

# iRPGUnit for RDi 9.6.0.13+

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## Overview

iRPGUnit is an open source plug-in for IBM Rational Developer for i. It enables you to develop and execute repeatable unit tests for RPG programs and service programs.

The iRPGUnit plug-in uses a fork of the [RPGUnit](#) library, which was started by Lacton back in September 2006. The enhanced library adds an interface that enables RPGUnit to pass test results to the IBM Rational Developer for i. The development of the library as well as the plug-in was started by Mihael Schmidt at [RPG Next Gen](#) and is continued by the current developers.

iRPGUnit uses test suites to group test cases. A test case is a method that starts with 'test' and that is hosted and exported by a RPG module. A test suite is a service program that consists of one or more modules that exports test cases. Typically there is a one to one relation between the test suite service program and the module that contains the test cases.

iRPGUnit features are driven from our ideas and needs, but everybody is encouraged to contribute suggestions and manpower to improve the power of iRPGUnit.

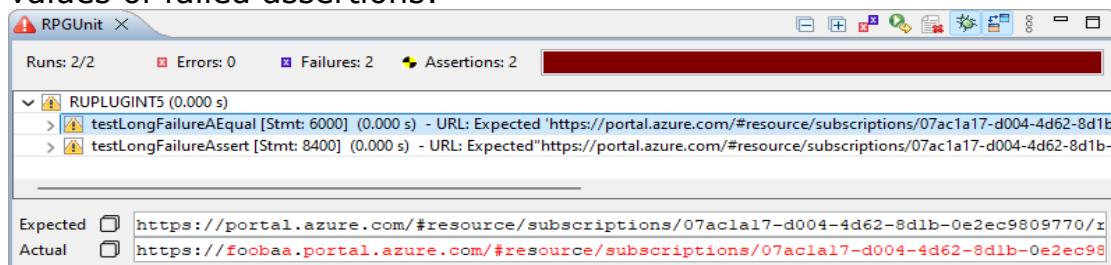
## Change Log 6.0.0.r.(07.01.2026)

Library: V7R5

Plug-in: 9.6.0.13+

**Info:** Updating the library is required for getting the 'expected' and 'actual' values.  
It is recommended to re-compile existing test suites, because of the change applied to procedure aEqual(). Without recompiling the test suites, the lengths of 'expected' and 'actual' are always assumed as 32565 bytes.

- Compiled plug-in for RDP 9.6.0.13+.
- Added keyword 'ONFAILURE' to command RUCALLTST. Possible value:
  - \*ABORT (default):  
Executing assertions of a test case is canceled on the first failed assertion.
  - \*CONTINUE:  
All assertions of a test case are executed despite their results.  
This option may cause unexpected large reports!
- Added 'expected' and 'actual' values to:
  - Plug-in
  - XML output file
  - Printer output
- Added "CompareViewer" for comparing the 'expected' and 'actual' values of failed assertions:



The editor can be shown/hidden from the view menu or the button.

- Added keyword 'XMLTYPE' to command RUCALLTST. Possible value:
  - \*TYPE1:  
iRPGUnit <= v5.1.0.r. This type assigns the call stack in text format to XML element '<failure>'. This format was developed for the Jenkins [Junit](#) plug-in.
  - \*TYPE2 (default):  
iRPGUnit >= v6.0.0.r. This type adds the 'expected' and 'actual' values to XML element '<failure>'.

- \*VSCODE1:  
iRPGUnit >= v6.0.0.r. This type is used by the VS Code [IBM I Testing](#) extension.
- Added path and type of the XML stream file to spooled file output.
- Added path replacement variable '<MSECONDS>' for including a 6-digit microseconds value in the XML stream file path.
- Added keyword 'options(\*varsize)' to procedure aEqual().  
Recompile your test suites to take advantage from this change.  
Without recompiling the test suites, the lengths of 'expected' and 'actual' are always assumed as 32565 bytes.
- Fixed XML encoding of special characters of attribute 'message' of element 'failure'.
- Wrapped text of element '<failure>' into a 'CDATA' section.
- Fixed compiling objects from a source file stored in an ASP group.
- Dropped source physical file RPGUNIT1 with member TESTCASE.
- Dropped support support for version 3 (23.04.2017-09.04.2024) user spaces.
- Fixed encoding of XML reports. Now reports are properly created with CCSID UTF-8 (1208).

## Change Log 5.1.0.r (12.07.2025)

Library: V7R5

Plug-in: 9.5.1.3+

Info: The plug-in has not been changed.  
Updating the library is required for getting the new stream file support.

- Added support for compiling test suites from stream files.
- Added source stream file to test result user space.
- Changed iRPGUnit result view to open stream files.  
(Known issue: The editor cannot be positioned on the line number of the error.)
- The size of the test result (user space) is displayed in the "Properties" view. The maximum size of a user space is 16776704 bytes.
- Changed the rules for setting the DBGVIEW parameter when compiling SQLRPGLE test suites.

Reason: Starting with 7.5 it is possible to use \*LIST for the DBGVIEW parameter of the CRTSQLRPGI command. Now the DBGVIEW parameter is no longer added to the COMPILEOPT parameter.

- Add parameter CVTCCSID to CRTSQLRPGI/CRTSQLCBLI, if the parameter is available.

Parameter CVTCCSID is available with 7.5 or with the following PTFs:

Version 7.3

SI70936: SQL-CMPL SQL PRECOMPILE SUPPORT UTF-8 SOURCE STREAM FILE

Version 7.4

SI70942: SQL-CMPL SQL PRECOMPILE SUPPORT UTF-8 SOURCE STREAM FILE

See also: [SE72036: SQL-CMPL SQL PRECOMPILE SUPPORT UTF-8 SOURCE STREAM FILE](#)

Compilation is aborted with the following error message, if a stream file with ccsid UTF-8 is compiled, if parameter CVTCCSID is missing:

**Stream file with CCSID 1208 cannot be compiled, because command CRTSQLRPGI does not support parameter CVTCCSID. Install missing PTFs and try again.**

**Change Log 5.0.1.r** (24.09.2024)

Library: V7R5

Plug-in: 9.5.1.3+

Info: The plug-in has not been changed.

- Add keyword REQPREXP(\*REQUIRE) to enforce prototypes of exported procedures.

The RPGUNIT library can be compiled on 7.4 and 7.3 systems, if the following PTFs have been installed:

- 7.4
  - SI74613: TGTRL(\*CURRENT) compiler
  - SI74591: New REQPREXP parameter for CRTBNDRPG and CRTRPGMOD.
- 7.3
  - SI74612: TGTRL(\*CURRENT) compiler
  - SI74590: New REQPREXP parameter for CRTBNDRPG and CRTRPGMOD.

See also:

- [RPG Cafe: Fall 2020: Require prototypes for exported procedures](#)

## Change Log 5.0.0.r (23.09.2024)

Library: V7R5

Plug-in: 9.5.1.3+

**Info:** Updating the library is required for getting the new assertions.  
The plug-in has not been changed.

- Added new assertions:
  - assertEquals()
  - assertThat()
- Added parameter 'TGTRLS' to commands RUCTRPG and RUCRTCB.
- Added parameter 'DEFINE' to commands RUCTRPG and RUCRTCB.

Assertion `assertEquals()` can be used for all data types and `assertThat()` uses a matcher callback procedure for comparing the expected with the actual value.

Refer to the iRPGUnit help pages for details.

Special thanks to Rafał Gała for the idea of `assertEquals()`.

The RPGUNIT library can be compiled on 7.4 and 7.3 systems, if the following PTFs have been installed:

- 7.4
  - ILE RPG runtime: SI71537
  - ILE RPG compiler: SI71536
- 7.3
  - ILE RPG runtime: SI71535
  - ILE RPG compiler: SI71534

It can also be compiled without the new functions, if compiler condition `DISABLE_ASSERT_EQUAL` is passed to REXX procedure `A_INSTALL`.

Example:

```
STRREXPRC SRCMBR(A_INSTALL) SRCFILE(RPGUNITDVP/QBUILD)
PARM('INSTALL RPGUNIT NONE CURRENT DISABLE_ASSERT_EQUAL')
```

The library uploader will check the release and PTFs and recompile the library if necessary.

See also:

- `A_INSTALL`, parameter 'define'.

- [Fall 2019 enhancements for RPG - DATA-GEN, OVERLOAD, OPTIONS\(\\*EXACT\)](#)

## Change Log 4.1.0.r (24.04.2024)

Library: V7R3

- Reduce user space size (host / pc communication).
- Drop support for very old host libraries prior to 23.04.2017.
- Disable open source member action if source information is not available, e.g. in case of an unexpected runtime error.
- Change default value of preferences property 'Check test suite service program' from '\*TEXT' to '\*ATTRIBUTE'.

## Change Log 4.0.4.r (23.01.2024)

Library: V7R3

Plug-in: 9.5.1.3+

- The iRPGUnit project has been moved from SourceForge to GitHub.

## Change Log 4.0.3.r (26.03.2023)

Library: V7R1

Plug-in: 9.5.1.3+

- Resolve the runner library from the execution library list of the unit test service program, when the product library is set to \*LIBL. This new option is helpful, when using iRPGUnit from CMOne and when the product library has been specified in the library list of the CMOne application.

## Change Log 4.0.2.r (09.01.2022)

Library: V7R1

Plug-in: 9.5.1.3+

- Removed plug-in discovery sites that are no update sites.

## Change Log 4.0.1.r (06.01.2022)

Library: V7R1

Plug-in: 9.5.1.3+

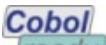
- Fixed A\_SELFTEST to properly pass parameter TGTRLS to object creation commands.

## Change Log 4.0.0.r (06.01.2022)

Library: V7R1

Plug-in: 9.5.1.3+

**Info:** Updating the library is required for creating Cobol test suites.

- Compiled plug-in for RDP 9.5.1.3+.
- Added Cobol support. Procedures are marked with the following image at the top left corner of the help pages: 
- Added parameter DLTSPLF to commands RUCRTRPG and RUCRTCB.
- Added self-test suite OPDESCT.
- Changed the RPGUnit view to set the background color of the result label to grey while executing a test suite.
- Fixed bug that fail() did not create an error when called from a deep stack entry.
- Fixed bug that OUTPUT(\*NONE) and OUTPUT(\*ERROR) incorrectly produced a spooled file.
- Changed default target release to '\*CURRENT' in A\_INSTALL.

## Change Log 3.2.0.r (17.04.2020)

Library: V7R1

Plug-in: RDP 8.0

**Info:** Updating the library is recommended, because this release is a library bug fix release.

- Changed capturing of the callstack to exclude internal procedures of iRPGUnit such as iEqual() or fail().

## Change Log 3.1.0.r (18.11.2019)

Library: V7R1

Plug-in: RDP 8.0

**Info:** Updating the library is optional, but recommended to get the latest changes of the RUCRTTST command.

- Added options '\*SRCMBRTXT' and '\*DEFAULT' to parameter TEXT of command RUCRTTST.
- Changed iRPGUnit to accept 'RPGUNIT' and 'IRPGUNIT' as an marker for a unit test suite service program.

- Changed default of parameter TEXT of command RUCRTTST from 'RPGUnit - Test Case' to '\*SRCMBRTXT'.
- Changed default debug view of iRPGUnit self-tests to \*ALL to better support code coverage.

### Change Log 3.0.1.r (02.11.2019)

Library: V7R1

Plug-in: RDP 8.0

- Fixed runtime error 'I/O operation was applied to closed file QSYSPRT' when running unit tests with disabled report output.

### Change Log 3.0.0.r (01.11.2019)

Library: V7R1

Plug-in: RDP 8.0

**Notice:** Version 3.0.0.r is no longer compatible with V6R1. The save file has been created for 7.1.

**Notice:** The source files of iRPGUnit have been renamed to more meaningful names to ease development. Source member TESTCASE has been moved from RPGUNIT1 to QINCLUDE. Today iRPGUnit is shipped with a proxy member in RPGUNIT1 to ensure backward compatibility at compile time. Please notice that proxy member TESTCASE and source file RPGUNIT1 will be dropped after 31.12.2019.c

**Info:** The v3.0.0 plug-in can be used with an old 2.5.\* library, but of course the new 'XML stream file' parameter is ignored.

- Merged ILEUnit (Mihael Schmidt) with iRPGUnit.
- Added option to create a XML stream file for capturing the result of a unit test, which can be read by the Jenkins build server.
- Added option to upload the iRPGUnit product library to a named ASP device.
- Added runtime error message to spooled file output.
- Added library list to spooled file output.
- Disabled command "Rerun Selected Test Case" for ambiguous selections.
- Changed product library upload utility to display the job log entries on failed upload attempts.
- Changed A\_INSTALL from CLLE to Rexx.
- Changed MK\* from CLLE to Rexx.

- Renamed source files to more intuitive names.
- Bug fixes.

### Change Log 2.5.0.r (06.04.2019)

Notice: Version 2.5.0.r will be the last version with an iRPGUnit library compiled for V6R1. Upcoming versions will be compiled for 7.1 when there is a need for changing the library.

- Added preference options for capturing job log messages.
- Fixed problem that warning messages "Unit test ended with errors. Check preference option 'Show result view' and ..." was shown too often.

### Change Log 2.4.3.r (20.02.2019)

- Changed object owner of RPGUNIT library to QPGMR.
- Removed all objects that are not required for running unit tests.

### Change Log 2.4.2.r (02.11.2018)

- Fixed compile issue when installing the utility into a different library (RUNRMTSVR, ticket: #1).

### Change Log 2.4.1.r (24.11.2018)

- Added parameter ACTGRP to command RUCRTTST.
- Added special value '\*BLANK' to parameter 'TEXT' of command RUCRTTST.
- Fixed problem that a job description was required although option "Library list" was not set to "\*JOBD".

### Change Log 2.4.0.r (23.11.2018)

- Added feature 'iRPGUnit CMOne Integration', which integrates iRPGUnit into the CMOne change management software.
- Added preference option 'Show result view' that specifies whether the result view is automatically displayed at the end of a unit test.

### Change Log 2.3.0.r (21.09.2018)

- Added dialog for uploading the RPGUNIT library from the iRPGUnit preference page. (Button next to "Product library".)

### Change Log 2.2.3.r (27.06.2018)

- Fixed CMDRUNLOGT to match the changed report layout.
- Fixed RUACPTST to match the changed report layout.
- Fixed rslvProc() to return procedure pointer for procedure names with trailing spaces.
- Fixed RUPLUGINT1.testAllOK\_4() test case.
- Fixed upload\_savf.bat.
- Added dummy procedure 'ET\_testProc\_3' to self-test EXTTSTT.
- Changed name of preference page to "iRPGUnit".
- Changed name of help manual to "iRPGUnit".

### Change Log 2.2.2.r (08.02.2018)

**Info:** This version is the first public version of the iRPGUnit plug-in.

- Improved error reporting when validating a service program or procedure.
- Changed A\_INSTALL to pass the TGTRLS parameter to all called MK\* programs.

### Change Log 2.2.1.r (14.06.2017)

- Changed RPGUnit view to display the number of assertions.
- Fixed problem, that a test procedure had to start with 'test' in lower case. Now the case is ignored.
- Now errors in setup/teardown procedures properly show up in RDi.
- Added number of executed assertions to RPGUnit view.

### Change Log 2.1.0.r (06.12.2016)

- Changed RUCRTTST to validate the combination \*EVENTF/\*TSTPGM for RPGL and SQLRPGL member types.
- Updated copyright notice of LLIST\_SORT.
- Updated STRPREPRC header of source member TEMPLATE.
- Added example source member TEMPLSQL.
- Added number of assertions to RPGUnit view.

### Change Log 2.0.0.r (29.11.2016)

- Changed length of message text from 256 to 1024 bytes.
- Added unit test RUPLUGINT5.
- Added procedure getAssertFailEvtLong() to retrieve the long message text.
- Added new type definition AssertFailEvtLong\_t for procedure getAssertFailEvtLong().
- Fixed hard coded reference to library RPGUNIT in unit test RUCRTTSTT.

- Fixed missing 'Export' keyword of procedure 'tearDown' of unit test 'CRTTSTT'.
- Renamed RUN to CMDRUNSRV.
- Renamed RUCRTTST to CRTTST.
- Renamed RUPGMRMT to PGMRMT.
- Renamed RURUNRMT to RMTRUNSRV.
- Renamed RUSRCMBR to SRCMBR.
- Renamed RUTAGTST to TAGTST.
- Renamed MKRUNRMT to MKRMTRUN.
- Renamed RUCRTTSTT to CRTTSTT.

The following errors are produced by units tests of version 1.10 and lower:

**ASSERTT.testAssertWithFailure**

Expected 'assert', but was 'DOASSERT'.

Reason: Refactoring of module ASSERT. Introduced new procedure doAssert().

**ASSERTT.testAssertWithSuccess**

Expected ", but was '

Reason: The new "assertFailEvt" (assertFailEvtLong\_t) had to be mapped to the old "assertFailEvt" (assertFailEvt\_t) structure, which properly sets the length bytes of "assertFailEvt\_v1.msg" to x'0000'. These bytes had been set to x'4040' before. Procedure ASSERT.clrAssertFailEvt() now uses 'clear' instead of '\*BLANKS' to initialize the assert fail event structure.

**ASSERTT.testBidIntegerEquality**

Expected ", but was '

Reason: see ASSERTT.testAssertWithSuccess

**ASSERTT.testGoodByeIsNotHello**

Expected 'assert', but was 'DOASSERT'.

Reason: see ASSERTT.testAssertWithFailure

**ASSERTT.testHelloEqualsHello**

Expected ", but was '

Reason: see ASSERTT.testAssertWithSuccess

**ASSERTT.testTwoAndTwoEqualsFour**

Expected ", but was '

Reason: see ASSERTT.testAssertWithSuccess

**ASSERTT.testTwoAndTwoIsNotEqualToFive**

Expected 'assert', but was 'doAssert'.

Reason: see ASSERTT.testAssertWithFailure

RUNT.test\_runTestProc\_errorInSetup  
Expected 'E', but was 'F'.  
Reason: see ASSERTT.testAssertWithSuccess

RUNT.test\_runTestProc\_errorInTearDown  
Expected 'E', but was 'F'.  
Reason: see ASSERTT.testAssertWithSuccess

RUNT.test\_runTestProc\_errorInTest  
Expected 'E', but was 'F'.  
Reason: see ASSERTT.testAssertWithSuccess

RUNT.test\_runTestProc\_failureInTest  
Expected 'TEST\_FAIL', but was 'fail'.  
Reason: Refactoring of module ASSERT. Introduced new procedure doFail().

RUNT.test\_runTestProc\_tearDownAfterErrorInSetup  
Expected 'E', but was 'F'.  
Reason: see ASSERTT.testAssertWithSuccess

RUACPTST.TESTBIGINTEGER  
Expected 'assert', but was 'DOASSE'.  
Reason: see ASSERTT.testAssertWithFailure

RUACPTST.TESTCHOOSETEST  
Expected 'TEST2 (TESTPGM05)', but was 'fail (RUTESTCASE)'.  
Reason: Refactoring of module ASSERT. Introduced new procedure doFail().

RUACPTST.TESTFAILURES  
Expected 'assert', but was 'DOASSE'.  
Reason: see ASSERTT.testAssertWithFailure

RUACPTST.TESTSTACKTRACE  
Expected 'assert', but was 'DOASSE'.  
Reason: see ASSERTT.testAssertWithFailure

## Change Log 1.10.0.r (26.01.2016)

- Restructured the RPGUnit utility for better maintenance.
- Fixed self-test compile errors.

## Change Log 1.9.1.r (06.02.2015)

- Enhanced the help text and described the new option that controls how the test suite service programs are validated.
- Added warning message, when the user defined attribute could not be retrieved.

### **Change Log 1.9.0.r** (05.02.2015)

- Added preference option to select the type of validity checking of unit test service programs.

### **Change Log 1.8.0.r** (25.01.2015)

- Changed the plug-in to select unit test procedures from the RSE tree.

### **Change Log 1.7.5.r** (16.12.2014)

- Added message box that is displayed, when the statement identifier cannot be mapped to the source line number.

### **Change Log 1.7.4.r** (09.12.2014)

- Fixed problem that the LPEX editor did not always position to source statement in error when opening a failed test case.

### **Change Log 1.7.3.r** (26.08.2014)

- Fixed getCallStk() to respect the size of the call stack entry array.
- Fixed runTestProc() to properly set the number of executed assertions per test case.  
(See also: RURUNRMT.fillUserSpace())
- Changed getCallStk() to flag incomplete call stacks with '\*INCOMPLETE' on the last call stack entry.
- Thoroughly renamed field 'stmt' to 'specNB'.
- Removed spaces for 'Initialize Printer' and 'Carriage Return' from RUWSCST.
- Changed RUPLUGINT1 to produce a deeper call stack.  
(See also: recursion of procInError())
- Plug-in: Now passing special value \*ALL instead of a null parameter to RUPGMRMT to execute all test cases.

### **Change Log 1.7.2.r** (19.02.2014)

- Changed RURUNRMT to restore the library list after the test suite has been run. (System i)

## Change Log 1.7.1.r (19.02.2014)

- Fixed RNX0100 in procedure hasSameBeginning() of module EXTTST. (System i)

## Change Log 1.7.0.r (07.01.2014)

- Added option to do a RCLRSC at the end of the test suite.

## Change Log 1.6.0.r (27.11.2013)

- Added option to open a source member from the RPGUnit view.
- Fixed missing German internationalizations.

## Change Log 1.5.3.r (22.11.2013)

- Fixed missing German tooltips of buttons of RPGUnit view.

## Change Log 1.5.2.r (20.11.2013)

- Added German translation.

## Change Log 1.5.1.r (19.11.2013)

- Added option to use a separate connection for running the unit tests. This way service entry points can be used for debugging unit tests.  
(See: Preferences -> RPGUnit -> Enforce new connection)

## Change Log 1.5.0.r (17.11.2013)

- Added Spooled File Viewer to display the RPGUnit test report.
- Changed RUCALLTST and plug-in to accept up to 250 procedure names.

Note: Please notice that you need to set your preferences again, because I had to change some keys.

## Change Log 1.4.2.r (07.11.2013)

- Removed invalid setting of "Bundle-RequiredExecutionEnvironment" of RPGUnit for WDSC 7.0.
- Changed compiler of RPGUnit for WDSC 7.0 to original IBM J9 compiler.

## Change Log 1.4.1.r (06.11.2013)

- Added buttons "Collapse All" and "Expand All".
- Added menu item "Remove Selected RPGUnit Test Suite".
- Updated preferences page and added option to specify the product library. The product library is used to find program RURUNRMT, which executes the unit tests.

## Change Log 1.4.0.r (31.10.2013)

- Fixed: Now "Runs:" displays the correct number of executed test cases.
- Changed RPGUnit view to get closer to JUnit.
- Added: Special thank to Michael Calabro who enhanced RUCRTTST to compile SQLRPGLE source members.
- Added procedure: MsgInfo\_t = getMonitoredMessage(\*ON|\*OFF)

### Usage:

```
monitor;
a = 10;
b = 0;      // Attempt made to divide by zero for
c = a / b; // fixed point operation. (MCH1211)
fail( 'Division by zero did not raise an error.' );
on-error;
  msgInfo = getMonitoredMsg (*ON); // remove message
endmon;           // from job log

aEqual( 'MCH1211': msgInfo.Id );
```

## Change Log 1.3.0.r (15.08.2013)

- Fixed errors in 'upload\_src.bat'.
- Fixed selftest unit test cases. The unit test cases had to be fixed because of internal changes that were required for the plug-in:

Changed: 'assertFailEvt\_t'.

Changed: Prototypes of setLogContext() and logCompMsg().

Changed: 'ExcpMsgInfo' references 'Msg\_t', now.

Changed: Now, handleSuccess() is called regardless of the value of 'detail'. Affects: 'logIdx'.

Changed: Formatting of call stack entry.

Bugfix: Close spooled file after error (RUACPTST).

Changed: Prototypes of getCrtRpgModCmd() and getCrtSrvPgmCmd().

Changed: 'TestResult\_t'.

Affected unit tests:

ASSERTT	RUACPTST
CMDRUNLOGT	RUCRTTSTT
CMDRUNT	RUNT
PGMMSGT	

New selftest unit tests:

LIBLT	STRINGT
-------	---------

New demonstration unit tests:

RUPLUGINT1	RUPLUGINT3
RUPLUGINT2	RUPLUGINT4

### **Change Log 1.2.2.r** (12.08.2013)

- Replaced 'MKRPGUNIT' with 'A\_INSTALL' in 'readme\_first.txt'.
- Removed unused code from plug-in.

### **Change Log 1.2.1.r** (28.06.2013)

- Now the plug-in correctly passes parameter 'procedure' as a VARYING field to program RUPGMRMT.
- Now the plug-in correctly enables/disables actions 'Rerun All Unit Tests' and 'Rerun Selected Unit Tests' when the view is opened.
- Now the plug-in checks for job description 'RPGUNIT' when parameter 'LIBL' is set to '\*JOBD'.
- Ported plug-in back to WDSC 7.0.
- Refactored plug-in as suggested in 'templates' by the original author and replaced 'ExcpMsgInfo\_t' with 'Msg\_t'.

### **Change Log 1.2.0.r** (24.06.2013)

- Added call stack entries to the RPGUnit view, when the result of a test suite is displayed.

### **Change Log 1.1.2.r** (21.06.2013)

- Compiled plug-in for RDP 8.0.

### **Change Log 1.1.1.r** (21.06.2013)

- Added parameters LIBL and JOBD to the preferences page.
- Removed unused program code.
- Added parameter 'fieldName' to aEqual(), iEqual() und nEqual().
- Added parameters LIBL and JOBD to RUPGMRMT and RURUNRMT.
- Changed RURUNRMT to save and restore the library list.

- Added utility procedures waitSeconds(), displayStatusMessage(), restoreStatusMessage() and clearStatusMessage().

### **Change Log 1.1.0.r** (20.06.2013)

- Added screen shot to update site.

### **Change Log 1.0.6.r** (08.06.2013)

- Now the character cases are correctly ignored when comparing the specified 'test procedure' name.
- Added parameters LIBL and JOBD to command RUCALLTST.

### **Change Log 1.0.5.r** (07.05.2013)

- Added parameter MODULE to command RUCRTTST.

### **Change Log 1.0.4.r** (06.05.2013)

- First release of the 'RPGUnit Test for IBM Rational Developer for Power Systems 8.0' plug-in.

## **iRPGUnit On The Internet**

Project page on GitHub	<a href="https://github.com/tools-400/irpgunit/">https://github.com/tools-400/irpgunit/</a>
Homepage	<a href="https://tools-400.github.io/irpgunit/">https://tools-400.github.io/irpgunit/</a>
Help	<a href="https://tools-400.github.io/irpgunit/help/">https://tools-400.github.io/irpgunit/help/</a>
RDi 8.0+ Update Site	<a href="https://tools-400.github.io/irpgunit/update-site/eclipse/rdi8.0/">https://tools-400.github.io/irpgunit/update-site/eclipse/rdi8.0/</a>
Eclipse Marketplace	<a href="https://marketplace.eclipse.org/content/irpgunit-rdi-9513/">https://marketplace.eclipse.org/content/irpgunit-rdi-9513/</a>
Help Beta	Not yet available
RDi 8.0 Beta Update Site	Not yet available