

# ACATS Modification List for ACATS 4.1

Version 4.1AA

June 30, 2022

## What is this?

This is the ACATS modification list for ACATS 4.1. This document includes test corrections, test removals, and new tests for ACATS 4.1. ACATS 4.1 is the current test suite for Ada, covering the third edition of Ada, ISO/IEC 8652:2012 (usually known as "Ada 2012").

ACATS Modification List version 3.1CC for ACATS 3.1 is the current list for that test suite. ACATS 3.1 should be used for testing implementations that support Amendment 1 (ISO/IEC 8652:1995/AMD 1:2007, often known as "Ada 2005"), and will continue to be maintained only as necessary for the foreseeable future.

ACATS Modification List version 2.6J for ACATS 2.6 is the current list for that test suite. ACATS 2.6 should be used for testing implementations of the second edition of Ada, ISO/IEC 8652:1995 (usually known as "Ada 95"); it also will continue to be maintained only as necessary for the foreseeable future.

## Changes from the last list:

A handful of tests changed status on April 1<sup>st</sup>; see the lists for the details.

New tests C458002, C458003, C458A01, and C458A02 (as well as the associated foundation F458A00) test that quantified expressions containing all types of iterators operate as expected. Thanks to Brad Moore for these tests.

New tests CXA4038 and CXA4039 check that the operations Slice, (Un)bounded\_Slice, and To\_(Wide)\_String have the correct behavior for Bounded\_Strings, Bounded\_Wide\_Strings, Unbounded\_Strings, and Unbounded\_Wide\_Strings. The first of these tests replaces CXA4034 (which only checked exception cases for Slice).

Note: Some Allowed Modification tests have a required date of "ACATS 4.2". These are tests that don't have substantive changes, but rather change comments (including error locations for B-Tests). For ACATS users that are using traditional results comparison rather than the ACATS grading tools, changing these tests may cause work without benefit (since the tests don't have significant changes). As such, we're allowing the use of the old versions of the tests until the time when the next ACATS version (ACATS 4.2) is issued (most likely in the next quarter).

New tests posted between April 1, 2022 and June 30, 2022 will become required for conformity assessments on January 1, 2023. New tests posted between January 1, 2022 and March 31, 2022 will become required for conformity assessments on October 1, 2022. New tests posted between October 1, 2021 and December 31, 2021 will become required for conformity assessments on July 1, 2022. New tests posted before October 1, 2021 are required for conformity assessments. The effective dates of tests are marked in the lists.

Questions about this document? Contact the ACAA Technical Agent at [agent@ada-auth.org](mailto:agent@ada-auth.org).

## ACATS 4.1 includes optional Test Grading tools

ACATS 4.1 introduces new test grading tools.

When the ACATS was designed (as the ACVC in the early 1980s), the intention always was that running it would give a simple and clear Pass or Fail result. However, grading of tests (particularly of B and L Tests)

is somewhat subjective and very time-consuming. (Test grading typically involved poring over compiler listings of the entire ACATS with a large highlighter.) The subjectivity was acceptable in the days of common formal testing, as the formal testers would enforce a common grading standard (even if no one could describe what that was), but in an age of self-testing, it reduces the value of the ACATS.

As such, we're introducing a long-overdue set of automated grading tools. These tools are intended to:

- Greatly reduce the effort to grade an ACATS test run (and, hopefully to reduce the cost of formal testing to make it a more practical option);
- Ensure that all users of the ACATS grade tests in the same way, thus making it more valid to compare ACATS results between different implementations and different testers;
- Give implementers certainty as to whether a particular test result is passing (whether the location of an error is “close enough” to the canonical position);
- Be able to detect process errors (especially errors of omission) – that is, tests improperly run (for instance, files compiled in the wrong order where the ACATS requires an order), or not run at all (if one is checking off lines in a listing, it's hard to notice that some test or portion of a test is missing).

The tools also will optionally give feedback to implementers about quality of error message positioning and of error cascades (does one error generate multiple messages?). (Since “goodness of an implementation” is not something that the ACATS tests for, this is not an official goal for the tools.)

This is an ambitious set of goals. It's unlikely that they'll be completely met by the initial versions of the tools. As such, their use will be completely optional (but encouraged!) for ACATS 4.1. The tools will be updated periodically by the normal process for updating the ACATS – an ACATS Modification List like this one.

Details on the operation of the tools can be found in the ACATS 4.1 documentation (that documentation can be found at <http://www.ada-auth.org/acats-files/4.1/docs/UG-6.HTM>). As always, if you have questions, contact the ACAA Technical Agent at [agent@ada-auth.org](mailto:agent@ada-auth.org).

#### **Notice:**

The ACAA has created and maintains the Ada Conformity Assessment Test Suite for the purpose of conformity assessments conducted in accordance with the International Standard ISO/IEC 18009 - Ada: Conformity assessment of a language processor. This test suite should not be used to make claims of conformance unless used in accordance with ISO/IEC 18009 and any applicable ACAA procedures.

#### **List explanation:**

Test numbers given are for the basic test. Categories are “Withdrawn” (the test should not be processed for Ada conformity assessments); “Allowed Modification” (either the original test or the modified one should be processed for Ada conformity assessments); “Modified” (the modified test must be processed for Ada conformity assessments); “Pending New” (the test does not need to be processed for Ada conformity assessments, but will be added in the future); “New” (the test is processed for Ada conformity assessments).

ACATS version labels are provided with all new and modified tests. Use this label to retrieve the test from the ACATS VCS. See “How to get new and modified tests”.

In citations, line numbers are given relative to the start of a test file in the format of '@<line#,line#,...>'; if a test program comprises more than one file, then the particular file will be indicated by "fn", where "n" is the test-program name's file-designator numeral. E.g., "B38103E : @f1-31, ..." denotes test file b38103e1.ad. In cases where there are two or more rationales for different errors in a test program, these different rationales with their respective line citations are listed on separate lines. References to the Ada standards are given in the format:

<section|chapter>.<clause>[.<subclause>]:<paragraph>

These references are to the consolidated Ada standard as available at [http://www.ada-auth.org/standards/rm12\\_w\\_tc1/html/RM-TOC.html](http://www.ada-auth.org/standards/rm12_w_tc1/html/RM-TOC.html).

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### Main list:

==== Core Language =====

Name	Category	Version label	(effective date; old version label)	Short description.
B32201A	[Allowed Modification]	New VCS Label: A4_1P Required in ACATS 4.2	Org VCS Label: A4_1	Added error location indicators.
B324001	[Allowed Modification]	New VCS Label: A4_1W Required in ACATS 4.2	Org VCS Label: A4_1	Added error location indicators.
B324004	[New]	VCS Label: A4_1W		Check that the Predicate_Failure aspect is only allowed in conjunction with a predicate aspect, and that the expression is of type String.
C324006	[New]	VCS Label: A4_1W		Check that for a Predicate_Failure aspect whose expression does not raise an expression, the value of the aspect is used as the Exception_Message in the exception occurrence when the appropriate predicate check fails.
B33001A	[Modified]	VCS Label: A4_1P		Added error location indicators, added additional possible error locations, restored likely intended test for Set2.
B33101A	[Allowed Modification]	New VCS Label: A4_1P Required in ACATS 4.2	Org VCS Label: A4_1	Added error location indicators.
B350001	[New]	VCS Label: A4_1Q		Check that the requirements on the specification of the Default_Value aspect are enforced.
C350001	[New]	VCS Label: A4_1D		Check that the object form of the Image attribute is implemented.
C350A01	[New]	VCS Label: A4_1R		Check that objects of types with specified Default_Values are properly initialized. Part 1: Normal discrete types.
C350A02	[New]	VCS Label: A4_1R		Check that objects of types with specified Default_Values are properly initialized. Part 2: Generic discrete types.
C350B01	[New]	VCS Label: A4_1R		

Check that objects of types with specified Default\_Values are properly initialized. Part 3: Normal real types.

C350B02 [New] VCS Label: A4\_1R  
Check that objects of types with specified Default\_Values are properly initialized. Part 4: Generic real types.

C352001 [Modified] VCS Label: A4\_1D  
Corrected Failed message @267 to reflect intended result.

B354002 [New] VCS Label: A4\_1D  
Test basic requirements for the Mod attribute.

C354004 [New] VCS Label: A4\_1D  
Test basic operation of the Mod attribute.

B35901C [Allowed Modification] New VCS Label: A4\_1W Org VCS Label: A4\_1  
Required in ACATS 4.2  
Added error location indicators; moved error tags to correct locations.

B35A001 [New] VCS Label: A4\_1D  
Check Legality Rules are enforced when Small is specified by an aspect specification.

C35A001 [New] VCS Label: A4\_1D  
Check that Small can be specified by an aspect specification.

B360001 [New] VCS Label: A4\_1Q  
Check that the requirements on the specification of the Default\_Component\_Value aspect are enforced.

C360A01 [New] VCS Label: A4\_1S  
Check that objects of types with specified Default\_Component\_Values are properly initialized. Part 1: Arrays of discrete types.

C360A02 [New] VCS Label: A4\_1S  
Check that objects of types with specified Default\_Component\_Values are properly initialized. Part 2: Generic arrays of discrete types.

C360B01 [New] VCS Label: A4\_1S  
Check that objects of types with specified Default\_Component\_Values are properly initialized. Part 3: Arrays of real types.

C360B02 [New] VCS Label: A4\_1S  
Check that objects of types with specified Default\_Component\_Values are properly initialized. Part 4: Generic arrays of real types.

B36102A [Allowed Modification] New VCS Label: A4\_1W Org VCS Label: A4\_1  
Required in ACATS 4.2  
Added error location indicators; split constructs so there is only one error per construct.

B370002 [Allowed Modification] New VCS Label: A4\_1W Org VCS Label: A4\_1  
Required in ACATS 4.2  
Added error location indicators.

B37309B [Modified] VCS Label: A4\_1G  
Added additional error locations to directly support common error reporting strategies.

B37310B [Modified] VCS Label: A4\_1G  
Added additional error locations to directly support common error reporting strategies.

B37311A [Modified] VCS Label: A4\_1G  
Added additional error locations to directly support common error reporting strategies.

B38003D [Modified] VCS Label: A4\_1A  
Corrected error tags @70,76,82,88 so "optional" and "error" are on the same line, as required by the test standards.

B38103A [Allowed Modification] New VCS Label: A4\_1P Org VCS Label: A4\_1  
Required in ACATS 4.2  
Added error location indicators.

B38103B [Allowed Modification] New VCS Label: A4\_1P Org VCS Label: A4\_1  
Required in ACATS 4.2  
Added error location indicators.

B38103C [Allowed Modification] New VCS Label: A4\_1P Org VCS Label: A4\_1  
Required in ACATS 4.2  
Added error location indicators.

B38103D [Allowed Modification] New VCS Label: A4\_1P Org VCS Label: A4\_1  
Required in ACATS 4.2  
Added error location indicators.

B38103E [Allowed Modification] New VCS Label: A4\_1P Org VCS Label: A4\_1  
Required in ACATS 4.2  
Added error location indicators.

B392002 [Modified] VCS Label: A4\_1G  
Revised to use Possible Error tags, and added error location indicators.

B392003 [Modified] VCS Label: A4\_1G  
Added additional error locations to directly support common error reporting strategies.

B392004 [Modified] VCS Label: A4\_1G  
Added additional error locations to directly support common error reporting strategies.

B392005 [Modified] VCS Label: A4\_1G  
Revised to use Possible Error tags, and added error location indicators.

B393001 [Modified] VCS Label: A4\_1G

Added additional error locations to directly support common error reporting strategies.

B393005 [Allowed Modification] New VCS Label: A4\_1W Org VCS Label: A4\_1  
Required in ACATS 4.2  
Added error location indicators.

B393007 [Modified] VCS Label: A4\_1G  
Added additional error locations to directly support common error reporting strategies. Fixed overlong lines.

B393008 [Allowed Modification] New VCS Label: A4\_1W Org VCS Label: A4\_1  
Required in ACATS 4.2  
Added error location indicators.

B393009 [Allowed Modification] New VCS Label: A4\_1W Org VCS Label: A4\_1  
Required in ACATS 4.2  
Added error location indicators.

B393010 [Modified] VCS Label: A4\_1G  
Added additional error locations to directly support common error reporting strategies. Fixed overlong lines.

B393012 [New] VCS Label: A4\_1P  
Check that abstract types cannot be used in additional contexts that do not allow abstract types.

B393013 [New] VCS Label: A4\_1P  
Check that interface types cannot be used in additional contexts that do not allow abstract types.

B394001 [Allowed Modification] New VCS Label: A4\_1W Org VCS Label: A4\_1  
Required in ACATS 4.2  
Added error location indicators.

B394A01 [Allowed Modification] New VCS Label: A4\_1W Org VCS Label: A4\_1  
Required in ACATS 4.2  
Added error location indicators.

B394A02 [Allowed Modification] New VCS Label: A4\_1W Org VCS Label: A4\_1  
Required in ACATS 4.2  
Added error location indicators.

B394A03 [Allowed Modification] New VCS Label: A4\_1W Org VCS Label: A4\_1  
Required in ACATS 4.2  
Added error location indicators.

B394A04 [Allowed Modification] New VCS Label: A4\_1W Org VCS Label: A4\_1  
Required in ACATS 4.2  
Added error location indicators.

B394A05 [Allowed Modification] New VCS Label: A4\_1W Org VCS Label: A4\_1  
Required in ACATS 4.2  
Added error location indicators.

C3A0030 [New] VCS Label: A4\_1A  
Check that an access discriminant is only null excluding if it

includes a null exclusion.

- B3A1001 [Modified] VCS Label: A4\_1A  
Split Pack6 so possible error sets don't intersect; fixed  
overlong lines.
- B3A1002 [Modified] VCS Label: A4\_1A  
Split Pack6 so possible error sets don't intersect; fixed  
overlong lines.
- B3A2007 [Modified] VCS Label: A4\_1G  
Added additional error locations to directly support common error  
reporting strategies.
- B3A2008 [Modified] VCS Label: A4\_1G  
Added additional error locations to directly support common error  
reporting strategies.
- B3A2009 [Modified] VCS Label: A4\_1G  
Removed tabs to meet test format standards; added error location  
indicators.
- B3A2011 [Modified] VCS Label: A4\_1G  
Added additional error locations to directly support common error  
reporting strategies.
- B3A2012 [Modified] VCS Label: A4\_1G  
Added additional error locations to directly support common error  
reporting strategies.
- B3A2016 [Modified] VCS Label: A4\_1G  
Added additional error locations to directly support common error  
reporting strategies.
- B3A2018 [New] VCS Label: A4\_1H  
[VCS Label A4\_1H] Check that an explicitly aliased parameter has  
the same accessibility level as a normal parameter unless compared  
to the return object. Check that master of the function call is  
properly determined statically.  
[VCS Label A4\_1T] Corrected so that it is not affected by whether  
AI12-0345-1, AI12-0402-1, and AI12-0390-1 are implemented.
- B413004 [Modified] VCS Label: A4\_1J  
PPA and PFA trigger the issue of AI12-0289-1; explicit null  
exclusions were added to the parameters to avoid it.
- B41327B [Allowed Modification] New VCS Label: A4\_1W Org VCS Label: A4\_1  
Required in ACATS 4.2  
Added error location indicators.
- B415001 [Allowed Modification] New VCS Label: A4\_1W Org VCS Label: A4\_1  
Required in ACATS 4.2  
Added error location indicators.
- C415001 [Modified] VCS Label: A4\_1P  
[VCS Label A4\_1N] Return @119 fails an accessibility check  
unless C is aliased.

[VCS Label A4\_1P] The subtype of My\_Colln @125 needs to be either discriminated or to statically match that of the formal types of the parameters.

B416001 [Modified] VCS Label: A4\_1W  
Commented out Priv2 test case as it is the subject of AI12-0428-1.

C431003 [Pending New] New VCS Label: A4\_1Z  
Required after 2022-10-01  
Check that record aggregates that specify a discriminant with <> get the default value of the discriminant.

C431004 [Pending New] New VCS Label: A4\_1Z  
Required after 2022-10-01  
Check that extension aggregates that specify a discriminant with <> get the default value of the discriminant.

B431007 [New] VCS Label: A4\_1P  
Check that record aggregates are not allowed for types whose components aren't visible.

B431008 [Pending New] New VCS Label: A4\_1Z  
Required after 2022-10-01  
Check that record aggregates that specify a discriminant with <> are illegal if the discriminant does not have a default.

B431009 [Pending New] New VCS Label: A4\_1Z  
Required after 2022-10-01  
Check that extension aggregates that specify a discriminant with <> are illegal if the discriminant does not have a default.

B432002 [New] VCS Label: A4\_1P  
Check that all of the extensions of an extension aggregate are record extensions.

B432003 [New] VCS Label: A4\_1P  
Check that the ancestor subtype\_mark of an extension aggregate does not denote a view with unknown discriminants.

B43201A [Allowed Modification] New VCS Label: A4\_1W Org VCS Label: A4\_1  
Required in ACATS 4.2  
Added error location indicators.

B43201C [Allowed Modification] New VCS Label: A4\_1W Org VCS Label: A4\_1  
Required in ACATS 4.2  
Added error location indicators.

B43202C [Allowed Modification] New VCS Label: A4\_1W Org VCS Label: A4\_1  
Required in ACATS 4.2  
Added error location indicators.

B433002 [Allowed Modification] New VCS Label: A4\_1W Org VCS Label: A4\_1  
Required in ACATS 4.2  
Added error location indicators.

B433003 [Allowed Modification] New VCS Label: A4\_1W Org VCS Label: A4\_1  
Required in ACATS 4.2



Added error location indicators.

- B440001 [Pending New] New VCS Label: A4\_1Y  
Required after 2022-07-01  
Check that the operands of a membership test are  
simple\_expressions, not choice\_expressions.
- B452001 [New] VCS Label: A4\_1K  
Check that a membership that contains choice expressions is  
illegal for a limited type that does not have equality.
- B452002 [New] VCS Label: A4\_1L  
Check that Resolution and Legality Rules for the universal access  
equality operator are enforced.
- C452002 [New] VCS Label: A4\_1F  
[VCS Label A4\_1D] Check that overloading resolution of Ada 2012  
membership operations works as intended.  
[VCS Label A4\_1F] Fixed incorrect test number passed to Report.
- C452003 [New] VCS Label: A4\_1R  
[VCS Label A4\_1K] Check that memberships of general access-to-  
object types work as defined.  
[VCS Label A4\_1R] Corrected Force\_Save and Force\_Op.
- C452004 [New] VCS Label: A4\_1Q  
[VCS Label A4\_1L] Check that memberships with multiple choices are  
evaluated as required, and that the correct equality operation is  
called for untagged record types.  
[VCS Label A4\_1Q] LTemp and RTemp @ 136 and 164 should be declared  
Integer rather than Natural, as the numerators are of type Integer  
and can be negative.
- C452005 [New] VCS Label: A4\_1L  
Check that memberships with multiple choices call the correct  
equality operation for array types.
- C452006 [New] VCS Label: A4\_1M  
[VCS Label A4\_1L] Check that memberships with multiple choices  
call the correct equality operation for access types.  
[VCS Label A4\_1M] Corrected to remove cases made illegal by  
AI12-0328-1.
- C452A01 [New] VCS Label: A4\_1K  
Check that "=" for language-defined private types behaves as if it  
is predefined. Part 1: core types.
- C452A02 [New] VCS Label: A4\_1K  
Check that "=" for language-defined private types behaves as if it  
is predefined. Part 2: types of the Ada.Strings subsystem.
- C452A03 [New] VCS Label: A4\_1K  
Check that "=" for language-defined private types behaves as if it  
is predefined. Part 3: Annex C types.
- C453001 [New] VCS Label: A4\_1D  
Check that modular adding operators wrap around rather than

raising Constraint\_Error.

B455002 [Modified] VCS Label: A4\_1A  
Corrected casing of error tags and fixed overlong lines.

B457001 [Modified] VCS Label: A4\_1F  
Fixed overlong lines. Added location indicators.

B457002 [Allowed Modification] New VCS Label: A4\_1W Org VCS Label: A4\_1  
Required in ACATS 4.2  
Added error location indicators.

B457004 [Modified] VCS Label: A4\_1F  
There should not be an ERROR tag @282; Single\_Highest @290 should be Single\_High. Added location indicators.

B457005 [Allowed Modification] New VCS Label: A4\_1W Org VCS Label: A4\_1  
Required in ACATS 4.2  
Added error location indicators.

B457007 [Allowed Modification] New VCS Label: A4\_1W Org VCS Label: A4\_1  
Required in ACATS 4.2  
Added error location indicators.

B458001 [New] VCS Label: A4\_1F  
Check that a quantified expression has to be surrounded in parentheses if it is not already surrounded by them.

C458002 [Pending New] New VCS Label: A4\_1AA  
Required after 2023-01-01  
Check the operation of quantified expressions using array element iterators.

C458003 [Pending New] New VCS Label: A4\_1AA  
Required after 2023-01-01  
Check boundary conditions for quantified expressions using discrete iterators. (This test is a companion to the existing C458001.)

C458A01 [Pending New] New VCS Label: A4\_1AA  
Required after 2023-01-01  
Check the operation of quantified expressions using generalized iterators.

C458A02 [Pending New] New VCS Label: A4\_1AA  
Required after 2023-01-01  
Check the operation of quantified expressions using container iterators.

B460002 [Allowed Modification] New VCS Label: A4\_1W Org VCS Label: A4\_1  
Required in ACATS 4.2  
Added error location indicators.

C460014 [New] VCS Label: A4\_1C  
Check that Constraint\_Error is raised appropriately when converting access-to-classwide to another access type.

C460015 [New] VCS Label: A4\_1C  
Check that Constraint\_Error is raised appropriately when converting access-to-limited-classwide to another access type.

B470001 [New] VCS Label: A4\_1D  
Check that qualified expressions are a constant view of the expression, even if the expression is a variable object.

C470001 [New] VCS Label: A4\_1D  
Check that qualified expressions are a name, and thus can be used as a prefix and other places a name is required.

C480001 [New] VCS Label: A4\_1D  
[VCS Label A4\_1A] Check that an initialized allocator for a class-wide type does an accessibility check on the tag of the initializing object.  
[VCS Label A4\_1D] Changed mode to "in" (instead of "in out") @103 & 144 as those parameters are used in functions, making that an Ada 2012 feature, and this is an Ada 2005 test.

B480002 [Allowed Modification] New VCS Label: A4\_1W Org VCS Label: A4\_1  
Required in ACATS 4.2  
Added error location indicators.

B480004 [New] VCS Label: A4\_1G  
Check that an allocator is illegal if the access type has a Storage\_Size that is statically zero.

B48002A [Allowed Modification] New VCS Label: A4\_1P Org VCS Label: A4\_1  
Required in ACATS 4.2  
Added error location indicators.

B48002G [Allowed Modification] New VCS Label: A4\_1P Org VCS Label: A4\_1  
Required in ACATS 4.2  
Added error location indicators.

B48003B [Allowed Modification] New VCS Label: A4\_1P Org VCS Label: A4\_1  
Required in ACATS 4.2  
Added error location indicators.

B48003E [Allowed Modification] New VCS Label: A4\_1P Org VCS Label: A4\_1  
Required in ACATS 4.2  
Added error location indicators.

B490003 [Allowed Modification] New VCS Label: A4\_1P Org VCS Label: A4\_1  
Required in ACATS 4.2  
Moved error tags to more usual locations, added error location indicators.

B490004 [Pending New] New VCS Label: A4\_1Z  
Required after 2022-10-01  
Check that static expressions that fail a static predicate check are illegal, even if the assertion policy is Ignore.

B49005A [Allowed Modification] New VCS Label: A4\_1W Org VCS Label: A4\_1  
Required in ACATS 4.2  
Added error location indicators.

B4A010C [Modified] VCS Label: A4\_1G  
Added additional error locations to directly support common error reporting strategies.

C52101A [Modified] VCS Label: A4\_1A  
Corrected comment @49 not to have the form of an error tag.

B540001 [Modified] VCS Label: A4\_1G  
Added additional error locations to directly support common error reporting strategies.

B540002 [Modified] VCS Label: A4\_1G  
Added additional error locations to directly support common error reporting strategies.

B54B01B [Modified] VCS Label: A4\_1G  
Added additional error locations to directly support common error reporting strategies.

B54B01C [Modified] VCS Label: A4\_1G  
Added additional error locations to directly support common error reporting strategies.

B54B02B [Modified] VCS Label: A4\_1G  
Added additional error locations to directly support common error reporting strategies.

B54B02C [Modified] VCS Label: A4\_1G  
Added additional error locations to directly support common error reporting strategies.

B54B02D [Modified] VCS Label: A4\_1G  
Added additional error locations to directly support common error reporting strategies.

B54B04A [Modified] VCS Label: A4\_1G  
Added additional error locations to directly support common error reporting strategies.

B54B04B [Modified] VCS Label: A4\_1G  
Added additional error locations to directly support common error reporting strategies.

B54B05A [Modified] VCS Label: A4\_1G  
Added additional error locations to directly support common error reporting strategies.

B551001 [Allowed Modification] New VCS Label: A4\_1W Org VCS Label: A4\_1  
Required in ACATS 4.2  
Added error location indicators; moved incorrectly located error tags.

B551002 [Modified] VCS Label: A4\_1N  
Revised test to remove dependence on Ada.Iterator\_Interfaces.

B552A01 [Modified] VCS Label: A4\_1G

Added additional error locations to directly support common error reporting strategies. Fixed an overlong line.

B55B12B [Modified] VCS Label: A4\_1G

Added additional error locations to directly support common error reporting strategies.

B55B12C [Modified] VCS Label: A4\_1G

Added additional error locations to directly support common error reporting strategies.

B56001A [Allowed Modification] New VCS Label: A4\_1P Org VCS Label: A4\_1  
Required in ACATS 4.2

Added error location indicators.

B57001B [Allowed Modification] New VCS Label: A4\_1P Org VCS Label: A4\_1  
Required in ACATS 4.2

Added error location indicators.

B611001 [New] VCS Label: A4\_1A

Check that Pre and Post are only allowed on subprograms and entries (and not on subprogram instances).

B611002 [New] VCS Label: A4\_1C

[VCS Label A4\_1A] Check that Pre and Post are not allowed on subprograms acting as completions.

[VCS Label A4\_1C] Corrected several error location codes.

B611003 [New] VCS Label: A4\_1A

Check that Pre'Class and Post'Class are only allowed on primitive subprograms of tagged types. (Normal tagged types and interfaces.)

B611004 [New] VCS Label: A4\_1A

Check that Pre'Class and Post'Class are not allowed on subprograms acting as completions.

B611005 [New] VCS Label: A4\_1A

Check that Pre and Post are not allowed on abstract subprograms and null procedures.

B611006 [New] VCS Label: A4\_1V

[VCS Label A4\_1A] Check that the restrictions on Pre'Class and Post'Class expressions added by AI12-0113-1 are enforced.

[VCS Label A4\_1C] Clarified error @208; changed error @233 & @247 to OK (as the inherited Proc4 routine is abstract and thus is not subject to the new rule).

[VCS Label A4\_1V] Eliminated the third objective (all of the code under the "Third Objective" comment), as the rule was replaced by AI12-0412-1 (a Binding Interpretation).

B611007 [New] VCS Label: A4\_1F

[VCS Label A4\_1A] Check that Pre'Class and Post'Class are not allowed on entries and protected subprograms of untagged task and protected types.

[VCS Label A4\_1F] Corrected preconditions @77 and @110 not to violate the new rule added by Binding Interpretation AI12-0166-1.

- B611008 [New] VCS Label: A4\_1A  
Check various rules about the use of the Result attribute.
- B611009 [New] VCS Label: A4\_1A  
Check that F'Result is not allowed in the body of F.
- B611010 [New] VCS Label: A4\_1A  
Check that the Old attribute is not allowed in a subprogram or entry body, or in an accept statement.
- B611011 [New] VCS Label: A4\_1A  
Check the Old attribute cannot be used within a precondition expression nor in a generic specification outside of a postcondition expression.
- B611012 [New] VCS Label: A4\_1A  
Check that the prefix of an Old attribute cannot contain the Result attribute, another Old attribute, nor the index of a quantified expression.
- B611013 [New] VCS Label: A4\_1A  
For a discrete X, check that X'Old has the nominal subtype of X.
- B611014 [New] VCS Label: A4\_1C  
[VCS Label A4\_1B] If an Old attribute reference occurs at a place where it is potentially unevaluated, check that the prefix must statically denote an object.  
[VCS Label A4\_1C] Corrected error location codes @240 and @252.
- B611015 [New] VCS Label: A4\_1B  
Check that the prefix of an Old attribute cannot have a limited type.
- B611016 [New] VCS Label: A4\_1B  
Check that tagged task and tagged protected types do not allow Pre'Class and Post'Class, nor are they allowed on operations of those types.
- B611017 [New] VCS Label: A4\_1C  
[VCS Label A4\_1B] Check that Pre'Class cannot be specified for an overriding of a subprogram that does not specify Pre'Class.  
[VCS Label A4\_1C] Declaration of New\_Proc @358 is not overriding and thus not subject to the rule. The declaration of Shine @149 never overrides primitives of the actual type by 12.3(18), thus this rule does not apply to instances of Gen2. Added an example using a generic derived type.
- B611018 [New] VCS Label: A4\_1C  
[VCS Label A4\_1B] Check 6.1.1(10-16/3).  
[VCS Label A4\_1C] Type T08 @230 and @241 needs to be declared abstract.
- B611019 [New] VCS Label: A4\_1C  
[VCS Label A4\_1B] Check 6.1.1(17/3).  
[VCS Label A4\_1C] The declaration of Get\_Count @112 never overrides primitives of the actual type by 12.3(18), thus this rule does not apply to instances of Gen2. Added examples

using generic derived types.

C611A01 [New] VCS Label: A4\_1A

Check that preconditions and postconditions where both specific and class-wide contracts apply are checked properly.

C611A02 [New] VCS Label: A4\_1C

[VCS Label A4\_1A] Check that the correct expressions are evaluated for specific preconditions and postconditions, and that they are evaluated at the correct point.

[VCS Label A4\_1C] The main subprogram name was corrected to follow the rules of the ACATS User's Guide, clause 4.3.3.

C611A03 [New] VCS Label: A4\_1C

[VCS Label A4\_1A] Check that the correct expressions are evaluated for class-wide preconditions and postconditions, and that they are evaluated at the correct point.

[VCS Label A4\_1C] The main subprogram name was corrected to follow the rules of the ACATS User's Guide, clause 4.3.3.

C611A04 [New] VCS Label: A4\_1D

[VCS Label A4\_1C] Check that the correct expressions are evaluated for class-wide preconditions and postconditions of an interface type, and that they are evaluated at the correct point.

[VCS Label A4\_1D] Fixed overlong lines.

C611B01 [New] VCS Label: A4\_1C

[VCS Label A4\_1A] Check that X'Old has the tag of X and not the tag of the nominal subtype of X (for Post).

[VCS Label A4\_1C] The main subprogram name was corrected to follow the rules of the ACATS User's Guide, clause 4.3.3.

C611B02 [New] VCS Label: A4\_1C

[VCS Label A4\_1A] Check that X'Old has the tag of X and not the tag of the nominal subtype of X (for Post'Class).

[VCS Label A4\_1C] The main subprogram name was corrected to follow the rules of the ACATS User's Guide, clause 4.3.3.

C611B03 [New] VCS Label: A4\_1D

[VCS Label A4\_1C] Check that X'Old has the tag of X and not the tag of the nominal subtype of X (for Post'Class of an interface type).

[VCS Label A4\_1D] Fixed overlong lines.

C620002 [New] VCS Label: A4\_1R

Modernizes, adds test cases to, and eliminates illegal calls from legacy test C95072A.

B62001C [Modified] VCS Label: A4\_1A

Changed error @35 to be optional, as the syntax error @33 is required (and the comment that only one error need be detected is bogus).

B62001D [Modified] VCS Label: A4\_1A

Changed error @41 to be optional, as the syntax error @33 is required (and the comment that only one error need be detected is bogus).

B631001 [New] VCS Label: A4\_1N  
Check that a prefixed view is intrinsic.

C641002 [New] VCS Label: A4\_1V  
Check that for an out parameter of a scalar type with a specified Default\_Value, the value of the actual parameter is passed in without any constraint check.

B641003 [New] VCS Label: A4\_1V  
Check that for an out parameter of a scalar type with a specified Default\_Value, it is illegal to pass a type conversion of an object unless the type of the object is related and has a specified Default\_Value.

C641003 [New] VCS Label: A4\_1Y  
[VCS Label A4\_1V] Check that for an out parameter of a scalar type with a specified Default\_Value, the value of the actual parameter is passed in without any predicate check.  
[VCS Label A4\_1Y] Corrected comments to talk about predicates and Assertion\_Error.

B650003 [Allowed Modification] New VCS Label: A4\_1W Org VCS Label: A4\_1  
Required in ACATS 4.2  
Added error location indicators.

B650005 [Allowed Modification] New VCS Label: A4\_1W Org VCS Label: A4\_1  
Required in ACATS 4.2  
Added error location indicators.

B650007 [Pending New] New VCS Label: A4\_1Y  
Required after 2022-07-01  
Check that an extended return statement containing the reserved word aliased is only allowed if the type of the return object is immutably limited.

B65005A [Modified] VCS Label: A4\_1D  
Added additional error locations to directly support common error reporting strategies.

B65005B [Modified] VCS Label: A4\_1D  
Added additional error locations to directly support common error reporting strategies.

C650B04 [New] VCS Label: A4\_1A  
Check that the result of a function that returns a class-wide tagged type does an accessibility check on the tag of the result object when the result expression is class-wide.

B651001 [New] VCS Label: A4\_1S  
[VCS Label A4\_1D] Check that a return statement cannot apply to a nonreturning procedure, and that a renames-as-body of a nonreturning procedure has to be a nonreturning procedure (pragma No\_Return version).  
[VCS Label A4\_1S] Corrected pragmas @176 and @179 to refer to the immediately preceding procedures.



C651001 [New] VCS Label: A4\_1D  
Check that a nonreturning procedure can raise an exception and raises Program\_Error otherwise (pragma No\_Return version).

B651002 [New] VCS Label: A4\_1D  
Check that a return statement cannot apply to a nonreturning procedure, and that a renames-as-body of a nonreturning procedure has to be a nonreturning procedure (aspect No\_Return version).

C651002 [New] VCS Label: A4\_1D  
Check that a nonreturning procedure can raise an exception and raises Program\_Error otherwise (aspect No\_Return version).

B651003 [New] VCS Label: A4\_1D  
Check that an aspect No\_Return can only be given on a procedure or generic procedure, that the expression has to be nonstatic, and that the aspect is not given on an instance or null procedure.

B651004 [New] VCS Label: A4\_1V  
Check that a dispatching nonreturning procedure can only be overridden by a nonreturning procedure.

B660001 [Allowed Modification] New VCS Label: A4\_1W Org VCS Label: A4\_1  
Required in ACATS 4.2  
Added error location indicators.

B660002 [Allowed Modification] New VCS Label: A4\_1P Org VCS Label: A4\_1  
Required in ACATS 4.2  
Added error location indicators.

B660003 [Allowed Modification] New VCS Label: A4\_1P Org VCS Label: A4\_1  
Required in ACATS 4.2  
Fixed overlong lines, added error location indicators.

B66001A [Allowed Modification] New VCS Label: A4\_1P Org VCS Label: A4\_1  
Required in ACATS 4.2  
Added error location indicators.

B66001B [Allowed Modification] New VCS Label: A4\_1P Org VCS Label: A4\_1  
Required in ACATS 4.2  
Added error location indicators.

B67001C [Allowed Modification] New VCS Label: A4\_1W Org VCS Label: A4\_1  
Required in ACATS 4.2  
Moved many error tags to the correct position; added error location indicators.

B680001 [Modified] VCS Label: A4\_1F  
The immediately enclosing expression function @140 does not declare a parameter A, but A is used @141. Added location indicators.

B730006 [Modified] VCS Label: A4\_1C  
Corrected format of error tags; added location indicators.

B730007 [Allowed Modification] New VCS Label: A4\_1W Org VCS Label: A4\_1  
Required in ACATS 4.2

Fixed overlong lines, header formatting issues, added error location indicators.

B730008 [Allowed Modification] New VCS Label: A4\_1W Org VCS Label: A4\_1  
Required in ACATS 4.2  
Added error location indicators.

B730009 [Allowed Modification] New VCS Label: A4\_1W Org VCS Label: A4\_1  
Required in ACATS 4.2  
Added error location indicators.

B730011 [New] VCS Label: A4\_1C  
Test various rules about completions of private types and extensions; replaces test B74001A.

B730012 [New] VCS Label: A4\_1C  
Test various rules about completions of private types and extensions in generic units; replaces test B74001B.

B730013 [New] VCS Label: A4\_1D  
Test operations available for a private type; replaces test B74203E.

B73001A [Modified] VCS Label: A4\_1C  
Added additional error locations to directly support common error reporting strategies.

B73001B [Modified] VCS Label: A4\_1C  
Added additional error locations to directly support common error reporting strategies.

B73001C [Modified] VCS Label: A4\_1C  
Added additional error locations to directly support common error reporting strategies.

B73001D [Modified] VCS Label: A4\_1C  
Added additional error locations to directly support common error reporting strategies.

B73001E [Modified] VCS Label: A4\_1C  
Added additional error locations to directly support common error reporting strategies.

B73001F [Modified] VCS Label: A4\_1C  
Added additional error locations to directly support common error reporting strategies.

B73001G [Modified] VCS Label: A4\_1C  
Added additional error locations to directly support common error reporting strategies.

B73001H [Modified] VCS Label: A4\_1C  
Added additional error locations to directly support common error reporting strategies.

B740002 [Allowed Modification] New VCS Label: A4\_1W Org VCS Label: A4\_1  
Required in ACATS 4.2

Added error location indicators.

- B740003 [Modified] VCS Label: A4\_1H  
[VCS Label A4\_1A] Modified criteria @75 so that it doesn't look like an error tag to the grading tools; also fixed an overlong line.  
[VCS Label A4\_1H] Modified grading to document that processing the main is optional. Added error location indicators.
- B74001A [Withdrawn] VCS Label: A4\_1C  
Replaced by B730011.
- B74001B [Withdrawn] VCS Label: A4\_1C  
Replaced by B730012.
- B74101A [Allowed Modification] New VCS Label: A4\_1W Org VCS Label: A4\_1  
Required in ACATS 4.2  
Added error location indicators.
- B74104A [Allowed Modification] New VCS Label: A4\_1W Org VCS Label: A4\_1  
Required in ACATS 4.2  
Added error location indicators; added Optional Error tag for D component (that matches missing discriminant).
- B74203E [Withdrawn] VCS Label: A4\_1D  
Replaced by B730013.
- B750A07 [New] VCS Label: A4\_1G  
[VCS Label A4\_1A] Check that only legal expressions are allowed in the return expression of an expression function that returns a limited type.  
[VCS Label A1\_1G] Adjusted error indicators to allow the error to be reported anywhere in a multi-line expression.
- C760A02 [New] VCS Label: A4\_1G  
Checks that functions that return immutably limited types are built-in-place.
- C760A03 [New] VCS Label: A4\_1G  
Checks that expression functions that return immutably limited types are built-in-place.
- B830001 [Allowed Modification] New VCS Label: A4\_1W Org VCS Label: A4\_1  
Required in ACATS 4.2  
Split test into 6 files; added error location indicators.
- B830003 [New] VCS Label: A4\_1W  
Check that illegal homographs are detected in specifications of generic packages. Replaces B83004A.
- B830004 [New] VCS Label: A4\_1W  
Check that illegal homographs are detected in body of generic packages. Replaces B83004B.
- B830005 [New] VCS Label: A4\_1W  
Check that illegal homographs are detected in subunits of the bodies of generic packages. Replaces B83004D.

B830006 [New] VCS Label: A4\_1W  
Check that illegal homographs of expression functions are detected  
in generic packages.

B83001A [Allowed Modification] New VCS Label: A4\_1W Org VCS Label: A4\_1  
Required in ACATS 4.2  
Moved many error tags to the correct position; added error  
location indicators.

B83003A [Allowed Modification] New VCS Label: A4\_1W Org VCS Label: A4\_1  
Required in ACATS 4.2  
Moved many error tags to the correct position; added error  
location indicators.

B83003B [Allowed Modification] New VCS Label: A4\_1W Org VCS Label: A4\_1  
Required in ACATS 4.2  
Moved many error tags to the correct position; added error  
location indicators.

B83004A [Withdrawn] Org VCS Label: A4\_1W  
Replaced in part by test B830003, the rest was redundant with  
B83004B.

B83004B [Withdrawn] Org VCS Label: A4\_1W  
Replaced by test B830004.

B83004C [Withdrawn] Org VCS Label: A4\_1W  
Redundant with B83004D.

B83004D [Withdrawn] Org VCS Label: A4\_1W  
Replaced by test B830005.

B83027B [Modified] VCS Label: A4\_1G  
The discriminant @90 needs a default expression as all or none of  
the discriminants of a type need defaults. Also added error  
location indicators.

B83027D [Modified] VCS Label: A4\_1G  
Corrected bad error tag, and added error location indicators.

B831006 [New] VCS Label: A4\_1K  
Checks that overriding indicators cannot be given on any  
subprogram declaration in a protected body.

B83E01B [Modified] VCS Label: A4\_1G  
Removed possible error cascades, reformatted some error tags, and  
added error location indicators.

B83F02C [Modified] VCS Label: A4\_1A  
Updated many optional error markers to match ACATS standards.

B85002A [Withdrawn] VCS Label: A4\_1H  
Replaced by B851005.

B85003A [Withdrawn] VCS Label: A4\_1H  
Replaced by B851007.

B85003B [Withdrawn] VCS Label: A4\_1H  
Replaced by B851007.

B851004 [Modified] VCS Label: A4\_1J  
Revised test to eliminate cases whose result would be changed by pending AI12-0287-1, and added cases to preserve complete testing.

B851005 [New] VCS Label: A4\_1H  
Checks that "known to be constrained" is properly enforced for renames. Part 1: "Normal" cases (no generics or access cases).

B851006 [New] VCS Label: A4\_1H  
Checks that "known to be constrained" is properly enforced for renames. Part 2: Access cases.

B851007 [New] VCS Label: A4\_1K  
[VCS Label A4\_1H] Checks that "known to be constrained" is properly enforced for renames. Part 3: Generic cases.  
[VCS Label A4\_1K] Corrected types of declaration @198 and @214, and mode @328.

B853001 [New] VCS Label: A4\_1H  
Checks that a renamed limited view cannot be used where there is not a with for the original package.

B854002 [New] VCS Label: A4\_1J  
[VCS Label A4\_1H] When parameter or result has a null exclusion for a subprogram rename, check that the subtype of the corresponding parameter or result of the renamed subprogram must exclude null.  
[VCS Label A4\_1J] Corrected wording of the second test objective.  
[VCS Label A4\_1R] Corrected error markers on RenG51, RenG61, RenGF51, and RenGF61. Corrected renaming @412 to rename the correct function.

B854003 [New] VCS Label: A4\_1J  
Check various rules about renames as body: conformance of both the renaming and renamed entity, and renaming of abstract and intrinsic subprograms.

B854004 [New] VCS Label: A4\_1J  
Check that renaming a subprogram that requires overriding is illegal.

B854005 [New] VCS Label: A4\_1J  
Check that a renaming of a prefixed view is illegal if renaming the prefix as an object is illegal.

B860002 [New] VCS Label: A4\_1Q  
Check that implicit conversions of access types don't allow too much.

B91003A [Modified] VCS Label: A4\_1C  
Added additional error locations to directly support common error reporting strategies.

B91003B [Modified] VCS Label: A4\_1C  
Added additional error locations to directly support common error reporting strategies.

B91003C [Modified] VCS Label: A4\_1C  
Added additional error locations to directly support common error reporting strategies.

B91003D [Modified] VCS Label: A4\_1C  
Added additional error locations to directly support common error reporting strategies.

B940003 [Modified] VCS Label: A4\_1C  
Added additional error locations to directly support common error reporting strategies.

B940004 [Modified] VCS Label: A4\_1C  
Split into 8 files; added location indicators.

B940008 [New] VCS Label: A4\_1M  
Check the overriding indicators work properly on protected subprograms.

B940009 [New] VCS Label: A4\_1M  
Check that the mode and type of the first parameter of protected operations that implement inherited subprograms is correct.

B940010 [New] VCS Label: A4\_1M  
Check that a protected operation and a primitive subprogram of a tagged protected type cannot have the same profile.

B940011 [New] VCS Label: A4\_1M  
Check that an protected operation and the associated inherited operation must subtype conform. Check that inherited operations must be implemented, overridden, or be a null procedure.

C940017 [New] VCS Label: A4\_1M  
Check that dispatching calls can be made through a protected interface and that they can be implemented with protected subprograms and entries.

C94001A [Modified] VCS Label: A4\_1M  
Revised test to replace excessive delays with Impdef constants.

C94001B [Modified] VCS Label: A4\_1M  
Revised test to replace excessive delays with Impdef constants.

C94001C [Modified] VCS Label: A4\_1M  
Revised test to replace excessive delays with Impdef constants.

C94002A [Modified] VCS Label: A4\_1M  
Revised test to replace excessive delays with Impdef constants.

C94004A [Modified] VCS Label: A4\_1M  
Revised test to replace excessive delays with Impdef constants.

C94004B [Modified] VCS Label: A4\_1M  
Revised test to replace excessive delays with Impdef constants.

C94004C [Modified] VCS Label: A4\_1M  
Revised test to replace excessive delays with Impdef constants.

C94005A [Modified] VCS Label: A4\_1M  
Revised test to replace excessive delays with Impdef constants.

C94005B [Modified] VCS Label: A4\_1M  
Revised test to replace excessive delays with Impdef constants.

C94007A [Modified] VCS Label: A4\_1M  
Revised test to replace excessive delays with Impdef constants.

C94010A [Modified] VCS Label: A4\_1M  
Revised test to replace excessive delays with Impdef constants.

B950001 [Modified] VCS Label: A4\_1W  
Commented out test case 149; fixed overlong lines, added error location indicators.

B950002 [Allowed Modification] New VCS Label: A4\_1W Org VCS Label: A4\_1  
Required in ACATS 4.2  
Added error location indicators.

B95007B [Modified] VCS Label: A4\_1A  
Fixed error markers @62,66,70 to match ACATS standards.

C95012A [Modified] VCS Label: A4\_1M  
Revised test to replace excessive delays with Impdef constants.

C95072A [Withdrawn] VCS Label: A4\_1R  
Replaced by C620002; it violated the anti-order dependence rules of 6.4.1.

B95094A [Allowed Modification] New VCS Label: A4\_1W Org VCS Label: A4\_1  
Required in ACATS 4.2  
Added error location indicators.

B952005 [New] VCS Label: A4\_1M  
Check the overriding indicators work properly on task and protected entries.

C97307A [Modified] VCS Label: A4\_1M  
Revised test to replace excessive delays with Impdef constants.

BA1001D [Modified] VCS Label: A4\_1G  
Revised to mark the main subprogram as optional, as it is not necessary to check the test objective. Added error location indicators.

BA1020F [Modified] VCS Label: A4\_1G  
Revised to mark the main subprogram as optional, as it is not necessary to check the test objective. Added error location indicators.

BA11007 [Modified] VCS Label: A4\_1G  
Split into six test files to avoid requiring error recovery.

BA11013 [Modified] VCS Label: A4\_1G  
Revised to make processing the last compilation unit optional, as it is not necessary to check the test objective. Added error location indicators.

BA1101E [Withdrawn] Org VCS Label: A4\_1G  
Replaced by test BA14001.

BA12010 [Modified] VCS Label: A4\_1G  
Revised to use Possible Error tags, and added error location indicators.

BA12018 [New] VCS Label: A4\_1H  
Check that names mentioned but not named in a private with are also treated as privately withed.

BA14001 [New] VCS Label: A4\_1G  
Replaces test BA1101E with modern format and additional test cases for Ada 95 compilation units.

BA14002 [New] VCS Label: A4\_1G  
Similar to BA14001, testing private with.

BA14003 [New] VCS Label: A4\_1G  
Checks that a unit is illegal if it depends on two versions of the same unit.

BA21005 [New] VCS Label: A4\_1D  
Test that Pure and Prelaborate aspects cannot be specified late, with a nonstatic expression, or an expression of a type other than Boolean.

BA21A01 [Allowed Modification] New VCS Label: A4\_1W Org VCS Label: A4\_1  
Required in ACATS 4.2  
Added error location indicators.

BB42001 [New] VCS Label: A4\_1C  
[VCS Label A4\_1A] Check that the arguments of a pragma Assert have to have the correct types.  
[VCS Label A4\_1C] Corrected two incorrect error location codes.

CB42001 [New] VCS Label: A4\_1A  
Check the usual operation of pragma Assert, including the optional message.

BB42002 [New] VCS Label: A4\_1A  
Check that the arguments of a pragma Assert cannot be reordered even if named notation is used.

CB42002 [New] VCS Label: A4\_1A  
Check that if the assertion policy is Ignore, none of the expressions of a pragma Assert are evaluated and no exception is raised by the pragma.



BB42003 [New] VCS Label: A4\_1A  
Check that a pragma Assertion\_Policy is illegal  
if the policy is not recognized.

CB42003 [New] VCS Label: A4\_1A  
Check that procedure Ada.Assertions.Assert evaluates its arguments  
and raises Assertion\_Error regardless of the assertion policy.

CC3601C [Modified] VCS Label: A4\_1E  
Moved "=" for type Rec in order that it not violate 4.5.2(9.8/4).

BC10001 [New] VCS Label: A4\_1W  
Check that generic formal parts cannot be prepended to task or  
protected specifications. Replaces BC2001D and BC2001E.

BC1201F [Allowed Modification] New VCS Label: A4\_1W Org VCS Label: A4\_1  
Required in ACATS 4.2  
Added error location indicators.

BC1201G [Allowed Modification] New VCS Label: A4\_1W Org VCS Label: A4\_1  
Required in ACATS 4.2  
Added error location indicators.

BC1201H [Allowed Modification] New VCS Label: A4\_1W Org VCS Label: A4\_1  
Required in ACATS 4.2  
Added error location indicators.

BC1201I [Allowed Modification] New VCS Label: A4\_1W Org VCS Label: A4\_1  
Required in ACATS 4.2  
Added error location indicators.

BC2001D [Withdrawn] Org VCS Label: A4\_1W  
Replaced by test BC10001.

BC2001E [Withdrawn] Org VCS Label: A4\_1W  
Replaced by test BC10001.

BC30001 [Allowed Modification] New VCS Label: A4\_1W Org VCS Label: A4\_1  
Required in ACATS 4.2  
Added error location indicators.

BC3013A [Allowed Modification] New VCS Label: A4\_1W Org VCS Label: A4\_1  
Required in ACATS 4.2  
Added error location indicators.

BC3018A [Allowed Modification] New VCS Label: A4\_1W Org VCS Label: A4\_1  
Required in ACATS 4.2  
Added error location indicators.

BC40003 [New] VCS Label: A4\_1J  
[VCS A4\_1H] Checks that the subtype of the actual for a generic  
formal object with a null exclusion must exclude null.  
[VCS A4\_1J] Revised test to eliminate cases whose result would be  
changed by pending AI12-0287-1, and to preserve complete testing.

CC51010 [Modified] VCS Label: A4\_1F  
The main subprogram name was corrected to follow the rules of the

ACATS User's Guide, clause 4.3.3.

BC51016 [Modified] VCS Label: A4\_1G  
Corrected bad error tag, and added error location indicators.

BC51019 [Allowed Modification] New VCS Label: A4\_1P Org VCS Label: A4\_1  
Required in ACATS 4.2  
Added error location indicators.

BC51020 [Allowed Modification] New VCS Label: A4\_1P Org VCS Label: A4\_1  
Required in ACATS 4.2  
Added error location indicators.

BC51B02 [Allowed Modification] New VCS Label: A4\_1P Org VCS Label: A4\_1  
Required in ACATS 4.2  
Added error location indicators.

BC51C01 [Allowed Modification] New VCS Label: A4\_1P Org VCS Label: A4\_1  
Required in ACATS 4.2  
Added error location indicators.

BC51C02 [Allowed Modification] New VCS Label: A4\_1P Org VCS Label: A4\_1  
Required in ACATS 4.2  
Added error location indicators.

BC54004 [New] VCS Label: A4\_1H  
Checks that the null exclusion of the formal type and of the actual subtype for a generic formal access type must match.

BC55001 [New] VCS Label: A4\_1P  
Check that formal interface types cannot be used in contexts that do not allow abstract types.

BC60001 [Allowed Modification] New VCS Label: A4\_1W Org VCS Label: A4\_1  
Required in ACATS 4.2  
Added error location indicators.

BC60002 [Allowed Modification] New VCS Label: A4\_1W Org VCS Label: A4\_1  
Required in ACATS 4.2  
Added error location indicators.

BC60005 [New] VCS Label: A4\_1J  
[VCS Label A4\_1H] Checks that the subtype of a parameter or result of the actual subprogram for a generic formal subprogram where the corresponding parameter or result has a null exclusion must exclude null.  
[VCS Label A4\_1J] Corrected wording of the second test objective.  
[VCS Label A4\_1Q] Corrected error markers on InstG51, InstG61, InstGF51, and InstGF61.  
[VCS Label A4\_1R] Corrected instance @437 to use correct actual parameter.

BD10001 [New] VCS Label: A4\_1R  
Check that an aspect cannot be specified in multiple ways for a single entity.

CD1009A [Withdrawn] VCS Label: A4\_1D

Has one of the objectives of, and thus redundant with, test CD2A31C (now CD30012).

CD1009B [Withdrawn] VCS Label: A4\_1D  
Has one of the objectives of, and thus redundant with, test CD2A21C (now CD30011).

CD1009L [Withdrawn] VCS Label: A4\_1D  
Virtually identical to, and thus redundant with, test CD2D13A.

CD1009M [Withdrawn] VCS Label: A4\_1D  
Virtually identical to, and thus redundant with, test CD3014C.

CD11001 [New] VCS Label: A4\_1A  
Check that appropriate entities are visible in an aspect specification.

CD2A21C [Withdrawn] VCS Label: A4\_1D  
Replaced by CD30011.

CD2A31C [Withdrawn] VCS Label: A4\_1D  
Replaced by CD30012.

BD11001 [Allowed Modification] New VCS Label: A4\_1W Org VCS Label: A4\_1  
Required in ACATS 4.2  
Added error location indicators; improved error tags for freezing subtests.

BD30001 [New] VCS Label: A4\_1D  
Check Legality Rules are enforced when Size is specified by an aspect specification for a type.

BD30002 [New] VCS Label: A4\_1D  
Check Legality Rules are enforced when Alignment is specified by an aspect specification for a type.

BD30003 [New] VCS Label: A4\_1D  
Check Legality Rules are enforced when Component\_Size is specified by an aspect specification.

CD30010 [New] VCS Label: A4\_1D  
Check that Component\_Size can be specified via an aspect specification.

CD30011 [New] VCS Label: A4\_1D  
Merges legacy tests CD1009B and CD2A21C to eliminate duplication (CD1009B has the same objective as one of the objectives of CD2A21C) while adding modern formatting and applicability criteria.

CD30012 [New] VCS Label: A4\_1D  
Merges legacy tests CD1009A and CD2A31C to eliminate duplication (CD1009A has the same objective as one of the objectives of CD2A31C) while adding modern formatting and applicability criteria.

CD30013 [Pending New] New VCS Label: A4\_1Y

Required after 2022-07-01

Check that Program\_Error is raised if two distinct declarations of tagged types have the same external tag. Part 1: Attribute definition clauses.

CD30014 [Pending New] New VCS Label: A4\_1Y

Required after 2022-07-01

Check that Program\_Error is raised if two distinct declarations of tagged types have the same external tag. Part 2: Aspect specifications.

BD4003A [Modified] VCS Label: A4\_1A

Moved error marker from @66 to @67 so it is on the incorrect construct.

BDB0A01 [Modified] VCS Label: A4\_1G

Revised to use Possible Error tags, and added error location indicators.

BDB2001 [New] VCS Label: A4\_1G

Check that a call on an instance of Unchecked\_Deallocation is illegal if the access type has a Storage\_Size that is statically zero.

BDB4001 [New] VCS Label: A4\_1P

Check that the object for a pool that supports subpools is declared in the same scope as the access type that uses it.

BDC1001 [New] VCS Label: A4\_1X

Check that restriction No\_Use\_of\_Attribute is implemented.

BDC1002 [New] VCS Label: A4\_1X

Check that restriction No\_Specification\_of\_Aspect is implemented.

BDC1003 [New] VCS Label: A4\_1X

Check that restriction No\_Use\_of\_Pragma is implemented.

BDD2003 [Modified] VCS Label: A4\_1G

Added additional error locations to directly support common error reporting strategies.

BDD2006 [New] VCS Label: A4\_1Q

Check that the requirements for specifying the Stream\_Size attribute are enforced.

BDD2007 [New] VCS Label: A4\_1Q

Check that the requirements for specifying the Stream\_Size aspect are enforced.

CDD2B01 [New] VCS Label: A4\_1Q

Check that confirming Stream\_Size attributes work as expected.

CDD2B02 [New] VCS Label: A4\_1Q

Check that confirming Stream\_Size aspects work as expected.

CDD2B03 [New] VCS Label: A4\_1Q

Check that non-confirming Stream\_Size attributes work as expected.

CDD2B04 [New] VCS Label: A4\_1Q  
Check that non-confirming Stream\_Size aspects work as expected.

CDE0002 [Modified] VCS Label: A4\_1E  
Changed to use Storage\_Size rather than Size so that the static expression rule of 13.14(7.2/3) is not triggered.

BDE0007 [Allowed Modification] New VCS Label: A4\_1W Org VCS Label: A4\_1  
Required in ACATS 4.2  
Added error location indicators; stripped SAIC development junk.

CXA4034 [Withdrawn] VCS Label: A4\_1AA  
Replaced by CXA4038.

CXA4038 [Pending New] New VCS Label: A4\_1AA  
Required after 2023-01-01  
Check that the operations Slice, Bounded\_Slice, and To\_(Wide\_)String have the correct results, bounds, and exceptions for Bounded\_Strings and Bounded\_Wide\_Strings.

CXA4039 [Pending New] New VCS Label: A4\_1AA  
Required after 2023-01-01  
Check that the operations Slice, Unbounded\_Slice, and To\_(Wide\_)String have the correct results, bounds, and exceptions for Unbounded\_Strings and Unbounded\_Wide\_Strings.

CXAC009 [New] VCS Label: A4\_1D  
Check that Stream\_IO.File\_Type has Preelaborable\_Initialization.

CXAG003 [New] VCS Label: A4\_1H  
[VCS Label A4\_1G] Check that function Ada.Directories.Name\_Case\_Equivalence exists and that it reflects the handling of file names.  
[VCS Label A4\_1H] Added "return;" @171; if the file can't be opened, the Read\_File trial is complete.

CXAI001 [Modified] VCS Label: A4\_1W  
Changed the names of operations to be compatible with the ruling of AI12-0400-1. Also fixed some overlong lines.

BXAI005 [Allowed Modification] New VCS Label: A4\_1W Org VCS Label: A4\_1  
Required in ACATS 4.2  
Added error location indicators rather than attempting to move the error tags - this test was designed expecting only that something in each marked construct would be rejected (unlike most tests).

BXAI006 [Allowed Modification] New VCS Label: A4\_1W Org VCS Label: A4\_1  
Required in ACATS 4.2  
Added error location indicators rather than attempting to move the error tags - this test was designed expecting only that something in each marked construct would be rejected (unlike most tests).

BXAI007 [Allowed Modification] New VCS Label: A4\_1W Org VCS Label: A4\_1  
Required in ACATS 4.2  
Added error location indicators rather than attempting to move the error tags - this test was designed expecting only that something

in each marked construct would be rejected (unlike most tests).

BXAI008 [Allowed Modification] New VCS Label: A4\_1W Org VCS Label: A4\_1  
Required in ACATS 4.2

Added error location indicators rather than attempting to move the error tags - this test was designed expecting only that something in each marked construct would be rejected (unlike most tests).

CXAI010 [Modified] VCS Label: A4\_1W

Changed the names of operations to be compatible with the ruling of AI12-0400-1. Also fixed some overlong lines.

CXAIA01 [Modified] VCS Label: A4\_1W

Changed the names of operations to be compatible with the ruling of AI12-0400-1. Also fixed some overlong lines.

BXAIA03 [Allowed Modification] New VCS Label: A4\_1W Org VCS Label: A4\_1  
Required in ACATS 4.2

Added error location indicators rather than attempting to move the error tags - this test was designed expecting only that something in each marked construct would be rejected (unlike most tests).

BXAIA04 [Allowed Modification] New VCS Label: A4\_1W Org VCS Label: A4\_1  
Required in ACATS 4.2

Added error location indicators rather than attempting to move the error tags - this test was designed expecting only that something in each marked construct would be rejected (unlike most tests).

CXAIB01 [New] VCS Label: A4\_1U

[VCS Label A4\_1T] Check that Ada.Containers.Vectors is preelaborated, and it and types declared in it can be used in preelaborated packages.

[VCS Label A4\_1U] Corrected instance prefix of No\_Element in some Insert calls. Qualified aggregates to avoid issues for Ada 202x.

CXAIB02 [New] VCS Label: A4\_1U

[VCS Label A4\_1T] Check that Ada.Containers.Bounded\_Vectors is preelaborated, and it and types declared in it can be used in preelaborated packages.

[VCS Label A4\_1U] Corrected instance prefix of No\_Element in some Insert calls. Qualified aggregates to avoid issues for Ada 202x.

CXAIB03 [New] VCS Label: A4\_1U

[VCS Label A4\_1T] Check that Ada.Containers.Doubly\_Linked\_Lists is preelaborated, and it and types declared in it can be used in preelaborated packages.

[VCS Label A4\_1U] Corrected instance prefix of No\_Element in some Insert calls.

CXAIB04 [New] VCS Label: A4\_1U

[VCS Label A4\_1T] Check that Ada.Containers.Bounded\_Doubly\_Linked\_Lists is preelaborated, and it and types declared in it can be used in preelaborated packages.

[VCS Label A4\_1U] Corrected instance prefix of No\_Element in some Insert calls.

CXAIB05 [New] VCS Label: A4\_1T

Check that Ada.Containers.Ordered\_Maps is preelaborated, and it and types declared in it can be used in preelaborated packages.

CXAIB06 [New] VCS Label: A4\_1T

Check that Ada.Containers.Bounded\_Ordered\_Maps is preelaborated, and it and types declared in it can be used in preelaborated packages.

CXAIB07 [New] VCS Label: A4\_1T

Check that Ada.Containers.Hashed\_Maps is preelaborated, and it and types declared in it can be used in preelaborated packages.

CXAIB08 [New] VCS Label: A4\_1T

Check that Ada.Containers.Bounded\_Hashed\_Maps is preelaborated, and it and types declared in it can be used in preelaborated packages.

CXB3013 [Modified] VCS Label: A4\_1W

Added "#include <stdlib.h>" @f1:57, as this is required by standard C for the call to Malloc.

CXB3019 [Modified] VCS Label: A4\_1S

Added missing failures if Program\_Error is not raised when expected.

CXB3020 [Modified] VCS Label: A4\_1S

Added missing failures if Program\_Error is not raised when expected.

CXB3021 [Modified] VCS Label: A4\_1S

Added missing failures if Program\_Error is not raised when expected.

CXB3022 [Modified] VCS Label: A4\_1S

Added missing failures if Program\_Error is not raised when expected.

CXB3023 [New] VCS Label: A4\_1A

Check that a value of an unchecked union type (defined with pragma Unchecked\_Union) can be passed to a C function.

CXB3024 [New] VCS Label: A4\_1A

Check that a value of an unchecked union type (defined with aspect Unchecked\_Union) can be passed to a C function.

==== Annex C =====

BXC6A03 [Modified] VCS Label: A4\_1G

Changed subtest result to require the changes of AI05-0218-1.

==== Annex D =====

CXD2007 [Modified] VCS Label: A4\_1C  
Added missing N/A => Error tag.

LXD7001 [Modified] VCS Label: A4\_1C  
Added missing error tag.

LXD7003 [Modified] VCS Label: A4\_1C  
Added missing error tag.

LXD7004 [Modified] VCS Label: A4\_1C  
Added missing error tag.

LXD7005 [Modified] VCS Label: A4\_1C  
Added missing error tag.

LXD7006 [Modified] VCS Label: A4\_1C  
Added missing error tag.

LXD7007 [Modified] VCS Label: A4\_1C  
Added missing error tag.

LXD7008 [Modified] VCS Label: A4\_1C  
Added missing error tag.

LXD7009 [Modified] VCS Label: A4\_1C  
Added location indicators.

CXDB001 [Modified] VCS Label: A4\_1C  
Added missing N/A => Error tag.

CXDB002 [Modified] VCS Label: A4\_1C  
Added missing N/A => Error tag.

CXDB003 [Modified] VCS Label: A4\_1C  
Added missing N/A => Error tag.

CXDB004 [Modified] VCS Label: A4\_1C  
Added missing N/A => Error tag.

==== Annex E =====

[None.]

==== Annex F =====

[None.]

==== Annex G =====

[None.]

==== Annex H =====

LXH4001 [Modified] VCS Label: A4\_1C  
Corrected format of error tag; added location indicators.

LXH4003 [Modified] VCS Label: A4\_1C



Corrected format of error tag; added location indicators.

LXH4006 [Modified] VCS Label: A4\_1C  
Added missing error tags.

LXH4009 [Modified] VCS Label: A4\_1C  
Added missing error tags.

LXH4013 [Modified] VCS Label: A4\_1C  
Added missing error tags.

LXH4014 [Modified] VCS Label: A4\_1C  
Added missing error tags.

==== Support =====

F350A00 [New] VCS Label: A4\_1R  
A foundation for discrete specified Default\_Value tests.

F350B00 [New] VCS Label: A4\_1R  
A foundation for real specified Default\_Value tests.

F360A00 [New] VCS Label: A4\_1S  
A foundation for discrete specified Default\_Component\_Value tests.

F360B00 [New] VCS Label: A4\_1S  
A foundation for real specified Default\_Component\_Value tests.

F458A00 [Pending New] New VCS Label: A4\_1AA  
Required after 2023-01-01  
A foundation containing a sparse array container, used in  
quantified expression tests.

F611A00 [New] VCS Label: A4\_1C  
[VCS Label A4\_1A] Foundation for tests C611A01, C611A02, and  
C611A03.  
[VCS Label A4\_1C] Added additional data for test C611A04. The  
changes are only needed for that test.

F611B00 [New] VCS Label: A4\_1A  
Foundation for tests C611B01, C611B02, and C611B03.

FDD2B00 [New] VCS Label: A4\_1Q  
A foundation for Stream\_Size aspect tests.

FXAIB00 [New] VCS Label: A4\_1T  
A foundation for container preelaboration tests.

GRADE.A [Modified] VCS Label: A4\_1G  
[VCS Label A4\_1C] Allowed manual grading for tests that are  
missing execution or linking (with no earlier errors). Corrected  
the result for binder crashes. Added category totals to the  
summary.  
[VCS Label A4\_1D] Corrected so that Annex C RQMT failures are  
properly counted in their own category.  
[VCS Label A4\_1G] Corrected call @1578 so that the special  
handling flag rather than the failed flag is used with a manual

grading message for a missing error set. (The actual grade was correct, only the message was wrong.)

GRD\_DATA.A [Modified] VCS Label: A4\_1P  
[VCS Label A4\_1D] Increased table sizes as the new tests have caused grading the entire ACATS to exceed the old limits.  
[VCS Label A4\_1M] Generalized reading of white space in order to be more resilient, especially on Unix-like systems.  
[VCS Label A4\_1P] MAX\_SUMMARY\_ITEMS @66 was increased to 40\_000 as the ACATS has grown to exceed the old limit.

REPORT.A [Allowed Modification] New VCS Label: A4\_1Y Org VCS Label: A4\_1  
Required in ACATS 4.2  
The ACATS Version string was moved into a separate package Version.

SPECIAL.A [Modified] VCS Label: A4\_1J  
[VCS Label A4\_1C] Added test BA21005 to the list of optional main subprograms.  
[VCS Label A4\_1H] Added seven tests to the list of optional main subprograms.  
[VCS Label A4\_1J] Added more tests to the list of optional main subprograms.

SUMMARY.A [Modified] VCS Label: A4\_1C  
Corrected identification of main subprograms in modern tests.  
Changed the unit name for subunits to be the full expanded name including the parent name.

TCTOUCH.ADA [Modified] VCS Label: A4\_1H  
Added code so that Touch only reports buffer overflow once. Fixed the Id string.

VERSION.A [Pending New] New VCS Label: A4\_1Y  
Required in ACATS 4.2  
The ACATS Version string is now found here.

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### **How to get new and modified tests:**

The official home of the ACATS test suite is the ACAA web site. The site can be accessed at [www.ada-auth.org](http://www.ada-auth.org).

The complete set of official new and modified tests are available in the Mod\_4\_1AA.Zip and Tar files on the ACAA web site. As always, when a multi-file test is modified, we provide all of the files, including the unmodified files.

Individual new and modified tests can be retrieved from the ACATS VCS. Simply navigate to the appropriate directory (folder), and select the test you want. Select the revision you want (usually the most recent) and it will be retrieved for you. Tests are stored in directories that correspond to the test's prefix. For instance, the test CD92001.A will be found in the CD directory. You can also browse the differences between versions of a test. [In case of a conflict, the files in the ACATS VCS should be considered the 'official' versions.]

If you cannot get the files from the official site or you cannot get the files in a format appropriate for your processor, please contact your ACAL.

The baseline ACATS 4.1 is available in various formats on the ACAA web site.

**Summary lists:**

**Withdrawn Tests**

(Refer to the main list for details)

B74001A  
B74001B  
B74203E  
B83004A  
B83004B  
B83004C  
B83004D  
B85002A  
B85003A  
B85003B  
BA1101E  
BC2001D  
BC2001E  
C95072A  
CD1009A  
CD1009B  
CD1009L  
CD1009M  
CD2A21C  
CD2A31C  
CXA4034

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**Allowed Modification Tests**

(Refer to the main list for details)

B32201A	ACATS 4.2
B324001	ACATS 4.2
B33101A	ACATS 4.2
B35901C	ACATS 4.2
B36102A	ACATS 4.2
B370002	ACATS 4.2
B38103A	ACATS 4.2
B38103B	ACATS 4.2
B38103C	ACATS 4.2
B38103D	ACATS 4.2
B38103E	ACATS 4.2
B393005	ACATS 4.2
B393008	ACATS 4.2
B393009	ACATS 4.2
B394001	ACATS 4.2
B394A01	ACATS 4.2
B394A02	ACATS 4.2
B394A03	ACATS 4.2
B394A04	ACATS 4.2

B394A05	ACATS	4.2
B41327B	ACATS	4.2
B415001	ACATS	4.2
B43201A	ACATS	4.2
B43201C	ACATS	4.2
B43202A	ACATS	4.2
B433002	ACATS	4.2
B433003	ACATS	4.2
B457002	ACATS	4.2
B457005	ACATS	4.2
B457007	ACATS	4.2
B460002	ACATS	4.2
B480002	ACATS	4.2
B48002A	ACATS	4.2
B48002G	ACATS	4.2
B48003B	ACATS	4.2
B48003E	ACATS	4.2
B490003	ACATS	4.2
B49005A	ACATS	4.2
B551001	ACATS	4.2
B56001A	ACATS	4.2
B57001B	ACATS	4.2
B650003	ACATS	4.2
B650005	ACATS	4.2
B660001	ACATS	4.2
B660002	ACATS	4.2
B660003	ACATS	4.2
B66001A	ACATS	4.2
B66001B	ACATS	4.2
B67001C	ACATS	4.2
B730007	ACATS	4.2
B730008	ACATS	4.2
B730008	ACATS	4.2
B740002	ACATS	4.2
B74101A	ACATS	4.2
B74104A	ACATS	4.2
B830001	ACATS	3.2
B83001A	ACATS	3.2
B83003A	ACATS	3.2
B83003B	ACATS	3.2
B950002	ACATS	4.2
B95094A	ACATS	4.2
BA21A01	ACATS	4.2
BC1201F	ACATS	4.2
BC1201G	ACATS	4.2
BC1201H	ACATS	4.2
BC1201I	ACATS	4.2
BC30001	ACATS	4.2
BC3013A	ACATS	4.2
BC3018A	ACATS	4.2
BC51019	ACATS	4.2
BC51020	ACATS	4.2
BC51B02	ACATS	4.2
BC51C01	ACATS	4.2
BC51C02	ACATS	4.2
BC60001	ACATS	4.2
BC60002	ACATS	4.2

BD11001	ACATS 4.2
BDE0007	ACATS 4.2
BXAI005	ACATS 4.2
BXAI006	ACATS 4.2
BXAI007	ACATS 4.2
BXAI008	ACATS 4.2
BXAIA03	ACATS 4.2
BXAIA04	ACATS 4.2
REPORT	ACATS 4.2

### **Modified Tests**

(Refer to the main list for details)

B33001A  
B37309B  
B37310B  
B37311A  
B38003D  
B392002  
B392003  
B392004  
B392005  
B393001  
B393007  
B393010  
B3A1001  
B3A1002  
B3A2007  
B3A2008  
B3A2009  
B3A2011  
B3A2012  
B3A2016  
B413004  
B416001  
B455002  
B457001  
B457004  
B4A010C  
B540001  
B540002  
B54B01B  
B54B01C  
B54B02B  
B54B02C  
B54B02D  
B54B04A  
B54B04B  
B54B05A  
B551002  
B552A01  
B55B12B  
B55B12C  
B62001C  
B62001D  
B63005A

B65005B  
B680001  
B730006  
B73001A  
B73001B  
B73001C  
B73001D  
B73001E  
B73001F  
B73001G  
B73001H  
B732C02  
B740003  
B83027B  
B83027D  
B83E01B  
B83F02C  
B851004  
B95007B  
B91003A  
B91003B  
B91003C  
B91003D  
B940003  
B940004  
B950001  
BA1001D  
BA1020F  
BA11007  
BA11013  
BA12010  
BC51016  
BB42001  
BD4003A  
BDB0A01  
BDD2003  
BXC6A03  
C352001  
C415001  
C52101A  
C94001A  
C94001B  
C94001C  
C94002A  
C94004A  
C94004B  
C94004C  
C94005A  
C94005B  
C94007A  
C94010A  
C95012A  
C97307A  
CC3601C  
CC51010  
CDE0002  
CXAI001

CXAI010  
CXAIA01  
CXB3013  
CXB3019  
CXB3020  
CXB3021  
CXB3022  
CXD2007  
CXDB001  
CXDB002  
CXDB003  
CXDB004  
LXD7001  
LXD7003  
LXD7004  
LXD7005  
LXD7006  
LXD7007  
LXD7008  
LXD7009  
LXH4001  
LXH4003  
LXH4006  
LXH4009  
LXH4013  
LXH4014  
GRADE  
GRD\_DATA  
SPECIAL  
SUMMARY  
TCTOUCH.ADA

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## **New Tests**

(Refer to the main list for details)

B324004  
B350001  
B354002  
B35A001  
B360001  
B393012  
B393013  
B3A2018  
B431007  
B432002  
B432003  
B452001  
B452002  
B458001  
B480004  
B611001  
B611002  
B611003  
B611004

B611005  
B611006  
B611007  
B611008  
B611009  
B611010  
B611011  
B611012  
B611013  
B611014  
B611015  
B611016  
B611017  
B611018  
B611019  
B631001  
B641003  
B651001  
B651002  
B641003  
B651004  
B730011  
B730012  
B730013  
B750A07  
B830003  
B830004  
B830005  
B830006  
B831006  
B851005  
B851006  
B851007  
B853001  
B854002  
B854003  
B854004  
B860002  
B940008  
B940009  
B940010  
B940011  
B952005  
BA12018  
BA14001  
BA14002  
BA14003  
BA21005  
BB42001  
BB42002  
BB42003  
BC10001  
BC40003  
BC54004  
BC55001  
BC60005  
BD10001



BD30001  
BD30002  
BD30003  
BDB2001  
BDB4001  
BDC1001  
BDC1002  
BDC1003  
BDD2006  
BDD2007  
C324006  
C350001  
C350A01  
C350A02  
C350B01  
C350B02  
C354004  
C35A001  
C360A01  
C360A02  
C360B01  
C360B02  
C3A0030  
C452002  
C452003  
C452004  
C452005  
C452006  
C452A01  
C452A02  
C452A03  
C453001  
C460014  
C460015  
C470001  
C480001  
C611A01  
C611A02  
C611A03  
C611A04  
C611B01  
C611B02  
C611B03  
C620002  
C641002  
C641003  
C650B04  
C651001  
C651002  
C760A02  
C760A03  
C940017  
CB42001  
CB42002  
CB42003  
CD11001  
CD30010

CD30011  
CD30012  
CDD2B01  
CDD2B02  
CDD2B03  
CDD2B04  
CXAC009  
CXAG003  
CXAIB01  
CXAIB02  
CXAIB03  
CXAIB04  
CXAIB05  
CXAIB06  
CXAIB07  
CXAIB08  
CXB3023  
CXB3024  
F350A00  
F350B00  
F360A00  
F360B00  
F611A00  
F611B00  
FDD2B00  
FXAIB00

**Pending New Tests**

(Refer to the main list for details)

B431008	2022-10-01
B431009	2022-10-01
B440001	2022-07-01
B490004	2022-10-01
B650007	2022-07-01
C431003	2022-10-01
C431004	2022-10-01
C458002	2023-01-01
C458003	2023-01-01
C458A01	2023-01-01
C458A02	2023-01-01
CD30013	2022-07-01
CD30014	2022-07-01
CXA4038	2023-01-01
CXA4039	2023-01-01
F458A00	2023-01-01
REPORT	ACATS 4.2
VERSION	ACATS 4.2