<br>(TODO find correct job: <a href="https://hudson.eclipse.org/packaging/job/luna.epp-tycho-build/128/artifact/org.eclipse.epp.packages/archive/repository/">https://hudson.eclipse.org/packaging/job/luna.epp-tycho-build/128/artifact/org.eclipse.epp.packages/archive/repository/</a> )<br>"Mars - <a href="http://download.eclipse.org/releases/maintenance">http://download.eclipse.org/releases/maintenance</a> "<br><br>The information about the update sites to use is usually posted on epp-dev | Verify that installation was successful | Manual | Pass |  |
| <b>6</b> | <b>Verify Update Site</b>               | <b>Release outside release train</b>   |   |        |      |  |
| 6.1      | Trace Compass update site               | Download Eclipse standard and install LTTng Kernel, LTTng Control, LTTng UST, GDBTrace and PCAP Network Analysis from main Update site: <a href="http://download.eclipse.org/tracecompass/stable/repository/">http://download.eclipse.org/tracecompass/stable/repository/</a>  | Verify that installation was successful | Manual | N/A  |  |
| 6.2      | Upgrade using Trace Compass update site | Download Eclipse standard from Luna SR0 and install LTTng, LTTng Kernel, LTTng UST, GDBTrace and PCAP Network Analysis from the Luna SR0 Linux Tools Update site.<br><a href="http://download.eclipse.org/linuxtools/update-3.1">http://download.eclipse.org/linuxtools/update-3.1</a><br>Try to update the installation using the Trace Compass update site.<br><a href="http://download.eclipse.org/tracecompass/stable/repository/">http://download.eclipse.org/tracecompass/stable/repository/</a>   | Verify that installation was successful | Manual | N/A  |  |

| Section                                   |   | Pass                         | Fail                  | To Do | Comment |
|---|---|------------------------------|-----------------------|-------|---------|
| JUnit Tests                               |   | 18                           | 0                     | 0     | 0       |
| Target: Ubuntu 12.04 64 bit and on Hudson |   |                              |                       |       |         |
| Step                                      | Test Case   | Action                       | Verification          |       | Comment |
| <b>1 Junit Test Cases</b>                 |   |                              |                       |       |         |
| 1.1                                       | CTF Core Tests Plug-in                            | Run manually or with Jenkins | All test cases passed | Pass  |         |
| 1.2                                       | CTF Parser Tests Plug-in                          | Run manually or with Jenkins | All test cases passed | Pass  |         |
| 1.3                                       | State System Core Tests Plug-in                   | Run manually or with Jenkins | All test cases passed | Pass  |         |
| 1.4                                       | TMF Core Tests Plug-in                            | Run manually or with Jenkins | All test cases passed | Pass  |         |
| 1.5                                       | TMF UI Tests Plug-in                              | Run manually or with Jenkins | All test cases passed | Pass  |         |
| 1.6                                       | TMF UI SWTBot Tests Plug-in                       | Run manually or with Jenkins | All test cases passed | Pass  |         |
| 1.7                                       | CTF Support for TMF SWTBot Tests Plug-in          | Run manually or with Jenkins | All test cases passed | Pass  |         |
| 1.8                                       | TMF Xml Analysis Core Tests Plug-in               | Run manually or with Jenkins | All test cases passed | Pass  |         |
| 1.9                                       | TMF Xml Analysis UI Tests Plug-in                 | Run manually or with Jenkins | All test cases passed | Pass  |         |
| 1.10                                      | LTTng Control Core Tests Plug-in                  | Run manually or with Jenkins | All test cases passed | Pass  |         |
| 1.11                                      | LTTng Control UI Tests Plug-in                    | Run manually or with Jenkins | All test cases passed | Pass  |         |
| 1.12                                      | LTTng Kernel Analysis Core Tests Plug-in          | Run manually or with Jenkins | All test cases passed | Pass  |         |
| 1.13                                      | LTTng Kernel Analysis UI Tests Plug-in            | Run manually or with Jenkins | All test cases passed | Pass  |         |
| 1.14                                      | LTTng Kernel UI SWTBot Tests Plug-in              | Run manually or with Jenkins | All test cases passed | Pass  |         |
| 1.15                                      | LTTng Userspace Tracer Analysis Core Test Plug-in | Run manually or with Jenkins | All test cases passed | Pass  |         |
| 1.16                                      | LTTng Userspace Tracer Analysis UI Test Plug-in   | Run manually or with Jenkins | All test cases passed | Pass  |         |
| 1.17                                      | GDB Tracepoint Analysis Core Tests Plug-in        | Run manually or with Jenkins | All test cases passed | Pass  |         |
| 1.18                                      | GDB Tracepoint Analysis UI Tests Plug-in          | Run manually or with Jenkins | All test cases passed | Pass  |         |

| Section                     | Pass  | Fail  | Type  | To Do  | Comment |
|-----------------------------|---|---|---|--------|---------|
| TMF - Project View          | 149   | 0   | 102   | 0      | 15      |
| Target: Ubuntu 16.04 64 bit |   |   |   |        |         |
| Step                        | Test Case   | Action  | Verification  |        | Comment |
| <b>1 Preparation</b>        |   |   |   |        |         |
| 1.1                         | Step 1  | Open LTTng Kernel perspective   | LTTng perspective opens with correct views  | Manual | Pass    |
| 1.2                         | Step 2  | Open Navigator View (used for independent verification)   | Navigator View opens  | SWTBot | Pass    |
| <b>2 Project Creation</b>   |   |   |   |        |         |
| 2.1                         | New Project Wizard                                  | Open New Tracing Project Wizard   | Tracing Project Wizard opens  | SWTBot | Pass    |
| 2.2                         | Create project                                      | Specify a project name and finish   | Tracing project appears in Project Explorer/Navigator   | SWTBot | Pass    |
| 2.3                         | Project structure                                   | Open the new Tracing project  | Project contains Experiments and Traces folders   | SWTBot | Pass    |
| <b>3 Traces Folder</b>      |   |   |   |        |         |
|                             | <b>Preparation</b>                                  | <b>1) Download traces.zip (if necessary) and unzip into a local directory \${local}<br/>2) Import Custom Text and XML parsers (ExampleCustomXmlParser.xml, ExampleCustomTxtParser.xml) from directory traces/customParsers into your workspace from the Manage Custom Parsers dialog.</b>               |   | SWTBot | Pass    |
| 3.1                         | Traces Folder menu                                  | Select the Traces folder and open its context menu  | Correct menu opens (Import, Refresh)  | SWTBot | Pass    |
| 3.2                         | Trace Import Wizard                                 | Select Import   | Trace Import Wizard appears   | SWTBot | Pass    |
| 3.3                         | Import single custom text trace (link to workspace) | 1) Browse to directory \${local}/traces/import/<br>2) Select trace ExampleCustomTxt.log<br>3) Keep <Auto Detection>, Select "Import unrecognized traces", unselect "Overwrite existing without warning" and select "Create Links to workspace" and<br>4) press Finish                                   | Imported trace appear in Traces Folder and the Trace Type Tmf Generic is set. Make sure trace can be opened   | SWTBot | Pass    |
| 3.4                         | Import Single custom XML trace (link to workspace)  | redo 3.1-3.3 but this time select ExampleCustomXml.xml  | Imported trace appear in Traces Folder and the Trace Type "Custom XML log" is set. Make sure that trace can be opened                                   | SWTBot | Pass    |
| 3.5                         | Import LTTng Kernel CTF trace (link to workspace)   | redo 3.1-3.3 but this time select directory kernel-overlap-testing/   | Imported trace appear in Traces Folder and the Trace Type "LTTng Kernel" is set. Make sure that trace can be opened                                     | SWTBot | Pass    |
| 3.6                         | Rename + copy import                                | redo 3.3, 3.4, 3.5. However, Unselect "Create Links to workspace"<br>When dialog box appear select Rename   | Traces are imported with new name that has a suffix (2) at the end. Make sure that imported traces are copied to the project.                           | SWTBot | Pass    |
| 3.7                         | Overwrite + copy import                             | redo 3.3, 3.4, 3.5. However, Unselect "Create Links to workspace"<br>When dialog box appear select Overwrite  | Existing traces are deleted and new traces are imported. Make sure that imported traces are copied to the project and can be opened                     | SWTBot | Pass    |
| 3.8                         | Skip  | redo 3.3, 3.4, 3.5. However, Unselect "Create Links to workspace"<br>When dialog box appear select Skip   | Make sure that no new trace is imported   | SWTBot | Pass    |
| 3.9                         | Default overwrite                                   | redo 3.3, 3.4, 3.5. However, Unselect "Create Links to workspace" and select "Overwrite existing without warning"   | Make sure that no dialog box appears (for renaming, overwriting, skipping) and existing traces are overwritten. Make sure trace can be opened           | SWTBot | Pass    |
| 3.10                        | Import unrecognized                                 | 1) Open Import wizard (see 3.1-3.2)<br>2) Browse to directory \${local}/traces/import<br>3) Select trace unrecognized.log<br>4) Keep <Auto Detection>, Select "Import unrecognized traces", unselect "Overwrite existing without warning" and select "Create Links to workspace" and<br>5) press Finish | unrecognized.log is imported with trace type unknown. The default text file icon is displayed. The trace, when opened, is displayed in the text editor. | SWTBot | Pass    |
| 3.11                        | Import unrecognized (ignore)                        | redo 3.10, however unselect "Import unrecognized traces"  | unrecognized.log is not imported  | SWTBot | Pass    |

|      |  |   |  |        |      |
|------|--|---|--|--------|------|
|      | <b>Preparation</b>   | <b>Delete all traces in project - Right mouse click on Traces folder and select "Clear"</b>   |  | SWTBot | Pass |
| 3.12 | Import CTF trace by selection metadata file only                       | Redo 3.5, However only select metadata file instead of directory trace  | Imported trace appear in Traces Folder and the Trace Type "LTTng Kernel" is set. Make sure that trace can be opened  | SWTBot | Pass |
|      | <b>Preparation</b>   | <b>Delete all traces in project</b>   |  |        |      |
| 3.13 | Recursive import with auto-detection (Rename All)                      | 1) Open Import wizard (see 3.1-3.2)<br>2) Browse to directory \${local}/traces/import<br>3) select directory import<br>4) Keep <Auto Detection>, Select "Import unrecognized traces", unselect "Overwrite existing without warning", select "Create Links to workspace" and unselect "Preserve Folder Structure"<br>5) press Finish<br>6) When dialog appears select "Rename All"   | All Traces are imported with respective trace type set. Traces with name clashes are imported with suffix (2). 1 trace (unrecognized.log) is imported with trace type unknown. Make sure that traces can be opened which have a trace type set. The unknown trace type should open with the text editor. | SWTBot | Pass |
|      | <b>Preparation</b>   | <b>Delete all traces in project</b>   |  |        |      |
| 3.14 | Recursive import with auto-detection (Overwrite All)                   | 1) Open Import wizard (see 3.1-3.2)<br>2) Browse to directory \${local}/traces/import/<br>3) select directory import<br>4) Keep <Auto Detection>, Select "Import unrecognized traces", unselect "Overwrite existing without warning", select "Create Links to workspace" and unselect "Preserve Folder Structure"<br>5) press Finish<br>6) When dialog appears select Overwrite All"  | All Traces are imported with respective trace type set. Traces with name clashes are overwritten. 1 trace (unrecognized.log) is imported with trace type unknown. Make sure that traces can be opened which have a trace type set. The unknown trace type should open with the text editor.              | SWTBot | Pass |
|      | <b>Preparation</b>   | <b>Delete all traces in project</b>   |  |        |      |
| 3.15 | Recursive import with auto-detection (Skip All)                        | 1) Open Import wizard (see 3.1-3.2)<br>2) Browse to directory \${local}/traces/import/<br>3) select directory import<br>4) Keep <Auto Detection>, Select "Import unrecognized traces", unselect "Overwrite existing without warning" and select "Create Links to workspace" and uncheck "preserve folder structure"<br>5) press Finish<br>6) When dialog appears select Skip All"   | All Traces are imported with respective trace type set. Traces with name clashes are not imported. 1 trace (unrecognized.log) is imported with trace type unknown. The unknown trace type should open with the text editor.  | SWTBot | Pass |
|      | <b>Preparation</b>   | <b>Delete all traces in project</b>   |  |        |      |
| 3.16 | Recursive import with auto-detection (test rename, overwrite and skip) | 1) Open Import wizard (see 3.1-3.2)<br>2) Browse to directory \${local}/traces/import/<br>3) select directory import<br>4) Keep <Auto Detection>, Select "Import unrecognized traces", unselect "Overwrite existing without warning", select "Create Links to workspace" and unselect "Preserve Folder Structure"<br>5) press Finish<br>6) When dialog appears select "Rename"<br>7) When dialog appears select "Overwrite"<br>8) When dialog appears select "Skip" | All Traces are imported with respective trace type set. Traces with name clashes are either renamed, overwritten or skipped as per dialog action. Make sure that traces can be opened which have trace type set. The unknown trace type should open with the text editor.                                | SWTBot | Pass |
|      | <b>Preparation</b>   | <b>Delete all traces in project</b>   |  |        |      |
| 3.17 | Recursive import with specific trace type 1 (Skip All)                 | 1) Open Import wizard<br>2) Browse to directory \${local}/traces/import/<br>3) select directory import<br>4) Select trace type "Generic CTF Trace", Select "Import unrecognized traces", unselect "Overwrite existing without warning", select "Create Links to workspace" and unselect "Preserve Folder Structure" and<br>5) press Finish<br>6) When dialog appears select Skip All"   | After selecting trace type, verify that button "Import unrecognized traces" is disabled.<br><br>4 CTF traces are imported with trace type "Generic CTF Trace". Make sure that these traces can be opened   | SWTBot | Pass |
|      | <b>Preparation</b>   | <b>Delete all traces in project</b>   |  |        |      |
| 3.18 | Recursive import with specific trace type 2 (Skip All)                 | 1) Open Import wizard (see 3.1-3.2)<br>2) Browse to directory \${local}/traces/import/<br>3) select directory import<br>4) Select trace type "LTTng Kernel Trace", Select "Import unrecognized traces", unselect "Overwrite existing without warning", select "Create Links to workspace" and unselect "Preserve Folder Structure"<br>5) press Finish<br>6) When dialog appears select Skip All"  | After selecting trace type, verify that button "Import unrecognized traces" is disabled.<br><br>One LTTng Kernel trace is imported with trace type "LTTng Kernel Trace". Make sure that this trace can be opened.  | SWTBot | Pass |
|      | <b>Preparation</b>   | <b>Delete all traces in project</b>   |  |        |      |

|      |   |   |   |        |      |  |
|------|---|---|---|--------|------|--|
| 3.19 | Recursive import with specific trace type 3 (Skip All)      | <ol style="list-style-type: none"> <li>1) Open Import wizard</li> <li>2) Browse to directory \${local}/traces/import/</li> <li>3) select directory import</li> <li>4) Select trace type "LTTng UST Trace", Select "Import unrecognized traces", unselect "Overwrite existing without warning", select "Create Links to workspace" and unselect "Preserve Folder Structure"</li> <li>5) press Finish</li> <li>6) When dialog appears select Skip All"</li> </ol>           | <p>After selecting trace type, verify that button "Import unrecognized traces" is disabled.</p> <p>3 LTTng UST traces are imported with trace type "LTTng UST Trace". Make sure that these traces can be opened.</p>  | SWTBot | Pass |  |
|      | <b>Preparation</b>  | <b>Delete all traces in project</b>   |   |        |      |  |
| 3.20 | Recursive import with specific trace type 4 (Skip All)      | <ol style="list-style-type: none"> <li>1) Open Import wizard (see 3.1-3.2)</li> <li>2) Browse to directory \${local}/traces/import/</li> <li>3) select directory import</li> <li>4) Select trace type "Tmf Generic", Select "Import unrecognized traces", unselect "Overwrite existing without warning", select "Create Links to workspace" and unselect "Preserve Folder Structure"</li> <li>5) press Finish</li> <li>6) When dialog appears select Skip All"</li> </ol> | <p>All text files in directories are imported as trace and trace type "Tmf Generic" is set. Note that trace type validation only checks for file exists and that file is not a directory. Make sure that these traces can be opened. However traces with wrong trace type won't show any events in the table.</p> | SWTBot | Pass |  |
|      | <b>Preparation</b>  | <b>Delete all traces in project</b>   |   |        |      |  |
| 3.21 | Import wizard from workbench menu with project selected     | <ol style="list-style-type: none"> <li>1) Select project "Test" in Project Explorer view</li> <li>2) Open import wizard from menu File &gt; Import... &gt; Tracing &gt; Trace Import</li> <li>3) Browse to directory \${local}/traces/import/</li> <li>4) Select trace ExampleCustomTxt.log</li> <li>5) Keep &lt;Auto Detection&gt;, select "Create Links to workspace" and</li> <li>6) press Finish</li> </ol>   | <p>Verify that trace is imported to "Test" project and can be opened.</p>   | SWTBot | Pass |  |
| 3.22 | Import wizard from workbench menu with no project selected  | <ol style="list-style-type: none"> <li>1) Clear selection in Project Explorer view</li> <li>2) Open import wizard from menu File &gt; Import... &gt; Tracing &gt; Trace Import</li> <li>3) Browse to directory \${local}/traces/import/</li> <li>4) Select trace ExampleCustomTxt.log</li> <li>5) Keep &lt;Auto Detection&gt;, select "Create Links to workspace" and</li> <li>6) press Finish</li> </ol>   | <p>Verify that trace is imported to default "Tracing" project and can be opened.</p>  | SWTBot | Pass |  |
|      | <b>Preparation</b>  | <b>Delete all traces in project</b>   |   |        |      |  |
| 3.23 | Drag and Drop from other Tracing                            | D&D a few LTTng traces from another Tracing project's Traces folder   | <p>Selected traces are added to the Traces folder with proper icon. Trace can be opened.</p>  | Manual | Pass |  |
| 3.24 | Drag and Drop from non-Tracing                              | D&D a few files from a non-Tracing project  | <p>Selected traces are added to the Traces folder with default icon. Files can be opened with the default editor.</p>   | Manual | Pass | CTF traces (folders) are not supported yet |
| 3.25 | Drag and Drop from external                                 | D&D a few files from an external file manager   | <p>Selected traces are added to the Traces folder with default icon. For actual traces Trace type is detected automatically. Trace can be opened, For non traces the files are added with default icon and they can be opened with the default editor.</p>  | Manual | Pass |  |
| 3.26 | Drag and Drop of trace with existing name                   | <ol style="list-style-type: none"> <li>1) D&amp;D a trace with name of an existing trace into traces folder</li> <li>2) Confirm the renaming of traces</li> </ol>   | <p>Verify that trace is added into the traces folder with the trace name of the original trace plus a suffix 2</p>  | Manual | Pass |  |
| 3.27 | Drag and Drop of trace with existing name (2nd time)        | Redo test 3.26 with the same trace and same destination folder  | <p>Verify that trace is added into the traces folder with the trace name of the original trace plus a suffix 3</p>  | Manual | Pass |  |
| 3.28 | Import destination  | Open Import wizard  | <p>Verify that "Into Folder" text box cannot be updated</p>   | Manual | Pass |  |
|      | <b>Preparation</b>  | <b>Delete all traces in project</b>   |   |        |      |  |
| 3.29 | Recursive import with preserved folder structure            | <ol style="list-style-type: none"> <li>1) Open Import wizard (see 3.1-3.2)</li> <li>2) Browse to directory \${local}/traces/import/</li> <li>3) select directory import</li> <li>4) Select trace type "Tmf Generic", unselect "Overwrite existing without warning", select "Create Links to workspace" and select "Preserve Folder Structure"</li> <li>5) press Finish</li> </ol>   | <p>All Traces are imported with respective trace type set. The folder "clashes" is imported with its traces inside. Make sure that traces can be opened which have a trace type set.</p>  | SWTBot | Pass |  |
| 3.30 | Recursive import with preserved folder structure (Skip All) | <ol style="list-style-type: none"> <li>1) Open Import wizard (see 3.1-3.2)</li> <li>2) Browse to directory \${local}/traces/import/</li> <li>3) select directory import</li> <li>4) Select trace type "Tmf Generic", unselect "Overwrite existing without warning", select "Create Links to workspace" and select "Preserve Folder Structure"</li> <li>5) press Finish</li> <li>6) When dialog appears select "Skip All"</li> </ol>                                       | <p>The wizard should finish quickly as no trace will be imported. Make sure that traces can be opened which have a trace type set.</p>  | SWTBot | Pass |  |



|      |   |  |   |        |      |
|------|---|--|---|--------|------|
| 3.31 | Recursive import with preserved folder structure (Rename All) | <ol style="list-style-type: none"> <li>1) Open Import wizard (see 3.1-3.2)</li> <li>2) Browse to directory <code>\$(local)/traces/import/</code></li> <li>3) select directory import</li> <li>4) Select trace type "Tmf Generic", unselect "Overwrite existing without warning", select "Create Links to workspace" and select "Preserve Folder Structure"</li> <li>5) press Finish</li> <li>6) When dialog appears select "Rename All"</li> </ol> | All Traces are imported with respective trace type set with suffix (2). The folder "clashes" is imported with its traces inside. Make sure that traces can be opened which have a trace type set.                               | SWTBot | Pass |
|      | <b>Preparation</b>  | <b>Delete all traces in project</b>  |   |        |      |
| 3.32 | Delete with mixed selection of traces and folders             | <ol style="list-style-type: none"> <li>1) Create two trace folders under the "Traces" folder</li> <li>2) Import 2 traces under each folder</li> <li>3) Open all 4 traces</li> <li>4) Select one trace in the first folder and the second folder in the Project Explorer view</li> <li>5) Right-click, Delete. Click Yes.</li> </ol>  | A dialog should ask the user to confirm deletion of the selected elements. Clicking OK should remove all that was selected. The editor of the 3 deleted traces should be closed automatically with one remaining editor opened. | SWTBot | Pass |
| 3.33 | Delete multiple folders                                       | <ol style="list-style-type: none"> <li>1) Create 2 trace folders under the "Traces" folder</li> <li>2) Import a trace under each folder</li> <li>3) Open both traces</li> <li>4) Select both folders in the Project Explorer view</li> <li>5) Right-click, Delete. Click Yes</li> </ol>  | A dialog should ask the user to confirm deletion of the selected elements. Clicking OK should remove all that was selected. The editor of both traces should be closed automatically.   | SWTBot | Pass |
| 3.34 | Clear single Traces folder                                    | <ol style="list-style-type: none"> <li>1) Import 2 traces from different folders preserving folder structure</li> <li>2) Open both traces.</li> <li>3) Select the Traces folder</li> <li>4) Right-click, Clear. Click Yes.</li> </ol>  | A dialog should ask the user to confirm clearing of the folder. Clicking Yes should remove everything under the selected folder and close the traces  | SWTBot | Pass |
| 3.35 | Clear multiple Traces folder                                  | <ol style="list-style-type: none"> <li>1) Import 2 traces to different projects</li> <li>2) Open both traces.</li> <li>3) Select both Traces folders</li> <li>4) Right-click, Clear. Click Yes.</li> </ol>   | A dialog should ask the user to confirm clearing of the folders. Clicking Yes should remove everything under the selected folders and close the traces  | SWTBot | Pass |
|      | <b>Preparation</b>  | <b>Delete all traces in project</b>  |   |        |      |
| 3.36 | Import from zip archive, preserve folder structure            | <ol style="list-style-type: none"> <li>1) Open Import wizard (see 3.1-3.2)</li> <li>2) Select archive file: traces.zip</li> <li>3) select directory the root directory</li> <li>4) Select trace type "Automatic", unselect "Overwrite existing without warning" and select "Preserve Folder Structure"</li> <li>5) press Finish</li> </ol>   | All the files get imported under their respective folders. The CTF traces can be opened (kernel-overlap-testing, simple_server...)  | SWTBot | Pass |
|      | <b>Preparation</b>  | <b>Delete all traces in project</b>  |   |        |      |
| 3.37 | Import from zip archive, no preserve folder structure         | <ol style="list-style-type: none"> <li>1) Open Import wizard (see 3.1-3.2)</li> <li>2) Select archive file: traces.zip</li> <li>3) select directory the root directory</li> <li>4) Select trace type "Automatic", unselect "Overwrite existing without warning" and unselect "Preserve Folder Structure"</li> <li>5) press Finish</li> <li>6) Select Rename All when dialog comes up.</li> </ol>   | All traces are imported with trace type set. The traces from folder "clashes" are renamed with suffix (2). Make sure that the traces can be opened  | SWTBot | Pass |
|      | <b>Preparation</b>  | <b>Delete all traces in project</b>  |   |        |      |
| 3.38 | Import from zip archive specific traces                       | <ol style="list-style-type: none"> <li>1) Open Import wizard (see 3.1-3.2)</li> <li>2) Select archive file: traces.zip</li> <li>3) select file "z-clashes/ExampleCustomTxt.txt" and folder "kernel-overlap-testing"</li> <li>4) Select trace type "Automatic", and select "Preserve Folder Structure"</li> <li>5) press Finish</li> </ol>  | The specified traces are imported with trace type set. Make sure that the traces can be opened.   | SWTBot | Pass |
|      | <b>Preparation</b>  | <b>Delete all traces in project</b>  |   |        |      |
| 3.39 | Import from tar.gz archive, preserve folder structure         | <ol style="list-style-type: none"> <li>1) Open Import wizard (see 3.1-3.2)</li> <li>2) Select archive file: traces.tar.gz</li> <li>3) select directory the root directory</li> <li>4) Select trace type "Automatic", unselect "Overwrite existing without warning" and select "Preserve Folder Structure"</li> <li>5) press Finish</li> </ol>  | All the files get imported under their respective folders. The CTF traces can be opened (kernel-overlap-testing, simple_server...)  | SWTBot | Pass |
|      | <b>Preparation</b>  | <b>Delete all traces in project</b>  |   |        |      |

|                             |  |   |  |        |      |  |
|-----------------------------|--|---|--|--------|------|--|
| 3.40                        | Import from tar.gz archive, no preserve folder structure | 1) Open Import wizard (see 3.1-3.2)<br>2) Select archive file: traces.tar.gz<br>3) select directory the root directory<br>4) Select trace type "Automatic", unselect "Overwrite existing without warning" and unselect "Preserve Folder Structure"<br>5) press Finish<br>6) Select Rename All when dialog comes up. | All traces are imported with trace type set. The traces from folder "clashes" are renamed with suffix (2). Make sure that the traces can be opened | SWTBot | Pass |  |
| <b>Preparation</b>          |  |   |  |        |      |  |
| 3.41                        | Import from tar.gz archive specific traces               | <b>Delete all traces in project</b><br>1) Open Import wizard (see 3.1-3.2)<br>2) Select archive file: traces.tar.gz<br>3) select file "z-clashes/ExampleCustomTxt.txt" and folder "kernel-overlap-testing"<br>4) Select trace type "Automatic", and select "Preserve Folder Structure"<br>5) press Finish           | The specified traces are imported with trace type set. Make sure that the traces can be opened.  | SWTBot | Pass |  |
| <b>4 Trace</b>              |  |   |  |        |      |  |
| 4.1                         | Trace menu   | Select an LTTng trace and open its context menu   | Correct menu opens (Open , Copy, Rename, ...)  | SWTBot | Pass |  |
| 4.2                         | Open trace   | Select the Open menu  | Trace is opened and views are populated  | SWTBot | Pass |  |
| 4.3                         | Copy trace   | Select the Copy menu and provide a new name. Open.  | Trace is replicated under the new name   | SWTBot | Pass |  |
| 4.4                         | Rename trace   | Select the Rename menu and provide a new name. Reopen.  | Trace is renamed. The trace editor is closed.  | SWTBot | Pass |  |
| 4.5                         | Delete trace   | Select the Delete menu and confirm deletion   | Trace is deleted. The trace editor is closed.  | SWTBot | Pass |  |
| 4.6                         | Open Trace (Accelerator)                                 | Select trace and press Enter  | Trace is opened  | SWTBot | Pass | Numpad-enter doesn't work                              |
| 4.7                         | Delete Trace (Accelerator)                               | Select trace and press Delete and confirm deletion  | Trace is deleted. The trace editor is closed.  | SWTBot | Pass |  |
| 4.8                         | Open Trace (double click)                                | Double-click a trace  | Trace is opened  | SWTBot | Pass |  |
| 4.9                         | Open Trace (already open)                                | Open two traces. Open the first trace again.  | The first trace editor is simply brought to front.   | SWTBot | Pass |  |
| <b>5 Experiments Folder</b> |  |   |  |        |      |  |
| 5.1                         | Experiments menu   | Select the Experiments folder and open it context menu  | Correct menu opens (New, Import XML Analysis, Refresh)   | RCPTT  | Pass | Loic Import XML Analysis renamed "Manage XML Analysis" |
| 5.2                         | Create experiment  | Select the New menu and provide experiment name   | Experiment appears under folder, no traces yet   | RCPTT  | Pass |  |
| <b>6 Experiment</b>         |  |   |  |        |      |  |
| 6.1                         | Experiment menu  | Select an experiment and open its context menu  | Correct menu opens (Select, Open , Copy, Rename, ...)  | RCPTT  | Pass |  |
| 6.2                         | Select Traces dialog                                     | Select the Select Traces menu   | Select Traces dialog is open and populated w/ traces   | RCPTT  | Pass |  |
| 6.3                         | Select traces  | Select a few LTTng traces and finish  | Selected traces are imported in the experiment   | RCPTT  | Pass |  |
| 6.4                         | Open experiment  | Select the Open menu  | Experiment is opened and views are populated   | Manual | Pass |  |
| 6.5                         | Copy experiment  | Select the Copy menu and provide a new name. Open.  | Experiment is replicated under the new name  | RCPTT  | Pass |  |
| 6.6                         | Rename experiment  | Select the Rename menu and provide a new name. Open.  | Experiment is renamed  | RCPTT  | Pass |  |
| 6.7                         | Delete experiment  | Select the Delete menu and confirm deletion   | Experiment is deleted  | RCPTT  | Pass |  |
| 6.8                         | Open Experiment (Accelerator)                            | Select an Experiment and press Enter  | Experiment is opened   | RCPTT  | Pass | Numpad-enter doesn't work                              |
| 6.9                         | Delete Experiment (Accelerator)                          | Select an Experiment and press Delete and confirm deletion  | Experiment is deleted  | RCPTT  | Pass |  |
| 6.10                        | Delete Experiment (open experiment)                      | Open an experiment, select experiment and press Delete and confirm deletion   | Experiment is closed and deleted   | Manual | Pass |  |
| 6.11                        | Select Traces while Experiment is open                   | Open an experiment and select an additional trace (see 6.3)   | Experiment is closed and selected traces is imported to the experiment   | Manual | Pass |  |
| <b>7 Experiment Traces</b>  |  |   |  |        |      |  |
| 7.1                         | Trace menu   | Select an LTTng trace and open its context menu   | Correct menu opens w/ Copy disabled + Remove   | RCPTT  | Pass |  |
| 7.2                         | Open trace   | Select the Open menu  | Trace is opened and views are populated  | Manual | Pass |  |
| 7.3                         | Remove trace   | Open Experiment, select the Remove menu and confirm removal   | Experiment is closed, trace is removed from experiment   | RCPTT  | Pass |  |
| 7.4                         | Drag and Drop from Traces                                | D&D a few LTTng traces from the Traces directory  | Selected traces are added to the experiment with proper icon. Experiment can be opened.  | Manual | Pass |  |
| 7.5                         | Drag and Drop from other Tracing                         | D&D a few LTTng traces from another Tracing project's Traces folder   | Selected traces are added to the experiment + Traces with proper icon. Experiment can be opened.   | Manual | Pass |  |
| 7.6                         | Drag and Drop from non-Tracing                           | D&D a few traces from a non-Tracing project   | Selected traces are added to the experiment + Traces with proper icon. Experiment can be opened.   | Manual | Pass |  |
| 7.7                         | Drag and Drop from external                              | D&D a few traces from an external file manager  | Selected traces are added to the experiment + Traces with proper icon. Experiment can be opened.   | Manual | Pass |  |

|           |  |  |   |        |      |  |
|-----------|--|--|---|--------|------|--|
| 7.8       | Drag and Drop from external (non-traces)                       | D&D a few files (non-traces) from an external file manager   | Selected traces are added to the experiment + Traces with proper icon (system icon). Experiment cannot be opened.   | Manual | Pass |  |
| 7.9       | Drag and Drop of trace with existing name                      | 1) D&D a trace with name of an existing trace into experiment folder<br>2) Confirm the renaming of traces  | Verify that trace is added into the traces folder and experiment folder with the trace name of the original trace plus a suffix 2   | Manual | Pass |  |
| 7.10      | Drag and Drop of trace with existing name (2nd time)           | Redo test 7.8 with the same trace and same destination folder  | Verify that trace is added into the traces folder and experiment folder with the trace name of the original trace plus a suffix 3   | Manual | Pass |  |
| 7.11      | Drag and Drop of trace while Experiment is open                | Open an experiment and D&D a trace from the Traces directory (see 7.4)   | Experiment is closed and selected traces is imported to the experiment  | Manual | Pass |  |
| <b>8</b>  | <b>Propagation</b>   |  |   |        |      |  |
| 8.1       | Preparation  | Copy experiment  | Selected experiment is replicated   | Manual | Pass |  |
| 8.2       | Rename propagation   | In Traces folder, rename a trace showing in both experiments   | New name is propagated to both experiments  | Manual | Pass | new name is not propagated and NPE Bug 517665. Fixed for 3.0.0 |
| 8.3       | Delete propagation   | In Traces folder, delete a trace showing in both experiments   | Selected trace is removed from both experiments   | Manual | Pass | if done independently from line above                          |
| 8.4       | Propagate trace type 1   | Add a trace to 2 experiments. Change its type from Traces  | All occurrences of that trace are updated   | Manual | Pass |  |
| 8.5       | Propagate trace type 2   | Add a trace to 2 experiments. Change its type from one of the experiments  | All occurrences of that trace are updated   | Manual | Pass |  |
| <b>9</b>  | <b>Properties View Synchronization</b>                         |  |   |        |      |  |
| 9.1       | Trace synchronization  | Select a trace under a Traces folder in Project Explorer view. Repeat with trace under an Experiment.  | The Properties view is updated with the selected trace's "Resource properties" Property and Value. The "Info > type" property shows the selected trace category and trace type name.                                    | Manual | Pass |  |
| 9.2       | Other trace nodes synchronization                              | Select a Traces folder, Experiments folder, or an experiment in Project Explorer view.   | The Properties view is updated with the selected item's Property and Value. For Experiment verify the "type" property is set.   | Manual | Pass |  |
| 9.3       | Check trace properties   | Open an LTTng kernel trace, click on the trace, check the new properties view.   | The "Trace properties" should be populated  | Manual | Pass |  |
| 9.4       | Check trace properties - experiment                            | Open an experiment which contains LTTng kernel traces, click on the experiment, check the new properties view.   | The "Trace properties" should be populated for every subtrace   | Manual | Pass | New feature ... not implemented yet                            |
| <b>10</b> | <b>Trace Type Selection</b>                                    |  |   |        |      |  |
| 10.1      | Preparation  | Import an file with unrecognized trace type (\$ {local} /traces/import/unrecognized.log)   | Imported trace appear in Traces with default icon. File is can be opened by default Editor (either Eclipse text or system editor depending on plug-ins installed)   | SWTBot | Pass |  |
| 10.2      | Trace properties   | Select the trace and open the Properties View  | Selected trace type is blank  | Manual | Pass |  |
| 10.3      | Trace filtering  | Select an experiment and open Select Traces dialog   | Untyped trace does not appear in list   | SWTBot | Pass | SWTBot tries invalid type for a given valid trace, same thing. |
| <b>11</b> | <b>Supplementary Files</b>                                     |  |   |        |      |  |
| 11.1      | Preparation  | 1) In Project Explorer remove filter for hidden resources (Coolbar menu > Customize View... > unselect '.* resources')<br>2) Create Experiment with 2 LTTng CTF traces in it | Verify that .tracing directory is shown under the project   | RCPTT  | Pass |  |
| 11.2      | Create Supplementary File (State History File) from trace      | Open a LTTng CTF trace and wait for indexing to finish   | Verify that org.eclipse.tracecompass.analysis.os.linux.kernel.ht is created under .tracing/<trace name>/.   | RCPTT  | Pass |  |
| 11.3      | Trace Context sensitive menu                                   | a) Select trace under Folder Traces and click right mouse button<br>b) Redo test: Select trace under Experiment Folder<br>c) Redo test: Select Experiment                    | Verify that menu item 'Delete Supplementary Files...' is shown in the context-sensitive menu  | RCPTT  | Pass |  |
| 11.4      | Delete Supplementary Files Action                              | 1) Select trace and click right mouse button<br>2) Select 'Delete Supplementary Files...'  | Verify that confirmation dialog box is opened and <trace name>/StateHistory.ht is listed  | RCPTT  | Pass |  |
| 11.5      | Select and delete State History File                           | Select <trace name>/StateHistory.ht file and click on 'Ok'   | Make sure that file .tracing/<trace name>/StateHistory.ht is deleted from the project explorer view   | RCPTT  | Pass |  |
| 11.6      | Create Supplementary File (State History File) from experiment | Open Experiment with 2 LTTng CTF traces  | Verify that two StateHistory.ht files are created under .tracing/<trace1 name>/ and .tracing/<trace2 name>/ respectively. Also verify, that supplementary folder for the experiment .tracing/<exp name>_exp is created. | RCPTT  | Pass |  |
| 11.7      | Delete Supplementary Files Action                              | 1) Select Experiment and click right mouse button<br>2) Select 'Delete Supplementary Files...'   | Verify that confirmation dialog box is opened and shows 3 root entries:<br><exp name>, <trace1 name> and <trace2 name>, with their respective supplementary files below   | RCPTT  | Pass |  |

|                                       |   |   |  |        |      |                              |
|---------------------------------------|---|---|--|--------|------|------------------------------|
| 11.8                                  | Select and delete State History File                  | Select one history file (<trace name>/StateHistory.ht) and click on 'Ok'  | Make sure that the selected file .tracing/<trace name>/StateHistory.ht is deleted from the project explorer view   | RCPTT  | Pass |                              |
| 11.9                                  | Select and delete multiple State History files        | 1) Redo 11.2 and 11.6<br>2) Select both history files and click on 'Ok'   | Make sure that both history files are deleted under .tracing/<trace1 name>/ and .tracing/<trace2 name>/ respectively   | RCPTT  | Pass |                              |
| 11.10                                 | Delete Trace  | a) Redo 11.2 to create Supplementary File<br>b) Delete trace  | Verify that supplementary directory .tracing/<trace name>/ is deleted.   | RCPTT  | Pass |                              |
| 11.11                                 | Delete Experiment                                     | a) redo 11.6 to create experiment and Supplementary File<br>b) delete Experiment  | Verify that supplementary File StateHistory.ht .tracing/<trace1 name>/ and .tracing/<trace2 name>/ are NOT deleted. Also verify that the supplementary folder for the experiment .tracing/exp_name_exp is deleted. | RCPTT  | Pass |                              |
| 11.12                                 | Delete Experiment Trace                               | a) redo 11.6 to create experiment and Supplementary File<br>b) remove traces under Experiment   | Verify that supplementary File StateHistory.ht .tracing/<trace1 name>/ and .tracing/<trace2 name>/ are NOT deleted   | RCPTT  | Pass |                              |
| 11.13                                 | Delete Supplementary Files Action while trace is open | Open trace and then redo 11.4   | Verify that trace is closed and supplementary files are deleted  | RCPTT  | Pass |                              |
| <b>12 Link With Editor</b>            |   |   |  |        |      |                              |
| 12.1                                  | Preparation   | 1) In Project Explorer make sure that "Link with Editor" button is selected<br>2) Open multiple traces and experiments  |  | RCPTT  | Pass |                              |
| 12.2                                  | Select trace/experiment in Editors area               | Select several traces and experiments one after each other in Editors area  | Verify that after each selection the corresponding trace or experiment element is selected in the Project Explorer   | RCPTT  | Pass | small problem, might be GTK3 |
| 12.3                                  | Select opened traces/experiments in Project Explorer  | Select several open traces and experiments one after each other in Project Explorer   | Verify that after each selection the corresponding trace or experiment is brought to the top in the Editors area   | Manual | Pass |                              |
| 12.4                                  | Preparation   | 1) In Project Explorer make sure that "Link with Editor" button is not selected<br>2) Open multiple traces and experiments (if not open)  |  | RCPTT  | Pass |                              |
| 12.5                                  | Select trace/experiment in Editors area               | Select several traces and experiments one after each other in Editors area  | Verify that selection in Project Explorer doesn't change   | RCPTT  | Pass |                              |
| 12.6                                  | Select opened traces/experiments in Project Explorer  | Select several open traces and experiments one after each other in Project Explorer   | Verify that Editor in focus is not changed   | RCPTT  | Pass |                              |
| <b>13 Trace Package Export Wizard</b> |   |   |  |        |      |                              |
| 13.1                                  | Preparation   | 1) Import 2 traces that generate supplementay files (trace2, kernel_vm)<br>2) Open both traces, wait for the indexing to finish<br>2) Add bookmarks in the two traces   |  |        |      |                              |
| 13.2                                  | Open the trace package export wizard                  | Click on "File", "Export...", "Tracing", "Trace Package Export" and click Next<br>Alternatively, Right-click in Project Explorer on Project and select "Export", "Tracing", "Trace Package Export" and click Next<br>Alternatively, select multiple traces, right-click and select "Trace Package Export" | A wizard should appear with a list of projects and traces to select. Next button should be disabled.   | SWTBot | Pass |                              |
| 13.3                                  | Select Traces   | On the left side, select the project in which the traces were imported. Then on the right side, selected both traces.   | Next should be become enabled when the first trace is selected. If all traces are unselected, the Next button is disabled.   | SWTBot | Pass |                              |
| 13.4                                  | Deselect/Select All                                   | With traces selected, press the Deselect All button. Then press on the Select All button. Click Next.   | Next should become disabled after Deselect All, enabled after Select All.  | SWTBot | Pass |                              |
| 13.5                                  | Trace element selection                               | Unselect the trace2 element   | All elements in the trace tree are unselected, the Approximate uncompressed size field changes to a lower number.  | SWTBot | Pass |                              |
| 13.6                                  | Trace sub-element selection                           | Unselect the kernel_vm > Trace element  | All elements in the trace tree are unselected, the Approximate uncompressed size field changes to 0. The Next button is disabled.  | Manual | Pass |                              |
| 13.7                                  | Select/Deselect All                                   | With nothing selected, click Select All. Then click Deselect All. Then click Select All again.  | When Select All is clicked, all the tree elements are selected, the approximate size increases. When Deselect All is clicked, all the tree elements are deselected and the approximate size decreases.             | Manual | Pass |                              |
| 13.8                                  | Archive file selection                                | 1) Click on the Browse button.<br>2) Select a location on the filesystem<br>3) Enter the file name export.tar   | A file chooser dialog comes up. When the destination file is entered, the "To archive file" is filed with export.tar.gz. The Finish button should be enabled.  | Manual | Pass |                              |

|                                       |  |  |   |        |      |  |
|---------------------------------------|--|--|---|--------|------|--|
| 13.9                                  | Change export options, change compression            | Unselect the "Compress" checkbox.  | The name of the archive file changes to export.tar  | SWTBot | Pass |  |
| 13.10                                 | Change export options, change format                 | Change to Zip format   | The name of the archive file changes to export.zip  | SWTBot | Pass |  |
| 13.11                                 | Change export options, change format and compression | Change to Tar format then select the Compress checkbox.  | The name of the archive file changes to export.tar.gz   | Manual | Pass |  |
| 13.12                                 | Finish the wizard                                    | Click Finish   | A progress bar should appear at the bottom the the dialog and it should disappear upon completion. The export.tar.gz file should be created on the file system.   | SWTBot | Pass |  |
| 13.13                                 | Overwrite  | Open the wizard again and select the traces (step 13.2, 13.3). Click Finish.   | The Archive file name should be remembered and already filled. A dialog should prompt the user to overwrite. Answering No should keep the wizard opened. Answering Yes should re-export the archive and close the wizard.   | Manual | Pass | No File>export...>tracing in RCP, used Traces content menu   |
| 13.14                                 | Verify formats                                       | Open the wizard again and select the traces (step 13.2, 13.3). This time, choose Zip format. Click Finish.   | The export.zip file should be created on the file system  | Manual | Pass | No File>export...>tracing in RCP, used Traces content menu / Matthew: yes, right click on Tracing. works |
| 13.15                                 | Verify content                                       | Open the tar.gz and the zip files in an archive manager.   | In both archives, verify that it contains:<br>1) A trace folder for each trace containing all the trace files (excluding supplementary files)<br>2) A .tracing folder containing all the supplementary files<br>3) An export-manifest.xml file listing the trace files, supplementary files and bookmarks | Manual | Pass |  |
| 13.16                                 | Partial selection                                    | Open the wizard again and select the traces (step 13.2, 13.3). This time, unselect both Supplementary files subtrees. Click Finish.  | Verify that the exported archive contains:<br>In both archives, verify that it contains:<br>1) A Traces folder containing all the trace files (excluding supplementary files)<br>2) No .tracing folder<br>3) An export-manifest.xml file listing the trace files and bookmarks                            | Manual | Pass |  |
| <b>14 Trace Package Import Wizard</b> |  |  |   |        |      |  |
| 14.1                                  | Preparation  | Create an empty tracing project. Make sure you have export.tar.gz available from the Trace Package Export Wizard (13) test case, which should include everything including trace files, supplementary files and export-manifest.xml. |   |        |      |  |
| 14.2                                  | Open the trace package import wizard                 | Click on "File", "Import...", "Tracing", "Trace Package Import" and click Next   | The first page of the wizard should appear (Choose content to import)   | SWTBot | Pass |  |
| 14.3                                  | Project Selection                                    | Click the Select button. Choose the previously created project.  | The Into project field gets filled with the selected project name.  | SWTBot | Pass |  |
| 14.4                                  | Archive file selection                               | 1) Click on the Browse button.<br>2) Browse for export.tar.gz on the file system   | Finish should be become enabled when the first trace is selected. If all traces are unselected, the Next button is disabled.  | SWTBot | Pass |  |
| 14.5                                  | Deselect/Select All                                  | With traces selected, press the Deselect All button. Then press on the Select All button.  | Finish should become disabled after Deselect All, enabled after Select All.   | SWTBot | Pass |  |
| 14.6                                  | Trace element selection                              | Unselect the trace2 element  | All elements in the trace tree are unselected.  | SWTBot | Pass |  |
| 14.7                                  | Trace sub-element selection                          | Unselect the kernel_vm > Trace element   | All elements in the trace tree are unselected.  | Manual | Pass |  |
| 14.8                                  | Select/Deselect All                                  | With nothing selected, click Select All. Then click Deselect All. Then click Select All again.   | When Select All is clicked, all the tree elements are selected. When Deselect All is clicked, all the tree elements are deselected..  | SWTBot | Pass |  |
| 14.9                                  | Finish the wizard                                    | Click Finish   | A progress bar should appear at the bottom the the dialog and it should disappear upon completion. The two traces should appear under the project in Project Explorer   | SWTBot | Pass | Very fast  |
| 14.10                                 | Supplementary Files                                  | Right-click on trace2 in Project Explorer  | Delete Supplementary files appears in the content menu  | Manual | Pass |  |
| 14.11                                 | Bookmarks  | Open the Bookmarks view  | Bookmarks appear in the list for the imported traces  | Manual | Pass |  |
| 14.12                                 | Open from bookmark                                   | Double click on one of the bookmarks   | The corresponding trace opens at the bookmarked event. Bookmarks are displayed in the event table.  | Manual | Pass |  |
| 14.13                                 | Overwrite  | Open the wizard again (step 13.2) and select the archive file (step 13.4). Click Finish.   | A dialog should prompt the user to overwrite for each trace. Answering Yes to All should overwrite without prompting again.   | Manual | Pass |  |
| <b>15 Time Offsetting</b>             |  |  |   |        |      |  |
| 15.1                                  | Preparation  | Open Project Explorer view and Properties view. Create an empty tracing project. Import two different traces to the project. Open the traces and note their start time. Close the traces.  |   |        |      |  |

|       |  |  |  |        |      |
|-------|--|--|--|--------|------|
| 15.2  | Apply time offset dialog - trace selection                             | Select both trace elements in the Project Explorer view. Right-click and select Apply Time Offset...   | The Apply time offset dialog opens in Basic mode. The Trace name show both traces and the Offset in seconds is blank.  | SWTBot | Pass |
| 15.3  | Apply time offset dialog - folder selection                            | Select the Traces folder element in the Project Explorer view. Right-click and select Apply Time Offset...   | The Apply time offset dialog opens in Basic mode. The Trace name show both traces and the Offset in seconds is blank.  | SWTBot | Pass |
| 15.4  | Apply time offset dialog - experiment selection                        | Create an experiment with both traces. Select the experiment element in the Project Explorer view. Right-click and select Apply Time Offset...   | The Apply time offset dialog opens in Basic mode. The Trace name show both traces and the Offset in seconds is blank.  | SWTBot | Pass |
| 15.5  | Apply time offset dialog - Basic mode                                  | Select a trace element in the Project Explorer view. Right-click and select Apply Time Offset... In the Offset in seconds column, enter a time with seconds and decimals. Click OK. Open the trace.  | The timestamps in the trace are all offset by the entered value. The Properties view shows the 'time offset' with the entered value.   | SWTBot | Pass |
| 15.6  | Apply time offset dialog - cumulative offset                           | Select the same trace element in the Project Explorer view. Right-click and select Apply Time Offset... In the Offset in seconds column, enter a time with seconds and decimals. Click OK. Open the trace.   | The timestamps in the trace are all offset by the cumulative sum of the previous and current entered value. The Properties view shows the 'time offset' with the cumulative value.   | SWTBot | Pass |
| 15.7  | Clear time offset  | Select the trace element in the Project Explorer view. Right-click and select Clear time offset. Click OK to confirm. Open the trace.  | The timestamps in the trace are back to their original values. The Properties view shows the 'time offset' as blank.   | SWTBot | Pass |
| 15.8  | Apply time offset dialog - Advanced mode                               | Open one trace and close the other trace. Select both trace elements in the Project Explorer view. Right-click and select Apply Time Offset... Choose the Advanced radio button.   | The Apply time offset dialog opens and is switched to Advanced mode. The Trace name show both traces and the Offset in seconds is blank. The Reference time for the opened trace is set to its start time.   | Manual | Pass |
| 15.9  | Apply time offset dialog - Advanced mode - compute from selection      | Double-click the second trace to open it. Select an event in its trace editor. Select the first trace editor. Select an event in its trace editor. Click the button in the dialog row of the second trace. Click OK. Open both traces.   | Both traces are open. Selecting an event updates the Reference time for the selected trace, and updates the Target time for all traces. Pressing the button computes the Offset in seconds as the difference between Target time and Reference time for that row. The trace which has a computed offset is closed when the OK button is pressed. After reopening, the two previously selected events now have the same timestamp. The Properties view shows the 'time offset' with the computed value. | Manual | Pass |
| 15.10 | Apply time offset dialog - Advanced mode - compute from entered values | Select the first trace element in the Project Explorer view. Right-click and select Apply Time Offset... Choose the Advanced radio button. Double-click the trace name to open it. Select the Reference time cell and copy the start time. Select the Target time and paste the value. Edit both values to different times. Click the button in the trace row. Click OK. Open the trace. | The trace is opened. The Reference time is set to the trace start time. The Reference time and Target time can be copied, pasted, and edited. Pressing the button computes the Offset based on the current time values. The trace is closed with the OK button is pressed. After reopening, the timestamps in the trace are offset according to the computed value. The Properties view shows the 'time offset' with the computed value.   | Manual | Pass |
| 15.11 | Clear time offset with opened traces                                   | Open both traces. Select both trace elements in the Project Explorer view. Right-click and select Clear time offset. Click OK to confirm. Open the traces.   | The opened traces are closed when the OK button is pressed. After reopening, the timestamps in the traces are back to their original values. The Properties view shows the 'time offset' as blank.   | Manual | Pass |

| Section                       | Pass                | Fail  | Type  | To Do  | Comment                                 |
|-------------------------------|---------------------|---|---|--------|---|
| TMF - Histogram View          | 49                  | 1   | 5   | 0      | 9                                       |
| Target: Ubuntu 14.04 64 bit   |                     |   |   |        |   |
| Step                          | Test Case           | Action  | Verification  |        | Comment                                 |
| <b>1 Preparation</b>          |                     |   |   |        |   |
| 1.1                           | Step 1              | Open and reset LTTng Kernel perspective   | LTTng Kernel perspective opens with correct views   | SWTBot | Pass                                    |
| 1.2                           | Step 2              | Open an LTTng trace   | Views are populated   | SWTBot | Pass                                    |
| <b>2 Manage View</b>          |                     |   |   |        |   |
| 2.1                           | Close view          | Close the Histogram View  | Histogram View is removed from perspective  | SWTBot | Pass 84710                              |
| 2.2                           | Open view           | Window > Show View > Tracing > Histogram  | Histogram View is displayed and re-populated  | SWTBot | Pass 84710                              |
| 2.3                           | Resize              | Resize the Histogram View width-wise  | Histograms are compressed/decompressed without loss   | SWTBot | Pass Tested with HistogramDataModelTest |
| <b>3 Full Trace Histogram</b> |                     |   |   |        |   |
| 3.1                           | Single selection    | Select timestamp with left-click  | Selection Start/End + blue bars are updated   | Manual | Pass                                    |
| 3.2                           | Range selection     | Select time range with shift-left-click, shift-left-drag or left-drag                           | Selection Start/End + blue bars are updated   | Manual | Pass                                    |
| 3.3                           | Drag zoom window    | Drag the zoom window left/right with ctrl-left-drag or middle-drag                              | Zoom window is dragged, won't go beyond full range  | Manual | Pass                                    |
| 3.4                           | Move zoom window    | Move the zoom window with ctrl-left-click or middle-click                                       | Zoom window is centered on click, won't go beyond full range  | Manual | Pass                                    |
| 3.5                           | Set zoom window     | Set a new zoom window with right-drag   | Zoom window is set, Window Span is updated, won't go beyond histogram range                           | Manual | Pass                                    |
| 3.6                           | Zoom in/out         | Zoom in/out with mouse wheel up/down  | Zoom window is updated, Window Span is updated, won't go below 2 ns, won't exceed full trace range    | Manual | Pass                                    |
| 3.7                           | Arrow keys          | Move the current event using left/right arrow keys  | Selection (blue bar) moves to the previous/next non-empty bucket                                      | Manual | Pass                                    |
| 3.8                           | Home/End keys       | Press Home/End key  | Selection Start/End moves to beginning/end of trace (i.e. start time of last bucket is selected)      | Manual | Fail End doesn't go to the end          |
| 3.9                           | Lost events         | With a trace containing lost events, click the "Hide lost events" toolbar icon. Click it again. | The lost events (red bars) are toggled on and off.  | Manual | Pass                                    |
| 3.10                          | Zoom in/out (key)   | Zoom in/out with +/- key  | Zoom window is updated, Window Span is updated, won't go below 2 ns, won't exceed full trace range    | Manual | Pass                                    |
| <b>4 Time Range Histogram</b> |                     |   |   |        |   |
| 4.1                           | Single selection    | Select timestamp with left-click  | Selection Start/End + blue bars are updated   | Manual | Pass                                    |
| 4.2                           | Range selection     | Select time range with shift-left-click, shift-left-drag or left-drag                           | Selection Start/End + blue bars are updated   | Manual | Pass                                    |
| 4.3                           | Drag zoom window    | Drag the zoom window left/right with ctrl-left-drag or middle-drag                              | Zoom window is dragged, won't go beyond full range  | Manual | Pass                                    |
| 4.4                           | Zoom in/out         | Zoom in/out with mouse wheel up/down  | Zoom window is updated, Window Span is updated, won't go below 2 ns, won't exceed full trace range    | Manual | Pass                                    |
| 4.5                           | Arrow keys          | Move the current event using left/right arrow keys  | Selection (blue bar) moves to the previous/next non-empty bucket                                      | Manual | Pass                                    |
| 4.6                           | Home/End keys       | Press Home/End key  | Selection Start/End moves to beginning/end of time range (i.e. start time of last bucket is selected) | Manual | Pass                                    |
| 4.7                           | Lost events         | With a trace containing lost events, click the "Hide lost events" toolbar icon. Click it again. | The lost events (red bars) are toggled on and off.  | Manual | Pass                                    |
| 3.10                          | Zoom in/out (key)   | Zoom in/out with +/- key  | Zoom window is updated, Window Span is updated, won't go below 2 ns, won't exceed full trace range    | Manual | Pass                                    |
| <b>5 Selection Start/End</b>  |                     |   |   |        |   |
| 5.1                           | Set selection start | Enter a TS within the full range in Selection Start widget                                      | Selection Start + blue bars are updated   | Manual | Pass selection range                    |

|  |                                     |  |   |        |      |   |
|--|-------------------------------------|--|---|--------|------|---|
| 5.2  | Set selection end                   | Enter a TS within the full range in Selection End widget   | Selection End + blue bars are updated   | Manual | Pass |   |
| 5.3  | Set selection (linked)              | Select the link icon. Enter a TS within the full range in Selection Start widget   | Selection Start/End + blue bars are updated   | Manual | Pass |   |
| 5.4  | Set invalid selection start         | Enter a TS before the full range start in Selection Start widget   | Selection Start + blue bar set to first event   | Manual | Pass |   |
| 5.5  | Set invalid selection end           | Enter a TS after the full range end in Selection End widget  | Selection End + blue bar set to last event  | Manual | Pass |   |
| <b>6 Window Span</b>                         |                                     |  |   |        |      |   |
| 6.1  | Set window span                     | Enter a span in Window Span widget   | Both Histograms are updated accordingly   | Manual | Pass |   |
| 6.2  | Set large window span               | Enter an invalid span (too large) in Window Span widget  | Span set to full range  | Manual | Pass |   |
| 6.3  | Set invalid window span             | Enter an invalid span (too small, negative, not a number) in Window Span widget  | Span set to previous value  | Manual | Pass | What is to small? 1ns seems to work (smaller than 1ns)  |
| <b>7 Selected Timestamp Synchronization</b>  |                                     |  |   |        |      |   |
| 7.1  | Time Range mouse synchronization    | Click on the time range histogram. The time of the bucket at the mouse position is selected.                             | Other views are synchronized to the selected time   | Manual | Pass |   |
| 7.2  | Full Trace mouse synchronization    | Click on the full trace histogram. The time of the bucket at the mouse position is selected.                             | Other views are synchronized to the selected time   | Manual | Pass | Zoom Window is moved if selection is outside the current zoom window and a time graph window is open (e.g. CFV). Otherwise zoom window stays. |
| 7.3  | Selection synchronization (linked)  | Select the link icon. Enter a time within the full range in Selection Start widget                                       | Other views are synchronized to the selected time   | Manual | Pass |   |
| 7.4  | External synchronization            | In any other view that supports time synchronization, select a time.   | Selection Start/End + blue bars in both histograms are updated to the selected time       | Manual | Pass |   |
| <b>8 Selected Time Range Synchronization</b> |                                     |  |   |        |      |   |
| 8.1  | Time Range mouse synchronization    | Select a time range in the small histogram (shift-left click, left-drag or shift-left drag).                             | Verify that the selected time range shows in both histograms, and in other views.         | Manual | Pass |   |
| 8.2  | Full Trace mouse synchronization    | Select a time range in the full histogram (shift-left click, left-drag, shift-left drag).                                | Verify that the selected time range shows in both histograms, and in other views.         | Manual | Pass |   |
| 8.3  | Selection Start/End synchronization | Enter a time within the full range in Selection Start/End widget   | Other views are synchronized to the selected time range                                   | Manual | Pass | Zoom Window is moved if selection is outside the current zoom window and a time graph window is open (e.g. CFV). Otherwise zoom window stays. |
| 8.4  | External synchronization            | In any other view that supports time range synchronization, select a time range.   | Selection Start/End + blue bars in both histograms are updated to the selected time range | Manual | Pass |   |
| <b>9 Zoom Window synchronization</b>         |                                     |  |   |        |      |   |
| 9.1  | Time Range mouse synchronization    | Select a zoom window in the small histogram (ctrl-left drag, middle-drag, right-drag, mouse wheel up/down).              | Other views are synchronized to the new range   | Manual | Pass |   |
| 9.2  | Full Trace mouse synchronization    | Select a zoom window in the full histogram (ctrl-left drag, middle-click, middle-drag, right-drag, mouse wheel up/down). | Other views are synchronized to the new range   | Manual | Pass |   |
| 9.3  | Window Span synchronization         | Enter a new span in Window Span widget   | Other views are synchronized to the new range   | Manual | Pass |   |
| 9.4  | External synchronization            | In any other view that supports range synchronization, select a new zoom window.   | Window Span and both histograms are updated to the new range                              | Manual | Pass |   |
| <b>10 Multiple Trace Synchronization</b>     |                                     |  |   |        |      |   |



|      |   |   |   |        |      |
|------|---|---|---|--------|------|
|      | Preparation                                 | <b>1) Download traces.zip (if necessary) and unzip into a local directory \${local}</b><br><b>2) Import kernel trace \${local}/traces/import/kernel-overlap-testing</b><br><b>3) Import UST \${local}/traces/import/trace ust-overlap-testing</b><br><b>4) Create experiment with trace of 2) in it</b> |   |        |      |
| 10.1 | Open multiple traces (no overlap)           | Open multiple traces that don't overlap in time   | View shows the last opened trace  | Manual | Pass |
| 10.2 | Change selected time and range (no overlap) | Select a time and new range   | Selection Start/End, Window Span and both histograms are updated to selected time and new range.  | Manual | Pass |
| 10.3 | Open multiple traces (overlap)              | - Open multiple traces that overlap in time<br>- For both traces, in Events table right mouse-click -> Follow time updates from other traces  | View shows the last opened trace  | Manual | Pass |
| 10.4 | Change selected time and range (overlap)    | Select a time and new range   | Selection Start/End, Window Span and both histograms are updated to selected time and new range.  | Manual | Pass |
| 10.5 | Select other trace (overlap)                | Select different trace by clicking its editor tab   | View is updated to show selected trace. Selection Start/End, Window Span and both histograms are set to the newly selected time and range.                        | Manual | Pass |
| 10.6 | Trace coloring                              | With an experiment containing multiple traces opened, click the "Activate trace coloring" toolbar icon. Click it again.   | The colors in both Histograms and toggled on and off. When it is toggled off, the legend disappears at the bottom and only one color is used for non-lost events. | Manual | Pass |
| 10.7 | Close all traces                            | Close all trace editor tabs   | View is cleared.  | Manual | Pass |

| Section                     | Pass                                  | Fail   | Type  | To Do  | Comment |         |
|-----------------------------|---------------------------------------|--|---|--------|---------|---------|
| TMF - BookmarksView         | 17                                    | 0  | 2   | 0      | 0       |         |
| Target: Ubuntu 14.10 64 bit |                                       |  |   |        |         |         |
| Step                        | Test Case                             | Action   | Verification  | Type   | Pass    | Comment |
| <b>1</b>                    | <b>Preparation</b>                    |  |   |        |         |         |
| 1.1                         | Preparation step 1                    | Open and reset LTTng Kernel perspective  | LTTng Kernel perspective opens with correct views.  | SWTBot | Pass    |         |
| <b>2</b>                    | <b>Trace bookmarks</b>                |  |   |        |         |         |
| 2.1                         | Show Bookmarks View                   | Select Bookmarks view (bottom folder)  | Bookmarks view is shown   | Manual | Pass    |         |
| 2.2                         | Open trace                            | Open an LTTng CTF Kernel trace   | Views are populated. Verify that a Kernel events editor is opened showing LTTng Kernel specific columns   | SWTBot | Pass    |         |
| 2.3                         | Add Trace Bookmark                    | Add a bookmark, by<br>a) double-clicking on the left margin next to an event<br>b) right-clicking the margin and select Add bookmark...<br>c) using the Edit > Add bookmark... menu.<br>Enter the bookmark description in dialog box | Make sure that bookmark icon is shown on left site of the event row and is added to the Bookmarks view with relevant information (i.e. Description entered and correct trace resource)      | Manual | Pass    |         |
| 2.4                         | Open Trace Bookmark (1)               | Scroll within event table so that bookmark is not visible anymore and then double-click on bookmark in Bookmarks View  | Make sure that event with bookmark is selected and visible in event table   | Manual | Pass    |         |
| 2.5                         | Open Trace Bookmark (2)               | Open another trace #2 and then double-click on bookmark in Bookmarks view  | Make sure that correct trace #1 is brought to top and correct event with bookmark is selected in events table   | Manual | Pass    |         |
| 2.6                         | Open Trace Bookmark (3)               | Close the trace #1 and then double-click on bookmark in Bookmarks view   | Make sure that correct trace #1 is opened and correct event with bookmark is selected in events table   | Manual | Pass    |         |
| 2.7                         | Delete Bookmark (from table)          | Select bookmarks icon in event table right-click on icon and select "Remove Bookmark"  | Make sure that bookmark icon is removed from event table and corresponding bookmark is removed from the Bookmarks view  | Manual | Pass    |         |
| 2.8                         | Delete Bookmark (from table)          | Double-clicking bookmarks icon in event table.   | Make sure that bookmark icon is removed from event table and corresponding bookmark is removed from the Bookmarks view  | Manual | Pass    |         |
| 2.9                         | Delete Bookmark (from Bookmarks view) | Add a bookmark (see 2.4), then select bookmark in Bookmarks view, right mouse click and select "Delete". Confirm the deletion.   | Make sure that bookmark icon is removed from event table and corresponding Bookmark is removed from the Bookmarks view  | Manual | Pass    |         |
| <b>3</b>                    | <b>Experiment bookmarks</b>           |  |   |        |         |         |
| 3.1                         | Create and open experiment            | Create Experiment with 2 LTTng CTF Kernel traces in it and open experiment   | Verify that an Events editor is opened showing LTTng Kernel specific columns  | Manual | Pass    |         |
| 3.2                         | Add Experiment Bookmark               | Add a bookmark, by<br>a) double-clicking on the left margin next to an event<br>b) right-clicking the margin and select Add bookmark...<br>c) using the Edit > Add bookmark... menu.<br>Enter the bookmark description in dialog box | Make sure that bookmark icon is shown on left site of the event row and is added to the Bookmarks view with relevant information (i.e. Description entered and correct experiment resource) | Manual | Pass    |         |
| 3.3                         | Open Experiment Bookmark (1)          | Scroll within event table so that bookmark is not visible anymore and then double-click on bookmark in Bookmarks View  | Make sure that event with bookmark is selected and visible in event table   | Manual | Pass    |         |
| 3.4                         | Open Experiment Bookmark (2)          | Open another trace #2 and then double-click on bookmark in Bookmarks view  | Make sure that correct experiment #1 is brought to top and correct event with bookmark is selected in events table  | Manual | Pass    |         |
| 3.5                         | Open Experiment Bookmark (3)          | Close the experiment #1 and then double-click on bookmark in Bookmarks view  | Make sure that correct experiment #1 is opened and correct event with bookmark is selected in events table  | Manual | Pass    |         |

|     |                                       |  |  |        |      |  |
|-----|---------------------------------------|--|--|--------|------|--|
| 3.6 | Delete Bookmark (from table)          | Select bookmarks icon in Events view, right-click on icon and select "Remove Bookmark"   | Make sure that bookmark icon is removed from event table and corresponding bookmark is removed from the Bookmarks view | Manual | Pass |  |
| 3.7 | Delete Bookmark (from Bookmarks view) | Add a bookmark (see 6.4), then select bookmark in Bookmarks view, right mouse click and select "Delete". Confirm the deletion. | Make sure that bookmark icon is removed from event table and corresponding Bookmark is removed from the Bookmarks view | Manual | Pass |  |

| Section                            | Pass  | Fail   | To Do        | Comment     |
|------------------------------------|---|--|--------------|-------------|
| <b>TMF - Filters View</b>          | <b>12</b>   | <b>0</b>   | <b>12</b>    | <b>0</b>    |
| <b>Target:</b> Ubuntu 14.10 64 bit |   |  |              | <b>1</b>    |
| Step                               | Test Case   | Action   | Verification | Comment     |
| 1                                  | Open a trace to be filtered                         | Trace is opened  | SWTBot       | SWTBot Pass |
| 2                                  | Open filter view                                    | Filter view is opened  | SWTBot       | SWTBot Pass |
| 3                                  | Create a filter on event type and timestamp         | The filterview contains a filter on the event type and the timestamp | SWTBot       | SWTBot Pass |
| 3.1                                | Apply that filter                                   | A subset of the events pass  | SWTBot       | SWTBot Pass |
| 4                                  | Create a filter on the timestamp oring field values | Create the filter  | SWTBot       | SWTBot Pass |
| 4.1                                | Apply that filter                                   | A subset of the events pass  | SWTBot       | SWTBot Pass |
| 5                                  | Create a filter with equals node                    | Create the filter  | SWTBot       | SWTBot Pass |
| 5.1                                | Apply that filter                                   | A subset of the events pass  | SWTBot       | SWTBot Pass |
| 6                                  | Create a filter with matches node                   | Create the filter  | SWTBot       | SWTBot Pass |
| 6.1                                | Apply that filter                                   | A subset of the events pass  | SWTBot       | SWTBot Pass |
| 7                                  | Create a filter with contains node                  | Create the filter  | SWTBot       | SWTBot Pass |
| 7.1                                | Apply that filter                                   | A subset of the events pass  | SWTBot       | SWTBot Pass |

| Section                  |                             | Pass  | Fail         | To Do  | Comment |
|--------------------------|-----------------------------|---|--------------|--------|---------|
| <b>TMF - Colors View</b> |                             | 6   | 0            | 6      | 0       |
| <b>Target:</b>           | Ubuntu 14.10 64 bit         |   |              |        |         |
| Step                     | Test Case                   | Action  | Verification |        | Comment |
| 1                        | Open a test trace           | a trace is visible in the events editor   | SWTBot       | SWTBot | Pass    |
| 2                        | Open the colors view        | the view is visible   | SWTBot       | SWTBot | Pass    |
| 3                        | Select a color and a filter | Select a color and a filter, the matching events should update their colors (background and foreground) to the new ones | SWTBot       | SWTBot | Pass    |
| 4                        | Add multiple colors         | Click on add 4 times, four colors should be displayed   | SWTBot       | SWTBot | Pass    |
| 5                        | Change the color priorities | By clicking on up and down, the order of the displayed colors should change   | SWTBot       | SWTBot | Pass    |
| 6                        | Delete all the colors       | The color filters should disappear.   | SWTBot       | SWTBot | Pass    |

| Section                       | Pass  | Fail  | To Do   | Comment   |  |
|-------------------------------|---|---|---|-----------|--|
| <b>TMF - Sequence Diagram</b> | <b>37</b>   | <b>0</b>  | <b>2</b>  | <b>13</b> |  |
| <b>Target:</b>                | Ubuntu 14.04 64 bit                                   |   |   |           |  |
| Step                          | Test Case   | Action  | Verification  | Type      | Comment  |
| <b>1 Preparation</b>          |   |   |   |           |  |
|                               |   | <b>1) Download traces.zip (if necessary) and unzip into a local directory \$(local)</b><br><b>2) Use traces simple-server-thread1 and simple-server-thread2 under traces/import/ for test cases below</b>           |   |           | Note: UI tests are not SWTBot, but JUnit tests. Tests are triggered programmatically right below the dialogs level   |
| 1.1                           | Open perspective                                      | Open and reset LTTng Kernel perspective   | LTTng Kernel perspective opens with correct views: Project Explorer, Control, Control Flow, Resources, Statistics, Histogram, Properties, Bookmarks   | SWTBot    | Pass   |
| 1.2                           | Open TMF Sequence Diagram View                        | Use menu Window → Show View → Other ... → Tracing → Sequence Diagram  | Verify that 'Sequence Diagram' view is shown  | SWTBot    | Pass   |
| 1.3                           | Create and open experiment with sequence diagram data | 1) Create Tracing Project<br>2) Create Experiment (SeqExp)<br>3) Import 2 traces simple-server-thread1 and simple-server-thread2<br>4) Add these 2 traces to experiment<br>6) Open (double-click on) the experiment | Verify that sequence diagram was loaded. The interaction show the signal numbers (Note that trace doesn't contain strings for the interactions. A special parser would be necessary to map signal number to trace)  | Manual    | Pass   |
| <b>2 Manage View</b>          |   |   |   |           |  |
| 2.1                           | Close view  | Close Sequence Diagram view   | Sequence Diagram View is removed from perspective   | Manual    | Pass   |
| 2.2                           | Open view when experiment/traces is already loaded    | 1) Close 'Sequence Diagram' View<br>2) load sequence diagram experiment<br>3) Open Sequence Diagram view  | Verify that sequence diagram was loaded. Verify that all 17 pages are loaded.   | Manual    | Pass<br>difficult to get the numb of pages   |
| <b>3 Tooltip</b>              |   |   |   |           |  |
| 3.1                           | Hover over interaction                                | 1) Goto to first page (no selection of any interaction or lifeline) 2) Hover over first interaction (arrow or number)   | Verify that tooltip appears with content with interaction name and time stamp (10000 14:58:00.740995147)  | Manual    | Pass<br>Tooltip background is very dark and text is hard to read on Ubuntu 13.10, 14.10 with default theme <a href="https://bugs.eclipse.org/bugs/show_bug.cgi?id=455523">https://bugs.eclipse.org/bugs/show_bug.cgi?id=455523</a> . The value is not the same |
| 3.2                           | Hover over interaction after selection                | 1) Goto to first page<br>2) select first interaction<br>3) Hover over 3rd interaction   | Verify that tooltip appears with content with interaction names and time stamp delta between selected interaction and interaction that was hovered over (10001 → 10000 delta: 000.000 157 023)  | Manual    | Pass   |
| 3.3                           | Hover over time compression bar                       | Hover over first element in time compression bar on the left of the view  | Verify that tooltip appears with delta and graph to show where delta is in relation to current configured min max values. (delta: 000.000 3 480)  | Manual    | Pass   |
| <b>4 View Synchronization</b> |   |   |   |           |  |
| 4.1                           | Selection of interaction                              | Select an interaction in the 'Sequence Diagram'   | Verify that interaction is highlighted in 'Sequence Diagram' view. Verify that in the events table the corresponding event is selected. Verify that time stamps matches   | Manual    | Pass   |
| 4.2                           | Selection of event in events table                    | Select an sequence diagram event in the events table (type SEND or RECEIVE)   | Verify that corresponding interaction is selected in the 'Sequence Diagram' view  | Manual    | Pass<br>sequence diagram interaction is seleted but it is not very clear   |
| 4.3                           | Selection of new time range                           | Change time range in 'Histogram View'.  | Verify that the content of the 'Sequence diagram' changes and the interactions are part of the new window range   | Manual    | Pass<br>It's a bit unclear to me what this is supposed to do. I think it means when the start of the range changes, it should update the events shown in the sequence diagram<br>Bernd: I updated the description to clarify for the next release.             |
| <b>5 View Actions</b>         |   |   |   |           |  |
| 5.1                           | Test page navigation                                  | Use buttons and menu items 'Go to next page', 'Go to previous page', 'Go to last page' and 'Go to first page' to navigate through trace. Use also menu item 'Pages...' to jump to specific page                     | Verify that different time ranges are selected when changing page by looking at Histogram View. Histogram View window will show the start of the page. Note that there are 10000 interactions per page. In this traces there are in total 160032 interactions. Verify that last page has 32 interactions between 2 lifelines. | Manual    | Pass   |

|      |                             |  |   |        |      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|------|-----------------------------|--|---|--------|------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| 5.2  | Test menu item 'Pages...'   | 1) Select menu item 'Pages...'<br>2) In text box type "9"<br>3) Click on 'OK'  | Verify that a dialog box will show. Verify that for this trace it shows "Total: 17 pages is shown" and the current page is displayed in the text box. After step 3) verify that page where changed to page 9. For this trace page 9 is the page with 3 lifelines.                                       | Manual | Pass |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 5.3  | Find of interaction         | Goto to page 1 →<br>1) Use button and menu item "Find"<br>2) select Interactions and deselect lifeline<br>3) type regular expression 10.*00<br>4) press find<br>5) press find<br>6) press find<br>7) press find<br>8) press find | After 4) verify that interaction 10000 (player1 → master) is selected. After 5) verify that interaction 10100 (master → player1) is selected. After 6) verify that 10000 (player2 → master) is selected. After 7) verify that interaction 10100 (master → player2). After 8) nothing else will be found | Manual | Pass | It should have a string status in the search that specify that the nothing was found. In the test 34, if the user search for "10.*03" the find dialog will show "String not found". It should be shown for this test too.  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 5.4  | Find of lifeline            | Goto to page 1 →<br>1) Use button and menu item "Find"<br>2) select lifeline and deselect interaction<br>3) type player2<br>4) press find<br>5) press find   | After 4) verify that lifeline with name player2 is selected (page 9 with 3 lifelines). After 5) player2 is selected on page 10  | Manual | Pass | It reaches the right pages but the selection does not highlight anything when the find box is still opened. It only highlight the lifeline when we close the find dialog.<br>Bern: It supposed to highlight the lifeline on the correct page. So, test is successful. JC: The selection highlight the lifeline but it is difficult to see. |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 5.5  | Find criteria persistence   | 1) Restart eclipse<br>2) open find dialog  | Verify that previous used find criteria are still in the list   | Manual | Pass |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 5.6  | Find short-cut              | 1) Select 'Sequence Diagram' view<br>2) pres CTRL+F  | Verify that find dialog opens   | Manual | Pass |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 5.7  | Filter of interactions      | Goto to page 1 →<br>1) Use menu item 'Hide Patterns...'<br>2) Press Add<br>3.1) select Interactions and deselect Lifeline<br>3.2) type regular expression 10.*03<br>4) Press 'Create'<br>5) Press 'Ok'                           | After 5) verify that Interactions with name 10003 and 10103 are not shown   | Manual | Pass |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 5.8  | Filter of lifelines         | Goto to page 9 →<br>1) Use menu item 'Hide Patterns...'<br>2) Press Add<br>3.1) select Lifelines and deselect Interactions<br>3.2) type regular player2<br>4) Press 'Create'<br>5) Press 'Ok'                                    | After 5) verify that player2 is not shown   | Manual | Pass |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 5.9  | Deselect filter             | 1) Apply one filter<br>2) Use menu item 'Hide Patterns...'<br>3) deselect filter<br>4) click 'Ok'  | Verify that all lifelines and interactions are shown  | Manual | Pass |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 5.10 | Filter criteria persistence | 1) Restart eclipse<br>2) open hide dialog  | Verify that previous used hide criteria are still in the list   | Manual | Pass |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 5.11 | Zoom-in                     | 1) Use button and menu item for zoom-in to activate zooming in<br>2) click into sequence diagram view  | Verify that 'Sequence Diagram' view zooms in. Note that no selection is possible.   | Manual | Pass |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 5.12 | Selection after zooming     | 1) Click on button and menu item 'Select' to go back to selection mode<br>2) select an interaction   | Verify that selection is possible.  | Manual | Pass |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 5.13 | Zoom-out                    | 1) Use button and menu item for zoom-out to activate zooming out<br>2) click into sequence diagram view  | Verify that 'Sequence Diagram' view zoom out. Note that no selection is possible.   | Manual | Pass |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 5.14 | Reset zoom                  | 1) Use button and menu item for 'Reset zoom factor' to reset the zoom level  | Verify that 'Sequence Diagram' view goes back to default zoom   | Manual | Pass |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 5.15 | Configure min/max           | 1) Select menu item 'Configure Min Max'<br>2) Change min to 100 and max to 2000 (keep scale and precision)<br>3) press 'Ok'  | After 1) verify that a dialog box shows with default values. After 3) verify that time compression bar changes some colors. It will show more deeper red because the max value is lower.  | Manual | Pass |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 5.16 | Configure min/max (default) | After changing min and max<br>1) select menu 'Configure Min Max'<br>2) press 'Default' 3) press 'Ok'   | After step 2) the default values are shown. After step 3) the time compression bar will change colors. Note that the default values are computed based on all deltas of 2 consecutive interactions.   | Manual | Pass |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 5.17 | Show node end               | Goto to page 1 →<br>1) Resize view so that the arrow of the interaction is not shown<br>2) select on interaction<br>3) Use menu item Navigation → Show node end  | Verify that end lifeline of the interaction (the arrow) is shown  | Manual | Pass |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

|      |  |   |   |        |      |  |  |  |  |  |  |  |   |
|------|--|---|---|--------|------|--|--|--|--|--|--|--|---|
| 5.18 | Show node start                              | Goto to page 1 →<br>1) Resize view so that the beginning of the interactions are not shown<br>2) select on interaction<br>3) Use menu item Navigation → Show node start   | Verify that start lifeline of the interaction is shown                            | Manual | Pass |  |  |  |  |  |  |  |   |
| 5.19 | Show node end short-cut                      | Goto to page 1 →<br>1) Resize view so that the arrow of the interaction is not shown<br>2) select on interaction<br>3) Press SHIFT+ALT+END  | Verify that end lifeline of the interaction (the arrow) is shown                  | Manual | Pass | The shortcut is not working when the mouse is hovering the interaction   |  |  |  |  |  |  |   |
| 5.20 | Show node start short-cut                    | Goto to page 1 →<br>1) Resize view so that the arrow of the interaction is not shown<br>2) select on interaction<br>3) Press SHIFT+ALT+HOME   | Verify that start lifeline of the interaction is shown                            | Manual | Pass | The shortcut is not working when the mouse is hovering the interaction   |  |  |  |  |  |  |   |
| 5.21 | Scroll down short cut                        | Press SHIFT+ALT+ARROW_DOWN  | Verify that within a page the display scrolls down per view size                  | Manual | Pass |  |  |  |  |  |  |  |   |
| 5.22 | Scroll up short cut                          | Press SHIFT+ALT+ARROW_UP  | Verify that within a page the display scrolls up per view size                    | Manual | Pass | <b>Key combination on Ubuntu 12.04 is used for something else. This can be disabled using the combiz-settings-manager (<a href="http://askubuntu.com/questions/171489/how-to-unbind-shift-alt-up-shortkey-in-12-04">http://askubuntu.com/questions/171489/how-to-unbind-shift-alt-up-shortkey-in-12-04</a>) After disabling this combination this test case passes</b><br><b>On Ubuntu 14.04, 14.10, this is not an issue, by default the keys are not mapped.</b> |  |  |  |  |  |  |   |
| 5.23 | Overview feature                             | Goto page 9 → Keep pressing + icon at the lowest right corner of the view and drag down, up, left or right  | Verify that it's possible to navigate through a page of the sequence diagram view | Manual | Pass | On Ubuntu, the movement is hectic and the overview box is very narrow.<br><br>On Mac OS X 10.8, the button is not visible but there is a visible empty space that is clickable in its place. Clicking on it brings up the overview box which has a reasonable size but movement is still hectic.   |  |  |  |  |  |  |   |
| 5.24 | Print  | Select 'Sequence Diagram' view and press printer icon in the Eclipse's tool bar (or use CTRL+P). Select one pager page to print   | Verify that it is possible to print   | Manual | Pass | The dialog is confusing on Ubuntu. The "from pages" option do not update directly the values you enter   |  |  |  |  |  |  |   |
| 5.25 | Remove filter (Bug 391714)                   | 1) Create Ifilter if necessary (see 5.8)<br>2) Open Error Log view if necessary<br>3) Open filter dialog box and remove all filters<br>4) Press 'Ok'<br>5) Open filter dialog box again   | Verify that no exceptions occurred and after 5) no filter are listed              | Manual | pass | Works on windows (including CTRL+P)  |  |  |  |  |  |  | Pass on 16.04 and 16.10... could it be cups giving you a hard time? |
| 5.27 | Time Sync. without interactions (Bug 391716) | 1) Open trace without any sequence diagram information<br>2) Open SD view if necessary<br>3) Open Error Log view if necessary<br>4) change time range in Histogram view<br>5) Change time current selected time in Histogram View | Make sure that no exceptions occurred   | Manual | Pass |  |  |  |  |  |  |  |   |



| Section                               | Pass                     | Fail  | Type   | To Do  | Comment |         |
|---------------------------------------|--------------------------|---|--|--------|---------|---------|
| TMF - EventsEditor                    | 25                       | 0   | 10   | 0      | 3       |         |
| Target:                               |                          |   |  |        |         |         |
| Step                                  | Test Case                | Action  | Verification   | Type   | To Do   | Comment |
| <b>1 Preparation</b>                  |                          |   |  |        |         |         |
| 1.1                                   | Preparation step 1       | Open and reset LTTng Kernel perspective   | LTTng Kernel perspective opens with correct views.   | SWTBot | Pass    |         |
| <b>2 Trace bookmarks</b>              |                          |   |  |        |         |         |
| <b>Moved to sheet "BookmarksView"</b> |                          |   |  |        |         |         |
| <b>3 Experiment bookmarks</b>         |                          |   |  |        |         |         |
| <b>Moved to sheet "BookmarksView"</b> |                          |   |  |        |         |         |
| <b>4 Filter</b>                       |                          |   |  |        |         |         |
| 4.1                                   | Filter                   | In the header row, enter some regex and press Ctrl+Enter  | Only events matching regex are displayed. Top and bottom filter status rows update while filtering is ongoing. When filtering is done, status rows show number of matching events. | SWTBot | Pass    |         |
| 4.2                                   | Cancel filter            | In the header row, enter some regex and press Ctrl+Enter, then quickly press ESC before filtering is done | Only some events matching regex are displayed. Status rows show partial number of matching events, with different 'stop' icon.   | Manual | Pass    |         |
| 4.3                                   | Un-filter                | In the header bar, click the icon to delete a filter  | All events are displayed. Selected event remains selected and visible. Status rows are removed.  | SWTBot | Pass    |         |
| 4.4                                   | Filter & Search          | In the filter bar, enter some regex; likewise in the search bar   | Events are filtered and highlighted accordingly  | SWTBot | Pass    |         |
| 4.5                                   | Search & Filter          | In the search bar, enter some regex; likewise in the filter bar   | Events are filtered and highlighted accordingly  | SWTBot | Pass    |         |
| <b>5 Time Synchronization</b>         |                          |   |  |        |         |         |
| 5.1                                   | Mouse synchronization    | Select any event in the table with the mouse button   | Other views are synchronized to the selected event's time  | Manual | Pass    |         |
| 5.2                                   | Key synchronization      | Select any event in the table using Up, Down, PageUp, PageDown, Home, End                                 | Other views are synchronized to the selected event's time  | Manual | Pass    |         |
| 5.3                                   | Search synchronization   | In the search bar, enter some regex, then search again with Enter/Shift-Enter                             | Other views are synchronized to the selected event's time  | Manual | Pass    |         |
| 5.4                                   | External synchronization | In any other view that supports time synchronization, select a time.                                      | The first event at or following the selected time is selected and visible.   | Manual | Pass    |         |
| 5.5                                   | Range selection          | Select an event with left button, press shift key and click select another event                          | Range of events are highlighted. Selection range is updated in other views that support range selection  | Manual | Pass    |         |
| <b>6 Event Synchronization</b>        |                          |   |  |        |         |         |
| 6.1                                   | Open trace               | Open an LTTng CTF Kernel trace  | Verify that an editor is opened showing LTTng Kernel specific columns. Views are updated with the new trace.   | SWTBot | Pass    |         |
| 6.2                                   | Mouse synchronization    | Select any event in the table with the mouse button   | The Properties view is updated with the selected event's Property and Value. Timestamp and Content are expandable.   | Manual | Pass    |         |
| 6.3                                   | Key synchronization      | Select any event in the table using Up, Down, PageUp, PageDown, Home, End                                 | The Properties view is updated with the selected event's Property and Value. Timestamp and Content are expandable.   | Manual | Pass    |         |

|  |                                 |  |   |        |      |  |
|--|---------------------------------|--|---|--------|------|--|
| 6.4                                    | Search synchronization          | In the search bar, enter some regex, then search again with Enter/Shift-Enter  | The Properties view is updated with the selected event's Property and Value. Timestamp and Content are expandable.  | Manual | Pass |  |
| 6.5                                    | External synchronization        | In any other view that supports time synchronization, select a time. The selected event in the editor is updated. Then give focus back to the editor.  | The Properties view is updated with the selected event's Property and Value. Timestamp and Content are expandable.  | Manual | Pass |  |
| <b>7 Source Code / Model Lookup</b>    |                                 |  |   |        |      |  |
| 7.1                                    | Preparation                     | <b>1) Download traces.zip (if necessary) and unzip into a local directory \${local}</b><br><b>2) Unzip traces/c_project_callsite.zip and traces/callsite.zip to your local disk.</b><br><b>3) Import demo C project to the Eclipse workspace of zip file c_project_callsite.zip</b><br><b>4) Import the test trace of zip file callsite.zip to a tracing project.</b><br><br><b>Select trace type "Generic CTF Trace" and open the trace</b> |   |        |      |  |
| 7.2                                    | Open call site                  | 1) select event in table<br>2) click right mouse button<br>3) select "Open Source Code" menu item  | Verify that correct source code file and line number is opened  | Manual | Pass |  |
| 7.3                                    | Open call site (no source code) | 1) Close source code project<br>2) select event in table<br>3) click right mouse button<br>4) select "Open Source Code" menu item  | Since the source code is not available the no source code file is opened. Instead a error dialog is opened (with title "FileNotFoundException")   | Manual | Pass |  |
| 7.4                                    | Open model URI                  | 1) select event in table (e.g. 1st event)<br>2) click right mouse button<br>3) select "Open Model Element" menu item   | Since the model is not available the model element is not shown. Instead a error dialog is opened (with title "FileNotFoundException")  | Manual | Pass |  |
| <b>8 Export to text</b>                |                                 |  |   |        |      |  |
| 8.1                                    | Export CTF trace                | 1) Open a CTF trace (e.g. LTTng Kernel)<br>2) Click right mouse button<br>3) Select "Export To Text" menu item<br>4) Enter a file name and location<br>5) Press OK   | Make sure that a progress monitor dialog is opened during the export. After finishing make sure that the text file exists and it contains the events stored in the file. Verify that the columns are printed as shown in the events table and that they are separated by tab character. | Manual | Pass | no progress monitor dialog, only a job |
| 8.2                                    | Export Other Trace              | 1) Open a trace other than CTF trace<br>2) Click right mouse button<br>3) Select "Export To Text" menu item<br>4) Enter a file name and location<br>5) Press OK  | Make sure that a progress monitor dialog is opened during the export. After finishing make sure that the text file exists and it contains the events stored in the file. Verify that the columns are printed as shown in the events table and that they are separated by tab character. | Manual | Pass | Used text trace                        |
| 8.3                                    | Copy to clipboard               | 1) Open a CTF trace (e.g. LTTng Kernel)<br>2) Click right mouse button<br>3) Select "Copy to Clipboard" menu item<br>4) Paste it in a text file  | Verify that the columns are printed as shown in the events table and that they are separated by tab character.  | SWTBot | Pass |  |
| <b>9 Swap Columns and Change Fonts</b> |                                 |  |   |        |      |  |

|     |                              |  |                         |        |      |
|-----|------------------------------|--|-------------------------|--------|------|
| 9.1 | Swap columns in events table | 1) Open a trace<br>2) Drag a column  | Covered by SWTBot tests | SWTBot | Pass |
| 8.2 | Change fonts                 | 1) Open the preferences<br>2) select new font for trace types<br>3) press apply<br>4) verify that the font changed | Covered by SWTBot tests | SWTBot | Pass |
| 8.3 | Reset fonts                  | 1) Open the preferences<br>2) Reset the font settings<br>3) Press apply<br>4) verify that the font changed         | Covered by SWTBot tests | SWTBot | Pass |

| Section                                 | To Do   | Fail  | To Do  | Comment  |   |
|---|---|---|--|----------|---|
| <b>TMF - Statistics View</b>            | <b>18</b>   | <b>0</b>  | <b>6</b>   | <b>0</b> |   |
| <b>Target:</b> Ubuntu 14.04 64 bit      |   |   |  | <b>2</b> |   |
| Step                                    | Test Case   | Action  | Verification   | Type     | Comment   |
| <b>1 Preparation</b>                    |   |   |  |          |   |
|   | Preparation                                       | <b>Download traces simple-server-thread1 and simple-server-thread1 from traces/import/</b>  |  |          |   |
| 1.1                                     | Open Perspective                                  | Open and reset LTTng Kernel perspective   | LTTng Kernel perspective opens with correct views  | SWTBot   | Pass  |
| 1.2                                     | Open TMF Statistics View                          | Use menu Window → Show View → Other ... → Tracing → Statistics  | Verify that 'Statistics' view is shown   | SWTBot   | Pass<br>Path is actually Window -> Show view -> Tracing -> Statistics |
| 1.3                                     | Open experiment                                   | 1) Create Tracing Project<br>2) Create Experiment (SeqExp)<br>3) Import 2 traces simple-server-thread1 and simple-server-thread2<br>4) Select trace type "Generic CTF Trace"<br>5) Add these 2 traces to experiment   | Verify that statistics are shown per trace and per event type. Each trace has 80021 events. Verify that event types ENTER/RETURN/SEND/RECEIVE/INFO/after_fork_child are counted. | RCPTT    | Pass  |
| <b>2 Manage View</b>                    |   |   |  |          |   |
| 2.1                                     | Delete view                                       | Close the 'Statistics' View   | Statistics' view is removed from perspective   | RCPTT    | Pass  |
| 2.2                                     | Open view   | Use menu Window → Show View → Tracing → Statistics  | Statistics' view View is displayed and re-populated  | RCPTT    | Pass  |
| 2.3                                     | Open view when experiment/trace is already loaded | 1) Close 'Statistics View' 2) load trace above trace 3) Open 'Statistics' view  | Verify that statistics are shown per trace and per event type. Each trace has 80021 events. Verify that event types ENTER/RETURN/SEND/RECEIVE/INFO/after_fork_child are counted  | RCPTT    | Pass  |
| <b>3 Other</b>                          |   |   |  |          |   |
| 3.1                                     | Build of statistic index                          | Open trace  | Verify that 'Statistics' view is populated gradually during indexation   | Manual   | Pass  |
| 3.2                                     | Persistence of statistics                         | Open same trace multiple times after indexing of trace was finished the first time  | Verify that when opening the trace the x-times (x > 1), that the statistics appear right away without parsing the trace again  | Manual   | Pass  |
| <b>4 Range Synchronization</b>          |   |   |  |          |   |
| 4.1                                     | External synchronization (full)                   | In any other view that supports range synchronization, select the full range of the trace.  | Events in 'Events in selection' is updated and equals 'Events total' values  | Manual   | Pass  |
| 4.2                                     | External synchronization (range)                  | In any other view that supports range synchronization, select a new range.  | Events in 'Events in selection' is updated according to new range  | Manual   | Pass  |
| <b>5 Multiple Trace Synchronization</b> |   |   |  |          |   |
|   | Preparation                                       | <b>1) Download traces.zip (if necessary) and unzip into a local directory \${local}</b><br><b>2) Import kernel trace \${local}/traces/import/kernel-overlap-testing</b><br><b>3) Import UST \${local}/traces/import/trace ust-overlap-testing</b><br><b>4) Create experiment with trace of 2) in it</b> |  | Manual   | Pass  |
| 5.1                                     | Open multiple traces (no overlap)                 | Open multiple traces that don't overlap in time   | View shows the last opened trace   | Manual   | Pass  |

|     |   |   |   |        |      |  |
|-----|---|---|---|--------|------|--|
| 5.2 | Change selected time and range (no overlap) | In any other view that supports range synchronization, select a new range | Events in 'Events in selection' is updated according to new range   | Manual | Pass | Patrick: The pie chart doesn't know from which trace the event comes from. Maybe we could skip events in the tree that have zero count though? |
| 5.3 | Select other trace (no overlap)             | Select different trace by clicking its Events editor tab                  | View is updated to show selected trace. 'Events in selection' is updated according to the selected trace's previously selected range. | Manual | Pass |  |
| 5.4 | Open multiple traces (overlap)              | Open multiple traces that overlap in time                                 | View shows the last opened trace  | Manual | Pass |  |
| 5.5 | Change selected time and range (overlap)    | In any other view that supports range synchronization, select a new range | Events in selection' is updated according to new range  | Manual | Pass |  |
| 5.6 | Select other trace (overlap)                | Select different trace by clicking its Events editor tab                  | View is updated to show selected trace. 'Events in selection' is updated according to the newly selected time and range.              | Manual | Pass |  |
| 5.7 | Close all traces                            | Close all Events editor tabs  | View is cleared.  | Manual | Pass |  |

| Section                             | Pass                                   | Fail   | Type  | To Do  | Comment |
|-------------------------------------|--|--|---|--------|---------|
| TMF - Time Chart View               | 26                                     | 0  | 1   | 0      | 0       |
| Target: Ubuntu 14.04 64 bit         |  |  |   |        |         |
| Step                                | Test Case                              | Action   | Verification  | Type   | Comment |
| <b>1 Preparation</b>                |  |  |   |        |         |
| 1.1                                 | Preparation step 1                     | Open and reset LTTng Kernel perspective  | LTTng Kernel perspective opens with correct views.  | SWTBot | Pass    |
| 1.2                                 | Preparation step 2                     | Show Time Chart View   | Time Chart view is shown  | Manual | Pass    |
| <b>2 Trace handling</b>             |  |  |   |        |         |
| 2.1                                 | Open trace                             | Open an LTTng CTF Kernel trace #1  | Trace #1 entry added to Time Chart view. Trace #1 is selected entry. Range of view is full trace range.                     | Manual | Pass    |
| 2.2                                 | Open other trace                       | Open an LTTng CTF Kernel trace #2  | Trace #2 entry added to Time Chart view. Trace #2 is selected entry. Range of view is union of full trace ranges.           | Manual | Pass    |
| 2.3                                 | Open experiment                        | Open an experiment   | Experiment entry added to Time Chart view. Experiment is selected entry. Range of view is union of full trace ranges.       | Manual | Pass    |
| 2.4                                 | Select other trace                     | Select trace #1 by clicking its trace entry in Time Chart view                       | Trace #1 is selected entry. View range does not change. Trace #1 editor tab is brought to top.                              | Manual | Pass    |
| 2.5                                 | Select other trace (external)          | Select trace #2 by clicking its editor tab   | Trace #2 is selected entry. View range does not change.   | Manual | Pass    |
| 2.6                                 | Close view                             | Close the Time Chart view  | Time Chart view is removed from perspective   | Manual | Pass    |
| 2.7                                 | Open view                              | Show Time Chart view   | Time Chart view is displayed and re-populated with opened traces data   | Manual | Pass    |
| 2.8                                 | Close trace/experiment                 | Close trace #2 editor tab. Repeat with experiment editor tab.                        | Trace entry is removed from Time Chart view. Range is view is union of remaining full trace ranges.                         | Manual | Pass    |
| 2.9                                 | Close last trace                       | Close trace #1 editor tab  | View is cleared.  | Manual | Pass    |
| <b>3 Time Synchronization</b>       |  |  |   |        |         |
| 3.1                                 | Mouse synchronization (single time)    | Left-click on the time chart. The selected time line is updated.                     | Other views are synchronized to the selected time. Event at or following the selected time is selected in the event table.  | Manual | Pass    |
| 3.2                                 | Mouse synchronization (time range)     | Shift-left-click or left-drag on the time chart. The selected time range is updated. | Other views are synchronized to the selected range. Event at or following the selected time is selected in the event table. | Manual | Pass    |
| 3.3                                 | External synchronization (single time) | In event table, select an event.   | Selected time line is updated to the event time. If necessary, range is updated to show selected time.                      | Manual | Pass    |
| 3.4                                 | External synchronization (time range)  | In event table, select an event range with shift-left-click.                         | Selected time line is updated to the time range.  | Manual | Pass    |
| <b>4 Zoom Range Synchronization</b> |  |  |   |        |         |
| 4.1                                 | Mouse wheel synchronization            | Zoom in/out with mouse wheel while holding Ctrl.                                     | Other views are synchronized to the new range   | Manual | Pass    |
| 4.2                                 | Mouse drag zoom synchronization        | Drag zoom with right-button on time chart.   | Other views are synchronized to the new range   | Manual | Pass    |
| 4.3                                 | Mouse drag move synchronization        | Drag move with ctrl-left or middle button on time chart.                             | Other views are synchronized to the new range   | Manual | Pass    |
| 4.4                                 | Mouse full range synchronization       | Double-click with left button on time chart's time scale.                            | Other views are synchronized to the full range  | Manual | Pass    |

|                                      |                          |   |   |        |      |  |
|--------------------------------------|--------------------------|---|---|--------|------|--|
| 4.5                                  | External synchronization | In any other view that supports range synchronization, select a new zoom range. | View range is updated to the new range          | Manual | Pass |  |
| <b>5 Event Table Synchronization</b> |                          |   |   |        |      |  |
| 5.1                                  | Search synchronization   | Enter a search regex in event table   | Matching events are marked in time chart        | Manual | Pass |  |
| 5.2                                  | Search cleared           | Clear the search regex in event table   | Marks are removed in time chart                 | Manual | Pass |  |
| 5.3                                  | Filter synchronization   | Enter a filter regex in event table   | Non-matching events are removed from time chart | Manual | Pass |  |
| 5.4                                  | Filter cleared           | Clear the filter regex in event table   | All events are shown in time chart              | Manual | Pass |  |
| 5.5                                  | Bookmark synchronization | Add a bookmark in event table   | Bookmarked event is marked in time chart        | Manual | Pass |  |
| 5.6                                  | Bookmark cleared         | Remove the bookmark in event table  | Mark is removed in time chart                   | Manual | Pass |  |

| Section                           |                                       | Pass   | Fail  | Type   | To Do   | Comment |
|-----------------------------------|---------------------------------------|--|---|--------|---------|---------|
| TMF - Custom Parsers              |                                       | 28   | 0   | 12     | 0       | 2       |
| Target:                           | Linux 64                              |  |   |        |         |         |
| Step                              | Test Case                             | Action   | Verification  | Type   | Comment |         |
| <b>0 Prerequisites</b>            |                                       |  |   |        |         |         |
| 0.1                               | Get custom parser definition and logs | Find text and XML parser definitions in Traces.zip/traces/customParsers and logs in /import  |   |        |         |         |
| <b>1 View management</b>          |                                       |  |   |        |         |         |
| 1.1                               | Open perspective                      | Open and reset Tracing perspective, and open Time Chart view   | Time Chart view opens.  | SWTBot | Pass    |         |
| 1.2                               | Import custom parser definitions      | Create a tracing project, open Manage Custom Parsers dialog and import text and XML custom parser definitions  | Custom parsers imported (TmfGeneric, Custom XML Log)  | RCPTT  | Pass    |         |
| 1.3                               | Import custom traces                  | Create a tracing project and import a text and XML custom trace  | Traces imported in Traces folder of project (ExampleCustomTxt.log, ExampleCustomXml.xml) and have their trace type auto-selected. | RCPTT  | Pass    |         |
| <b>2 Custom parser management</b> |                                       |  |   |        |         |         |
| 2.1                               | Open Manage Custom Parsers dialog     | Open Manage Custom Parsers dialog in Traces folder context menu  | Dialog opens.   | SWTBot | Pass    |         |
| 2.2                               | New (text)                            | Select "Text" radio button, click New... button, enter Trace type, change stuff, click Next, click Finish  | Custom parser appears in list.  | SWTBot | Pass    |         |
| 2.3                               | Edit (text)                           | Select custom parser, click Edit..., change stuff, click Next, click Finish  | Previously entered data appears, can be edited.   | SWTBot | Pass    |         |
| 2.4                               | Export (text)                         | Select custom parser, click Export, enter name, click Save   | Exported custom parser stored in file system.   | RCPTT  | Pass    |         |
| 2.5                               | Delete (text)                         | Select custom parser, click Delete   | Custom parser is deleted.   | SWTBot | Pass    |         |
| 2.6                               | Import (text)                         | Click Import, find custom parser definition, click Open  | Imported custom parser appears in list.   | RCPTT  | Pass    |         |
| 2.7                               | New (XML)                             | Select "XML" radio button, click New... button, enter Log Type, write an xml log in the input, <code>&lt;a&gt;&lt;b&gt;&lt;c&gt;1&lt;/c&gt;&lt;d&gt;1&lt;/d&gt;&lt;/b&gt;&lt;b&gt;&lt;c&gt;2&lt;/c&gt;&lt;d&gt;1&lt;/d&gt;&lt;/b&gt;&lt;/a&gt;</code> then click on the "feeling lucky" button. Set b to log entry, set c to timestamp logged and d to message logged, set timestamp format to ss in both text boxes, click Next, click Finish | Custom parser appears in list.  | Manual | Pass    |         |
| 2.8                               | Edit (XML)                            | Select custom parser, click Edit..., change stuff, click Next, click Finish  | Previously entered data appears, can be edited.   | Manual | Pass    |         |



|                                       |  |  |  |        |      |  |
|---------------------------------------|--|--|--|--------|------|--|
| 2.9                                   | Export (XML)                           | Select custom parser, click Export, enter name, click Save   | Exported custom parser stored in file system.  | Manual | Pass |  |
| 2.10                                  | Delete (XML)                           | Select custom parser, click Delete   | Custom parser is deleted.  | SWTBot | Pass |  |
| 2.11                                  | Import (XML)                           | Click Import, find custom parser definition, click Open  | Imported custom parser appears in list.  | Manual | Pass |  |
| <b>3 Custom parser trace handling</b> |  |  |  |        |      |  |
| 3.1                                   | Select trace type (text)               | Select test file in Traces folder, right-click, select "Select Trace Type > Custom Text > (parser name)" | Trace type is assigned (re-open Select Trace Type sub-menu to verify)  | RCPTT  | Pass | Or select the trace and verify the trace type in the properties view |
| 3.2                                   | Open trace (text)                      | Double-click on test file in Traces folder   | Editor opens with events table, Time Chart view is populated.  | Manual | Pass |  |
| 3.3                                   | Raw view (text)                        | Right-click in editor, click Show Raw  | Editor is split with raw view on right pane.   | Manual | Pass |  |
| 3.4                                   | Time synchronization (text)            | Click in Time Chart view, select event in editor table, select event in raw view                         | All three widgets synchronize to selected time.  | Manual | Pass |  |
| 3.5                                   | Select trace type (XML)                | Select test file in Traces folder, right-click, select "Select Trace Type > Custom XML > (parser name)"  | Trace type is assigned (re-open Select Trace Type sub-menu to verify)  | RCPTT  | Pass |  |
| 3.6                                   | Open trace (XML)                       | Double-click on test file in Traces folder   | Editor opens with events table, Time Chart view is populated.  | Manual | Pass |  |
| 3.7                                   | Raw view (XML)                         | Right-click in editor, click Show Raw  | Editor is split with raw view on right pane.   | Manual | Pass |  |
| 3.8                                   | Time synchronization (XML)             | Click in Time Chart view, select event in editor table, select event in raw view                         | All three widgets synchronize to selected time.  | Manual | Pass |  |
| <b>4 Raw viewer</b>                   |  |  |  |        |      |  |
| 4.1                                   | Show Raw Viewer                        | 1) Open Custom text trace<br>2) Right-click in table and select "Show Raw"                               | Raw viewer is shown beside the events table  | Manual | Pass | should this be in events editor?                                     |
| 4.2                                   | Hide Table                             | Right-click in table and select "Hide Table"   | Events table is hidden and only raw viewer is shown  | Manual | Pass |  |
| 4.3                                   | Show Table                             | Right-click in raw viewer and select "Show Table"  | Events table is shown beside raw viewer  | Manual | Pass |  |
| 4.4                                   | Select Event (Bug 457852)              | Select event in raw viewer   | Correct event is select in table, timestamp is propagated to other TMF views and Properties view shows content of selected event | Manual | Pass |  |
| 4.5                                   | Select Event using arrow keys (457852) | 1) select event in raw viewer with mouse<br>2) use arrow key down and up several times                   | Correct event is select in table, timestamp is propagated to other TMF views and Properties view shows content of selected event | Manual | Pass |  |
| 4.6                                   | Hide Raw viewer                        | Right-click in table and select "Hide Raw"   | Raw viewer is hidden and only events table is shown  | Manual | Pass |  |

| Section                                   |  | Pass  | Fail  | Type   | To Do   | Comment  |
|---|--|---|---|--------|---------|--|
| TMF - State System Explorer               |  | 14  | 0   | 6      | 0       |  |
| Target:                                   | Ubuntu 14.04 64 bit  |   |   |        |         |  |
| Step                                      | Test Case  | Action  | Verification  | Type   | Comment | Test that will make this swtbot  |
| <b>1 Preparation</b>                      |  |   |   |        |         |  |
| 1.1                                       | Open TMF State System Explorer View                                      | Use menu Window → Show View → Tracing → State System Explorer   | Verify that 'State System Explorer' view is shown   | SWTBot | Pass    | 84711  |
| <b>2 Manage View</b>                      |  |   |   |        |         |  |
| 2.1                                       | Delete view  | Close the State System Explorer' View   | 'State System Explorer' view is removed from perspective  | SWTBot | Pass    | 84711  |
| 2.2                                       | Open view  | Use menu Window → Show View → Tracing → State System Explorer   | 'State System Explorer' view is displayed and re-populated  | SWTBot | Pass    | 84711  |
| 2.3                                       | Open Trace   | Open an LTTng Kernel Trace  | Verify that view is populated with kernel state system (o.e.t.analysis.os.linux.kernel) and statistics state systems (o.e.l.tmf.statistics.*) of opened trace | SWTBot | Pass    | Some state systems ID's should be renamed for Trace Compass 84711  |
| 2.4                                       | Open view when trace is already loaded                                   | 1) Close State System Explorer View<br>2) Load LTTng trace<br>3) Open 'State System Explorer' view  | Verify that view is populated with state systems from trace   | SWTBot | Pass    | (if the state system were already built) 84711   |
| 2.5                                       | Open Experiment  | Open Experiment with 2 or more LTTng traces   | Verify that view is populated with all kernel state system and statistics state systems of opened experiment (separated by trace)                             | RCPTT  | Pass    | The values are only available for time ranges where the trace exists. Only after we've "visited" other timestamps, then the attributes show up and print "Out of range". <a href="http://eclip.se/443653">http://eclip.se/443653</a><br>Works now: matthew<br>Bruno : I find the separation weird, and since I never used this view i'd like someone else to test this item. (Only the items in the second trace are expendable) |
| 2.7                                       | Select other trace   | Select different trace by clicking its Events editor tab  | View is updated to show selected trace. State values, start time and end time are updated according to the selected trace's previously selected range.        | Manual | Pass    |  |
| 2.6                                       | Restart  | Restart Eclipse   | Verify that view is populated with state systems from trace   | Manual | Pass    |  |
| 2.7                                       | Close all traces   | Close traces and experiment one by one from the editor tab  | Verify that state system explorer view is cleared after closing the last trace  | Manual | Pass    |  |
| <b>3 Timestamp / Time Range Selection</b> |  |   |   |        |         |  |
| 3.1                                       | Select timestamp   | Select time in another view (e.g Histogram view) that supports time synchronization   | Verify that state values are updated  | Manual | Pass    |  |
| 3.2                                       | Select time range  | Select a time range in another view that supports time synchronization  | Verify that only the start of the range is taken in consideration (changing the end time of the range should not affect the displayed values)                 | Manual | Pass    |  |
| <b>4 Displaying of Changed Values</b>     |  |   |   |        |         |  |
| 4.1                                       | Highlighting of changed values   | Select many different timestamps one after the other  | Attributes whose value changed in the last timestamp selection should be highlighted in yellow.   | Manual | Pass    |  |
| 4.2                                       | "Only Display Changes at Selected Timestamp" option with event selection | Enable the "Only Display Changes at Selected Timestamp" option with the toolbar button. Select different Events from the Event Table.   | Verify that only the state values that changed because of that event are displayed.   | Manual | Pass    |  |
|   | "Only Display Changes at Selected Timestamp" with timestamp selection    | Enable the "Only Display Changes at Selected Timestamp" option. Select *timestamps* corresponding to state changes (for example, using the previous/next buttons in the Control Flow View). | Verify that only the state values that changed at that timestamp are displayed.   | Manual | Pass    |  |

| Section                                   | Pass                                   | Fail  | To Do  | Comment   |
|---|--|---|--|---|
| TMF - Call Stack View                     | 24                                     | 0   | 14   | 0   |
| Target: Windows 7 64 bit                  |  |   |  | 8   |
| Step                                      | Test Case                              | Action  | Verification   | Comment   |
| 0   | Download the test resources            | <a href="#">Download this</a>   |  |   |
| <b>1 Preparation</b>                      |  |   |  |   |
| 1.1                                       | Open TMF Call Stack View               | Use menu Window → Show View → Other ... → Tracing → Call Stack  | Verify that 'Call Stack' view is shown   | SWTBot Pass Path is actually Window -> Show view -> Tracing -> Call stack   |
| 1.2                                       | Import generic trace                   | Import a trace that does not have any call stack information, like a standard kernel trace  | Verify that nothing is shown in the view, except "Stack info not available (<tracename>)"  | Manual Pass   |
| 1.3                                       | Import cyg-profile trace               | Import the trace in the "trace" directory of the downloaded zip   | Verify that the Callstack View is populated with some callstack information.   | SWTBot Pass   |
| 1.4                                       | Import cyg-profile-fast trace          | Import a trace in the "trace-fast" directory of the downloaded zip  | Verify that the Callstack View is populated with some callstack information.   | SWTBot Pass   |
| <b>2 Manage View</b>                      |  |   |  |   |
| 2.1                                       | Delete view                            | Close the Call stack view' View   | 'Call Stack' view is removed from perspective  | Manual Pass   |
| 2.2                                       | Open view                              | Use menu Window → Show View → Other ... → Tracing → Call Stack  | 'Call Stack' view is displayed and re-populated  | SWTBot Pass See comment 1.1. about the path   |
| 2.3                                       | Open Trace                             | Open "trace(-fast)" trace   | Verify that view is populated with call stack information  | SWTBot Pass   |
| 2.4                                       | Open view when trace is already loaded | 1) Close 'Call Stack' view<br>2) Open "glxgears-cyg-profile(-fast)" trace located in the git in ctf test<br>3) Open 'Call Stack' view | Verify that view is populated with call stack information  | SWTBot Pass   |
| 2.5                                       | Open Experiment                        | Open Experiment with 2 or more Call Stack traces. (You can use both traces)   | Verify that view is populated with all call stack information (separated by trace).  | Manual Pass second trace is hidden in the first trace, needs to be expanded to show   |
| 2.7                                       | Select other trace                     | Select different trace by clicking its Events editor tab  | View is updated to show selected trace.  | Manual Pass   |
| 2.6                                       | Restart                                | Restart Eclipse with Call Stack trace opened  | Verify that view is populated with call stack from trace   | Manual Pass   |
| 2.7                                       | Close all traces                       | Close traces and experiment one by one from the editor tab  | Verify that Call Stack view is cleared after closing the last trace  | Manual Pass   |
| <b>3 Navigation</b>                       |  |   |  |   |
| 3.1                                       | Select time                            | Click on random time in the time graph pane   | Selected time line is updated. Table is updated to show the full stack information at the selected time. Selected time is updated in other views.  | SWTBot Pass   |
| 3.2                                       | Select Previous/Next Event             | Click Previous/Next Event button  | Previous or next call stack change is selected and corresponding active function and stack depth is selected. Table is updated to show the full stack information at the selected time. Selected time is updated in other views. | SWTBot Pass   |
| 3.3                                       | Zoom to function (table)               | Double-click on a function in the table pane  | Time range is updated to the full duration of the selected function  | SWTBot Pass   |
| 3.4                                       | Zoom to function (time graph)          | Double-click on a function (interval) in the time graph pane  | Time range is updated to the full duration of the selected function  | SWTBot Pass   |
| 3.5                                       | Go to first event in trace             | Go to events editor, press home   | the call stack view is updated   | Manual Pass Fixed in <a href="https://git.eclipse.org/r/#c/80177/1">https://git.eclipse.org/r/#c/80177/1</a>  |
| <b>4 Synchronization</b>                  |  |   |  |   |
| 4.1                                       | Time synchronization                   | Select a random time in another view  | Selected time line is updated. Table is updated to show the full stack information at the selected time. If selected time is outside current range, time range is updated to include it.   | SWTBot Pass The vertical scroll bar is not updated(Sonia: only when you select a random time in the histogram view).If you select an event (in another view)before the start of the calls, the vertical scroll bar goes down. |
| 4.2                                       | Event synchronization                  | Select a call stack-impacting event (function entry/exit) in events table   | In addition to updating the selected time, the active function at the event time is selected. Vertical scroll bar is updated if necessary.   | SWTBot Pass   |
| 4.3                                       | Time range synchronization             | Select a new time range in Histogram view.  | Time range is updated.   | SWTBot Pass   |
| <b>5 Function name import - Text file</b> |  |   |  |   |

|                                     |                          |   |  |        |      |   |
|-------------------------------------|--------------------------|---|--|--------|------|---|
| 5.1                                 | Invalid text file import | Open 'trace' from Fibonacci.zip. Click the "Select a mapping file" button in the view and click "Browse" to select a random .txt file that does not contain any debugging info. | The function addresses do not change.  | Manual | Pass |   |
| 5.2                                 | Valid text file import   | Import a file "fibonacci.symbols"   | The view now displays function names instead of function addresses (both in the timegraph and the call stack areas). | SWTBot | Pass | The symbol mapping is applied on view level. If multiple traces are opened, or if an experiment with multiple traces is opened, they cannot each have their own mapping. Bug 459909.<br>France : I am not sure what to do here Sonia : The bug is resolved , you can specify a mapping file for each trace if you have a multiple traces in one experiment. |
| <b>6 Function name import - CDT</b> |                          |   |  |        |      |   |
| 6.1                                 | Binary import            | Click the "Select a binary file" button in the view and click "Browse" to select the fibonacci executable (fibonacci).  | The view now displays the function names for both traces   | Manual | Pass | Sonia :you have to specify the binary file for each trace.The view won't display the function names for the both traces if we select the fibonacci executable for a trace in an experiment with multiple traces.  |
| 6.2                                 | Binary import lttng 2.8+ | Open an lttng 2.8+ trace with the executable present  | The view now displays the function names for the trace   | Manual | Pass |   |

| Section  | Pass                         | Fail  | Type   | To Do    | Comment  |
|--|------------------------------|---|--|----------|----------|
| <b>GDB Tracing</b>                               | <b>25</b>                    | <b>0</b>  | <b>5</b>   | <b>0</b> | <b>0</b> |
| <b>Target:</b> Ubuntu 14.04 64 bit<br>GDB 7.11.1 | Eclipse CPP EPP RC2          |   |  |          |          |
| Step   | Test Case                    | Action  | Verification   | Type     | Comment  |
| <b>1 Preparation</b>                             |                              |   |  |          |          |
| 1.1  | Step 1                       | Open and reset the GDB Trace perspective  | GDB Trace perspective opens with correct views   | Manual   | Pass     |
| 1.2  | Step 2                       | Open Navigator View (used for independent verification)   | Navigator View opens   | Manual   | Pass     |
| <b>2 Project Creation</b>                        |                              |   |  |          |          |
| 2.1  | New Project Wizard           | Open New Tracing Project Wizard   | Tracing Project Wizard opens   | SWTBot   | Pass     |
| 2.2  | Create project               | Specify a project name and finish   | Tracing project appears in Project Explorer  | SWTBot   | Pass     |
| 2.3  | Project structure            | Close and open the new Tracing project  | Project contains the Traces folder   | SWTBot   | Pass     |
| <b>3 Traces Folder</b>                           |                              |   |  |          |          |
| 3.1  | Traces Folder menu           | Select the Traces folder and open its context menu  | Correct menu opens (Open Trace, Import, New Folder, ...)   | SWTBot   | Pass     |
| 3.2  | Trace Import Wizard          | Select Import Trace   | Trace Import Wizard appears  | SWTBot   | Pass     |
| 3.3  | Import traces                | Select a GDB Trace from samples directory and finish  | Imported traces appear in Folders with proper icon   | Manual   | Pass     |
| <b>4 Trace Configuration</b>                     |                              |   |  |          |          |
| 4.1  | Project/executable selection | Double-click on an un-configured trace  | Verify that an Error Dialog opens that notifies the user to select the trace executable  | Manual   | Pass     |
| 4.2  | Select Trace Executable      | 1) Right mouse click on trace<br>2) Select menu item "Select Trace Executable"<br>3) Fill in the proper values in dialog and finish | Trace is configured (4.3 is successful, when 4.2 was successful)   | Manual   | Pass     |
| 4.3  | Open configured trace        | Double-click on a configured trace  | Trace is opened, events table and views are populated  | Manual   | Pass     |
| <b>5 Source Code Lookup</b>                      |                              |   |  |          |          |
| 5.1  | Select event                 | With mouse select an event in events table  | The corresponding source code location is selected in the source code file.  | Manual   | Pass     |
| 5.2  | Select another event         | redo 5.1  | The corresponding source code location is selected in the source code file.  | Manual   | Pass     |
| <b>6 Events Table Navigation</b>                 |                              |   |  |          |          |
| 6.1  | Arrow keys                   | Update the current event using up/down keys within window   | Each keystroke modifies the selected event and the corresponding source code location is selected in the source code file.     | Manual   | Pass     |
| 6.2  | Scrolling                    | Update the current event using up/down keys outside window  | Table is refreshed to display new current event and the corresponding source code location is selected in the source code file | Manual   | Pass     |
| 6.3  | PgUp/PgDn                    | Update the current event using PgUp/PgDn keys   | Table is scrolled accordingly  | Manual   | Pass     |
| 6.4  | Home/End                     | Update the current event using Home/End keys  | Table jumps from first to last event and the corresponding source code location is selected in the source code file            | Manual   | Pass     |
| <b>7 Events Searching &amp; Filtering</b>        |                              |   |  |          |          |
| 7.1  | Search                       | In the search bar, enter some RE  | Events corresponding to the RE are highlighted   | Manual   | Pass     |
| 7.2  | Navigation                   | Navigate through highlighted events using Enter/Shift-Enter   | Next/previous highlighted event selected accordingly   | Manual   | Pass     |
| 7.3  | Un-search                    | In the search bar, clear the RE   | Events are displayed normally  | Manual   | Pass     |
| 7.4  | Filter                       | In the search bar, enter some RE and press Ctrl+Enter   | Only events matching RE are displayed  | Manual   | Pass     |
| 7.5  | Filter & Search              | In the filter bar, enter some RE; likewise in the search bar  | Events are filtered and highlighted accordingly  | Manual   | Pass     |
| 7.6  | Un-filter                    | In the filter header, remove the filter   | Events are displayed normally  | Manual   | Pass     |
| <b>8 Events Synchronization</b>                  |                              |   |  |          |          |
| 8.1  | Synch from Events View       | Click on an event in the Events View  | Trace Control View is updated; Debug View is updated   | Manual   | Pass     |

|     |                          |  |                                    |        |      |
|-----|--------------------------|--|------------------------------------|--------|------|
| 8.2 | Synch from Trace Control | Go up/down from the Trace Control View | Events View is updated accordingly | Manual | Pass |
|-----|--------------------------|--|------------------------------------|--------|------|

| Section                  | Pass                                  | Fail  | Type  | To Do  | Comment |
|--------------------------|---------------------------------------|---|---|--------|---------|
| LTTng 2.0 - CPU Analysis | 25                                    | 2   | 5   | 0      | 5       |
| Target:                  |                                       |   |   |        |         |
| Step                     | Test Case                             | Action  | Verification  | Type   | Comment |
| <b>0 Prerequisites</b>   |                                       |   |   |        |         |
| 0.1                      | Import traces                         | Import LTTng Kernel traces in Tracing project   |   |        |         |
| <b>1 Project View</b>    |                                       |   |   |        |         |
| 1.1                      | Check analysis can execute            | In the project explorer and expand a LTTng Kernel trace   | "CPU usage" analysis is present and it's not crossed out  | Manual | Pass    |
| 1.2                      | Verify help message when applicable   | In the project explorer, open and expand the LTTng kernel trace, right-click the CPU usage analysis and select Help | A generic help message appears with the name of the analysis  | Manual | Pass    |
| 1.5                      | Check analysis for another trace type | In the project explorer, expand a non-LTTng Kernel trace  | "CPU usage" analysis is not present   | Manual | Pass    |
| <b>2 View Management</b> |                                       |   |   |        |         |
| 2.1                      | Populate analysis's view              | Open an LTTng kernel trace and expand the "CPU usage" analysis in the project explorer                              | "CPU Usage" View appears under the analysis   | Manual | Pass    |
| 2.2                      | Open view                             | Double-click the CPU usage View under the CPU usage analysis  | The CPU usage Usage view opens and triggers the cpu analysis. After the analysis, both tree viewer and xy charts are populated.   | SWTBot | Pass    |
| 2.3                      | Close trace                           | Close the trace   | The CPU Usage view is emptied.  | Manual | Pass    |
| 2.4                      | Open trace                            | With the view already opened, open the trace  | The CPU Usage view is populated.  | SWTBot | Pass    |
| 2.5                      | Close view                            | Close the CPU Usage view  | The view is closed.   | Manual | Pass    |
| 2.6                      | Re-open view                          | Double-click the CPU Usage view under the CPU usage analysis in project explorer.                                   | The view opens and is automatically populated.  | SWTBot | Pass    |
| <b>3 View selection</b>  |                                       |   |   |        |         |
| 3.1                      | Select an entry                       | Select an entry in the tree viewer section  | A new series is added to the xy chart, corresponding to the selected TID  | SWTBot | Pass    |
| 3.2                      | Select another entry                  | Select another entry from the tree viewer   | A new series is added to the xy chart, and the previous TID's series is not displayed anymore   | Manual | Pass    |
| <b>4 Mouse handling</b>  |                                       |   |   |        |         |
| 4.1                      | Drag move time range                  | Drag move xy chart left and right with middle button and shift mouse wheel  | Time range is dragged. When mouse button is released, series are updated and new time range is propagated to other views.   | Manual | Fail    |
| 4.2                      | Zoom time range (mouse wheel)         | Zoom with ctrl mouse wheel up and down, cursor inside xy chart  | Time range is zoomed in and out, relative to mouse cursor. When mouse wheel is stopped for a short time, series are updated and new time range is propagated to other views, including the tree viewer beside the chart. The selected process remains the same. | SWTBot | Fail    |
| 4.3                      | Mouse vertical scroll                 | Scroll with mouse wheel up and down, cursor outside xy chart  | Table scroll up and down. Selected process does not change. Vertical scroll bar updated.  | Manual | Pass    |
| 4.4                      | Vertical scroll bar                   | Click and drag vertical scroll bar  | Tree viewer scrolls up and down. Selected process does not change.  | Manual | Pass    |
| 4.5                      | Drag select time range                | Drag select time graph with right button in xy chart  | Selection highlighted. When mouse button is released, time range is zoomed to selection, series are updated and new time range is propagated to other views. Selected process remains the same.   | Manual | Pass    |

|          |                                      |  |  |        |      |  |                                      |
|----------|--------------------------------------|--|--|--------|------|--|--------------------------------------|
| 4.6      | Mouse hover                          | Hover mouse in xy chart region anywhere  | Tool tip shows the total and selected process (if any) cpu usage at the time   | Manual | Pass |  |                                      |
| 4.7      | Drag mouse selection                 | Drag select xy chart with left button  | Selection highlighted and selection range is propagated to other views   | Manual | Pass |  |                                      |
| 4.8      | Shift key selection                  | Click select with left button (begin time), press shift key and click select another time (end time) | Selection highlighted and selection rang is propagated to other views  | Manual | Pass |  |                                      |
| 4.9      | Sort columns                         | Click on column headers once then twice  | Entries are sorted in ascending then descending order on the column value. Selected process does not change.   | Manual | Pass |  |                                      |
| 4.10     | Drag mouse selection (Status bar)    | Drag select xy chart with left button  | Selection highlighted. Status bar of Eclipse is updated with time information: T, T1, T2 and delta, where T is the time of the mouse position, T1 the first selected time, T2 the second (dragged) selected time and delta the time difference between T2-T1 (can be negative) | Manual | Pass |  |                                      |
| 4.11     | Shift key selection (Status bar)     | Click select with left button (begin time), press shift key and click select another time (end time) | Selection highlighted. Status bar of Eclipse is updated with time information: T, T1, T2 and delta, where T is the time of the mouse position, T1 the first selected time, T2 the second (dragged) selected time and delta the time difference between T2-T1 (can be negative) | Manual | Pass |  |                                      |
| <b>5</b> | <b>Keyboard handling</b>             |  |  |        |      |  |                                      |
| 5.1      | Keyboard navigation in tree viewer   | With focus on table, use UP, DOWN, HOME, END keys  | Selected process is changed. xy chart selection is updated. Vertical scroll bar updated.   | Manual | Pass |  |                                      |
| <b>6</b> | <b>Synchronization</b>               |  |  |        |      |  |                                      |
| 6.1      | Time synchronization                 | Select a random time in another view   | Selected time line is updated. If selected time is outside current range, time range is updated to include it.   | Manual | Pass |  |                                      |
| 6.2      | Time range synchronization           | Select a new time range in CPU usage view or in Histogram view.                                      | Time range is updated.   | Manual | Pass |  |                                      |
| 6.3      | Time range selection synchronisation | In any other view that supports range synchronization, select a new range.                           | Selection is highlighted. If the most left time (T1) of selected time range is outside the current range, then time range is updated to include it   | Manual | Pass |  |                                      |
|          | CPU usage works with experiments     |  |  | Manual | Pass |  | works wit 1 kernel trace experiments |



| Section                                  |                                   | Pass   | Fail   | To Do  | Comment |   |
|--|-----------------------------------|--|--|--------|---------|---|
| TMF - Remote Fetching                    |                                   | 53   | 0  | 51     | 0       | 17  |
| Target: Ubuntu 14.04 64 bit              |                                   |  |  |        |         |   |
| Step                                     | Test Case                         | Action   | Verification   | Type   | Comment |   |
| <b>1 Preparation</b>                     |                                   |  |  |        |         |   |
| 1.1                                      | Step 1                            | Open Trace Compass and reset Ltng perspective  | Ltng perspective opens with correct views                                |        |         |   |
| <b>2 Opening</b>                         |                                   |  |  |        |         |   |
| 2.1                                      | Open Profile Editor 1             | Right-click on Traces Folder -> Fetch Remote Traces ... -> Manage Profiles   | The Profile Editor of preference page opens                              | SWTBot | Pass    | Bruno : Not this test, but the Fetch Remotes Traces dialog, has a help button that does nothing. Patrick: See Bug 440238. |
| 2.2                                      | Open Profile Editor 2             | Window -> Preferences-> Tracing -> Remote Profiles   | The Profile Editor of preference page opens                              | SWTBot | Pass    |   |
| <b>3 Edit Profile - Add/Delete</b>       |                                   |  |  |        |         |   |
| 3.1                                      | Create Profile                    | Open Profile Editor > Click on 'Add' > Enter profile name, remote information, root path and trace pattern                                       | New Profile is created and template is provided                          | SWTBot | Pass    |   |
| 3.2                                      | Add Node                          | Select Profile node > right mouse click > select 'New Connection Node'   | New Connection Node is create under the profile and template is provided | SWTBot | Pass    |   |
| 3.3                                      | Add trace group                   | Select node node > righ mouse click > select 'New Trace Group'   | New Trace Group is created under the node and template is provided       | SWTBot | Pass    |   |
| 3.4                                      | Add trace                         | Select trace group > right mouse click > select 'New Trace'  | New Trace is created under Trace Group and template is provided          | SWTBot | Pass    |   |
| 3.5                                      | Delete Trace                      | Select trace > right mouse click > select Delete   | Trace is deleted   | SWTBot | Pass    |   |
| 3.6                                      | Delete Trace Group                | Select Trace Group> right mouse click > select Delete  | Trace Group is deleted   | RCPTT  | Pass    |   |
| 3.7                                      | Delete Connection Node            | Select Connection Node > right mouse click > select Delete   | Connection Node is deleted   | RCPTT  | Pass    |   |
| 3.8                                      | Remove Profile                    | Select Profile > click on 'Remove' button  | Profile is deleted   | SWTBot | Pass    |   |
| <b>4 Edit Profile - Reorder</b>          |                                   |  |  |        |         |   |
| 4.1                                      | Move profile up/down              | Create at 2-3 profiles > select 2nd profile and press buttons 'Move Up'/'Move Down'  | Profiles are moved up and down   | RCPTT  | Pass    |   |
| 4.2                                      | Move connection node up/down      | Make sure that there are 2 or 3 connection nodes > select 1 connection node > click buttons 'Move Up'/'Move Down'                                | Connection Nodes are moved up and down within a profile                  | RCPTT  | Pass    |   |
| 4.3                                      | Move Trace Group up/down          | Make sure that there are 2 or 3 trace gropus > select 1 trace group > click buttons 'Move Up'/'Move Down'  | Trace Groups are moved up and down within a connection node              | RCPTT  | Pass    |   |
| 4.4                                      | Move Trace up/down                | Make sure that there are 2 or 3 trace groups > select 1 traces > click buttons 'Move Up'/'Move Down'   | Traces are moved up and down within a Trace Group                        | SWTBot | Pass    |   |
| <b>5 Edit Profile - Copy, Cut, Paste</b> |                                   |  |  |        |         |   |
| 5.1                                      | Copy/Paste Profile                | Select Profile > click right mouse button on a profile > Select Copy -> click right mouse button on other profile > Select Paste                 | Profile is pasted under the selected profile                             | RCPTT  | Pass    |   |
| 5.2                                      | Copy/Paste Profile (Keys)         | Redo 5.1 with CTRL+C and CTRL+V keys   | Profile is pasted under the selected profile                             | RCPTT  | Pass    |   |
| 5.3                                      | Copy/Paste Connection Node        | Select Profile > click right mouse button on a Connection Node > Select Copy -> click right mouse button on other Connection Node > Select Paste | Profile is pasted under the selected Connection Node                     | RCPTT  | Pass    |   |
| 5.4                                      | Copy/Paste Connection Node (Keys) | Redo 5.3 with CTRL+C and CTRL+V keys   | Profile is pasted under the selected Connection Node                     | RCPTT  | Pass    |   |
| 5.5                                      | Copy/Paste Trace Group            | Select Profile > click right mouse button on a Trace Group > Select Copy -> click right mouse button on other Trace Group > Select Paste         | Profile is pasted under the selected Trace Group                         | RCPTT  | Pass    |   |
| 5.6                                      | Copy/Paste Trace Group (Keys)     | Redo 5.5 with CTRL+C and CTRL+V keys   | Profile is pasted under the selected Trace Group                         | RCPTT  | Pass    |   |
| 5.7                                      | Copy/Paste Trace                  | Select Profile > click right mouse button on a Trace > Select Copy -> click right mouse button on other Trace > Select Paste                     | Profile is pasted under the selected Trace                               | SWTBot | Pass    |   |
| 5.8                                      | Copy/Paste Trace (Key)            | Redo 5.5 with CTRL+C and CTRL+V keys   | Profile is pasted under the selected Trace                               | RCPTT  | Pass    |   |
| 5.9                                      | Cut/Paste                         | Redo 5.1 - 5.8 with cut and paste  | Successful cut and paste   | RCPTT  | Pass    | Trace (5.7) is done with SWTBot   |

| 6 Edit Profile - Adverserial |   |  |   |        |  |
|------------------------------|---|--|---|--------|--|
| 6.1                          | Error empty profile name  | Clear profile name   | Error message "Profile must not be empty"   | RCPTT  | Pass                                       |
| 6.2                          | Duplicate profile name  | Add profile with name of existing profile  | Error message "<name>: Duplicate profile name"  | RCPTT  | Pass                                       |
| 6.3                          | Error empty Connection node name  | Clear Connection node name   | Error message "Node name must not be empty"   | RCPTT  | Pass                                       |
| 6.4                          | Duplicate Connection node name  | Within a profile, add Connection node with name of existing node   | Error message "Duplicate node names"  | RCPTT  | Pass                                       |
| 6.5                          | Missing username in URI   | remove user name of a Connection Node  | Error message "URI must include user information"   | RCPTT  | Pass                                       |
| 6.6                          | Invalid URI   | add invalid URI  | Error message "URI must include valid host and port number" or "Unsupported URI scheme"   | RCPTT  | Pass                                       |
| 6.7                          | Error empty Trace Group   | Delete Trace Group root path   | Error message "Root path must not be empty"   | RCPTT  | Pass                                       |
| 6.8                          | Error empty Trace   | Delete File Pattern  | Error message "File pattern must not be empty"  | RCPTT  | Pass                                       |
| 6.9                          | Invalid File pattern  | Add trace with invalid regular expression  | Error message "Invalid file pattern"  | RCPTT  | Pass                                       |
| 5 Export/Import Profile      |   |  |   |        |  |
| 7.1                          | Export Profile  | Select multiple profiles > Click Export Button > Select Folder and enter file name > OK  | Only selected profiles are exported   | SWTBot | Pass                                       |
| 7.2                          | Import Profile  | Click on Import Button > select profile XML file > OK  | Profiles are imported   | SWTBot | Pass                                       |
| 7.3                          | Import Profile  | Redo 7.2   | after second import an error message appears "Duplicate profile names"  | SWTBot | Pass                                       |
| 8 Remote Fetch Wizard        |   |  |   |        |  |
| 8.1                          | Preparation   | 1) Generate CTF trace in <plugin>/generated/synthetic-trace<br>2) Import profiles from <plugin>/profiles/test-profiles.xml   |   | SWTBot | Pass                                       |
| 8.2                          | Create and run Profile "new Profile" (syslog + synthetic CTF trace in sub-directory)                        | 1) Create Profile with Local connection, 1 trace group (root /tmp/traces/) and 2 traces (*.syslog.* and *.synthetic.*) in this group<br>2) Select profile in Fetch Remote Traces wizard (Remote Profile page)<br>3) Click on 'Next' button<br>4) Click on 'Finish'                                       | Verify that all test traces are imported with correct trace types assigned. Verify that folder structure is preserved.  | SWTBot | Pass<br>Local connection is used in SWTBot |
|                              | Clear traces  | Delete all traces from Traces directory  | All traces deleted  |        |  |
| 8.3                          | Create and run Profile "new Profile" (syslog + synthetic CTF trace in sub-directory), only 1 trace selected | 1) Create Profile with Local connection, 1 trace group (root /tmp/traces/) and 2 traces (*.syslog.* and *.synthetic.*) in this group<br>2) Select profile in Fetch Remote Traces wizard (Remote Profile page)<br>3) Click on 'Next' button<br>4) deslect the synthetic CTF trace<br>5) Click on 'Finish' | Verify that only the selected traces are imported with correct trace types assigned. Verify that folder structure is preserved.   | SWTBot | Pass<br>Local connection is used in SWTBot |
|                              | Clear traces  | Delete all traces from Traces directory  | All traces deleted  |        |  |
| 8.4                          | Run Profile "TestAllRecursive"  | 1) Select profile "TestAllRecursive" in Fetch Remote Traces wizard (Remote Profile page)<br>2) Click on 'Next' button (enter password if needed)<br>3) Click on 'Finish'   | Verify that all test traces are imported with correct trace types assigned (LTng kernel, LTng UST, custom text, custom XML). The file unrecognized.log is imported with unrecognized trace type. Make sure that directory structure is preserved.                                   | SWTBot | Pass<br>Local connection is used in SWTBot |
| 8.5                          | Re-run Profile "TestAllRecursive" (Rename)  | 1) Select profile "TestAllRecursive" in Fetch Remote Traces wizard (Remote Profile page)<br>2) Click on 'Next' button (enter password if needed)<br>3) Click on 'Finish'<br>4) In dialog box select 'Rename' for the first trace and 'Rename ALL' for the second traces                                  | Verify that all test traces are imported with new name and correct trace types assigned (LTng kernel, LTng UST, custom text, custom XML). The file unrecognized.log is imported with unrecognized trace type. Make sure that directory structure is preserved.                      | SWTBot | Pass<br>Local connection is used in SWTBot |
| 8.6                          | Re-run Profile "TestAllRecursive" (Overwrite)   | 1) Select profile "TestAllRecursive" in Fetch Remote Traces wizard (Remote Profile page)<br>2) Click on 'Next' button (enter password if needed)<br>3) Click on 'Finish'<br>4) In dialog box select 'Overwrite' for the first trace and 'Overwrite ALL' for the second traces                            | Verify that all test traces are imported with correct trace types assigned where old traces are overwritten. (LTng kernel, LTng UST, custom text, custom XML). The file unrecognized.log is imported with unrecognized trace type. Make sure that directory structure is preserved. | SWTBot | Pass<br>Local connection is used in SWTBot |

|                              |   |  |   |        |      |                                    |
|------------------------------|---|--|---|--------|------|------------------------------------|
| 8.7                          | Re-run Profile "TestAllRecursive" (Skip)                        | 1) Select profile "TestAllRecursive" in Fetch Remote Traces wizard (Remote Profile page)<br>2) Click on 'Next' button (enter password if needed)<br>3) Click on 'Finish'<br>4) In dialog box select 'Skip' for the first trace and 'Skip ALL' for the second traces          | Verify that all test traces are skipped and no trace is imported  | SWTBot | Pass | Local connection is used in SWTBot |
| 8.8                          | Re-run Profile "TestAllRecursive" (Overwrite 2)<br>Clear traces | 1) Select profile "TestAllRecursive" in Fetch Remote Traces wizard (Remote Profile page)<br>2) Select checkbox 'Overwrite traces without warning'<br>3) Click on 'Next' button (enter password if needed)<br>4) Click on 'Finish'<br>Delete all traces from Traces directory | Verify that all test traces are imported with correct trace types assigned where old traces are overwritten (no dialog box opens). (LTTng kernel, LTTng UST, custom text, custom XML). The file unrecognized.log is imported with unrecognized trace type. Make sure that directory structure is preserved.<br>All traces deleted | SWTBot | Pass | Local connection is used in SWTBot |
| 8.9                          | Re-run Profile "TestAllRecursive" (2)<br>Clear traces           | 1) Select profile "TestAllRecursive" in Fetch Remote Traces wizard (Remote Profile page)<br>2) Click on 'Finish' (enter password if needed)<br>Delete all traces from Traces directory   | Verify that all test traces are imported with correct trace types assigned. The second page is omitted. (LTTng kernel, LTTng UST, custom text, custom XML). The file unrecognized.log is imported with unrecognized trace type. Make sure that directory structure is preserved.<br>All traces deleted                            | SWTBot | Pass | Local connection is used in SWTBot |
| 8.10                         | Run Profile "TestAllNonRecursive"<br>Clear traces               | 1) Select profile "TestAllNonRecursive" in Fetch Remote Traces wizard (Remote Profile page)<br>2) Click on 'Next' button (enter password if needed)<br>3) Click on 'Finish'<br>Delete all traces from Traces directory   | Verify that only traces from root path are imported (LTTng kernel, LTTng UST, custom text, custom XML). The file unrecognized.log is imported with unrecognized trace type. Make sure that directory structure is preserved.<br>All traces deleted  | SWTBot | Pass | Local connection is used in SWTBot |
| 8.11                         | Run Profile "TestSpecificRecursive"<br>Clear traces             | 1) Select profile "TestSpecificRecursive" in Fetch Remote Traces wizard (Remote Profile page)<br>2) Click on 'Next' button (enter password if needed)<br>3) Click on 'Finish'<br>Delete all traces from Traces directory   | Verify that only kernel and custom text/XML logs are imported from root and subdirectory. Make sure that directory structure is preserved.<br>All traces deleted  | SWTBot | Pass | Local connection is used in SWTBot |
| 8.12                         | Run Profile "TestSpecificNonRecursive"<br>Clear traces          | 1) Select profile "TestSpecificNonRecursive" in Fetch Remote Traces wizard (Remote Profile page)<br>2) Click on 'Next' button (enter password if needed)<br>3) Click on 'Finish'<br>Delete all traces from Traces directory  | Verify that only kernel and custom text/XML logs are imported from root directory only. Make sure that directory structure is preserved.<br>All traces deleted  | SWTBot | Pass | Local connection is used in SWTBot |
| 8.13                         | Run Profile "TestSpecificMultiGroupRecursive"<br>Clear traces   | 1) Select profile "TestSpecificMultiGroupRecursive" in Fetch Remote Traces wizard (Remote Profile page)<br>2) Click on 'Next' button (enter password if needed)<br>3) Click on 'Finish'<br>Delete all traces from Traces directory   | Verify that only traces from root path are imported (LTTng kernel, LTTng UST, custom text, custom XML). Make sure that directory structure is preserved.<br>All traces deleted  | SWTBot | Pass | Local connection is used in SWTBot |
| 8.14                         | Cancel Import<br>Clear traces                                   | 1) Select profile "TestAllRecursive" in Fetch Remote Traces wizard (Remote Profile page)<br>2) Click on 'Next' button (enter password if needed)<br>3) Click on 'Finish'<br>4) Cancel import (red square or Cancel button)<br>Delete all traces from Traces directory        | Verify that import operation is cancelled<br>All traces deleted   | SWTBot | Pass | Local connection is used in SWTBot |
| 8.15                         | Run Profile "TestMultiNodes"                                    | 1) Select profile "TestMultiNodes" in Fetch Remote Traces wizard (Remote Profile page)<br>2) Click on 'Next' button (enter password if needed)<br>3) Click on 'Finish'   | Verify that only traces from root path are imported (LTTng kernel, LTTng UST, custom text, custom XML). The file unrecognized.log is imported with unrecognized trace type. Make sure that directory structure is preserved. 2 nodes directories are created with the above traces stored   | SWTBot | Pass | Local connection is used in SWTBot |
| <b>9 Connection Handling</b> |   |  |   |        |      |                                    |

|                                 |  |  |   |        |      |  |
|---------------------------------|--|--|---|--------|------|--|
| 9.1                             | Error cannot connect to remote host (node doesn't exist) | Create profile with IP address that cannot be connected to and run profile           | Operation to connect to remote node fails and error dialog is shown with detailed information (after time-out)  | SWTBot | Pass |  |
| 9.2                             | Error cannot connect to remote host (wrong password)     | Create profile with valid IP address. When asked for password enter invalid password | Operation to connect to remote node fails with time-out and error dialog is shown with detailed information. Note time-out is as per remote development preferences   | Manual | Pass | SWTBot test can be run locally by removing the @Ignore tag |
| <b>10 Other Remote Backends</b> |  |  |   |        |      |  |
|                                 | Clear traces   | Delete all traces from Traces directory  | All traces deleted  |        |      |  |
| 10.2                            | Remote Fetch using SSH                                   | Update profile with local username and run test 9.2 entering the correct password    | Verify that all test traces are imported with correct trace types assigned (LTTng kernel, LTTng UST, custom text, custom XML). The file unrecognized.log is imported with unrecognized trace type. Make sure that directory structure is preserved. | Manual | Pass |  |

| Section                       | Pass                          | Fail   | Type  | To Do  | Comment   |
|-------------------------------|-------------------------------|--|---|--------|---|
| LTTng 2.0 - Control Flow View | 52                            | 0  | 15  | 0      | 10  |
| Target: Windows               |                               |  |   |        |   |
| Step                          | Test Case                     | Action   | Verification  |        | Comment   |
| <b>0 Prerequisites</b>        |                               |  |   |        |   |
| 0.1                           | Import traces                 | Import LTTng Kernel traces in Tracing project  |   |        |   |
| 0.2                           | Create experiment             | Create an experiment with LTTng Kernel traces  |   |        |   |
| <b>1 View management</b>      |                               |  |   |        |   |
| 1.1                           | Open perspective              | Open and reset LTTng Kernel Perspective  | Control Flow view opens.  | SWTBot | Pass  |
| 1.2                           | Open trace                    | Open LTTng Kernel trace in Project Explorer  | Control Flow view is populated with processes, sorted by Trace then TID. Child processes appear under their parent, sorted by birth time. Range is set to initial offset. Arrows are drawn between states of a CPU. | SWTBot | Pass  |
| 1.2                           | Open experiment               | Open experiment with LTTng Kernel traces in Project Explorer                             | Control Flow view is populated with processes, sorted by Trace then TID. Child processes appear under their parent, sorted by birth time. Range is set to initial offset. Arrows are drawn between states of a CPU. | Manual | Pass  |
| 1.3                           | Close view                    | Close the Control Flow view  | View is closed.   | SWTBot | Pass  |
| 1.4                           | Open view                     | Open the Control Flow view   | Control Flow view is opened and populated with processes.   | SWTBot | Pass  |
| <b>2 View selection</b>       |                               |  |   |        |   |
| 2.1                           | Select process in table       | Select a process in the table  | Same process is highlighted in time graph.  | Manual | Pass  |
| 2.2                           | Select process in time graph  | Select a process in the time graph (empty region)  | Same process is highlighted in table. Selected time line is updated. Other views are synchronized to selected time.   | Manual | Pass  |
| 2.3                           | Select state in time graph    | Select a state in the time graph   | Same process is highlighted in table. State is highlighted in time graph. Selected time line is updated. Other views are synchronized to selected time.   | Manual | Pass  |
| <b>3 Mouse handling</b>       |                               |  |   |        |   |
| 3.1                           | Drag move chart area          | Ctrl-Drag move time graph left and right with middle button                              | Visible range is dragged. When mouse button is released, states are updated and new time range is propagated to other views.  | Manual | Pass<br>What is called 'time range' here should actually be called 'window span'. Documentation fix : what does "states are updated" imply? |
| 3.2                           | Zoom time range (mouse wheel) | Zoom with mouse wheel up and down, cursor inside time graph while holding the Ctl button | Time range is zoomed in and out, relative to mouse cursor. When mouse wheel is stopped for a short time, states are updated and new time range is propagated to other views.  | Manual | Pass<br>Documentation fix : what does "states are updated" imply?   |
| 3.3                           | Zoom time range (mouse drag)  | Drag in time graph scale left and right with left button                                 | Time range is zoomed in and out. When mouse button is released, states are updated and new time range is propagated to other views.   | Manual | Pass<br>Documentation fix : what does "states are updated" imply?   |
| 3.4                           | Mouse vertical scroll         | Scroll with mouse wheel up and down  | Table and time graph scroll up and down and remain aligned. Selected process does not change. Vertical scroll bar updated.  | Manual | Pass  |

|          |   |  |  |        |      |   |
|----------|---|--|--|--------|------|---|
| 3.5      | Vertical scroll bar                                   | Click and drag vertical scroll bar   | Table and time graph scroll up and down and remain aligned. Selected process does not change.  | Manual | Pass |   |
| 3.6      | Drag zoom time range                                  | Drag select time graph with right button   | Selection highlighted. When mouse button is released, time range is zoomed to selection, states are updated and new time range is propagated to other views.   | Manual | Pass | Documentation fix : what does "states are updated" imply?           |
| 3.7      | Double-click reset time range                         | Double-click left button on time scale   | Time range is reset to full range, states are updated and new time range is propagated to other views.   | Manual | Pass | Documentation fix : what does "states are updated" imply?           |
| 3.8      | Mouse hover (empty region)                            | Hover mouse in time graph over empty region  | Tool tip shows process name only.  | Manual | Pass |   |
| 3.9      | Mouse hover (state)                                   | Hover mouse in time graph over state   | Tool tip shows process name, state name, date, start time, stop time, duration. For USERMODE state, CPU is shown. For SYSCALL state, CPU and System Call is shown. For INTERRUPTED state, CPU is shown.  | Manual | Pass |   |
| 3.10     | Drag mouse selection                                  | Drag select time graph with left button  | Selection highlighted. Status bar of Eclipse is updated with time information: T, T1, T2 and delta, where T is the time of the mouse position, T1 the first selected time, T2 the second (dragged) selected time and delta the time difference between T2-T1 (can be negative) | Manual | Pass |   |
| 3.11     | Shift key selection                                   | Click select with left button (begin time), press shift key and click select another time (end time) | Selection highlighted. Status bar of Eclipse is updated with time information: T, T1, T2 and delta, where T is the time of the mouse position, T1 the first selected time, T2 the second (dragged) selected time and delta the time difference between T2-T1 (can be negative) | Manual | Pass |   |
| <b>4</b> | <b>Keyboard handling</b>                              |  |  |        |      |   |
| 4.1      | Keyboard navigation in time graph (process selection) | With focus on time graph, use UP, DOWN, HOME, END keys   | Selected process is changed. Table selection is updated. Vertical scroll bar updated.  | Manual | Pass |   |
| 4.2      | Keyboard navigation in time graph (state selection)   | With focus on time graph, use LEFT, RIGHT keys   | Previous or next state is selected. Selected time is updated in other views.   | SWTBot | Pass |   |
| <b>5</b> | <b>Tool bar handling</b>                              |  |  |        |      |   |
| 5.1      | Show Legend   | Click Show Legend button   | The legend dialog is opened and can be closed.   | SWTBot | Pass |   |
| 5.2      | Reset Time Scale                                      | Click Reset Time Scale button  | Time range is reset to full range, states are updated and new time range is propagated to other views.   | SWTBot | Pass | Documentation fix : what does "states are updated" imply?           |
| 5.3      | Select Previous/Next Event                            | Click Previous/Next Event button   | Previous or next state is selected. Selected time is updated in other views.   | SWTBot | Pass |   |
| 5.4      | Select Previous/Next Process                          | Click Previous/Next Process button   | Selected process is changed in table and time graph. Vertical scroll bar updated.  | Manual | Pass |   |
| 5.5      | Zoom In/Out   | Click Zoom In/Out button   | Time range is zoomed in and out, relative to center of selection or window. States are updated and new time range is propagated to other views.  | Manual | Pass | Documentation fix : what does "states are updated" imply?           |
| 5.6      | Filter Dialog   | Open Filter Dialog   | Verify that all buttons are working correctly  | SWTBot | Pass | Pro tip: "Uncheck selected" and "Uncheck subtree" do the same thing |

|   |   |   |   |        |      |  |
|---|---|---|---|--------|------|--|
| 5.7                                     | Filter Processes                            | 1) Open Filter Dialog<br>2) Deselect several processes<br>3) Press OK   | Verify that only selected processes are displayed in the view   | SWTBot | Pass |  |
| 5.8                                     | Hide Arrows                                 | Click Hide Arrows button  | Verify that arrows are not drawn in the time graph  | Manual | Pass |  |
| 5.9                                     | Follow CPU Forward                          | With focus on time graph, click Follow CPU Forward button   | Time graph is updated to show the next state for this cpu following the arrow, the event is selected in the Events editor.                                | SWTBot | Pass |  |
| 5.10                                    | Follow CPU Backward                         | With focus on time graph, click Follow CPU Backward button  | Time graph is updated to show the previous state for this cpu following the arrow, the event is selected in the Events editor.                            | SWTBot | Pass |  |
| 5.11                                    | Optimize                                    | Click on the optimize button  | verify that the processes are closer together.  | SWTBot | Pass |  |
| 5.12                                    | Re-Optimize                                 | Click on the optimize button a few more times   | verify that the processes did not move, the optimization is stable  | SWTBot | Pass |  |
| 5.13                                    | Go to next event of selected thread         | Select a thread and click on go to next event of selected thread  | Verify in the events table that the selected thread is the same as the previous event   | Manual | Pass |  |
| 5.14                                    | Go to previous event of selected thread     | Select a thread and click on go to next event of selected thread  | Verify in the events table that the selected thread is the same as the previous event   | Manual | Pass |  |
| <b>6 Synchronization</b>                |   |   |   |        |      |  |
| 6.1                                     | Time synchronization                        | Select a random time in another view  | Selected time line is updated. If selected time is outside current range, time range is updated to include it.  | Manual | Pass |  |
| 6.2                                     | Event synchronization                       | Select a state-impacting event (sched_switch, syscall, ...) in events table or in Resources view using Select Previous/Next event.  | In addition to updating the selected time, the process containing the state change is selected and revealed. Vertical scroll bar is updated if necessary. | Manual | Pass |  |
| 6.3                                     | Window range synchronization                | Select a new window range in Resources view or in Histogram view.   | Window range is updated.  | Manual | Pass |  |
| 6.4                                     | Selection range synchronization             | In any other view that supports selection range synchronization, select a new range.  | Selection is highlighted. If the left time (T1) of selected time range is outside the current range, then window range is updated to include it           | Manual | Pass | Tested with Ressources view, Control Flow view and Histogram view. |
| <b>7 Multiple Trace Synchronization</b> |   |   |   |        |      |  |
|   | Preparation                                 | <b>1) Download traces.zip (if necessary) and unzip into a local directory \${local}</b><br><b>2) Import kernel trace \${local}/traces/import/kernel-overlap-testing</b><br><b>3) Import UST \${local}/traces/import/trace ust-overlap-testing</b><br><b>4) Create experiment with trace of 2) in it</b> |   |        |      |  |
| 7.1                                     | Open multiple traces (no overlap)           | Open multiple traces that don't overlap in time   | View shows the last opened trace  | Manual | Pass |  |
| 7.2                                     | Change selected time and range (no overlap) | Select a time and new range   | Selected time line and time range is updated to selected time and new range.  | Manual | Pass |  |

|                        |   |   |  |        |      |  |
|------------------------|---|---|--|--------|------|--|
| 7.3                    | Select other trace (no overlap)           | Select different trace by clicking its Events editor tab  | View is updated to show selected trace. Selected time line and time range are restored to the selected trace's previously selected time and range. | Manual | Pass |  |
| 7.4                    | Open multiple traces (overlap)            | - Open multiple traces that overlap in time<br>- For both traces, in Events table right mouse-click -> "Follow time updates from other traces"  | View shows the last opened trace   | Manual | Pass |  |
| 7.5                    | Change selected time and range (overlap)  | Select a time and new range   | Selected time line and time range is updated to selected time and new range.   | Manual | Pass |  |
| 7.6                    | Select other trace (overlap)              | Select different trace by clicking its Events editor tab  | View is updated to show selected trace. Selected time line and time range are set to the newly selected time and range.                            | Manual | Pass |  |
| 7.7                    | Close all traces                          | Close all Events editor tabs  | View is cleared.   | Manual | Pass |  |
| <b>8.1 Filtering</b>   |   |   |  |        |      |  |
|                        | Preparation                               | Open 2 LTTng Kernel Traces  |  |        |      |  |
| 8.1                    | Apply filter (1st trace)                  | 1) Open filter dialog<br>2) Create filter<br>3) Click on OK   | Make sure that only selected processes of filter dialog are shown  | SWTBot | Pass |  |
| 8.2                    | Apply filter (2nd trace)                  | 1) Switch to 2nd trace (keep 1st open)<br>2) Open filter dialog<br>3) Create filter<br>4) Click on OK   | Make sure that only selected processes of filter dialog are shown  | Manual | Pass |  |
| 8.3                    | Persitent filter                          | Switch between both open traces   | Make sure that previously set filter are still available   | Manual | Pass |  |
| <b>9 Miscellaneous</b> |   |   |  |        |      |  |
| 9.1                    | Restart (Bug 409345)                      | 1) Open LTTng Kernel Trace<br>2) Select Control Flow View<br>3) Restart Eclipse   | Verify that Control Flow View is populated   | Manual | Pass |  |
| 9.2                    | Select single time (Bug 477009)           | 1) Open LTTng UST trace while CFV is open<br>2) Select event in events table  | Verify that Control Flow View is empty, current window range stays change to ensure visibility   | Manual | Pass |  |
| 9.3                    | Window range synchronization (Bug 477012) | 1) Open Control Flow view, Resources view and a kernel trace. Initial window range is 'range 1'.<br>2) Go "right one page" on Control Flow view by pressing right arrow in scroll bar.<br>3) Go "left one page" on Resources view by pressing left arrow in scroll bar.<br>4) Go "right one page" on Control Flow view. | Verify that after each step the initial window range doesn't change  | Manual | Pass |  |



| Section                    | Pass                          | Fail   | To Do  | Comment     |
|----------------------------|-------------------------------|--|--|-------------|
| LTTng 2.0 - Resources View | 40                            | 0  | 6  | 2           |
| Target: Windows 7          |                               |  |  |             |
| Step                       | Test Case                     | Action   | Verification   | Comment     |
| <b>0 Prerequisites</b>     |                               |  |  |             |
| 0.1                        | Import traces                 | Import LTTng Kernel traces in Tracing project                                    |  |             |
| 0.2                        | Create experiment             | Create an experiment with LTTng Kernel traces                                    |  |             |
| <b>1 View management</b>   |                               |  |  |             |
| 1.1                        | Open perspective              | Open and reset LTTng Kernel Perspective, and select Resources view               | Resource view opens.   | SWTBot Pass |
| 1.2                        | Open trace                    | Open LTTng Kernel trace in Project Explorer                                      | Resource view is populated with traces (sorted by name) and their resources as tree children (sorted by resource type then numerically) Range is set to initial offset.      | SWTBot Pass |
| 1.2                        | Open experiment               | Open experiment with LTTng Kernel traces in Project Explorer                     | Resource view is populated with traces (sorted by name) and their resources as tree children (sorted by resource type then numerically) Range is set to initial offset.      | Manual Pass |
| 1.3                        | Close view                    | Close the Resources view   | View is closed.  | SWTBot Pass |
| 1.4                        | Open view                     | Open the Resources view  | Resources view is opened and populated with processes.   | SWTBot Pass |
| <b>2 View selection</b>    |                               |  |  |             |
| 2.2                        | Select resource in time graph | Select a resource in the time graph (empty region)                               | Resource is highlighted. Selected time line is updated. Other views are synchronized to selected time.   | Manual Pass |
| 2.3                        | Select state in time graph    | Select a state in the time graph   | State is highlighted in time graph. Selected time line is updated. Other views are synchronized to selected time.  | Manual Pass |
| <b>3 Mouse handling</b>    |                               |  |  |             |
| 3.1                        | Drag move canvas              | Drag move time graph left and right with middle button                           | Time range is dragged. When mouse button is released, states are updated and new window range is propagated to other views.  | Manual Pass |
| 3.2                        | Zoom time range (mouse wheel) | Zoom with mouse wheel up and down on header or Ctrl+mousewheel in the time graph | Time range is zoomed in and out, relative to mouse cursor. When mouse wheel is stopped for a short time, states are updated and new time range is propagated to other views. | Manual Pass |
| 3.3                        | Zoom time range (mouse drag)  | Drag in time graph scale left and right with left button                         | Time range is zoomed in and out. When mouse button is released, states are updated and new time range is propagated to other views.  | Manual Pass |
| 3.4                        | Mouse vertical scroll         | Scroll with mouse wheel up and down, cursor outside time graph (in name space)   | Time graph scrolls up and down. Selected process does not change. Vertical scroll bar updated.   | Manual Pass |

|          |   |  |  |        |      |  |
|----------|---|--|--|--------|------|--|
| 3.5      | Vertical scroll bar                                   | Click and drag vertical scroll bar   | Time graph scroll up and down and remain aligned. Selected process does not change.  | Manual | Pass |  |
| 3.6      | Drag select time range                                | Drag select time graph with right button   | Selection highlighted. When mouse button is released, time range is zoomed to selection, states are updated and new time range is propagated to other views.   | Manual | Pass |  |
| 3.7      | Double-click reset time range                         | Double-click left button on time scale   | Time range is reset to full range, states are updated and new time range is propagated to other views.   | Manual | Pass |  |
| 3.8      | Mouse hover (empty region)                            | Hover mouse in time graph over empty region  | Tool tip shows resource name only.   | Manual | Pass |  |
| 3.9      | Mouse hover (state)                                   | Hover mouse in time graph over state   | Tool tip shows resource name, state name, date, start time, end time, duration. For IRQ state, IRQ number is shown. For IRQ_ACTIVE/SOFT_IRQ_ACTIVE state, CPU is shown. On usermode and syscall tool tip shows also shows hover time, tid and process name.                    | Manual | Pass | When not zoomed enough, tool tip does not show CPU for IRQ_ACTIVE/SOFT_IRQ_ACTIVE state. |
| 3.10     | Drag mouse selection                                  | Drag select time graph with left button  | Selection highlighted. Status bar of Eclipse is updated with time information: T, T1, T2 and delta, where T is the time of the mouse position, T1 the first selected time, T2 the second (dragged) selected time and delta the time difference between T2-T1 (can be negative) | Manual | Pass |  |
| 3.11     | Shift key selection                                   | Click select with left button (begin time), press shift key and click select another time (end time) | Selection highlighted. Status bar of Eclipse is updated with time information: T, T1, T2 and delta, where T is the time of the mouse position, T1 the first selected time, T2 the second (dragged) selected time and delta the time difference between T2-T1 (can be negative) | Manual | Pass |  |
| <b>4</b> | <b>Keyboard handling</b>                              |  |  |        |      |  |
| 4.1      | Keyboard navigation in time graph (process selection) | With focus on time graph, use UP, DOWN, HOME, END keys   | Selected process is changed. Vertical scroll bar updated.  | Manual | Pass |  |
| 4.2      | Keyboard navigation in time graph (state selection)   | With focus on time graph, use LEFT, RIGHT keys   | Previous or next state is selected. Selected time is updated in other views.   | Manual | Pass |  |
| <b>5</b> | <b>Tool bar handling</b>                              |  |  |        |      |  |
| 5.1      | Show Legend   | Click Show Legend button   | The legend dialog is opened and can be closed.   | SWTBot | Pass |  |
| 5.2      | Reset Time Scale                                      | Click Reset Time Scale button  | Time range is reset to full range, states are updated and new time range is propagated to other views.   | Manual | Pass |  |
| 5.3      | Select Previous/Next Event                            | Click Previous/Next State button   | Previous or next state is selected. Selected time is updated in other views.   | Manual | Pass |  |
| 5.4      | Select Previous/Next Process                          | Click Previous/Next Process button   | Selected process is changed in time graph. Vertical scroll bar updated.  | Manual | Pass |  |
| 5.5      | Zoom In/Out   | Click Zoom In/Out button   | Time range is zoomed in and out, relative to center of selection or window. States are updated and new time range is propagated to other views.  | Manual | Pass |  |

|   |   |   |  |        |      |   |
|---|---|---|--|--------|------|---|
| 5.6                                     | Filter Dialog                               | Open Filter Dialog  | Verify that all buttons are working correctly  | Manual | Pass |   |
| <b>6 Synchronization</b>                |   |   |  |        |      |   |
| 6.1                                     | Time synchronization                        | Select a random time in another view  | Selected time line is updated. If selected time is outside current range, time range is updated to include it.                                     | Manual | Pass |   |
| 6.2                                     | Time range synchronization                  | Select a new time range in Control Flow view or in Histogram view.  | Time range is updated.   | Manual | Pass |   |
| 6.3                                     | Time range selection synchronisation        | In any other view that supports range synchronization, select a new range.  | Selection is highlighted. If begin time (T1) of selected time range is outside the current range, then time range is updated to include it         | Manual | Pass | Status bar of Eclipse is updated only for timegraph views |
| <b>7 Multiple Trace Synchronization</b> |   |   |  |        |      |   |
|   | Preparation                                 | <b>1) Download traces.zip (if necessary) and unzip into a local directory \${local}</b><br><b>2) Import kernel trace \${local}/traces/import/kernel-overlap-testing</b><br><b>3) Import UST \${local}/traces/import/trace ust-overlap-testing</b><br><b>4) Create experiment with trace of 2) in it</b> |  |        |      |   |
| 7.1                                     | Open multiple traces (no overlap)           | Open multiple traces that don't overlap in time   | View shows the last opened trace   | Manual | Pass |   |
| 7.2                                     | Change selected time and range (no overlap) | Select a time and new range   | Selected time line and time range is updated to selected time and new range.   | Manual | Pass |   |
| 7.3                                     | Select other trace (no overlap)             | Select different trace by clicking its Events editor tab  | View is updated to show selected trace. Selected time line and time range are restored to the selected trace's previously selected time and range. | Manual | Pass |   |
| 7.4                                     | Open multiple traces (overlap)              | - Open multiple traces that overlap in time<br>- For both traces, in Events table right mouse-click -> "Follow time updates from other traces"  | View shows the last opened trace   | Manual | Pass |   |
| 7.5                                     | Change selected time and range (overlap)    | Select a time and new range   | Selected time line and time range is updated to selected time and new range.   | Manual | Pass |   |
| 7.6                                     | Select other trace (overlap)                | Select different trace by clicking its Events editor tab  | View is updated to show selected trace. Selected time line and time range are set to the newly selected time and range.                            | Manual | Pass |   |
| 7.7                                     | Close all traces                            | Close all Events editor tabs  | View is cleared.   | Manual | Pass |   |
| <b>8.1 Filtering</b>                    |   |   |  |        |      |   |
|   | Preparation                                 | Open 2 LTTng Kernel Traces  |  |        |      |   |
| 8.1                                     | Apply filter (1st trace)                    | 1) Open filter dialog<br>2) Create filter<br>3) Click on OK   | Make sure that only selected processes of filter dialog are shown  | SWTBot | Pass |   |
| 8.2                                     | Apply filter (2nd trace)                    | 1) Switch to 2nd trace (keep 1st open)<br>2) Open filter dialog<br>3) Create filter<br>4) Click on OK   | Make sure that only selected processes of filter dialog are shown  | Manual | Pass |   |

|                        |                      |   |  |        |      |
|------------------------|----------------------|---|--|--------|------|
| 8.3                    | Persistent filter    | Switch between both open traces   | Make sure that previously set filter are still available | Manual | Pass |
| <b>9 Miscellaneous</b> |                      |   |  |        |      |
| 9.1                    | Restart (Bug 409345) | 1) Open LTTng Kernel Trace<br>2) Select Resource View<br>3) Restart Eclipse | Verify that Resources View is populated                  | Manual | Pass |

| Section                      | Pass   | Fail   | Type   | To Do  | Comment |
|------------------------------|--|--|--|--------|---------|
| LTTng 2.0 - Control View     | 131  | 0  | 118  | 0      | 30      |
| Target:                      | Ubuntu 14.04 64 bit<br>LTTng Tools 2.9.6, Built-in SSH |  |  |        |         |
| Step                         | Test Case  | Action   | Verification   | Type   | Comment |
| <b>0 Prerequisites</b>       |  |  |  |        |         |
|                              |  | For the tests below a Ubuntu machine with LTTng 2.0 installed (with lttng tools 2.5.x or later) is required. Make sure that the root session daemon is running (sudo lttng list -k) and have one UST process running (e.g. from lttng-tools git repository under tests/hello.cxx)<br><a href="http://wiki.eclipse.org/Lttng-Tracer_Control_User_Guide">LTTng Tracer Control User Guide: http://wiki.eclipse.org/Lttng-Tracer_Control_User_Guide: http://wiki.eclipse.org/Lttng-Tracer_Control_User_Guide</a> |  |        |         |
| 0.1                          | Set Proxy  | a) Window → Preferences → General → Network Connections<br>b) Set "Active Provider" to "Direct"  |  |        |         |
| <b>1 General</b>             |  |  |  |        |         |
| 1.1                          | Open perspective                                       | Open and reset LTTng Kernel Perspective  | LTTng Kernel perspective opens with correct Control view on the left bottom corner   | SWTBot | Pass    |
| <b>2 Manage View</b>         |  |  |  |        |         |
| 2.1                          | Close view   | Close Control View   | Control view is removed from perspective   | Manual | Pass    |
| 2.2                          | Open Control view                                      | Use menu Window → Show View → Other ... → Lttng → Control  | Verify that Control view is shown  | SWTBot | Pass    |
| <b>3 Connection Handling</b> |  |  |  |        |         |
| 3.1                          | Create Host Connection                                 | 1) Click Button 'New Connection...'<br>2) Select Tree item "Built-in SSH" and click on Create<br>3) Enter Connection Name (e.g. MyHost), enter Host Name (a DNS name or IP address), username and password<br>4) Click 'Finish'<br>5) In Tree select the newly create connection and click on 'Ok'   | Make sure that after 4) the new connection is shown in the tree. Verify that the new host is shown in the Control view (with 'Connection Name'. After Ssh connection has been established, make sure that Provider and Session nodes are created in the Control view underneath the host. Verify that all active Providers (Kernel and UST providers) are shown under the 'Provider' node. | RCPTT  | Pass    |
| 3.2                          | Disconnect   | a) Select host to disconnect and click Button 'Disconnect'<br>b) Redo test with context sensitive menu item 'Disconnect'   | Verify that icon for the corresponding node changes to the disconnect icon and all sub-nodes are removed.  | RCPTT  | Pass    |
| 3.3                          | Connect  | a) Select host to connect and click Button 'Connect'<br>b) Redo test with context sensitive menu item 'Connect'  | Verify that icon for the corresponding node changes to the connected icon and after successful SSH connection all data is retrieved form the remote host (Providers, sessions etc).  | RCPTT  | Pass    |
| 3.4                          | Select Host Connection                                 | 1) Restart Eclipse<br>2) Click Button 'New Connection...'<br>3) Select the host previously created<br>4) Select 'Ok'. (Afterwards enter user ID and Password if necessary)   | Make sure that SSH connection is established and all data is retrieved from the remote host ( Providers, sessions etc).  | RCPTT  | Pass    |
| 3.5                          | Node contexts sensitive menu (host connected)          | 1) Connect to remote host<br>2) select connected node and click right mouse button   | Verify that menu items are shown and enabled/disabled depending on state:<br>'Connect' (disabled)<br>Disconnect (enabled)<br>Refresh (enabled)<br>Delete (disabled)  | RCPTT  | Pass    |
| 3.6                          | View button enable state (host connected)              | 1) Connect to remote host (if necessary)<br>2) select connected node   | Verify enable state of view buttons:<br>'New Connection...' (enabled)<br>'Connect' (disabled)<br>'Disconnect' (enabled)<br>'Refresh' (enabled)<br>'Delete' (disabled)<br>'Start' (disabled)<br>'Stop' (disabled)<br>'Destroy Session...' (disabled)<br>'Record Snapshot' (disabled)<br>'Import...' (disabled)  | RCPTT  | Pass    |
| 3.7                          | Node contexts sensitive menu (host disconnected)       | 1) Disconnect from node<br>2) select disconnected node and click right mouse button  | Verify that menu items are shown and enabled/disabled depending on state:<br>'Connect' (enabled)<br>'Disconnect' (disabled)<br>'Refresh' (disabled)<br>'Delete' (enabled)  | RCPTT  | Pass    |
| 3.8                          | View button enable state (host connected)              | 1) Disconnect to remote host (if necessary)<br>2) select disconnected node if necessary  | Verify enable state of view buttons:<br>'New Connection...' (enabled)<br>'Connect' (enabled)<br>'Disconnect' (disabled)<br>'Refresh' (disabled)<br>'Delete' (enabled)<br>'Start' (disabled)<br>'Stop' (disabled)<br>'Destroy Session...' (disabled)<br>'Record Snapshot' (disabled)<br>'Import...' (disabled)  | RCPTT  | Pass    |

|                           |   |  |   |        |      |   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|---------------------------|---|--|---|--------|------|---|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
|                           |   | a) Select node to delete (state disconnected) and click on button 'Delete'<br>b) Redo test with context sensitive menu item 'Delete'   |   |        |      |   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 3.9                       | Delete  |  | Verify that host is removed from the control view.  | RCPTT  | Pass |   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 3.10                      | Create Host Connection with ssh port              | re-do 3.1 but this time specify a port number other than default SSH port 22   | The connection should fail (unless remote is configured for the specified port)   | RCPTT  | Pass |   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 4 Session Handling        |   |  |   |        |      |   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 4.1                       | Preparation                                       | 1) Connect to remote host  | -   |        |      |   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 4.2                       | Sessions Context Sensitive Menu                   | Select 'Sessions' in tree and click right mouse button   | Verify that menu items are shown and enabled: 'Refresh', 'Create Session...', Load...' and 'Execute Command Script ...'   | RCPTT  | Pass |   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 4.3                       | Create Session (default location)                 | 1) Click right mouse button on 'Sessions'<br>2) Select 'Create Session...' in the context sensitive menu<br>3) Enter session name 'MySession', keep 'Session Path' empty<br>4) Select 'Ok'   | Verify that new session is added under the Session tree node. Verify properties in Properties view (by selecting the session in the Control view):<br>'Session name' (=MySession)<br>'Session Path' (=home/<user>/traces/MySession_<date and time>) and 'State' (=INACTIVE)                                 | SWTBot | Pass |   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 4.4                       | Create Session (custom location)                  | 1) Click right mouse button on 'Sessions'<br>2) Select 'Create Session...' in the context sensitive menu<br>3) Enter session name 'MyOtherSession'<br>4) enter custom path (/tmp/myTraces) for 'Session Path'<br>5) Select 'Ok'  | Verify that new session is added under the Session tree node. Verify properties in Properties view (by selecting the session in the Control view):<br>'Session name' (=MyOtherSession)<br>'Session Path' (=tmp/myTraces) and 'State' (=INACTIVE)  | RCPTT  | Pass |   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 4.5                       | Create Session - session already exists in GUI    | 1) Click right mouse button on 'Sessions'<br>2) Select 'Create Session...' in the context sensitive menu<br>3) Enter session name 'MySession', keep 'Session Path' empty   | Make sure that an error message appears in the message area of the dialog box with information that session 'MySession' already exists in the tree.   | RCPTT  | Pass |   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 4.6                       | Create Session - session already exists on node   | 1) login to the remote host using a command shell<br>2) type lttng create newSession and press enter. This will create a session which is not know by the Control view.<br>3) Click right mouse button on 'Sessions'<br>4) Select 'Create Session...' in the context sensitive menu<br>5) Enter session name 'newSession', keep 'Session Path' empty<br>6) Select 'Ok' | Verify that an error dialog box will show with information that command to create a session failed, session already exists on the node. Select 'Details': Verify that the command error detail is shown (with return value (28))  | RCPTT  | Pass | 30 seconds pause in the test to create manually a session on the host |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 4.7                       | Session Context Sensitive menu (session inactive) | Select newly created session and click right mouse button  | Verify context sensitive menu items:<br>'Refresh' (enabled)<br>'Start' (enabled)<br>'Stop' (disabled)<br>'Destroy Session...' (enabled)<br>'Import...' (enabled)<br>'Save...' (enabled)<br>'Enable Channel...' (enabled)<br>'Enable Event (default channel)...' (enabled)<br>'Record Snapshot' (disabled)   | RCPTT  | Pass |   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 4.8                       | View button enable state (session inactive)       | Select newly created session (enable an event before)  | Verify enable state of view buttons:<br>'New Connection...' (enabled)<br>'Connect' (disabled)<br>'Disconnect' (disabled)<br>'Refresh' (enabled)<br>'Delete' (disabled)<br>'Start' (enabled)<br>'Stop' (disabled)<br>'Destroy Session...' (enabled)<br>'Import...' (enabled)<br>'Record Snapshot' (disabled) | RCPTT  | Pass |   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 4.9                       | Start Session                                     | a) Enable an event<br>b) Select session and click on button 'Start'<br>c) Redo test with context sensitive menu item 'Start'   | Verify that Session icon changes to 'ACTIVE' icon. Verify that property view shows 'ACTIVE' for the session state   | SWTBot | Pass |   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 4.10                      | Session Context Sensitive menu (session active)   | Select started session and click right mouse button  | Verify context sensitive menu items:<br>'Refresh' (enabled)<br>'Start' (disabled)<br>'Stop' (enabled)<br>'Destroy Session...' (disabled)<br>'Import...' (disabled)<br>'Enable Channel...' (disabled)<br>'Enable Event (default channel)...' (disabled)  | RCPTT  | Pass |   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 4.11                      | View button enable state (session active)         | Select started session   | Verify enable state of view buttons:<br>'New Connection...' (enabled)<br>'Connect' (disabled)<br>'Disconnect' (disabled)<br>'Refresh' (enabled)<br>'Delete' (disabled)<br>'Start' (disabled)<br>'Stop' (enabled)<br>'Destroy Session...' (disabled)<br>'Import...' (disabled)                               | RCPTT  | Pass |   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 4.12                      | Destroy Session                                   | 1) In the Control view select session 'MyOtherSession'<br>2) Click right mouse button<br>3) select 'Destroy Session...' in the context sensitive menu<br>4) Select 'Ok' in the confirmation dialog box   | Verify that session is removed from the control view.   | SWTBot | Pass |   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 5 Kernel Channel Handling |   |  |   |        |      |   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

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|--------------------------------|--|---|---|--------|------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| 5.1                            | Preparation  | 1) Connect to remote host<br>2) Create new Session 'MyOtherSession'   | -   |        |      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 5.2                            | Enable Channel on session level (default values)       | 1) Select session and right mouse click<br>2) Select menu item 'Enable Channel...'<br>3) Enter Channel name (e.g. myChannel) and keep default values<br>4) Select Kernel<br>5) Click on 'Ok'  | Verify that domain 'Kernel' is created under session and channel is added under the domain. Verify that default values for the channel are displayed in the Properties view after selecting the channel in the tree.  | RCPTT  | Pass |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 5.3                            | Enable Channel on domain level (changed values)        | 1) Select domain 'Kernel' and right mouse click<br>2) Select menu item 'Enable Channel...'<br>3) Enter Channel name (e.g. MyOtherChannel)<br>4) Change values<br>5) Click on 'Ok'   | Verify that channel is added under the domain. Verify that correct values for the channel are displayed in the Properties view after selecting the channel in the tree.   | RCPTT  | Pass |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 5.4                            | Enable Channel – channel already exists                | 1) Select domain 'Kernel' and right mouse click<br>2) Select menu item 'Enable Channel'<br>3) Enter Channel name (e.g. MyOtherChannel) and keep default values<br>4) Click on 'Ok'  | Verify that error dialog box is opened notifying that channel already exists.   | RCPTT  | Pass |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 5.5                            | Domain Context Sensitive menu                          | Select domain 'Kernel' and click right mouse button   | Verify context sensitive menu items:<br>'Refresh' (enabled)<br>'Enable Channel...' (enabled)<br>'Enable Event (default channel)...' (enabled)<br>'Add Context...' (enabled)   | RCPTT  | Pass |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 5.6                            | Channel Context Sensitive menu                         | Select channel 'MyChannel' and click right mouse button   | Verify context sensitive menu items:<br>'Refresh' (enabled)<br>'Enable Channel' (disabled)<br>'Disable Channel' (enabled)<br>'Enable Event (default channel)...' (enabled)<br>'Add Context...' (enabled)  | RCPTT  | Pass |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 5.7                            | Disable Channel  | 1) Select channel 'MyChannel' and click right mouse button<br>2) Select 'Disable' menu item   | Verify that channel is disabled (disabled channel icon shown, state DISABLED shown in Properties view, menu item 'Disable' is disabled and menu item 'Enable' is enabled)   | RCPTT  | Pass |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 5.8                            | Enable Channel   | 1) Select channel 'MyChannel' and click right mouse button 2) Select 'Enable' menu item   | Verify that channel is enabled (enabled channel icon shown, state ENABLED shown in Properties view, menu item 'Disable' is enabled and menu item 'Enable' is disabled)  | RCPTT  | Pass |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| <b>6 UST Channel Handling</b>  |  |   |   |        |      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 6.1                            | Enable Channel on session level (default values)       | 1) Select session and right mouse click<br>2) Select menu item 'Enable Channel...'<br>3) Enter Channel name 'MyChannel'<br>4) Select UST<br>5) Click on Button 'Default'<br>5) Click on 'Ok'  | Verify that domain 'UST global' is created under session and channel is added under the domain. Verify that default values for the channel are displayed in the Properties view after selecting the channel in the tree.  | SWTBot | Pass |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 6.2                            | Enable/Disable Channel                                 | Redo tests 5.7 and 5.8 with UST channel   | See 5.7/5.8   | RCPTT  | Pass |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| <b>7 Kernel Event Handling</b> |  |   |   |        |      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 7.1                            | Enable Event on session level (all tracepoints)        | 1) Select session and click right mouse button<br>2) Select menu item 'Enable Events (default channel)...'<br>3) Select 'Kernel'<br>4) Select Radio button for 'Tracepoint Events'<br>5) Select top level tree node 'All'<br>6) Click on Ok   | Verify that default channel (channel0) is create under domain 'Kernel' and that all tracepoint events are added under the channel with state ENABLED. Verify properties view show correct values when selecting a event in the tree (Event Type=TRACEPOINT, State=ENABLED)      | SWTBot | Pass |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 7.2                            | Enable Event on domain level (syscalls)                | 1) Select domain Kernel and click right mouse button<br>2) Select menu item 'Enable Events (default channel)...'<br>3) Select 'Kernel'<br>4) Select Radio button for 'All Syscalls'<br>5) Click on Ok   | Verify that event with name syscalls is added under the default channel (channel0) with state ENABLED. Verify properties view show correct values when selecting a event in the tree (Event Type=SYSCALL, State=ENABLED)  | SWTBot | Pass |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 7.3                            | Enable Event on Channel level (Dynamic Probe)          | 1) Select a channel (e.g. channel0) and click right mouse button<br>2) Select menu item 'Enable Events...'<br>3) Select Radio button for 'Dynamic Probe'<br>4) Enter Event Name 'MyEvent' and Probe (e.g. 0xc0101280, see file /boot/System.map-kernel version*, valid symbols have T or t as type, i used 'backtrace_stack' for example)<br>5) Click on Ok | Verify that event with name 'MyEvent' is added under the respective channel with state ENABLED. Verify properties view show correct values when selecting a event in the tree (Event Type=Probe, State=ENABLED, Address=0xc0101280, Event Name=MyEvent)                         | RCPTT  | Pass |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Command to change state of events failed<br>Command failed! Command: lttng -mi xml enable-event MyEvent -k -s auto-20160607-005527 -c sdf -probe 0xfffff820a25f5<br>Error Output:<br>Error: Event MyEvent: Enable kernel event failed (channel sdf, session auto-20160607-005527)<br>Return Value: 43<br><?xml version="1.0" encoding="UTF-8"?><br><command xmlns="http://lttng.org/xml/ns/lttng-mi" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xsi:schemaLocation="http://lttng.org/xml/ns/lttng-mi http://lttng.org/xml/ns/lttng-mi" /> |
| 7.4                            | Enable Event on Channel level (Dynamic Function Probe) | 1) Select a channel (e.g. channel0) and click right mouse button<br>2) Select menu item 'Enable Events...'<br>3) Select Radio button for 'Dynamic Function Entry/Return Probe'<br>4) Enter Event Name 'MyOtherEvent' and Probe (e.g. create_dev, see file /proc/kallsyms or /boot/System.map-kernel version*)<br>5) Click on Ok                             | Verify that event with name 'MyOtherEvent' is added under the respective channel with state ENABLED. Verify properties view show correct values when selecting a event in the tree (Event Type=Function, State=ENABLED, Symbol=create_dev, Offset=0x0, Event Name=MyOtherEvent) | RCPTT  | Pass |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Command to change state of events failed<br>Command failed! Command: lttng -mi xml enable-event bob -k -s MyOtherSession -function create_dev<br>Error Output:<br>Error: Event bob: Non-default channel exists within session: channel name needs to be specified with '-c name' (channel <default>, session MyOtherSession)<br>Return Value: 63<br><?xml version="1.0" encoding="UTF-8"?><br><command<name>enable-event</name><output><events><event<name>bob</name><type>FUNCTION</type><enabled>false</enabled></filter>false</filter></>         |
| 7.5                            | Disable Event  | 1) Select multiple events (tracepoint events) under a channel (not syscalls) and click right mouse button<br>2) Select 'Disable' menu item  | Verify that all selected events are disabled (disabled event icon is shown, state DISABLED is shown in Properties view, menu item 'Disable' is disabled and menu item 'Enable' is enabled)  | RCPTT  | Pass |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Note: Disable and Enable menu item is only enabled for events of the same type, all tracepoints or all sys calls. For function and dynamic probe the user has to enable each separately.   |
| 7.6                            | Enable Event (tracepoint events)                       | 1) Select multiple disabled events and click right mouse button<br>2) Select 'Enable' menu item   | Verify that selected events are enabled (enabled event icon is shown, state ENABLED is shown in Properties view, menu item 'Disable' is enabled and menu item 'Enable' is disabled)   | RCPTT  | Pass |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Note: Disable and Enable menu item is only enabled for events of the same type, all tracepoints or all sys calls. For function and dynamic probe the user has to enable each separately.   |
| 7.7                            | Enable Event (probe events)                            | 1) Select a probe event (function or dynamic probe) disabled events and click right mouse button<br>2) Select 'Enable' menu item  | Verify that selected events are enabled (enabled event icon is shown, state ENABLED is shown in Properties view, menu item 'Disable' is enabled and menu item 'Enable' is disabled)   | RCPTT  | Pass |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

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|---|---|--|---|--------|------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|------------|
| 7.8                                     | Enable Tracepoint Event using filter in tree (Bug 450526) | <ol style="list-style-type: none"> <li>1) Create Session</li> <li>2) Select session, right-mouse click and select 'Enable Events (default channel)'</li> <li>3) Enter a filter (e.g. sched) for the tracepoint tree and then select All</li> <li>4) Click on Ok</li> </ol>   | Verify that only the selected tracepoints (filtered) are enabled and not all kernel tracepoints   | RCPTT  | Pass |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |            |
| <b>8 UST Event Handling</b>             |   |  |   |        |      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |            |
| 8.1                                     | Enable Event on session level (all tracepoints)           | <ol style="list-style-type: none"> <li>1) Select session and click right mouse button</li> <li>2) Select menu item 'Enable Events (default channel)...'</li> <li>3) Select 'UST'</li> <li>4) Select Radio button for 'Tracepoint Events'</li> <li>5) Select top level tree node 'All'</li> <li>6) Click on Ok</li> </ol>   | Verify that default channel (channel0) is create under domain 'UST global' and that a wildcard event '*' is create under the channel with state ENABLED. Verify properties view show correct values when selecting a event in the tree (Event Type=TRACEPOINT, State=ENABLED) | RCPTT  | Pass |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |            |
| 8.2                                     | Enable Event on domain level (wildcards)                  | <ol style="list-style-type: none"> <li>1) Select domain 'UST global' and click right mouse button</li> <li>2) Select menu item 'Enable Events (default channel)...'</li> <li>3) Select Radio button for 'Wildcard'</li> <li>4) Enter a wildcard (e.g. ust*)</li> <li>5) Click on Ok</li> </ol>   | Verify that event with wildcard name (e.g ust*) is added under the default channel (channel0) with state ENABLED. Verify properties view show correct values when selecting a event in the tree (Event Type=TRACEPOINT, State=ENABLED)  | RCPTT  | Pass |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |            |
| 8.3                                     | Enable Event on Channel level (log level)                 | <ol style="list-style-type: none"> <li>1) Select a channel (create if necessary) and click right mouse button</li> <li>2) Select menu item 'Enable Events...'</li> <li>3) Select Radio button for 'Log Level'</li> <li>4) Enter Event Name 'MyEvent'</li> <li>5) Select log level TRACE_ERR</li> <li>6) Select radio button for loglevel</li> <li>7) Click on Ok</li> </ol>            | Verify that event with name 'MyEvent' is added under the respective channel with state ENABLED. Verify properties view show correct values when selecting a event in the tree (Event Type=TRACEPOINT, State=ENABLED, Log Level==TRACE_ERR, Event Name=MyEvent)                | SWTBot | Pass |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Note: In LTTng backend v2.4 and later provide information if a loglevel is for a range (e.g. <= TRACE_ERR) This will be displayed by the properties view now         |            |
| 8.4                                     | Enable Event on Channel level (log level oty)             | <ol style="list-style-type: none"> <li>1) Select a channel (create if necessary) and click right mouse button</li> <li>2) Select menu item 'Enable Events...'</li> <li>3) Select Radio button for 'Log Level'</li> <li>4) Enter Event Name 'MyOtherEvent'</li> <li>5) Select log level TRACE_INFO</li> <li>6) Select radio button for loglevel-only</li> <li>7) Click on Ok</li> </ol> | Verify that event with name 'MyOtherEvent' is added under the respective channel with state ENABLED. Verify properties view show correct values when selecting a event in the tree (Event Type=TRACEPOINT, State=ENABLED, Log Level==TRACE_INFO, Event Name=MyOtherEvent).    | RCPTT  | Pass |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Note: In LTTng backend v2.4 and later provide information if a loglevel is for a single level (e.g. == TRACE_INFO) This will be displayed by the properties view now |            |
| 8.5                                     | Enable/Disable Event (tracepoint events)                  | Redo tests 7.5 and 7.6 with UST tracepoint events  | See 7.5/7.6   | RCPTT  | Pass |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |            |
| 8.6                                     | Enable/Disable Event (tracepoint events)                  | Redo tests 7.5 and 7.6 with UST (loglevel/loglevel-only) events  | See 7.5/7.6   | RCPTT  | Pass |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |            |
| 8.7                                     | Enable Tracepoint Event using filter in tree (Bug 450526) | <ol style="list-style-type: none"> <li>1) Create Session</li> <li>2) Select session, right-mouse click and select 'Enable Events (default channel)'</li> <li>3) Enter filter for the tracepoint tree and then select All</li> <li>4) Click on Ok</li> </ol>  | Verify that only the selected trace points (filtered) are enabled and not all UST trace points  | RCPTT  | Pass |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |            |
| 8.8                                     | Enable Event by name                                      | <ol style="list-style-type: none"> <li>1) Create Session</li> <li>2) Select session, right-mouse click and select 'Enable Events (default channel)'</li> <li>3) Select Tracepoints</li> <li>4) Enter list of names (comma-separated) in text box</li> <li>5) Click on Ok</li> </ol>  | Verify that events entered in the comma-separated list are added to the tree  | SWTBot | Pass |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |            |
| <b>9 Contexts Handling</b>              |   |  |   |        |      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |            |
| 9.1                                     | Add Context (to channel)                                  | <ol style="list-style-type: none"> <li>1) Select kernel channel and click right mouse button</li> <li>2) Select menu item 'Add Contexts...'</li> <li>3) Expand tree and select some contexts (e.g prio, procname, pid)</li> <li>4) Click on 'Ok'</li> </ol>  | Verify that command is successful (no error).<br>NOTE: There is no way to retrieve added contexts from the trace. Therefore GUI cannot display this information.  | RCPTT  | Pass |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |            |
| 9.2                                     | Add Context (to channel)                                  | <ol style="list-style-type: none"> <li>1) Select UST channel and click right mouse button</li> <li>2) Select menu item 'Add Contexts...'</li> <li>3) Expand tree and select contexts procname, pthread_id, vpid and vtid</li> <li>4) Click on 'Ok'</li> </ol>  | Verify that command is successful (no error).<br>NOTE 1: There is no way to retrieve added contexts from the trace. Therefore GUI cannot display this information.<br>NOTE2: For UST only contexts procname, pthread_id, vpid and vtid are supported                          | RCPTT  | Pass |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |            |
| 9.3                                     | Add Context (to event)                                    | <ol style="list-style-type: none"> <li>1) Select 1 Kernel tracepoint event and click right mouse button</li> <li>2) Select menu item 'Add Contexts...'</li> <li>3) Expand tree and select some contexts (e.g prio, procname, pid)</li> <li>4) Click on 'Ok'</li> </ol> <p>Note: only when using LTTng Tools 2.0.x - 2.1.x. For v2.2 or later this menu item has to be disabled</p>     | Verify that command is successful (no error).<br>NOTE: There is no way to retrieve added contexts from the trace. Therefore GUI cannot display this information.  | SWTBot | Pass |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | DEPRECATED |
| <b>10 Enable Events (from Provider)</b> |   |  |   |        |      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |            |
| 10.1                                    | Enable Kernel Events                                      | <ol style="list-style-type: none"> <li>1) Create a new session</li> <li>2) Select multiple Kernel Tracepoint events under Providers → Kernel</li> <li>3) click right mouse button</li> <li>4) select menu item 'Enable Event...'</li> <li>5) Select newly created session</li> <li>6) Select 'Ok'</li> </ol>   | Verify that domain 'Kernel' is created under the new session. Verify that default channel 'channel0' is created under the domain. Verify that selected events are added under the channel and are ENABLED.  | RCPTT  | Pass |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |            |



|                                       |                                  |   |  |        |      |  |  |  |  |  |  |  |  |  |  |  |  |
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| 10.2                                  | Enable UST Events                | <p>1) Make sure that UST application is running on remote host (see step 0)<br/>                 2) Create a new session<br/>                 3) Create a channel under domain 'UST global'<br/>                 4) Select multiple UST Tracepoint events under Providers -&gt; &lt;UST Process&gt;<br/>                 5) click right mouse button<br/>                 6) select menu item 'Enable Event...'<br/>                 7) Select newly created session<br/>                 8) Select newly created channel<br/>                 9) Select 'OK'</p> | Verify that selected events are added under the selected channel and are ENABLED.  | RCPTT  | Pass |  |  |  |  |  |  |  |  |  |  |  |  |
| <b>11 Importing to Project</b>        |                                  |   |  |        |      |  |  |  |  |  |  |  |  |  |  |  |  |
| 11.1                                  | Preparation                      | <p>1) Create new session<br/>                 2) Enable all Kernel Tracepoint events<br/>                 3) Enable all Kernel sycalls<br/>                 4) Enable all UST events<br/>                 5) Start Tracing<br/>                 6) Stop Tracing after a few seconds<br/>                 7) Create new Tracing Project</p>  |  |        |      |  |  |  |  |  |  |  |  |  |  |  |  |
| 11.2                                  | Import to project                | <p>1) Select session from 11.1 and click right mouse button<br/>                 2) Select 'Import...'<br/>                 3) Select OK</p>  | <p>After 2 verify that all traces are selected by default and also that the tracing project with name 'Remote' is selected.</p> <p>Verify that during import a progress dialog is opened to show the progress of the import operation.</p> <p>Verify that traces are imported to the project with name Remote and its 'Traces' folder. Verify that for the kernel trace the trace type 'LTTng Kernel Trace' is set and for the UST traces the trace type 'LTTng UST Trace' is set.</p> <p>Create Experiment, select all traces and open Experiment. Make sure that all view are populated correctly in the LTTng Kernel Perspective.</p> | RCPTT  | Pass | Experiment not tested with populated views |  |  |  |  |  |  |  |  |  |  |  |
| 11.3                                  | Import to project (Override)     | <p>1) Repeat step 1 – 3 of test case 11.2<br/>                 2) In dialog box select 'Override' (kernel trace)<br/>                 3) In dialog box select 'Override' (UST trace, re-do if more than 1 UST trace)</p>  | Verify that traces are imported and existing traces are overwritten  | SWTBot | Pass | Tested with Remote Fetching 8.6            |  |  |  |  |  |  |  |  |  |  |  |
| 11.4                                  | Import to project (Override All) | <p>1) Repeat step 1 – 3 of test case 11.2<br/>                 2) In dialog box select 'Override All'</p>   | Confirmation dialog only shows once. Verify that traces are imported and existing traces are overwritten   | RCPTT  | Pass | Hard to be sure that the overwrite worked  |  |  |  |  |  |  |  |  |  |  |  |
| 11.5                                  | Import to project (Rename)       | <p>1) Repeat step 1 – 3 of test case 11.2<br/>                 2) In dialog box select 'Rename' (kernel trace)<br/>                 3) In dialog box select 'Rename' (UST trace, re-do if more than 1 UST trace)</p>  | Verify that traces are imported with a different name  | SWTBot | Pass | Tested with Remote Fetching 8.5            |  |  |  |  |  |  |  |  |  |  |  |
| 11.6                                  | Import to project (Rename All)   | <p>1) Repeat step 1 – 3 of test case 11.2<br/>                 2) In dialog box select 'Rename All'</p>   | Confirmation dialog only shows once. Verify that all traces are imported with a different name   | RCPTT  | Pass |  |  |  |  |  |  |  |  |  |  |  |  |
| 11.7                                  | Import to project (Skip)         | <p>1) Repeat step 1 – 3 of test case 11.2<br/>                 2) In dialog box select 'Skip' (kernel trace)<br/>                 3) In dialog box select 'Skip' (UST trace, re-do if more than 1 UST trace)</p>  | Verify that each skipped trace is not imported   | SWTBot | Pass | Tested with Remote Fetching 8.7            |  |  |  |  |  |  |  |  |  |  |  |
| 11.8                                  | Import to project (Skip All)     | <p>1) Repeat step 1 – 3 of test case 11.2<br/>                 2) In dialog box select 'Skip All'</p>   | Confirmation dialog only shows once. Verify that all traces are skipped  | RCPTT  | Pass | Hard to be sure that the skip worked       |  |  |  |  |  |  |  |  |  |  |  |
| <b>12 Refresh</b>                     |                                  |   |  |        |      |  |  |  |  |  |  |  |  |  |  |  |  |
| 12.1                                  | Refresh                          | Press refresh button and context sensitive menu item for different selections   | Verify that the Control View is refreshed.   | Manual | Pass | Should have an accelerator like f5         |  |  |  |  |  |  |  |  |  |  |  |
| <b>14 Event Filtering (LTTng 2.1)</b> |                                  |   |  |        |      |  |  |  |  |  |  |  |  |  |  |  |  |
| 14.1                                  |                                  | For the tests below a Ubuntu machine with LTTng 2.1 installed (with lttng tools 2.1.x) is required. Either create a VM machine yourself (e.g. on Virtualbox) or install it locally on your native Ubuntu (if correct version). Make sure that the root session daemon is running (sudo lttng list -k) and have one UST process running (e.g. from lttng-tools git repository under tests/hello.cxx)   |  |        |      |  |  |  |  |  |  |  |  |  |  |  |  |
| 14.2                                  | Preparation                      | <p>1) Connect to remote host<br/>                 2) Create new Session 'FilterSession'</p>   |  |        |      |  |  |  |  |  |  |  |  |  |  |  |  |

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| 14.3   | Enable UST Event on session level  | <ol style="list-style-type: none"> <li>1) Select session and click right mouse button</li> <li>2) Select menu item 'Enable Events (default channel)...'</li> <li>3) Select 'UST'</li> <li>4) Select Radio button for 'Tracepoint Events'</li> <li>5) Select one tracepoint</li> <li>6) Enter filter expression on an event field</li> <li>7) Click on 'Ok'</li> </ol>   | <p>Verify that default channel (channel0) is create under domain 'UST global' and that the corresponding event is created under the channel with state ENABLED.</p> <p>Verify that Properties view shows correct values for this event (Event Type=TRACEPOINT, State=ENABLED, Filter=with filter, Filter=the actual expression in LTTng 2.8 +)</p>  | RCPTT  | Pass |                            |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 14.4   | Enable UST Event from provider   | <ol style="list-style-type: none"> <li>1) Execute 14.3</li> <li>2) Select one UST Tracepoint event under Providers -&gt; &lt;UST Process&gt;</li> <li>3) click right mouse button</li> <li>4) select menu item 'Enable Event...'</li> <li>5) Select newly create session and channel</li> <li>6) Enter filter expression on an event field</li> <li>7) Click on 'Ok'</li> </ol>                                   | <p>Verify that selected event is added under the selected channel.</p> <p>Verify that Properties view shows correct values for this event (Event Type=TRACEPOINT, State=ENABLED, Filter=with filter, Filter=the actual expression in LTTng 2.8 +)</p>   | RCPTT  | Pass |                            |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 14.5   | Create trace   | <ol style="list-style-type: none"> <li>1) Start Tracing</li> <li>2) Stop Tracing after a view seconds</li> <li>3) Import Trace to Project</li> <li>4) Open Trace</li> <li>5) Destroy Session</li> </ol>   | Make sure that only events are shown in the events table that met the condition in the filter expressions   | Manual | Pass |                            |  |  |  |  |  |  |  |  |  |  |  |  |  |
| <b>15 Create Session With Advanced Options LTTng v2.1)</b> |  |   |   |        |      |                            |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 15.1   |  | For the tests below a Ubuntu machine with LTTng 2.1 installed (with lttng tools 2.1.x) is required. Either create a VM machine yourself (e.g. on Virtualbox) or install it locally on your native Ubuntu (if correct version). Make sure that the root session daemon is running (sudo lttng list -k) and have one UST process running (e.g. from lttng-tools git repository under tests/hello.cxx)               |   |        |      |                            |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 15.2   | Create Session Dialog - Advanced Button  | <ol style="list-style-type: none"> <li>1) Open Create Session Dialog box</li> <li>2) Select "Advanced &gt;&gt;&gt;"</li> <li>3) Select "&lt;&lt;&lt; Basic"</li> </ol>  | <p>After 2) verify that advanced options are shown (e.g. Trace Path, Protocol, Address and Port)</p> <p>After 3) verify that advanced option are not shown and only basic options are there (Session Name and Session Path)</p>   | RCPTT  | Pass |                            |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 15.3   | Create Session Dialog - Check box "Use same protocol and address for data and control" | <ol style="list-style-type: none"> <li>1) Open Create Session Dialog box and select "Advanced &gt;&gt;&gt;"</li> <li>2) Uncheck checkbox "Use same protocol and address for data and control"</li> <li>3) Check checkbox "Use same protocol and address for data and control"</li> </ol>  | <p>After 2) verify that data Protocol and data Address is enabled. Note that the ports cannot be configured for net and net6 when this button is unchecked. -&gt; port text fields are disabled</p> <p>After 3) Verify that data Protocol and data Address are disabled</p>   | RCPTT  | Pass |                            |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 15.4   | Create Session Dialog - Protocol list  | <ol style="list-style-type: none"> <li>1) Open Create Session Dialog box and select "Advanced &gt;&gt;&gt;"</li> </ol>  | Verify that the Control protocol dropdown menu shows net, net6 and file   | RCPTT  | Pass |                            |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 15.5   | Create Session Dialog - Protocol list 2  | <ol style="list-style-type: none"> <li>1) Open Create Session Dialog box and select "Advanced &gt;&gt;&gt;"</li> <li>2) Uncheck checkbox "Use same protocol and address for data and control"</li> </ol>  | After 2) verify that the data protocol dropdown menu shows net, net6, tcp and tcp6  | RCPTT  | Pass |                            |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 15.6   | Create Session Dialog - Protocol propagation   | <ol style="list-style-type: none"> <li>1) Open Create Session Dialog box, select "Advanced &gt;&gt;&gt;"</li> <li>2) Select net6 for Control Protocol</li> <li>3) Select file for Control Protocol</li> </ol>   | <p>After 2) verify that net6 is propagated to the data protocol and that the data and control port text fields are enabled</p> <p>After 3) verify that file is propagated to the data protocol and that the data and control port text fields are disabled.</p>   | RCPTT  | Pass |                            |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 15.7   | Create Session Dialog - Address propagation  | <ol style="list-style-type: none"> <li>1) Open Create Session Dialog box, select "Advanced &gt;&gt;&gt;"</li> <li>2) Enter IP address in Control address</li> </ol>   | After 2) verify that the IP address is propagated to the data address field   | RCPTT  | Pass |                            |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 15.8   | Create Session Dialog - Protocol propagation 2   | <ol style="list-style-type: none"> <li>1) Open Create Session Dialog box and select "Advanced &gt;&gt;&gt;"</li> <li>2) Uncheck checkbox "Use same protocol and address for data and control"</li> <li>3) Select tcp for control protocol and tcp6 for data protocol</li> <li>4) Check checkbox "Use same protocol and address for data and control"</li> </ol>   | After 4) make sure that both data and control protocol show net   | RCPTT  | Pass |                            |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 15.9   | Create trace with file protocol  | <ol style="list-style-type: none"> <li>1) Open Create Session Dialog box and select "Advanced &gt;&gt;&gt;"</li> <li>2) Enter session name, select file protocol and enter directory /tmp/testTraces/ in address field and press ok</li> <li>3) Enable events, start tracing, wait for a few seconds, stop tracing</li> <li>4) Import traces to a existing tracing project</li> <li>5) Destroy session</li> </ol> | <p>Verify that the traces are stored on the remote host under /tmp/testTraces/kernel and /tmp/testTraces/ust/&lt;application(s)&gt; respectively.</p> <p>After 2) make sure that the Session Path in the Property View shows the URL with the configured parameters</p> <p>Verify that the remote import dialog box opens at step 4 (as described in test cases 11.x) and it is possible to transfer the traces to the tracing project.</p> | RCPTT  | Pass | Need a human to fully test |  |  |  |  |  |  |  |  |  |  |  |  |  |

|                       |  |  |   |        |      |   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
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| 15.10                 | Create trace with file protocol and trace path           | <p>1) Open Create Session Dialog box and select "Advanced &gt;&gt;&gt;"</p> <p>2) Enter session name, select file protocol and enter directory /tmp/traceTraces/ in address field, enter /newPath in "Trace Path" text field and press ok</p> <p>3) Enable events, start tracing, wait for a few seconds, stop tracing</p> <p>4) Import traces to a existing tracing project</p> <p>5) Destroy session</p>   | <p>Verify that the traces are stored on the remote host under /tmp/testTraces/newPath/kernel and /tmp/testTraces/newPath/ust/application(s) respectively.</p> <p>After 3) make sure that the Session Path in the Property View shows the URL with the configured parameters</p> <p>Verify that the remote import dialog box opens at step 4 (as described in test cases 11.x) and it is possible to transfer the traces to the tracing project.</p>   | RCPTT  | Pass | Need a human to fully test                              |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 15.11                 | Create trace with net protocol                           | <p>1) Start relayd on Eclipse local machine (default settings: lttng-relayd)</p> <p>2) Open Create Session Dialog box and select "Advanced &gt;&gt;&gt;"</p> <p>3) Enter session name, select net protocol and enter IP address of Eclipse local machine in address field and press ok</p> <p>4) Enable events, start tracing, wait for a few seconds, stop tracing</p> <p>5) Import traces to a existing tracing project</p> <p>6) Destroy session</p>  | <p>Verify that the traces are stored on the Eclipse local machine under /home/&lt;user name&gt;/ltnng-traces/&lt;remote machine name&gt;/&lt;session name + date&gt;/kernel and /home/&lt;user name&gt;/ltnng-traces/&lt;remote machine name&gt;/&lt;session name + date&gt;/ust/application(s) respectively.</p> <p>After 3) make sure that the Session Path in the Property View shows the URL with the configured parameters</p> <p>After 5) Verify that dialog box for selecting a tracing project is opened that after selecting a project and pressing next the default trace import wizard opens. Then verify that it is possible to transfer the traces to the tracing project.</p> | Manual | Pass |   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 15.12                 | Create trace with tcp protocol and port                  | <p>1) Uncheck checkbox "Use same protocol and address for data and control"</p> <p>2) Start relayd on Eclipse local machine with specified ports (lttng-relayd -C tcp://0.0.0.0:1234 -D tcp://0.0.0.0:5678)</p> <p>3) Open Create Session Dialog box and select "Advanced &gt;&gt;&gt;"</p> <p>4) Enter session name, select tcp protocol and enter IP address of Eclipse local machine in address field, specify data and control ports and press ok</p> <p>5) Enable events, start tracing, wait for a few seconds, stop tracing</p> <p>6) Import traces to a existing tracing project</p> <p>7) Destroy session</p> | <p>Verify that the traces are stored on the Eclipse local machine under /home/&lt;user name&gt;/ltnng-traces/&lt;remote machine name&gt;/&lt;session name + date&gt;/kernel and /home/&lt;user name&gt;/ltnng-traces/&lt;remote machine name&gt;/&lt;session name + date&gt;/ust/application(s) respectively.</p> <p>After 4) make sure that the Session Path in the Property View shows the URL with the configured parameters</p> <p>After 6) Verify that dialog box for selecting a tracing project is opened that after selecting a project and pressing next the default trace import wizard opens. Then verify that it is possible to transfer the traces to the tracing project.</p> | Manual | Pass |   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 15.13                 | Live Streaming Session (UST) - Initial Implementation    | <p>1) Start relayd on Eclipse local machine (default settings: lttng-relayd)</p> <p>2) Select Live Mode</p> <p>3) Open Create Session Dialog box and select "Advanced &gt;&gt;&gt;"</p> <p>4) Enter session name, select net protocol and enter IP address of Eclipse local machine in address field, keep defaults for Live Connection and Live Delay, and press ok</p> <p>5) Enable UST events (per UID channel), start tracing, wait for a few seconds, stop tracing</p> <p>6) Import traces to a existing tracing project</p> <p>7) Destroy session</p>  | <p>Verify that session is created successfully. Verify that after 6) the trace appears in the Traces directory of Remoter project. Verify that relevants views are updated when new data arrives</p>  | SWTBot | Pass | Implementation disabled for 2.0                         |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 15.14                 | Live Streaming Session (Kernel) - Initial Implementation | <p>1) Start relayd on Eclipse local machine (default settings: lttng-relayd)</p> <p>2) Select Live Mode</p> <p>3) Open Create Session Dialog box and select "Advanced &gt;&gt;&gt;"</p> <p>4) Enter session name, select net protocol and enter IP address of Eclipse local machine in address field, keep defaults for Live Connection and Live Delay, and press ok</p> <p>5) Enable Kernel events, start tracing, wait for a few seconds, stop tracing</p> <p>6) Import traces to a existing tracing project</p> <p>7) Destroy session</p>   | <p>Verify that session is created successfully. Verify that after 6) the trace appears in the Traces directory of Remoter project. Verify that relevants views are updated when new data arrives</p>  | SWTBot | Pass | Implementation disabled for 2.0                         |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| <b>16 Preferences</b> |  |  |   |        |      |   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 16.1                  | Open Preference Dialog                                   | Open Preferences (Menu -> Preferences -> Tracing -> LTTng Tracer Control Preferences)  | Verify that tracer control preferences exists and shows Tracing Group, Logging, Log File (always disabled), Append, Verbose Level (None, Level 1, Level2 Level 3)   | RCPTT  | Pass |   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 16.2                  | Enable Logging   | In Tracer Control Pferences, check checkbox Logging  | Verbose Level radio buttons will be enabled   | RCPTT  | Pass |   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 16.3                  | Disable Logging  | In Tracer Control Pferences, uncheck checkbox Logging  | Verbose Level radio buttons will be disabled  | RCPTT  | Pass |   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 16.4                  | Test Logging level none                                  | Execute 16.2 and execute some commands (e.g. create session, enable event)   | Make sure that log file is created and contains the executed commands and command replies   | RCPTT  | Pass |   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 16.5                  | Test Verbose Logging (Level 1)                           | <p>1) Execute 16.2</p> <p>2) select verbose level Level 1</p> <p>3) Execute some commands (e.g. create session, enable event)</p>  | Make sure that log file contains the executed commands with -v option (e.g. lttng -v create session) and the command replies come with debug information  | RCPTT  | Pass | This makes no difference for MI starting with Lttng 2.6 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 16.6                  | Test Verbose Logging (Level 2)                           | <p>1) Execute 16.2</p> <p>2) select verbose level Level 2</p> <p>3) Execute some commands (e.g. create session, enable event)</p>  | Make sure that log file contains the executed commands with -vv option (e.g. lttng -vv create session) and the command replies come with debug information  | RCPTT  | Pass | This makes no difference for MI starting with Lttng 2.6 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 16.7                  | Test Verbose Logging (Level 3)                           | <p>1) Execute 16.2</p> <p>2) select verbose level Level 3</p> <p>3) Execute some commands (e.g. create session, enable event)</p>  | Make sure that log file contains the executed commands with -vvv option (e.g. lttng -vvv create session) and the command replies come with debug information  | RCPTT  | Pass | This makes no difference for MI starting with Lttng 2.6 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 16.8                  | Append Mode  | Check checkbox Append, restart Eclipse and open Tracer Control Preferences   | Verify that tracer control preferences are persisted and the log file is opened in append mode (old file is not overwritten)  | RCPTT  | Pass |   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

|   |                                     |  |  |       |      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
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| 16.9  | Change Tracing Group                | Change Tracing group (e.g. tracing2) and execute a command (while logging enabled)   | Verify that lttng command is executed with command line option -g <group>. Ignore any command reply errors (if any)  | RCPTT | Pass |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 16.10   | Change execution timeout            | Go to Remote Connection Preferences, Change Timeout  | After verify that values smaller than 5 and bigger than 600 are rejected   | RCPTT | Pass |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 16.11   | Reset                               | Reset to defaults  | Verify: Group=tracing, Logging is deselected, Append is deselected, Verbose Level=None, and Command Timeout is 15  | RCPTT | Pass |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| <b>17 Create Channel with advance features (LTTng 2.2 features)</b> |                                     |  |  |       |      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 17.1  |                                     | For the tests below a Ubuntu machine with LTTng 2.2 installed (with lttng tools 2.2.x) is required. Either create a VM machine yourself (e.g. on Virtualbox) or install it locally on your native Ubuntu (if correct version). Make sure that the root session daemon is running (sudo lttng list -k) and have one UST process running (e.g. from lttng-tools git repository under tests/hello.cxx). |  |       |      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 17.2  | Configure Metadata channel (kernel) | 1) Create and select session and click right mouse button<br>2) Select menu item 'Enable Channel...'<br>3) Select Checkbox 'Configure metadata channel'<br>4) Update all text boxes<br>5) Click on 'OK'  | Verify after 3) that 'Channel Name' is set to metadata and the corresponding textbox is disabled. Verify after 5) that metadata channel was created under the kernel domain. Also verify in the properties view that all parameters are set correctly when selecting the channel metadata.     | RCPTT | Pass |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 17.3  | Configure Metadata channel (UST)    | 1) Re-do 17.2 with a UST channel   | Verify after 3) that 'Channel Name' is set to metadata and the corresponding textbox is disabled. Verify after 5) that metadata channel was created under the domain UST global. Also verify in the properties view that all parameters are set correctly when selecting the channel metadata. | RCPTT | Pass | Command is successful. However tracer doesn't create metadata channel. Bug in LTTng <a href="http://bugs.lttng.org/issues/994">http://bugs.lttng.org/issues/994</a>  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 17.4  | Configure File rotation (kernel)    | 1) Create and select session and click right mouse button<br>2) Select menu item 'Enable Channel...'<br>3) Fill in channel name<br>4) Fill in 1048576 in 'Maximum size of trace files' and also 'Sub Buffer Size'<br>5) Fill in 2 in 'Maximum number of trace files'<br>6) Click on 'OK'<br>7) Enable all kernel events<br>8) Start, wait and stop tracing.  | After 8) verify on the trace node that trace files are not bigger than 1048576 bytes   | RCPTT | Pass | Need a human to check the size on the host   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 17.5  | Configure File rotation (ust)       | 1) Create and select session and click right mouse button<br>2) Select menu item 'Enable Channel...'<br>3) Fill in channel name<br>4) Select UST<br>5) Fill in 262144 in 'Maximum size of trace files' and also 'Sub Buffer Size'<br>6) Fill in 2 in 'Maximum number of trace files'<br>7) Click on 'OK'<br>8) Enable all UST events<br>9) Start, wait and stop tracing.                             | After 9) verify on the trace node that trace files are not bigger than 262144 bytes  | RCPTT | Pass | Need a human to check the size on the host   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 17.6  | Buffer Type - toggle UST/kernel     | 1) Create and select session and click right mouse button<br>2) Select menu item 'Enable Channel...'<br>3) Select UST<br>4) Select Kernel<br>5) Select cancel  | Verify after 2 and 4 that the radio buttons for the buffer type is disabled and the buffer type "Global shared buffers" is selected which is the value for the kernel tracer. Verify after 3) that the radio buttons are enabled an no buffer type is selected                                 | RCPTT | Pass |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 17.7  | Default UST Buffer Type             | 1) Create and select session and click right mouse button<br>2) Select menu item 'Enable Channel...'<br>3) Select UST<br>4) Enter Channel Name<br>5) Select 'OK'   | Verify after 5) that the default buffer type is configured for that channel (see properties view). Note for LTTng Tools 2.2 the default is per-PID and for LTTng Tools 2.3 and later it is per-UID   | RCPTT | Pass |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 17.8  | per PID UST Buffer Type             | Prerequisite: Multiple UST Applications need to run<br>1) Create and select session and click right mouse button<br>2) Select menu item 'Enable Channel...'<br>3) Select UST<br>4) Select 'Per PID buffers'<br>5) Enter Channel Name<br>6) Select 'OK'<br>8) Enable all ust events<br>9) Start, wait and stop tracing.<br>10) Import trace   | Verify after 6) that the per-pid buffer type is configured for that channel (see properties view). After 10) make sure that for each UST application one trace is created  | RCPTT | Pass | 9) and 10) not tested with RCPTT   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 17.9  | per UID UST Buffer Type             | Prerequisite: Multiple UST Applications need to run<br>1) Create and select session and click right mouse button<br>2) Select menu item 'Enable Channel...'<br>3) Select UST<br>4) Select 'Per UID buffers'<br>5) Enter Channel Name<br>6) Select 'OK'<br>8) Enable all ust events<br>9) Start, wait and stop tracing.<br>10) Import trace   | Verify after 6) that the per-pid buffer type is configured for that channel (see properties view). After 10) make sure that only one trace is created even multiple UST applications are running.  | RCPTT | Pass | While doing this I found a few bugs but it ended up working. See <a href="https://bugs.eclipse.org/bugs/show_bug.cgi?id=469426">https://bugs.eclipse.org/bugs/show_bug.cgi?id=469426</a> and <a href="https://bugs.eclipse.org/bugs/show_bug.cgi?id=469424">https://bugs.eclipse.org/bugs/show_bug.cgi?id=469424</a><br>9) and 10) not tested with RCPTT |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| <b>18 Snapshot Channel (LTTng 2.3 features)</b>                     |                                     |  |  |       |      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Preparation   |                                     | Connect to a node with LTTng 2.3 installed   |  |       |      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

|                            |  |  |  |        |      |  |
|----------------------------|--|--|--|--------|------|--|
| 18.1                       | Create Snapshot Session                  | 1) Click right mouse button on 'Sessions'<br>2) Select 'Create Session...' in the context sensitive menu<br>3) Enter session name 'MySession', keep 'Session Path' empty<br>4) Select checkbox 'Snapshot Mode'<br>5) Select 'OK'   | Verify that new session is added under the Session tree node. Verify properties in Properties view (by selecting the session in the Control view):<br>'Session name' (=MySession)<br>'Snapshot ID' (=1)<br>'Snapshot Name' (=snapshot-1)<br>'Session Path' (=home/<user>/traces/MySession_<date and time>) and 'State' (=INACTIVE)<br>Make sure that the button and menu item 'Record Snapshot' is enabled | RCPTT  | Pass |  |
| 18.2                       | Enable Kernel Event                      | Enable all Kernel Tracepoint and syscall events  | Verify that channel and events a successful enabled  | RCPTT  | Pass |  |
| 18.3                       | Start Session                            | a) Select session and click on button 'Start'<br>b) Redo test with context sensitive menu item 'Start'   | Verify that Session icon changes to 'ACTIVE' icon. Verify that property view shows 'ACTIVE' for the session state<br>Make sure that the button and menu item 'Record Snapshot' is enabled. Also make sure that the Button and menu item 'Import' is enabled.   | RCPTT  | Pass |  |
| 18.4                       | Record snapshot                          | select session and record 2 snapshots: Once with button 'Record Snapshot' and once with context-sensitive menu item 'Record Snapshot'  | Commands succeed without error   | RCPTT  | Pass |  |
| 18.5                       | Create another snapshot session          | session name ustSession (as described in 18.1)   | Make sure that snapshot session is created successfully  | RCPTT  | Pass |  |
| 18.6                       | Enable UST Events                        | Enable all UST events  | Verify that channel and events a successful enabled  | RCPTT  | Pass |  |
| 18.7                       | Start UST session                        | see 18.3   | see 18.3   | RCPTT  | Pass |  |
| 18.8                       | Record snapshot over multiple sessions   | Select kernel and ust session (see 18.1 and 18.5) and click on 'Record snapshot' button  | Command succeeds without error   | RCPTT  | Pass |  |
| 18.9                       | Import traces                            | Open Import dialog (see 11.2)  | Verify that 4 snapshots are available (3 kernel and 1 UST). Verify that all snapshots are imported to the selected tracing project   | RCPTT  | Pass |  |
| 18.10                      | Stop and destroy sessions                | Stop and destroy both sessions   | Verify that sessions are destroy successfully  | RCPTT  | Pass |  |
| 18.11                      | Network snapshot session                 | 1) Start relayd on Eclipse local machine (default settings: lttng-relayd)<br>2) Open Create Session Dialog box, select 'Snapshot Mode' and select "Advanced >>>"<br>3) Enter session name, select net protocol and enter IP address of Eclipse local machine in address field and press ok<br>4) Enable events (UST and Kernel), start tracing, and record a few snapshots, stop tracing<br>5) Import traces to a existing tracing project<br>6) Destroy session | Make sure that all steps were successful. Also, import the traces using the standard import instead of the remote import   | Manual | Pass | Note that the session has to be started at least once otherwise the command will fail. |
| 18.12                      | Record snapshot when session is inactive |  |  | SWTBot | Pass |  |
| <b>19 Command Script</b>   |  |  |  |        |      |  |
| 19.1                       | Execute command scrip                    | Create a command script to create a session with kernel and ust events enabled.  | Make sure that each command of script is executed and script execution is without errors   | Manual | Pass | Should provide a command script in test spec   |
| <b>20 Session Profiles</b> |  |  |  |        |      |  |
| 20.1                       | Save session                             | 1) Create Tracing session<br>2) Select session and click right mouse button<br>3) Select Menu item "Save..."<br>4) Select 'OK'   | Make sure that the session is saved under ~/.lttng/sessions on the remote<br>Make sure that session is available in the workspace by opening Window->Preferences -> Tracing -> LTTng Remote Profiles   | SWTBot | Pass |  |
| 20.2                       | Save session (2)                         | 1) Re-do 20.1 (use same session name)  | Make sure that the session is saved under ~/.lttng/sessions.<br>Make sure that session is available the user is prompted to skip or overwrite the profile in the workspace   | Manual | Pass | RCPTT Limitation   |
| 20.3                       | Save session (no force)                  | 1) Re-do 20.1 but deselect force button  | The save command will be rejected by LTTng Tools   | RCPTT  | Pass |  |
| destroy all sessions       |  |  |  |        |      |  |
| 20.4                       | Load Session (local)                     | 1) Select group "Sessions" and click right mouse button<br>2) Select Menu item "Load..."<br>3) Select a existing profile (from Local)<br>4) Select 'OK'  | Make sure that the session is created  | SWTBot | Pass |  |
| destroy all sessions       |  |  |  |        |      |  |
| 20.5                       | Load Session (remote)                    | 1) Select group "Sessions" and click right mouse button<br>2) Select Menu item "Load..."<br>3) Select "Remote"<br>4) Select a existing profile (from Remote)<br>5) Select 'OK'   | Make sure that the session is created  | RCPTT  | Pass |  |
| 20.6                       | Open preference (1)                      | 1) Select group "Sessions" and click right mouse button<br>2) Select Menu item "Load..."<br>3) Select "Manage..."  | Make sure that the LTTng Remote Profile preference page opens  | RCPTT  | Pass |  |
| 20.7                       | Open preference (2)                      | Open Preferences (Menu -> Preferences -> Tracing -> LTTng Remote Profiles  | Make sure that the LTTng Remote Profile preference page opens  | RCPTT  | Pass |  |

|  |                                      |   |   |        |      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|--|--------------------------------------|---|---|--------|------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| 20.8   | Export profile                       | 1) Open Preference page (see 20.7)<br>2) Select multiple profiles<br>3) Click on "Export..."<br>3) Select destination directory and click on "OK"   | Make sure profile is exported to the destination directory  | Manual | Pass |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 20.9   | Export profile (redo)                | Redo 20.8   | Make sure that user is prompted about to overwrite or skip existing profile   | Manual | Pass |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 20.10  | Import profile                       | 1) Open Preference page (see 20.7)<br>2) Click on "Import..."<br>3) Select a profile on media and click on "OK"   | Make sure profile is imported and available in workspace  | Manual | Pass |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 20.11  | Import profile (redo)                | 1) Redo 20.8  | Make sure that user is prompted about to overwrite or skip existing profile   | Manual | Pass |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 20.12  | Delete profile                       | 1) Open Preference page (see 20.7)<br>2) Select multiple profiles<br>3) Click on "Delete..."<br>3) Confirm deletion   | Make sure profile(s) are delete from the workspace and disk   | RCPTT  | Pass |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| <b>21 Kernel Event Filtering (LTTng 2.6)</b>   |                                      |   |   |        |      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 21.1   |                                      | For the tests below a Ubuntu machine with LTTng 2.1 installed (with lttng tools 2.6.x) is required. Either create a VM machine yourself (e.g. on Virtualbox) or install it locally on your native Ubuntu (if correct version). Make sure that the root session daemon is running (sudo lttng list -k) and have one UST process running (e.g. from lttng-tools git repository under tests/hello.cxx) |   |        |      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 21.2   | Preparation                          | 1) Connect to remote host<br>2) Create new Session 'FilterSession'  |   |        |      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 21.3   | Enable Kernel Event on session level | 1) Select session and click right mouse button<br>2) Select menu item 'Enable Events (default channel)...'<br>3) Select 'Kernel'<br>4) Select Radio button for 'Tracepoint Events'<br>5) Select one tracepoint<br>6) Enter filter expression on an event field<br>7) Click on 'Ok'  | Verify that default channel (channel0) is create under domain 'Kernel' and that the corresponding event is created under the channel with state ENABLED.<br><br>Verify that Properties view shows correct values for this event (Event Type=TRACEPOINT, State=ENABLED, Filter=with filter, Filter=the actual expression in LTTng 2.8 +) | SWTBot | Pass |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 21.4   | Enable Kernel Event from provider    | 1) Execute 14.3<br>2) Select one Kernel Tracepoint event under Provider "Kernel"<br>3) click right mouse button<br>4) select menu item 'Enable Event...'<br>5) Select newly create session and channel<br>6) Enter filter expression on an event field<br>7) Click on 'Ok'  | Verify that Properties view shows correct values for this event (Event Type=TRACEPOINT, State=ENABLED, Filter=with filter, Filter=the actual expression in LTTng 2.8 +)   | SWTBot | Pass |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 21.5   | Create trace                         | 1) Start Tracing<br>2) Stop Tracing after a view seconds<br>3) Import Trace to Project<br>4) Open Trace<br>5) Destroy Session   | Make sure that only events are shown in the events table that met the condition in the filter expressions   | Manual | Pass |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| <b>22 LTTng UST Exclude events (LTTng 2.5)</b> |                                      |   |   |        |      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 22.1   |                                      | For the tests below a Ubuntu machine with lttng tools 2.5.x is required. Either create a VM machine yourself (e.g. on Virtualbox) or install it locally on your native Ubuntu (if correct version). Make sure that the root session daemon is running (sudo lttng list -k) and have one UST process running (e.g. from lttng-tools git repository under tests/hello.cxx)                            |   |        |      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 22.2   | Preparation                          | 1) Connect to remote host<br>2) Create new Session 'FilterSession'  |   |        |      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 22.3   | Enable events with exclude           | 1) Open Enable Event Dialog, select UST<br>2) Use wildcards<br>3) Enter a event name to exclude   | Verify that event is added under the UST Domain and relevant channel.<br>Verify that the Properties view shows the exclusion: Exclusion=with Exclusion, for Exclusion the actual expression in LTTng 2.8+   | SWTBot | Pass |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| <b>23 LTTng UST per syscall (LTTng 2.6)</b>    |                                      |   |   |        |      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 23.1   |                                      | For the tests below a Ubuntu machine with lttng tools 2.6.x is required. Either create a VM machine yourself (e.g. on Virtualbox) or install it locally on your native Ubuntu (if correct version). Make sure that the root session daemon is running (sudo lttng list -k) and have one UST process running (e.g. from lttng-tools git repository under tests/hello.cxx)                            |   |        |      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 23.2   | Preparation                          | 1) Connect to remote host<br>2) Create new Session 'MySession'  |   |        |      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 23.3   | Enable selected syscalls             | 1) Open Enable Event Dialog, select Kernel<br>2) Select syscalls<br>3) In the tree, select selected syscalls<br>4) Select Ok  | Verify that the selectetd syscalls are added added under the Kernel Domain and relevant channel.  | SWTBot | Pass |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 23.4   | destroy session                      | 1) Open Enable Event Dialog, select Kernel<br>2) Select Syscalls<br>3) In the tree, select all syscalls<br>4) Select Ok   | Verify that the selectetd syscalls are added added under the Kernel Domain and relevant channel.  | SWTBot | Pass |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

| 24   | JUL, Log4J, Python<br>Logger                 |  |   |        |      |  |  |  |  |  |  |  |  |  |  |
|------|--|--|---|--------|------|--|--|--|--|--|--|--|--|--|--|
| 24.1 | Configure JUL tracing session (LTTng 2.6)    | Configure JUL tracing session using tree and event name    | verify that session is configured correctly | SWTBot | Pass |  |  |  |  |  |  |  |  |  |  |
| 24.2 | Configure Log4J tracing session (LTTng 2.6)  | Configure Log4J tracing session using tree and event name  | verify that session is configured correctly | SWTBot | Pass |  |  |  |  |  |  |  |  |  |  |
| 24.3 | Configure Python tracing session (LTTng 2.7) | Configure Python tracing session using tree and event name | verify that session is configured correctly | SWTBot | Pass |  |  |  |  |  |  |  |  |  |  |

| Section     |  | Pass   | Fail   | To Do  | Comment  |
|-------------|--|--|--|--------|--|
| Tracing RCP |  | 31   | 1  | 0      | 4  |
| Target:     | Windows 10 64 bit  |  |  |        |  |
| Step        | Test Case  | Action   | Verification   |        | Comment  |
| 0           | <b>Preparation</b>   |  |  |        |  |
|             | 1. Download maven 3.3 or above<br>2. Use openJDK 1.8 or above<br>3. Use the command <code>mvn clean install -Dmaven.test.skip=true -X</code> to compile the RCP without the tests (-X for the debug info)<br>4. You might need to use a proxy (adding a settings.xml file in the ~/.m2 folder)<br>5. Once everything is compiled, you can find the version of RCP for your OS in <code>tracecompass-master/git/org.eclipse.tracecompass/rcp/org.eclipse.tracecompass.rcp.product/target/products/org.eclipse.tracecompass.rcp/ folder</code> |  |  |        |  |
| 1           | <b>Start RCP</b>   |  |  |        |  |
|             |  |  |  |        | Bruno : Not with this test case : If I open n traces, the folder "Traces [n]" shows the number of traces opened. If i go in the Properties view with the folder the title of the Properties view is Traces [n], now, if I delete the n traces the title of the Properties view is still Traces [n] instead of Traces [0]. Patrick: The Properties view updates itself when the selection changes.<br><br>Bruno : Not with this test case but the delete key doesnt work on Tracing project (we need to use the mouse right click). Bug 486505. |
| 1.1         | Start Tracing RCP  | Open RCP from command line or file explorer  | Tracing RCP opens in default perspective   | Manual | Pass<br>***(the real test case 1.1 passed)***  |
| 1.2         | Start Tracing RCP with text trace  | Open RCP from command line with --open <trace name with absolute path>   | Trace will be opened with auto-detected trace type   | Manual | Pass   |
| 1.3         | Start Tracing RCP with previously opened text trace  | Open RCP from command line with --open <trace name with absolute path>. Use same trace than 1.2  | Verify that the same trace that was previously linked into the Traces folder is opened and not a new trace entry is created  | Manual | Pass   |
| 1.4         | Start Tracing RCP with Kernel CTF trace  | Open RCP from command line with --open <kernel trace name with absolute path>  | Tracing RCP is opened, the trace is linked to the Tracing project, the kernel analysis trace type is selected and trace is opened.   | Manual | Pass<br>The kernel trace opens in an editor but the editor of the first trace gets activated. Bug 443461.<br>Bruno : Same bug happens with UST traces  |
| 1.5         | Start Tracing RCP with previously opened Kernel CTF trace  | Open RCP from command line with --open <kernel trace name with absolute path>. Use same trace than 1.4   | Verify that the same trace that was previously linked into the Traces folder is opened and not a new trace entry is created  | Manual | Pass   |
| 1.6         | Start Tracing RCP with new trace with name conflict  | Open RCP from command line with --open <trace name with absolute path>, where the name of trace is the same than 1.2, but the trace is located at a different location on disk | Verify that a new trace is linked to the Tracing project and trace is opened. Verify that the new trace name has a integer number a suffix added.  | Manual | Pass   |
| 1.7         | Re-do 1.6  | Open RCP from command line with --open <kernel trace with absolute path>, where name of trace is the same than 1.4, but the trace is located at a different location on disk   | Verify that a kernel trace is linked to the Tracing project, the kernel analysis trace type is selected and trace is opened. Verify that the new trace name has a integer number a suffix added. | Manual | Pass   |
| 1.8         | Start Tracing RCP with non-trace file  | Open file that is not a trace  | Trace is imported (linked) however default icon (from Eclipse) is set  | Manual | Pass   |
| 2           | <b>File menu</b>   |  |  |        |  |
| 2.1         | Open Trace (File)  | Use Menu "File -> Open Trace ..." In the file dialog select a text trace and select open.  | Trace will be opened with auto-detected trace type   | Manual | Pass   |
| 2.2         | Open Trace (File) with previously opened text trace  | Use Menu "File -> Open Trace...". In the file dialog select a text trace and select open. Use same trace than 2.1  | Verify that the same trace that was previously linked into the Traces folder is opened and not a new trace entry is created  | Manual | Pass   |
| 2.3         | Open Trace (Directory)   | Use "Menu File -> Open Trace ...". In the file dialog select a file of Kernel CTF trace directory and select open.   | Verify that the trace is linked to the Tracing project, the kernel analysis trace type is selected and trace is opened.  | Manual | Pass   |
| 2.4         | Open Trace (Directory) with previously opened Kernel CTF trace   | Use "Menu File -> Open Trace ...". In the file dialog select a file of Kernel CTF trace directory and select open. Use same trace than 2.3                                     | Verify that the same trace that was previously linked into the Traces folder is opened and not a new trace entry is created  | Manual | Pass   |



|                      |                                    |   |  |        |      |  |
|----------------------|------------------------------------|---|--|--------|------|--|
| 2.5                  | Open Trace File with name conflict | Use Menu "File -> Open Trace ...". In the file dialog select a text trace and select open, where the name of trace is the same than 2.1, but the trace is located at a different location on disk                         | Verify that the new trace is linked to the Tracing project and the trace is opened. Verify that the new trace name has a integer number a suffix added.  | Manual | Pass |  |
| 2.6                  | Re-do 2.5                          | Use "Menu File -> Open Trace ...". In the file dialog select a file of Kernel CTF trace directory and select open, where the name of trace is the same than 2.3, but the trace is located at a different location on disk | Verify that the kernel trace is linked to the Tracing project, the kernel analysis trace type is selected and trace is opened. Verify that the new trace name has a integer number a suffix added. | Manual | Pass |  |
| 2.7                  | Open file                          | Open file that is not a trace   | Trace is imported (linked) however default icon (from Eclipse) is set  | Manual | Pass |  |
| 2.8                  | Restart                            | Use Menu File -> Restart  | Verify that RCP is restarted with the previously open perspective and trace  | Manual | Pass |  |
| 2.9                  | Exit                               | Use Menu File -> Exit   | Tracing RCP exits  | Manual | Pass |  |
| <b>3 Window Menu</b> |                                    |   |  |        |      |  |
| 3.1                  | Open Perspective                   | Use Menu Window -> Show Perspective -> Tracing Perspective  | Tracing perspective is opened  | Manual | Pass |  |
| 3.2                  | Open View                          | Use Menu Window -> Show View -> Select Tracing -> Sequence Diagram  | Sequence diagram view is shown   | Manual | Pass |  |
| 3.3                  | Preferences                        | Use Menu Window -> Preferences  | Preferences dialog is shown  | Manual | Pass |  |
| 3.4                  | Save Perspective As                | Make changes of perspective by moving views and use menu Window -> Save Perspective As. Enter a perspective name and select Ok  | Perspective with new name is stored  | Manual | Pass |  |
| 3.5                  | Reset Perspective                  | Make changes of perspective by moving views and use menu Window -> Reset Perspective.   | After confirming the reset operation the perspective is reset to the default layout.   | Manual | Pass |  |
| <b>4 Help Menu</b>   |                                    |   |  |        |      |  |
| 4.1                  | Help Contents                      | Use Menu -> Help -> Help Contents   | Help content browser is opened. All Tracing related help is included   | Manual | Pass |  |
| 4.2                  | Help Contents (shortcut)           | Use key F1  | Help content browser is opened. All Tracing related help is included   | Manual | Pass |  |
| 4.2                  | Install new Software               | Use Menu -> Help -> Install New Software... to install new Eclipse feature  | Installation is successful   | Manual | Pass |  |
| 4.4                  | About                              | Use Menu -> Help -> About   | About dialog is opened all relevent information (e.g. version, copyright years etc) is up-to-date and correct.   | Manual | Fail | should it be 2018 ? currently 2013, 2017 |
| 4.5                  | Version + Copyright                | Use Menu -> Help -> About -> Installation details   | Go over all tracing features and plug-ins and verify that all have the correct version and copyright years   | Manual | Pass |  |
| <b>5 Content</b>     |                                    |   |  |        |      |  |
| 5.1                  | TMF presence                       | Open Tracing perspective  | Tracing perspective opens  | Manual | Pass |  |
| 5.2                  | LTing presence                     | Open LTing Kernel perspective   | LTing Kernel perspective opens   | Manual | Pass |  |
| 5.3                  | PCAP Network analysis presence     | Open Network Tracing perspective  | Network analysis perspective opens   | Manual | Pass |  |
| 5.4                  | BTF presence                       | Open BTF trace  | BTF trace opens correctly  | Manual | Pass |  |
| <b>6 Upgrade</b>     |                                    |   |  |        |      |  |
| 6.1                  | Upgrade from previous release      | Use Help -> Check For Updates   | RCP is upgraded  | Manual | Pass | Tested with RC3                          |

| Section                   |   | Pass  | Fail  | To Do  | Comment   |
|---------------------------|---|---|---|--------|---|
| Trace Synchronization     |   | 13  | 0   | 0      | 4   |
| Target:                   |   |   |   |        |   |
| Step                      | Test Case                                   | Action  | Verification  |        | Comment   |
| <b>0 Prerequisites</b>    |   |   |   |        |   |
| 0.1                       | Import traces                               | Import the scp_dest and scp_src traces in the synctraces.tar.gz file                        |   |        |   |
| 0.2                       | Create experiment 1                         | Create an experiment containing those 2 traces  |   |        |   |
| 0.3                       | Create experiment 2                         | Create an experiment with any other trace   |   |        |   |
| <b>1 View Management</b>  |   |   |   |        |   |
| 1.1                       | Open Synchronization View                   | Use menu Window → Show View → Tracing → Synchronization                                     | Verify that 'Synchronization' view is shown   | Manual | Pass<br>This view should be in properties<br>I agree  |
| 1.2                       | Delete view                                 | Close the Synchronization View  | 'Synchronization' view is removed from perspective  | Manual | Pass<br>The view also makes no sense to mere mortals.   |
| 1.3                       | Open view                                   | Use menu Window → Show View → Tracing → Synchronization                                     | 'Synchronization' view is displayed and remains empty   | Manual | Pass  |
| 1.4                       | Open Experiment                             | Open the experiment containing the 2 synchronizable traces                                  | Verify that the view is still empty   | Manual | Pass  |
| 1.5                       | Synchronize experiment                      | Right-click on the experiment and select 'Synchronize Traces'                               | After a time, the view is populated with synchronization result that say 'accurate'. And one of the original traces has been replace by a trace with the same name, but with an '_' at the end. | Manual | Pass  |
| 1.6                       | Open view when trace is already loaded      | 1) Close Synchronization View<br>2) Load LTTng experiment<br>3) Open 'Synchronization' view | Verify that view is populated with synchronization data from currently opened experiment  | Manual | Pass  |
| 1.6.5                     | Synchronize experiment with constant offset | Try to offset a trace by a second   | Visually verify that a synchronized trace is now offsetted  | Manual | Pass<br>Simon: not sure what should be the result of this operation<br>Bernd: I think it is to add a manual time offset on top of the synchronisation |
| 1.7                       | Open trace                                  | Open an Lttng Kernel trace  | Synchronization view is empty   | Manual | Pass  |
| 1.8                       | Re-open experiment                          | Open the experiment containing the 2 synchronized traces                                    | View shows synchronization data from the experiment   | Manual | Pass<br>fixed with <a href="https://git.eclipse.org/r/#/c/98366/">https://git.eclipse.org/r/#/c/98366/</a>  |
| 1.9                       | Restart                                     | Restart Eclipse   | Verify that view is populated with synchronization data from experiment   | Manual | Pass  |
| <b>2 Functionnalities</b> |   |   |   |        |   |
| 2.1                       | Open experiment 2                           | Open the experiment containing traces that do not synchronize                               | Verify that the 'Synchronization' view is empty   | Manual | Pass  |
| 2.2                       | Go back to previous experiment              | Re-open the experiment with the synchronizable traces                                       | Verify that the 'Synchronization' view contains the data from the experiment  | Manual | Pass  |
| 2.3                       | Synchronize experiment                      | Right-click on the experiment and select 'Synchronize traces'                               | After the synchronization job finishes, the synchronized experiment is closed and experiment 2 is selected. The synchronization view is empty.  | Manual | Pass  |

| Section                     |   | Pass   | Fail   | Type   | To Do   | Comment |
|-----------------------------|---|--|--|--------|---------|---------|
| LTTng 2.0 - Memory Analysis |   | 22   | 0  | 5      | 0       | 6       |
| Target:                     | Ubuntu 14.04 64 bit                     |  |  |        |         |         |
| Step                        | Test Case                               | Action   | Verification   | Type   | Comment |         |
| <b>0 Prerequisites</b>      |   |  |  |        |         |         |
| 0.1                         | Download traces                         | Download UST trace with memory events from <a href="https://secretaire.dorsal.polymtl.ca/~gbastien/traces/eclipse_mem_ust.tar.gz">https://secretaire.dorsal.polymtl.ca/~gbastien/traces/eclipse_mem_ust.tar.gz</a> |  |        |         |         |
| 0.2                         | Import trace with memory event          | Import the LTTng UST trace downloaded above in Tracing project   |  |        |         |         |
| 0.3                         | Import trace without memory event       | Import one of the LTTng UST trace that does not contain the memory events, for example, the one used for the callstack view  |  |        |         |         |
| 0.4                         | Import non-UST trace                    | Import one LTTng Kernel trace  |  |        |         |         |
| <b>1 Project View</b>       |   |  |  |        |         |         |
| 1.1                         | Check analysis can execute              | open the trace that contains the memory events. In the project explorer, expand the trace that contains the memory events  | "Ust Memory" analysis is present and "normal"  | SWTBot | Pass    | 84702   |
| 1.2                         | Verify help message when applicable     | In the project explorer, open and expand the trace that contains the memory events, right-click the memory analysis and select Help  | A generic help message appears with the name of the analysis.  | Manual | Pass    |         |
| 1.3                         | Check analysis cannot execute           | open the trace that contains the memory events. In the project explorer, expand the UST trace that does not contain memory events  | "Ust Memory" analysis is present, but striked-out  | Manual | Pass    | 84702   |
| 1.4                         | Verify help message when not applicable | In the project explorer, open and expand the UST trace that does not contain memory events, right-click the memory analysis and select Help  | The help message mentions the analysis is impossible to execute and contains the requirement that is not fulfilled | Manual | Pass    |         |
| 1.5                         | Check analysis for another trace type   | In the project explorer, expand a LTTng Kernel trace   | "Ust Memory" analysis is not present   | SWTBot | Pass    | 84702   |
| <b>2 View Management</b>    |   |  |  |        |         |         |
| 2.1                         | Populate analysis's view                | Open the UST trace with memory events and expand the "UST Memory" analysis in the project explorer   | "Ust Memory Usage" View appears under the analysis   | SWTBot | Pass    |         |
| 2.2                         | Open view                               | Double-click the UST Memory View under the memory analysis   | The UST Memory Usage view opens and triggers the memory analysis. After the analysis, the XY chart is populated    | SWTBot | Pass    |         |
| 2.3                         | Close trace                             | Close the trace  | The UST Memory Usage view is emptied.  | Manual | Pass    |         |
| 2.4                         | Open trace                              | With the view already opened, open the trace   | The UST Memory Usage view is populated.  | SWTBot | Pass    |         |
| 2.5                         | Close view                              | Close the UST Memory Usage view  | The view is closed.  | Manual | Pass    |         |
| 2.6                         | Re-open view                            | Double-click the UST Memory Usage view under the memory analysis in project explorer.  | The view opens and is automatically populated.   | Manual | Pass    |         |
| <b>3 Mouse handling</b>     |   |  |  |        |         |         |
| 3.1                         | Drag move time range                    | Drag move xy chart left and right with middle button   | Time range is dragged. When mouse button is released, the view refreshes with the new time range                   | Manual | Pass    |         |

|          |                                      |  |  |        |      |  |  |
|----------|--------------------------------------|--|--|--------|------|--|--|
| 3.2      | Zoom time range (mouse wheel)        | Zoom with CTL + mouse wheel up and down, cursor inside xy chart                                      | Time range is zoomed in and out, relative to mouse cursor. When mouse wheel is stopped for a short time, series are updated and new time range is propagated to other views.   | Manual | Pass |  |  |
| 3.3      | Drag select time range               | Drag select time graph with right button   | Selection highlighted. When mouse button is released, time range is zoomed to selection, series are updated and new time range is propagated to other views.   | Manual | Pass |  |  |
| 3.4      | Mouse hover                          | Hover mouse in xy chart anywhere   | Tool tip shows values for each thread at the given timestamp   | Manual | Pass |  |  |
| 3.5      | Drag mouse selection                 | Drag select xy chart with left button  | Selection highlighted. New selection is propagated to other views  | Manual | Pass |  |  |
| 3.6      | Shift key selection                  | Click select with left button (begin time), press shift key and click select another time (end time) | Selection highlighted. New selection is propagated to other views  | Manual | Pass |  |  |
| 3.7      | Drag mouse selection (Status bar)    | Drag select xy chart with left button  | Selection highlighted. Status bar of Eclipse is updated with time information: T, T1, T2 and delta, where T is the time of the mouse position, T1 the first selected time, T2 the second (dragged) selected time and delta the time difference between T2-T1 (can be negative) | Manual | Pass |  |  |
| 3.8      | Shift key selection (Status bar)     | Click select with left button (begin time), press shift key and click select another time (end time) | Selection highlighted. Status bar of Eclipse is updated with time information: T, T1, T2 and delta, where T is the time of the mouse position, T1 the first selected time, T2 the second (dragged) selected time and delta the time difference between T2-T1 (can be negative) | Manual | Pass |  |  |
| <b>4</b> | <b>Synchronization</b>               |  |  |        |      |  |  |
|          | Preparation                          | Have the Histogram and UST Memory Usage views both visible   |  |        |      |  |  |
| 4.1      | Time synchronization                 | Select a random time in another view   | Selected time line is updated.   | Manual | Pass |  |  |
| 4.2      | Time range synchronization           | Select a new time range in UST Memory Usage view or in Histogram view.                               | Time range is updated.   | Manual | Pass |  |  |
| 4.3      | Time range selection synchronisation | In any other view that supports range synchronization, select a new range.                           | Selection range is highlighted.  | Manual | Pass |  |  |

| Section                  |  | Pass   | Fail   | To Do  | Comment                               |
|--------------------------|--|--|--|--------|---------------------------------------|
| Network Trace analysis   |  | 11   | 0  | 3      | 0                                     |
| Target:                  | Ubuntu 14.04 64 bit                    |  |  |        |                                       |
| Step                     | Test Case                              | Action   | Verification   |        | Comment                               |
| <b>0 Prerequisites</b>   |  |  |  |        |                                       |
| 0.1                      | Import traces                          | <a href="#">Import the trace linked here</a>   |  |        |                                       |
| <b>1 Trace Import</b>    |  |  |  |        |                                       |
| 1.1                      | Open the Network Tracing perspective   | In the project Explorer, expand any LTTng kernel trace   | Verify that the events view, the properties and stream list are displayed                      | SWTBot | Pass                                  |
| 1.2                      | Open trace                             | Double-click on the "TeamSpeak2.pcap" trace  | The trace is given a "network" icon. When opened, the events view and histogram view is opened | SWTBot | Pass<br>In SWTBot other trace is used |
| <b>2 View management</b> |  |  |  |        |                                       |
| 2.1                      | Populate the views                     | Open the "TeamSpeak2.pcap"   | The views are updated  | SWTBot | Pass                                  |
| 2.2                      | Look up stream                         | Open the Stream List view  | One stream is available with endpoint A being 00:0c:29:7c:ab:f9                                | Manual | Pass                                  |
| 2.3                      | Close the trace                        | Close the trace  | The stream list is emptied   | Manual | Pass                                  |
| 2.4                      | Close view                             | Close the Stream List view   | The view is closed   | Manual | Pass                                  |
| 2.5                      | Open view when trace is already loaded | Re-open the trace. Open The Stream List view   | The view opens with the correct title and is correctly populated.                              | Manual | Pass                                  |
| 2.6                      | Open a non pcap trace                  | Close the trace  | The stream list is emptied   | Manual | Pass                                  |
| <b>3 Stream List</b>     |  |  |  |        |                                       |
| 3.1                      | Re-open trace                          | Ensure only "TeamSpeak2.pcap" is opened  | The trace is opened  | Manual | Pass                                  |
| 3.1                      | Create a filter from the stream list   | Right click on stream 0, and select "Extract as Filter"  | A filter named "FILTER stream eth 00:0c:29..." is created                                      | Manual | Pass                                  |
| 3.2                      | Apply filter                           | In the events table, right click on an event and select "Apply preset filter-> stream eth 00:0c:29..." | 24/24 events pass the filter   | Manual | Pass                                  |

| Section                    |  | Pass   | Fail  | Type   | To Do   | Comment  |
|----------------------------|--|--|---|--------|---------|--|
| XML analysis               |  | 40   | 0   | 0      | 0       | 7  |
| Target:                    | Ubuntu 14.04 64 bit                                  |  |   |        |         |  |
| Step                       | Test Case  | Action   | Verification  | Type   | Comment |  |
| <b>0 Prerequisites</b>     |  |  |   |        |         |  |
| 0.1                        | Import traces  | Import LTTng kernel traces   |   |        |         |  |
| 0.2                        | Get a test XML file                                  | Download the test XML file here: <a href="https://secretaire.dorsal.polymtl.ca/~gbastien/Xml4Traces/Kernel.Linux.xml">https://secretaire.dorsal.polymtl.ca/~gbastien/Xml4Traces/Kernel.Linux.xml</a>   |   |        |         |  |
| 0.3                        | Make sure the XML file does not exist in the project | Open the Manage Xml Analyses menu and delete the XML file if it exists (or The XML files are located in <workspace directory>/.metadata/.plugins/org.eclipse.tracecompass.tmf.analysis.xml.core/xml_files. Delete the linux kernel XML file if it exists.) | NOTE: XML haven't files haven't been update to latest Kernel tracepoints and syscall changes. So, they only work with trace LTTng 2.5 and older                     |        |         |  |
| <b>1 XML file handling</b> |  |  |   |        |         |  |
| 1.1                        | Verify analysis not present                          | In the project Explorer, expand any LTTng kernel trace   | Verify that there is no 'Xml kernel State System' analysis  | Manual | Pass    |  |
| 1.2                        | Import XML file                                      | Right-click the Traces folder, select Manage XML analyses.... In the opened dialog import the Kernel.Linux.xml file and close the dialog.  | Verify that the 'Xml kernel State System' analysis is now present under a LTTng kernel trace  | Manual | Pass    |  |
| d                          | Edit XML file  | Right-click the Traces folder, select Manage XML analyses.... In the opened dialog, select Kernel.Linux and click Edit   | Verify that the XML editor opens. The editor should have Design and Source sub-tabs   | Manual | Pass    | stateSystemView section does not appear as XML |
| <b>2 View management</b>   |  |  |   |        |         |  |
| 2.1                        | Populate the views                                   | Open an LTTng kernel trace (eg trace2 from the tracecompass-test-traces repo)  | The 'Xml kernel State System' analysis should have a + next to it, expand it and there should be 2 views under it: 'Xml Control Flow View' and 'Xml Resources View' | Manual | Pass    |  |
| 2.2                        | Open the 'Xml Control Flow View'                     | Double-click the 'Xml Control Flow View' under the analysis  | A view titled 'Xml Control Flow View' should open and it should look quite similar to the Control Flow View   | Manual | Pass    |  |
| 2.3                        | Open another XML view                                | Double-click the 'Xml Resources View' under the analysis   | A view titled 'Xml Resources View' should open and it should look quite similar to the Resources view's CPU entries. Both XML views are opened.                     | Manual | Pass    |  |
| 2.4                        | Close view   | Close both XML view  | The view are closed   | Manual | Pass    |  |
| 2.5                        | Open view when trace is already loaded               | Double-click one of the views under the analysis   | The view opens with the correct title and is correctly populated.   | Manual | Pass    |  |
| 2.6                        | Close traces   | Close all opened traces  | The view is emptied.  | Manual | Pass    |  |
| 2.7                        | Open trace   | Open an LTTng Kernel trace   | The view is populated   | Manual | Pass    |  |
| 2.8                        | Open another trace                                   | Open a non-LTTng Kernel trace  | The view is emptied.  | Manual | Pass    |  |
| 2.9                        | Open LTTng Kernel trace                              | Open an LTTng Kernel trace   | The view is populated.  | Manual | Pass    |  |
| <b>3 View selection</b>    |  |  |   |        |         |  |
| 3.1                        | Select an entry in the table                         | Select an entry in the table   | Same entry is highlighted in time graph.  | Manual | Pass    |  |
| 3.1                        | Select entry in time graph                           | Select an entry in the time graph (empty region)   | Same entry is highlighted in table. Selected time line is updated. Other views are synchronized to selected time.   | Manual | Pass    |  |
| 2.3                        | Select state in time graph                           | Select a state in the time graph   | Same entry is highlighted in table. State is highlighted in time graph. Selected time line is updated. Other views are synchronized to selected time.               | Manual | Pass    |  |
| <b>4 Mouse handling</b>    |  |  |   |        |         |  |

|          |  |  |  |        |      |  |  |
|----------|--|--|--|--------|------|--|--|
| 4.1      | Drag move time range                           | Drag move time graph left and right with middle button   | Time range is dragged. When mouse button is released, states are updated and new time range is propagated to other views.  | Manual | Pass | "the new window range"   |  |
| 4.2      | Zoom time range (mouse wheel)                  | Zoom with CTRL + mouse wheel up and down, cursor inside time graph                                   | Time range is zoomed in and out, relative to mouse cursor. When mouse wheel is stopped for a short time, states are updated and new time range is propagated to other views.   | Manual | Pass |  |  |
| 4.3      | Zoom time range (mouse drag)                   | Drag in time graph scale left and right with left button   | Time range is zoomed in and out. When mouse button is released, states are updated and new time range is propagated to other views.  | Manual | Pass |  |  |
| 4.4      | Mouse vertical scroll                          | Scroll with mouse wheel up and down, cursor outside time graph                                       | Table and time graph scroll up and down and remain aligned. Selected entry does not change. Vertical scroll bar updated.   | Manual | Pass |  |  |
| 4.5      | Vertical scroll bar                            | Click and drag vertical scroll bar   | Table and time graph scroll up and down and remain aligned. Selected entry does not change.  | Manual | Pass |  |  |
| 4.6      | Drag select time range                         | Drag select time graph with right button   | Selection highlighted. When mouse button is released, time range is zoomed to selection, states are updated and new time range is propagated to other views.   | Manual | Pass |  |  |
| 4.7      | Double-click reset time range                  | Double-click left button on time scale   | Time range is reset to full range, states are updated and new time range is propagated to other views.   | Manual | Pass |  |  |
| 4.8      | Mouse hover (empty region)                     | Hover mouse in time graph over empty region  | Tool tip shows entry name only.  | Manual | Pass |  |  |
| 4.9      | Mouse hover (state)                            | Hover mouse in time graph over state   | Tool tip shows entry name, state name, date, start time, end time, duration.   | Manual | Pass | Entry name is called 'Trace' in the tooltip, which is probably wrong |  |
| 4.10     | Drag mouse selection                           | Drag select time graph with left button  | Selection highlighted. Status bar of Eclipse is updated with time information: T, T1, T2 and delta, where T is the time of the mouse position, T1 the first selected time, T2 the second (dragged) selected time and delta the time difference between T2-T1 (can be negative) | Manual | Pass |  |  |
| 4.11     | Shift key selection                            | Click select with left button (begin time), press shift key and click select another time (end time) | Selection highlighted. Status bar of Eclipse is updated with time information: T, T1, T2 and delta, where T is the time of the mouse position, T1 the first selected time, T2 the second (dragged) selected time and delta the time difference between T2-T1 (can be negative) | Manual | Pass |  |  |
| <b>5</b> | <b>Keyboard handling</b>                       |  |  |        |      |  |  |
| 5.1      | Keyboard navigation in table (entry selection) | With focus on table, use UP, DOWN, HOME, END keys  | Selected process is changed. Time graph selection is updated. Vertical scroll bar updated.   | Manual | Pass |  |  |

|          |   |  |  |        |      |   |
|----------|---|--|--|--------|------|---|
| 5.2      | Keyboard navigation in table (tree expansion)         | With focus on table, in Windows use LEFT, RIGHT keys while parent or child process is selected<br>in Linux use press ENTER while parent or child process is selected | For parent process, tree is expanded or collapsed. Time graph item expansion is updated. Vertical scroll bar updated. For child process, left changes selection to parent, time graph selection is updated. Vertical scroll bar updated. | Manual | Pass | Passed on Linux.  |
| 5.4      | Keyboard navigation in time graph (process selection) | With focus on time graph, use UP, DOWN, HOME, END keys   | Selected process is changed. Table selection is updated. Vertical scroll bar updated.  | Manual | Pass |   |
| 5.4      | Keyboard navigation in time graph (state selection)   | With focus on time graph, use LEFT, RIGHT keys   | Previous or next state is selected. Selected time is updated in other views.   | Manual | Pass |   |
| <b>6</b> | <b>Tool bar handling</b>                              |  |  |        |      |   |
| 6.1      | Show Legend   | Click Show Legend button   | The legend dialog is opened and can be closed.   | Manual | Pass | Comment from 1.0 testing: Not all displayed colors are in the legend<br>This is still a problem in 1.1 when using traces generated with LTTng 2.6 and older |
| 6.2      | Reset Time Scale                                      | Click Reset Time Scale button  | Time range is reset to full range, states are updated and new time range is propagated to other views.   | Manual | Pass |   |
| 6.3      | Select Previous/Next Event                            | Click Previous/Next Event button   | Previous or next state is selected. Selected time is updated in other views.   | Manual | Pass |   |
| 6.4      | Select Previous/Next Process                          | Click Previous/Next interval button  | Selected interval (process/resource) is changed in table and time graph. Vertical scroll bar updated.  | Manual | Pass |   |
| 6.5      | Zoom In/Out   | Click Zoom In/Out button   | Time range is zoomed in and out, relative to center of time range. States are updated and new time range is propagated to other views.   | Manual | Pass |   |
| 6.6      | Filter Dialog   | Open Filter Dialog   | Verify that all buttons are working correctly  | Manual | Pass | More filter buttons are available in cvf  |
| 6.7      | Filter Processes                                      | 1) Open Filter Dialog<br>2) Deselect several processes<br>3) Press Ok  | Verify that only selected entries are displayed in the view  | Manual | Pass |   |
| <b>7</b> | <b>Synchronization</b>                                |  |  |        |      |   |
| 7.1      | Time synchronization                                  | Select a random time in another view   | Selected time line is updated. If selected time is outside current range, time range is updated to include it.   | Manual | Pass |   |
| 7.2      | Time range synchronization                            | Select a new time range in Resources view or in Histogram view.  | Time range is updated.   | Manual | Pass |   |
| 7.3      | Time range selection synchronisation                  | In any other view that supports range synchronization, select a new range.   | Selection is highlighted. If begin time (T1) of selected time range is outside the current range, then time range is updated to include it   | Manual | Pass |   |



| Section                  |                         | Pass  | Fail  | To Do  | Comment |         |
|--------------------------|-------------------------|---|---|--------|---------|---------|
| Critical path            |                         | 43  | 1   | 2      | 0       | 10      |
| Target:                  |                         |   |   |        |         |         |
| Step                     | Test Case               | Action  | Verification  |        |         | Comment |
| <b>0 Prerequisites</b>   |                         |   |   |        |         |         |
| 0.1                      | Import traces           | Import the 3 django traces from the test traces   |   |        |         |         |
| 0.2                      | Create experiment       | Create an experiment with the 3 traces in it  |   |        |         |         |
| 0.3                      | Synchronize experiment  | Synchronize the experiment, it should be accurate and 2 of the traces will be updated         |   |        |         |         |
| <b>1 View management</b> |                         |   |   |        |         |         |
| 1.1                      | Open trace              | Open any of the django traces in Project Explorer   | Expand the Views element under the trace. The OS Exec Graph analysis is there and "normal". The Critical Path analysis is there and the Critical Flow view is available under it.               | Manual | Pass    |         |
| 1.2                      | Open experiment         | Open the django experiment in Project Explorer  | Expand the Views element under the trace. The LTTng Kernel Exec Graph analysis is there and "normal". The Critical Path analysis is there and the Critical Flow view is available under it.     | Manual | Pass    |         |
| 1.3                      | Open view               | Expand the Views element, then the Critical Path analysis and click on the Critical Flow View | Critical Path view is opened and empty  | SWTBot | Pass    |         |
| 1.4                      | Close view              | Close the Critical Flow View  | Critical Path view is closed  | Manual | Pass    |         |
| 1.5                      | Unapplicable trace      | Open a trace that is not a LTTng kernel trace   | Expand the Views element under the trace. The LTTng Kernel Exec Graph analysis is not there. The Critical Path analysis is there and the Critical Flow view is available under it.              | Manual | Pass    |         |
| 1.6                      | Unapplicable experiment | Open an experiment that does not contain LTTng kernel traces                                  | Expand the Views element under the trace. The LTTng Kernel Exec Graph analysis is there, but striked out. The Critical Path analysis is there and the Critical Flow view is available under it. | Manual | Pass    |         |
| <b>2 View population</b> |                         |   |   |        |         |         |

|                         |   |  |   |        |      |   |  |  |  |  |
|-------------------------|---|--|---|--------|------|---|--|--|--|--|
| 2.1                     | Populate the view with trace            | With the django-client trace and the critical path view opened, in the control flow view, find the process named python (TID 9496). Right-click on the process and select "Follow python/9496" | The LTTng kernel exec graph is executed and at the end, the critical path view shows the interaction between 3 workers.                                 | SWTBot | Pass | Done in SWBot with another trace                      |  |  |  |  |
| 2.2                     | Select worker in time graph             | Select an empty region in the time graph section   | Same process is highlighted in table. Selected time line is updated. Other views are synchronized to selected time.                                     | Manual | Pass |   |  |  |  |  |
| 2.3                     | Select state in time graph              | Select a state in the time graph   | Same process is highlighted in table. State is highlighted in time graph. Selected time line is updated. Other views are synchronized to selected time. | Manual | Pass |   |  |  |  |  |
| 2.4                     | Select worker in tree viewer            | Select a worker from the tree viewer section   | Same process is highlighted in time graph.  | Manual | Pass |   |  |  |  |  |
| 2.5                     | Populate the view with empty path       | Repeat steps of 2.1, with django-client trace and process lttng-sessiond (TID 9355)  | The Critical Path View is emptied   | Manual | Pass | But there should be a message telling why it is empty |  |  |  |  |
| 2.5.5                   | Select again                            | Repeat steps of 2.1, and select python/9496 again  | The critical path should be the same as 2.1   | Manual | Pass |   |  |  |  |  |
| 2.6                     | Re-opening                              | Close the django-client trace, reopen it and repeat steps of 2.1   | The Critical Path View should be populated like in step 2.1   | Manual | Pass |   |  |  |  |  |
| 2.7                     | Populate the view with experiment       | Repeat steps of 2.1, but with the django-experiment instead  | The LTTng kernel exec graph is executed and at the end, the critical path view is populated with elements from the 3 traces.                            | Manual | Pass |   |  |  |  |  |
| 2.8                     | Populate with trace with time selection | Re-open django-client trace. In the Control Flow View, select a time after the python process exited, then follow the python/9496 process  | The Critical Path View should be populated like in step 2.1   | Manual | Pass | Everything works but is unuseably slow                |  |  |  |  |
| <b>3 Mouse handling</b> |   |  |   |        |      |   |  |  |  |  |
| 3.1                     | Drag move time range                    | Ctrl-Drag move time graph left and right with middle button  | Time range is dragged. When mouse button is released, states are updated and new time range is propagated to other views.                               | Manual | Pass |   |  |  |  |  |

|          |  |   |  |        |      |  |  |  |  |
|----------|--|---|--|--------|------|--|--|--|--|
| 3.2      | Zoom time range (mouse wheel)                    | Zoom with mouse wheel up and down, cursor inside time graph while holding the Ctl button  | Time range is zoomed in and out, relative to mouse cursor. When mouse wheel is stopped for a short time, states are updated and new time range is propagated to other views.   | Manual | Pass |  |  |  |  |
| 3.3      | Zoom time range (mouse drag)                     | Drag in time graph scale left and right with left button  | Time range is zoomed in and out. When mouse button is released, states are updated and new time range is propagated to other views.  | Manual | Pass |  |  |  |  |
| 3.4      | Mouse vertical scroll                            | Scroll with mouse wheel up and down, cursor outside time graph  | Table and time graph scroll up and down and remain aligned. Selected worker does not change. Vertical scroll bar updated.  | Manual | Pass | zoom on 4 lines?   |  |  |  |
| 3.5      | Vertical scroll bar                              | Click and drag vertical scroll bar  | Table and time graph scroll up and down and remain aligned. Selected process does not change.  | Manual | Pass |  |  |  |  |
| 3.6      | Drag select time range                           | Drag select time graph with right button  | Selection highlighted. When mouse button is released, time range is zoomed to selection, states are updated and new time range is propagated to other views.   | Manual | Pass |  |  |  |  |
| 3.7      | Double-click reset time range                    | Double-click left button on time scale  | Time range is reset to full range, states are updated and new time range is propagated to other views.   | Manual |      |  |  |  |  |
| 3.8      | Mouse hover (empty region)                       | Hover mouse in time graph over empty region   | Tool tip shows process name only.  | Manual | Pass | Shows PID also   |  |  |  |
| 3.9      | Mouse hover (state)                              | Hover mouse in time graph over state  | Tool tip shows worker name, state name, priority, date, start time, end time, duration.  | Manual | Pass |  |  |  |  |
| 3.10     | Drag mouse selection                             | Drag select time graph with left button   | Selection highlighted. Status bar of Eclipse is updated with time information: T, T1, T2 and delta, where T is the time of the mouse position, T1 the first selected time, T2 the second (dragged) selected time and delta the time difference between T2-T1 (can be negative) | Manual | Pass |  |  |  |  |
| 3.11     | Shift key selection                              | Click select with left button (begin time), press shift key and click select another time (end time)  | Selection highlighted. Status bar of Eclipse is updated with time information: T, T1, T2 and delta, where T is the time of the mouse position, T1 the first selected time, T2 the second (dragged) selected time and delta the time difference between T2-T1 (can be negative) | Manual | Pass |  |  |  |  |
| <b>4</b> | <b>Keyboard handling</b>                         |   |  |        |      |  |  |  |  |
| 4.1      | Keyboard navigation in table (process selection) | With focus on table, use UP, DOWN, HOME, END keys   | Selected process is changed. Time graph selection is updated. Vertical scroll bar updated.   | Manual | Pass |  |  |  |  |
| 4.2      | Keyboard navigation in table (tree expansion)    | With focus on table, in Windows use LEFT, RIGHT keys while trace or worker is selected<br><br>in Linux use SHIFT LEFT, RIGHT keys while trace or worker is selected | For trace, tree is expanded or collapsed. Time graph item expansion is updated. Vertical scroll bar updated. For workers, it does nothing.   | Manual | Fail | ELX3.1, does not expand/collapse on host nor workers. just goes to next time event in the graph? |  |  |  |

|                            |   |  |   |        |      |  |  |  |  |
|----------------------------|---|--|---|--------|------|--|--|--|--|
| 4.3                        | Keyboard navigation in time graph (process selection) | With focus on time graph, use UP, DOWN, HOME, END keys   | Selected worker is changed. Table selection is updated. Vertical scroll bar updated.  | Manual | Pass |  |  |  |  |
| 4.4                        | Keyboard navigation in time graph (state selection)   | With focus on time graph, use LEFT, RIGHT keys   | Previous or next state is selected. Selected time is updated in other views.  | Manual | Pass |  |  |  |  |
| <b>5 Tool bar handling</b> |   |  |   |        |      |  |  |  |  |
| 5.1                        | Align views   | Click on the Align View Button, with another time graph view, eg the Control Flow view opened above or under     | When it is pressed, moving the line between tree viewer and time graph will move the line of the other view. If not pressed, the line can be moved without affecting the other views            | Manual | Pass | Views align whether link views is selected or not          |  |  |  |
| 5.2                        | Show Legend   | Click Show Legend button   | The legend dialog is opened and can be closed.  | Manual | Pass |  |  |  |  |
| 5.3                        | Reset Time Scale                                      | Click Reset Time Scale button  | Time range is reset to full range, states are updated and new time range is propagated to other views.  | Manual | Pass |  |  |  |  |
| 5.4                        | Select Previous/Next Event                            | Click Previous/Next Event button   | Previous or next state is selected. Selected time is updated in other views.  | Manual | Pass |  |  |  |  |
| 5.5                        | Select Previous/Next Element                          | Click Previous/Next Element button   | Selected worker is changed in table and time graph. Vertical scroll bar updated.  | Manual | Pass |  |  |  |  |
| 5.6                        | Zoom In/Out   | Click Zoom In/Out button   | Time range is zoomed in and out, relative to center of selection or window. States are updated and new time range is propagated to other views.   | Manual | Pass |  |  |  |  |
| 5.7                        | Add Bookmark  | Select a time, and click on the Add Bookmark button  | The bookmark is added and is displayed in the other views as well (if enabled)  | Manual | Pass |  |  |  |  |
| 5.8                        | Next/Previous marker                                  | Add more bookmarks, then click on the next/previous marker buttons   | The time graph view navigate between the bookmarks, States are updated and time selection is propagated to other views. When on a bookmark, the Add bookmark buttons changes to Delete bookmark | Manual | Pass |  |  |  |  |
| 5.9                        | Delete bookmark                                       | With next/previous marker, when on a bookmark, click the delete bookmark button                                  | The bookmark is deleted from all views  | Manual | Pass |  |  |  |  |
| 5.11                       | Do not show markers                                   | Click on the down arrow at the extreme right of the view, then expand Show markers and uncheck the Bookmarks box | All remaining bookmarks disappear from the view, but remain in other views where they are enabled   | Manual | Pass | Marker context menu does not work, view context menu works |  |  |  |
| 5.12                       | Show markers  | Same as above, recheck the Bookmarks box   | The bookmarks come back   | Manual | Pass | Marker context menu does not work, view context menu works |  |  |  |
| <b>6 Synchronization</b>   |   |  |   |        |      |  |  |  |  |
| 6.1                        | Time synchronization                                  | Select a random time in another view   | Selected time line is updated. If selected time is outside current range, time range is updated to include it.  | Manual | Pass |  |  |  |  |
| 6.2                        | Window range synchronization                          | Select a new window range in another view  | Window range is updated.  | Manual | Pass |  |  |  |  |

|     |                                 |   |   |        |      |  |  |  |  |  |
|-----|---------------------------------|---|---|--------|------|--|--|--|--|--|
| 6.3 | Selection range synchronization | In any other view that supports selection range synchronization, select a new range.  | Selection is highlighted. If the left time (T1) of selected time range is outside the current range, then window range is updated to include it | Manual | Pass |  |  |  |  |  |
| 6.4 | Out of region selection         | With a critical path displayed, select a time in another view that is not in the range of the process being displayed in the critical path view | Selected time is updated and the critical path view is synced with the other  | Manual | Pass |  |  |  |  |  |

| Section                           |                            | Pass  | Fail  | To Do | Comment                                    |
|-----------------------------------|----------------------------|---|---|-------|--|
| LAMI                              |                            | 18  | 0   | 0     | 0  |
| Target: Ubuntu 14.04 64 b         |                            |   |   |       |  |
| Step                              | Test Case                  | Action  | Verification  |       | Comment                                    |
| <b>0 Prerequisites</b>            |                            |   |   |       |  |
| 0.1                               | Import traces              | any trace since we use stub for the result  |   |       |  |
| 0.2                               | Download analysis stubs    | https://bugs.eclipse.org/bugs/attachment.cgi?id=263946<br>from bug: https://bugs.eclipse.org/bugs/show_bug.cgi?id=493941  |   |       |  |
| <b>1 Custom external analysis</b> |                            |   |   |       |  |
|                                   |                            | Create the following analysis (\$name, \$command):<br><br>analysisEmpty, analysisEmpty<br>analysisMultipleRow, analysisMultipleRow<br>analysisMultipleSimilarRow, analysisMultipleSimilarRow<br>analysisOneRow, analysisOneRow<br>multipleReports, multipleReports<br>invalidAnalysis, invalidAnalysis<br>errorResult, errorResult<br>clone, analysisOneRow<br><br>Right click on "External Analyses" node<br>Click the "add" action<br>Insert \$name<br>Insert "fullpath/\$executable" which is the full path to the stub executable.<br>ex: "tmp/stub/stubAnalysis" where stubAnalysis is the stub executable<br>The path do NOT support ~ or relative path | All new external analysis are present under the "External Analysis" node in the Project explorer view.<br>All new elements do NOT have the strikethrough text style applied EXCEPT for the tuple (invalidAnalysis, invalidAnalysis)   |       |  |
| 1.1                               | Add all stubs analysis     |   |   | Pass  | Takes a long time to be not struck through |
| 1.2                               | Actions availables         | Right click on a non-strikethrough custom analysis.   | The run action can be clicked and in enabled text mode.   | Pass  |  |
|                                   | Actions availables         | Right click on a strikethrough custom analysis.   | The run action CANNOT be clicked and is in disabled text mode.  | Pass  |  |
| 1.3                               | Delete analysis            | Right click on the tuple (clone, invalidAnalysis)<br>Select the delete action for the node  | The analysis does not appear in the list anymore.   | Pass  |  |
| 1.4                               | Run analysis               | Launch remaining analysis via righ-click and run action   | analysisEmpty should return a message to the user regarding the emptiness of the report.<br>errorResult should return an error message to the user and display the result of the comm<br>All other one have result and should result in a new table and new report node under the r | Pass  |  |
| <b>2 Reports</b>                  |                            |   |   |       |  |
| 2.1                               | Reports node               | Expand the "Reports" node under the Project Explorer  | The "Reports" node under the Project Explorer should contain 4 report:<br>analysisMultipleRow Report<br>analysisMultipleSimilarRow Report<br>analysisOneRow Report<br>multipleReports   | Pass  |  |
| 2.2                               | Same name report           | Execute the "analysisOneRow" analysis again.  | An additional node should be present under the "Reports" node:<br>analysisOneRow Report #2<br><br>Note: This behaviour is subject to change in the following year but still an action will be taken on same name report creation.   | Pass  |  |
| 2.3                               | Delete node                | Right click on the duplicate "analysis OneRow" node and click on the delete action  | The node reports is not present anymore   | Pass  |  |
| 2.4                               | Open a report              | Right click on any report and select the "open" action  | A new panel should open with the result table of the analysis   | Pass  |  |
| 2.5                               | Open the same report again | Right click again on the same report to open it   | A new panel should open with the result table of the analysis   | Pass  |  |
| 2.6                               | Multiple report            | Open the "multipleReports" report.  | Validate that a user is able to navigate between sub tab of a report  | Pass  |  |
| <b>3 Result Table</b>             |                            |   |   |       |  |
| 3.1                               | Prerequisites              | Open the "analysisMultipleRowReport"  |   | Pass  |  |
| 3.2                               | Hide table                 | Click the "Toggle" button in the right corner of the result table   | The result table is hidden  | Pass  |  |
| 3.3                               | Show table                 | Click the "Toggle" button in the right corner of the result table   | The result table is shown   | Pass  |  |
| 3.4                               | Sorting                    | Sort all column by clicking on the column name. Clicking multiple time on the name should change the ordering sorter.   | Validate that the order make sense  | Pass  |  |
| 3.5                               | Column Resizing            | Resize the column   | Validate that the resize works  | Pass  |  |
| 3.6                               | Multiple selection         | Select multiple rows by holding ctrl and clicking on multiple unselected rows of the table  | Multiple selections are highlighted in the table  | Pass  |  |
| 3.7                               | Unselect selection         | Deselect multiple rows by holding ctrl and clicking on multiple selected rows of the table  | The clicked row should not be selected anymore  | Pass  |  |
| <b>4 Bar Chart</b>                |                            |   |   |       |  |
| 4.1                               | Create                     | Use the menu on the upper right of the result table and select "create bar chart"   | Note: a bar chart does NOT perform agregation of categories values  |       |  |
| 4.2                               | Series dialog add          | Select any x and any y click add  | Series are added to the series list   | Pass  |  |
| 4.3                               | Series dialog remove       | Remove all newly created series via the delete button   | User should be able to delete series  | Pass  |  |

|          |                        |   |   |      |
|----------|------------------------|---|---|------|
| 4.4      | Creat chart            | Select any x and y and click add and "ok"   | A bar chart should be created<br>Note: a bar chart does NOT perform agregation of categories values                                     | Pass |
| 4.5      | Selection              | Click on any bar inside the chart   | The corresponding row should be selected in the table and the chart should highlight the selected bar                                   | Pass |
| 4.6      | Multi selection        | Ctrl+click on other unselected bar  | Selections should be highlighted in the result table and the chart  | Pass |
| 4.7      | Deselection            | Ctrl+click on other selected bar  | The clicked bar should be removed from selection and the result table update with the current selections                                | Pass |
| 4.8      | Y axis                 | Recreate the same graph but with the y log scale option enabled                       | Y axis should be in log scale mode<br>Note: check for zero value and negative handling since log scale do not support zero and negative | Pass |
| 4.9      | Keep the chart open    | Keep the chart open   |   | Pass |
| 4.10     | Hide the table results | Hide the table results  |   | Pass |
| <b>5</b> | <b>Scatter Chart</b>   |   |   |      |
| 5.1      | Create                 | Use the menu on the upper right of the result table and select "create scatter chart" |   |      |
| 5.2      | Creat chart            | Select any x and y and click add and "ok"   | A scatter chart should be created   | Pass |
| 5.3      | Selection              | Should be the same behaviour as the bar chart   | Should be the same behaviour as the bar chart   | Pass |
| 5.4      | Multi selection        | Should be the same behaviour as the bar chart   | Should be the same behaviour as the bar chart   | Pass |
| 5.5      | Deselection            | Should be the same behaviour as the bar chart   | Should be the same behaviour as the bar chart   | Pass |
| 5.6      | Mouse hovering         | Hover mouse in the graph  | On mouse hovering a cross should snap to the nearest point  | Pass |
| 5.7      | Full deselection       | Click in the chart when no hovering cross is present                                  | All selected objects should be deselected   | Pass |

| Section |                                     | Pass   | Fail  | Type   | To Do   | Comment   |
|---------|-------------------------------------|--|---|--------|---------|---|
|         | LTTng 2.0 - I/O Analysis            | 21   | 0   | 5      | 0       | 4   |
| Target: |                                     |  |   |        |         |   |
| Step    | Test Case                           | Action   | Verification  | Type   | Comment |   |
| 0       | Prerequisites                       |  |   |        |         |   |
| 0.1     | Import traces                       | Import LTTng Kernel traces in Tracing project  |   |        |         |   |
| 1       | Project View                        |  |   |        |         |   |
| 1.1     | Check analysis can execute          | In the project explorer, expand a LTTng Kernel trace   | "Input/Output" analysis is present and "normal" (not striked-out) | SWTBot | Pass    | Bruno : In the 'Views' tree item, there is a Input/Output item, but im not sure what it means to be 'normal'<br>Geneviève: normal is not striked-out (added it to the verif step), it is a pass |
| 1.2     | Verify help message when applicable | In the project explorer, open and expand the LTTng kernel trace, right-click the Input/Output analysis and select Help | A generic help message appears with the name of the analysis      | Manual | Pass    | Bruno : The help message doesn't explain much   |
|         |                                     |  |   |        |         | 84702   |



|          |                                       |   |  |        |      |       |
|----------|---------------------------------------|---|--|--------|------|-------|
| 1.5      | Check analysis for another trace type | In the project explorer, expand a non-LTTng Kernel trace                                  | "Input/Output" analysis is not present   | SWTBot | Pass | 84702 |
| <b>2</b> | <b>View Management</b>                |   |  |        |      |       |
| 2.1      | Populate analysis's view              | Open an LTTng kernel trace and expand the "Input/Output" analysis in the project explorer | "Disk I/O Activity" View appears under the analysis  | SWTBot | Pass |       |
| 2.2      | Open view                             | Double-click the Disk I/O Activity View under the Input/Output analysis                   | The Disk I/O Activity view opens and triggers the input/output analysis. After the analysis, the xy charts is populated. | SWTBot | Pass |       |
| 2.3      | Close trace                           | Close the trace   | The Disk I/O Activity view is emptied.   | Manual | Pass |       |
| 2.4      | Open trace                            | With the view already opened, open the trace  | The Disk I/O Activity view is populated.   | Manual | Pass |       |
| 2.5      | Close view                            | Close the Disk I/O Activity view  | The view is closed.  | Manual | Pass |       |

|          |                               |  |  |        |      |  |  |
|----------|-------------------------------|--|--|--------|------|--|--|
| 2.6      | Re-open view                  | Double-click the Disk I/O Activity view under the Input/Output analysis in project explorer. | The view opens and is automatically populated.   | Manual | Pass |  |  |
| <b>3</b> | <b>View selection</b>         |  |  |        |      |  |  |
| <b>4</b> | <b>Mouse handling</b>         |  |  |        |      |  |  |
| 4.1      | Drag move time range          | Drag move xy chart left and right with middle button   | Time range is dragged. When mouse button is released, series are updated and new time range is propagated to other views.  | Manual | Pass |  |  |
| 4.2      | Zoom time range (mouse wheel) | Zoom with mouse wheel up and down, cursor inside xy chart                                    | Time range is zoomed in and out, relative to mouse cursor. When mouse wheel is stopped for a short time, series are updated and new time range is propagated to other views. | SWTBot | Pass |  |  |

|     |                      |  |  |        |      |  |  |
|-----|----------------------|--|--|--------|------|--|--|
| 4.3 | Drag zoom time range | Drag select time graph with right button in xy chart   | Selection highlighted. When mouse button is released, time range is zoomed to selection, series are updated and new time range is propagated to other views. | Manual | Pass |  |  |
| 4.4 | Mouse hover          | Hover mouse in xy chart region anywhere  | Tool tip shows the puntual disk activity, with units in <unit>/s   | Manual | Pass | The tool tip is showing but is not following the mouse, so the infos are updated but the black box remain at the original place. |  |
| 4.5 | Drag mouse selection | Drag select xy chart with left button  | Selection highlighted and selection range is propagated to other views   | Manual | Pass |  |  |
| 4.6 | Shift key selection  | Click select with left button (begin time), press shift key and click select another time (end time) | Selection highlighted and selection rang is propagated to other views  | Manual | Pass |  |  |

|      |                                   |                                       |  |        |      |  |
|------|-----------------------------------|---------------------------------------|--|--------|------|--|
| 4.70 | Drag mouse selection (Status bar) | Drag select xy chart with left button | Selection highlighted. Status bar of Eclipse is updated with time information: T, T1, T2 and delta, where T is the time of the mouse position, T1 the first selected time, T2 the second (dragged) selected time and delta the time difference between T2-T1 (can be negative) | Manual | Pass |  |
|------|-----------------------------------|---------------------------------------|--|--------|------|--|

|     |                                  |  |  |        |      |  |  |
|-----|----------------------------------|--|--|--------|------|--|--|
| 4.8 | Shift key selection (Status bar) | Click select with left button (begin time), press shift key and click select another time (end time) | Selection highlighted. Status bar of Eclipse is updated with time information: T, T1, T2 and delta, where T is the time of the mouse position, T1 the first selected time, T2 the second (dragged) selected time and delta the time difference between T2-T1 (can be negative) | Manual | Pass |  |  |
| 5   | <b>Keyboard handling</b>         |  |  |        |      |  |  |
| 6   | <b>Synchronization</b>           |  |  |        |      |  |  |
| 6.1 | Time synchronization             | Select a random time in another view   | Selected time line is updated. If selected time is outside current range, time range is updated to include it.   | Manual | Pass |  |  |

|     |  |  |  |        |      |  |  |
|-----|--|--|--|--------|------|--|--|
| 6.2 | Time range synchronization               | Select a new time range in Disk I/O Activity view or in Histogram view.    | Time range is updated.   | Manual | Pass |  |  |
| 6.3 | Time range selection synchronisation     | In any other view that supports range synchronization, select a new range. | Selection is highlighted. If the most left time (T1) of selected time range is outside the current range, then time range is updated to include it | Manual | Pass |  |  |
| 6.4 | Disk I/O Activity works with experiments |  |  | Manual | Pass |  |  |

| Section                  |                        | Pass  | Fail                                    | To Do  | Comment |   |
|--------------------------|------------------------|---|---|--------|---------|---|
| LTTng 2.0 - VM Analysis  |                        | 39  | 0                                       | 0      | 0       | 5 |
| Target:                  |                        |   |   |        |         |   |
| Step                     | Test Case              | Action  | Verification                            |        | Comment |   |
| <b>0 Prerequisites</b>   |                        |   |   |        |         |   |
| 0.1                      | Import traces          | Download traces here: <a href="https://secretaire.dorsal.polymtl.ca/~gbastien/tracingSummit2014/mpl_traces.tgz">https://secretaire.dorsal.polymtl.ca/~gbastien/tracingSummit2014/mpl_traces.tgz</a> and import the 3 kernel traces in the vmnet directory |   |        |         |   |
| 0.2                      | Create experiment      | Create an experiment with the 3 traces in it  |   |        |         |   |
| 0.3                      | Synchronize experiment | Synchronize the experiment, it should be accurate and 2 of the traces will be updated   |   |        |         |   |
| 0.4                      | Set experiment type    | Right-click the experiment, click "Select experiment type..." and select "Virtual Machine Experiment"   |   |        |         |   |
| <b>1 View management</b> |                        |   |   |        |         |   |
| 1.1                      | Analysis present       | Expand the Views element of the experiment  | The Virtual Machine Analysis is present | Manual | Pass    |   |

|          |                                   |   |   |        |      |  |  |  |  |  |  |
|----------|-----------------------------------|---|---|--------|------|--|--|--|--|--|--|
| 1.2      | Open experiment                   | Open the vm experiment in Project Explorer  | Expand the Views element under the trace, then the Virtual Machine Analysis element. The Virtual CPU view is present                  | Manual | Pass | VM experiment and normal experiment need visual differentiators.                 |  |  |  |  |  |
| 1.3      | Open view                         | Expand the Views element, then the Virtual Machine analysis and click on the Virtual CPU View | Virtual CPU view is opened, the virtual machine analysis is triggered and the view gets filled  | Manual | Pass | launches kernel exec graph which take a very long time, slow indexing throughput |  |  |  |  |  |
| 1.4      | Close view                        | Close the Virtual CPU View  | Virtual CPU view is closed  | Manual | Pass |  |  |  |  |  |  |
| 1.6      | Unapplicable experiment           | Open an experiment that is not of Virtual Machine Experiment type                             | Expand the Views element under the trace. There is no Virtual Machine Analysis.   | Manual | Pass | django exp   |  |  |  |  |  |
| <b>2</b> |                                   |   |   |        |      |  |  |  |  |  |  |
| 2.1      | Populate the view with experiment | With the VM experiment, open the Virtual CPU View   | The view is populated with the VM element as the only parent and 2 virtual guests having 3 VCPUs each and a collapsed Threads entries | Manual | Pass |  |  |  |  |  |  |
| 2.2      | View guest's threads              | Expand the Threads entry of a guest   | A list of processes is shown, in numerical order and their time graph viewer part is filled   | Manual | Pass |  |  |  |  |  |  |



|          |                               |  |  |        |      |  |  |  |  |  |  |
|----------|-------------------------------|--|--|--------|------|--|--|--|--|--|--|
| 2.3      | VM specific states            | Zoom in the VCPUs time graph around the "interesting" region, where there is more action (around the second half of the trace) | 2 new states are easily recognizable: WAIT_VMM and VCPU_PREEMPTED  | Manual | Pass |  |  |  |  |  |  |
| 2.4      | Preempted thread states       | Select a region with the CPU_PREEMPTED state and scroll down the threads entries to around 405-406: mpi-imbalance processes    | We can observe alpha'ed states corresponding to the cpu preempted states   | Manual | Pass |  |  |  |  |  |  |
| 2.5      | Re-opening                    | Close the VM experiment, reopen it   | The view is populated again  | Manual | Pass |  |  |  |  |  |  |
| <b>3</b> | <b>Mouse handling</b>         |  |  |        |      |  |  |  |  |  |  |
| 3.1      | Drag move time range          | Ctrl-Drag move time graph left and right with middle button  | Time range is dragged. When mouse button is released, states are updated and new time range is propagated to other views.  | Manual | Pass |  |  |  |  |  |  |
| 3.2      | Zoom time range (mouse wheel) | Zoom with mouse wheel up and down, cursor inside time graph while holding the Ctl button                                       | Time range is zoomed in and out, relative to mouse cursor. When mouse wheel is stopped for a short time, states are updated and new time range is propagated to other views. | Manual | Pass |  |  |  |  |  |  |

|     |                               |  |  |        |      |  |  |  |  |  |  |  |  |
|-----|-------------------------------|--|--|--------|------|--|--|--|--|--|--|--|--|
| 3.3 | Zoom time range (mouse drag)  | Drag in time graph scale left and right with left button       | Time range is zoomed in and out. When mouse button is released, states are updated and new time range is propagated to other views.                          | Manual | Pass |  |  |  |  |  |  |  |  |
| 3.4 | Mouse vertical scroll         | Scroll with mouse wheel up and down, cursor outside time graph | Table and time graph scroll up and down and remain aligned. Selected worker does not change. Vertical scroll bar updated.                                    | Manual | Pass |  |  |  |  |  |  |  |  |
| 3.5 | Vertical scroll bar           | Click and drag vertical scroll bar                             | Table and time graph scroll up and down and remain aligned. Selected process does not change.  | Manual | Pass |  |  |  |  |  |  |  |  |
| 3.6 | Drag select time range        | Drag select time graph with right button                       | Selection highlighted. When mouse button is released, time range is zoomed to selection, states are updated and new time range is propagated to other views. | Manual | Pass |  |  |  |  |  |  |  |  |
| 3.7 | Double-click reset time range | Double-click left button on time scale                         | Time range is reset to full range, states are updated and new time range is propagated to other views.   | Manual | Pass |  |  |  |  |  |  |  |  |
| 3.8 | Mouse hover (empty region)    | Hover mouse in time graph over empty region                    | Tool tip shows process name only.  | Manual | Pass |  |  |  |  |  |  |  |  |
| 3.9 | Mouse hover (state)           | Hover mouse in time graph over state                           | Tool tip shows entry name, state name, date, start time, end time, duration.   | Manual | Pass |  |  |  |  |  |  |  |  |

|                            |   |   |  |        |      |  |  |  |  |  |
|----------------------------|---|---|--|--------|------|--|--|--|--|--|
| 3.10                       | Drag mouse selection                                  | Drag select time graph with left button   | Selection highlighted. Status bar of Eclipse is updated with time information: T, T1, T2 and delta, where T is the time of the mouse position, T1 the first selected time, T2 the second (dragged) selected time and delta the time difference between T2-T1 (can be negative) | Manual | Pass |  |  |  |  |  |
| 3.11                       | Shift key selection                                   | Click select with left button (begin time), press shift key and click select another time (end time)  | Selection highlighted. Status bar of Eclipse is updated with time information: T, T1, T2 and delta, where T is the time of the mouse position, T1 the first selected time, T2 the second (dragged) selected time and delta the time difference between T2-T1 (can be negative) | Manual | Pass |  |  |  |  |  |
| <b>4 Keyboard handling</b> |   |   |  |        |      |  |  |  |  |  |
| 4.1                        | Keyboard navigation in table (process selection)      | With focus on table, use UP, DOWN, HOME, END keys   | Selected entry is changed. Time graph selection is updated. Vertical scroll bar updated.   | Manual | Pass |  |  |  |  |  |
| 4.2                        | Keyboard navigation in table (tree expansion)         | With focus on table, in Windows use LEFT, RIGHT keys while expandable element is selected<br>in Linux use SHIFT LEFT, RIGHT keys while expandable element is selected | For expandable element, tree is expanded or collapsed. Time graph item expansion is updated. Vertical scroll bar updated. For other entries, it does nothing.  | Manual | Pass | SHIFT LEFT/RIGHT does not do anything on linux |  |  |  |  |
| 4.3                        | Keyboard navigation in time graph (process selection) | With focus on time graph, use UP, DOWN, HOME, END keys  | Selected entry is changed. Table selection is updated. Vertical scroll bar updated.  | Manual | Pass |  |  |  |  |  |
| 4.4                        | Keyboard navigation in time graph (state selection)   | With focus on time graph, use LEFT, RIGHT keys  | Previous or next state is selected. Selected time is updated in other views.   | Manual | Pass |  |  |  |  |  |
| <b>5 Tool bar handling</b> |   |   |  |        |      |  |  |  |  |  |

|     |                              |  |  |        |      |   |  |  |  |  |  |  |
|-----|------------------------------|--|--|--------|------|---|--|--|--|--|--|--|
| 5.1 | Align views                  | Click on the Align View Button, with another time graph view, eg the Control Flow view opened above or under | When it is pressed, moving the line between tree viewer and time graph will move the line of the other view. If not pressed, the line can be moved without affecting the other views | Manual | Pass | CFV, ResourcesView still move when the align button is deselected |  |  |  |  |  |  |
| 5.2 | Show Legend                  | Click Show Legend button   | The legend dialog is opened and can be closed.   | Manual | Pass |   |  |  |  |  |  |  |
| 5.3 | Reset Time Scale             | Click Reset Time Scale button  | Time range is reset to full range, states are updated and new time range is propagated to other views.   | Manual | Pass |   |  |  |  |  |  |  |
| 5.4 | Select Previous/Next Event   | Click Previous/Next Event button   | Previous or next state is selected. Selected time is updated in other views.   | Manual | Pass | State works   |  |  |  |  |  |  |
| 5.5 | Select Previous/Next Element | Click Previous/Next Element button   | Selected entry is changed in table and time graph. Vertical scroll bar updated.  | Manual | Pass |   |  |  |  |  |  |  |
| 5.6 | Zoom In/Out                  | Click Zoom In/Out button   | Time range is zoomed in and out, relative to center of selection or window. States are updated and new time range is propagated to other views.                                      | Manual | Pass |   |  |  |  |  |  |  |
| 5.7 | Add Bookmark                 | Select a time, and click on the Add Bookmark button  | The bookmark is added and is displayed in the other views as well (if enabled)   | Manual | Pass |   |  |  |  |  |  |  |

|                          |                                 |  |   |        |      |  |  |  |  |  |  |
|--------------------------|---------------------------------|--|---|--------|------|--|--|--|--|--|--|
| 5.8                      | Next/Previous marker            | Add more bookmarks, then click on the next/previous marker buttons   | The time graph view navigate between the bookmarks, States are updated and time selection is propagated to other views. When on a bookmark, the Add bookmark buttons changes to Delete bookmark | Manual | Pass |  |  |  |  |  |  |
| 5.9                      | Delete bookmark                 | With next/previous marker, when on a bookmark, click the delete bookmark button                                  | The bookmark is deleted from all views  | Manual | Pass |  |  |  |  |  |  |
| 5.11                     | Do not show markers             | Click on the down arrow at the extreme right of the view, then expand Show markers and uncheck the Bookmarks box | All remaining bookmarks disappear from the view, but remain in other views where they are enabled   | Manual | Pass | Bookmarks are not hidden by the markers' contextual menu, but are hidden by the view's contextual menu |  |  |  |  |  |
| 5.12                     | Show markers                    | Same as above, recheck the Bookmarks box   | The bookmarks come back   | Manual | Pass |  |  |  |  |  |  |
| <b>6 Synchronization</b> |                                 |  |   |        |      |  |  |  |  |  |  |
| 6.1                      | Time synchronization            | Select a random time in another view   | Selected time line is updated. If selected time is outside current range, time range is updated to include it.  | Manual | Pass |  |  |  |  |  |  |
| 6.2                      | Window range synchronization    | Select a new window range in another view  | Window range is updated.  | Manual | Pass |  |  |  |  |  |  |
| 6.3                      | Selection range synchronization | In any other view that supports selection range synchronization, select a new range.                             | Selection is highlighted. If the left time (T1) of selected time range is outside the current range, then window range is updated to include it   | Manual | Pass |  |  |  |  |  |  |

| Section  |                                    | Pass  | Fail  | To Do  | Comment |         |
|----------|------------------------------------|---|---|--------|---------|---------|
|          | Flame Graph                        | 17  | 2   | 11     | 0       | 3       |
| Target:  | Windows 7 64 bit                   |   |   |        |         |         |
|          |                                    |   |   |        |         |         |
| Step     | Test Case                          | Action  | Verification  |        |         | Comment |
| <u>0</u> | <u>Download the test resources</u> | <a href="#">Download this</a>   |   |        |         |         |
| <b>1</b> | <b>Preparation</b>                 |   |   |        |         |         |
| 1.1      | Open TMF Flame Graph View          | Use menu<br>Window → Show<br>View → Tracing<br>→ Flame Graph  | Verify that 'Flame<br>Graph View' view<br>is shown  | SWTBot | Pass    |         |
| 1.2      | Import generic trace               | Import a trace<br>that does not have<br>any call stack<br>information, like<br>a standard kernel<br>trace | Verify that<br>nothing is shown<br>in the view  | SWTBot | Pass    |         |
| 1.3      | Import cyg-profile trace           | Import the trace<br>in the "trace"<br>directory of the<br>downloaded zip                                  | Verify that the<br>Flame Graph<br>View is populated<br>with some<br>callers/callees<br>information. | SWTBot | Pass    |         |
| 1.4      | Import cyg-profile-fast trace      | Import a trace in<br>the "trace-fast"<br>directory of the<br>downloaded zip                               | Verify that the<br>Flame Graph<br>View is populated<br>with some<br>callers/callees<br>information. | SWTBot | Pass    |         |
|          |                                    |   |   |        |         |         |
| <b>2</b> | <b>Manage View</b>                 |   |   |        |         |         |

|     |  |   |  |        |      |                     |
|-----|--|---|--|--------|------|---------------------|
| 2.1 | Close view                             | Close the 'Flame Graph' View  | Flame Graph' view is removed from perspective  | SWTBot | Pass |                     |
| 2.2 | Open view                              | Use menu Window → Show View → Other ... → Tracing → Flame Graph   | Flame Graph' view is displayed and re-populated  | SWTBot | Pass |                     |
| 2.3 | Open Trace                             | Open "trace(-fast)" trace   | Verify that view is populated with callers/callees information                           | SWTBot | Fail | Fail with fibonacci |
| 2.4 | Open view when trace is already loaded | 1) Close 'Flame Graph' view<br>2) Open "glxgears-cyg-profile(-fast)" trace located in the git in ctf test<br>3) Open 'Flame Graph' view | Verify that view is populated with callers/callees information                           | SWTBot | Pass |                     |
| 2.5 | Open Experiment                        | Open Experiment with 2 or more Flame Graph traces. (You can use both traces)  | Verify that view is populated with all callers/callees information (separated by trace). | Manual | Fail | Fail with fibonacci |
| 2.6 | Restart                                | Restart Eclipse with Flame Graph trace opened   | Verify that view is populated with callers/callees from trace                            | Manual | Pass |                     |

|                               |                      |  |  |        |      |
|-------------------------------|----------------------|--|--|--------|------|
| 2.7                           | Close all traces     | Close traces and experiment one by one from the editor tab   | Verify that Flame Graph view is cleared after closing the last trace | Manual | Pass |
| <b>3      Sorting</b>         |                      |  |  |        |      |
| 3.1                           | Thread name sorting  | Open a trace multiple Flame Graph thread or open experiment with 2 or more Flame Graph traces. Then select 'Sort threads by thread name' | The view is sorted by thread name.                                   | Manual | Pass |
| 3.2                           | Thead id sorting     | Open a trace multiple Flame Graph thread or open experiment with 2 or more Flame Graph traces. Then select 'Sort threads by thread id'   | The view is sorted by thread id.                                     | Manual | Pass |
| <b>4      Synchronization</b> |                      |  |  |        |      |
| 4.1                           | Time synchronization | Select a random time in another view   | Selected time line is not updating. Nothing happen.                  | Manual | Pass |



|                               |                      |  |   |        |      |  |
|-------------------------------|----------------------|--|---|--------|------|--|
| 4.2                           | Go to maximum        | 1. Open the 'Call Stack' View<br>2. In the 'Flame Graph' view, right-click on a random entry in the graph<br>3. Select 'go to maximum'                 | - The 'Call Stack' view is populated<br>- The call stack view is synchronised to the range of the maximum call duration of the 'Flame Graph' selected entry | Manual | Pass |  |
| 4.3                           | Go to minimum        | 1. Open the 'Call Stack' View<br>2. In the 'Flame Graph' view, right-click on a random entry in the graph<br>3. Select 'go to minimum'                 | - The 'Call Stack' view is populated<br>- The call stack view is synchronised to the range of the minimum call duration of the 'Flame Graph' selected entry | Manual | Pass |  |
| <b>5 Function name import</b> |                      |  |   |        |      |  |
| 5.1                           | Function name import | 1. Open the 'Call Stack' view with the 'Flame Graph' view and the cyg-profile trace opened<br>2. Import 'cyg-profile-mapping.txt' as mapping text file | Both 'Call Stack' and 'Flame Graph' views display function name instead of function address.  | SWTBot | Pass |  |
| <b>5 Mouse handling</b>       |                      |  |   |        |      |  |

|     |                            |   |  |        |      |  |
|-----|----------------------------|---|--|--------|------|--|
| 5.1 | Mouse hover (empty region) | Hover mouse in time graph over empty region | Tool tip shows depth only  | SWTBot | Pass |  |
|     | Mouse hover (state)        | Hover mouse in time graph over state        | Tool tip shows Total time and self times with standard statistics. | SWTBot | Pass |  |

| #        | Section  | Pass  | Fail  | To Do  | Comment |
|----------|--|---|---|--------|---------|
|          | Counters View  | 0   | 0   | 0      | 0       |
| Target:  |  |   |   |        |         |
| Step     | Test Case  | Action  | Verification  |        | Comment |
| <b>1</b> | <b>Preparation</b>   |   |   |        |         |
| 1.1      | Import an LTTng trace (with counters) and non LTTng traces | LTTng trace (with counters): kernel VM in test-traces | In the project explorer, ensure the Counters view icon is only strikethroughed for the non LTTng trace. | Manual | N/A     |
| <b>2</b> | <b>Filtered checkbox tree</b>                              |   |   |        |         |
| 2.1      |  |   |   | Manual | N/A     |
| <b>3</b> | <b>Displaying counters data</b>                            |   |   |        |         |
| 3.1      |  |   |   | Manual | N/A     |
| <b>4</b> | <b>Supporting experiments</b>                              |   |   |        |         |
| 4.1      |  |   |   | Manual | N/A     |
| <b>5</b> | <b>Persistence between traces</b>                          |   |   |        |         |
| 5.1      |  |   |   | Manual | N/A     |

| Section  |  | # Bug Reports |   | # Open | # Fixed     |
|--|--|---------------|---|--------|-------------|
| Bug Reports  |  | 13            |   | 13     | 0           |
| Test Case  | Bug Title  | Found         | Bug Report  | Status |             |
| Sequence Diagram 5.23  | [TMF] Sequence Diagram Overview feature not working well on recent platform versions             | 0.1.0         | <a href="https://bugs.eclipse.org/bugs/show_bug.cgi?id=436442">https://bugs.eclipse.org/bugs/show_bug.cgi?id=436442</a> | Open   |             |
| LTTng 2 - Memory Analysis 3.7, 3.8, CPU Analysis 4.10, 4.11      | [TMF] Status bar is not updated when selecting time range in XY charts                           | 0.1.0         | <a href="https://bugs.eclipse.org/bugs/show_bug.cgi?id=436853">https://bugs.eclipse.org/bugs/show_bug.cgi?id=436853</a> | Open   | Enhancement |
| LTTng 2 - Memory Analysis 4.3, CPU Analysis 6.3, XmlAnalysis 7.3 | [TMF] Time range selection outside current range should update current range in time graph views | 0.1.0         | <a href="https://bugs.eclipse.org/bugs/show_bug.cgi?id=436855">https://bugs.eclipse.org/bugs/show_bug.cgi?id=436855</a> | Open   |             |
| LTTng 2 - Memory Analysis 4.1, CPU Analysis 6.1                  | [TMF] Time selection outside current range should update current range in xy charts              | 0.1.0         | <a href="https://bugs.eclipse.org/bugs/show_bug.cgi?id=436861">https://bugs.eclipse.org/bugs/show_bug.cgi?id=436861</a> | Open   |             |
| Project View 6.5   | [TMF] Original experiment reappears after rename and copy  | 0.1.0         | <a href="https://bugs.eclipse.org/bugs/show_bug.cgi?id=436888">https://bugs.eclipse.org/bugs/show_bug.cgi?id=436888</a> | Open   |             |
| RCP 1.4  | [ltnng rcp] Opening a second trace with --open activates the wrong editor                        | 0.1.0         | <a href="https://bugs.eclipse.org/bugs/show_bug.cgi?id=443461">https://bugs.eclipse.org/bugs/show_bug.cgi?id=443461</a> | Open   |             |
| Sequence Diagram 3.1   | Sequence diagram interaction tooltip is hard to read on Ubuntu                                   | 0.1.0         | <a href="https://bugs.eclipse.org/bugs/show_bug.cgi?id=455523">https://bugs.eclipse.org/bugs/show_bug.cgi?id=455523</a> | Open   |             |
| Sequence Diagram 5.24  | Button gets disabled in print dialog of sequence diagram after clicking on it                    | 0.1.0         | <a href="https://bugs.eclipse.org/bugs/show_bug.cgi?id=455546">https://bugs.eclipse.org/bugs/show_bug.cgi?id=455546</a> | Open   |             |
| Memory analysis 2.4/ CPU Analysis                                | [TMF] XY chart view is cleared after being filled when restarting or opening a trace             | 0.1.0         | <a href="https://bugs.eclipse.org/bugs/show_bug.cgi?id=467751">https://bugs.eclipse.org/bugs/show_bug.cgi?id=467751</a> | Open   |             |
| Control view 17.9  | NPE trying to destroy a session  | 1.0.0         | <a href="https://bugs.eclipse.org/bugs/show_bug.cgi?id=469424">https://bugs.eclipse.org/bugs/show_bug.cgi?id=469424</a> | Open   |             |
| Control view 17.9  | SWTException widget is disposed trying to import trace from Control view                         | 1.0.0         | <a href="https://bugs.eclipse.org/bugs/show_bug.cgi?id=469425">https://bugs.eclipse.org/bugs/show_bug.cgi?id=469425</a> | Open   |             |
| Project view   | Import to experiment will swallow exceptions   | 1.1.0         | <a href="https://bugs.eclipse.org/bugs/show_bug.cgi?id=476475">https://bugs.eclipse.org/bugs/show_bug.cgi?id=476475</a> | Open   |             |
| Time Chart 2.3   | IOException in FlatArray.insert  | 1.1.0         | <a href="https://bugs.eclipse.org/bugs/show_bug.cgi?id=476487">https://bugs.eclipse.org/bugs/show_bug.cgi?id=476487</a> | Open   |             |
| Project Explorer 3.21  | Deleting a project with the delete key does not work   | 2.0.0         | <a href="https://bugs.eclipse.org/bugs/show_bug.cgi?id=486505">https://bugs.eclipse.org/bugs/show_bug.cgi?id=486505</a> | Open   |             |