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ADA (TRADE NAME) COMPILER VALIDATION SUMMARY REPORT:
RATIONAL ENVIRONMENT VERSION A206 FOR RATIONAL R1000
(U) SOFTECH INC FAIRBORN OH 24 MAY 85 F33600-84-D-0280

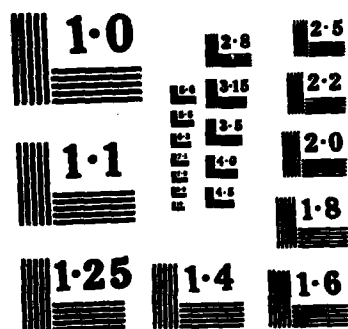
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Ada[®] Compiler Validation Summary Report:
Rational Environment
Version A.2.0.6
For Rational R1000

(Final)

Contract F33600-84-D-0280
3285-2-15.2

24 May 1985

Prepared for:

Ada Validation Facility (ASD/SIOL)
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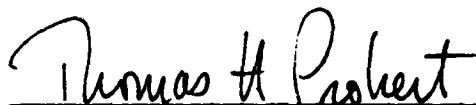
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ANSI Ada Reference Manual, January 1983. Not all tests in the ACVX test suite are applicable to a specific implementation. Also, known test errors in Version 1.5 are present in some tests; these tests were withdrawn. The purpose of the testing is to ensure that the compiler properly implements legal language constructs and that it identifies, rejects from processing, and labels illegal language constructs. The testing also identifies implementation-dependent behavior permitted by the standard. Six classes of tests are used. These tests are designed to perform checks at compile time, during execution, and at link time. The ACVCM Version 1.5, contains 2051 tests, of which 1875 were applicable to this implementation. Of the 1875 applicable tests, 78 were withdrawn due to the occurrence of errors in the tests. Results showed that all of the remaining 1797 valid tests were successfully passed by the Rational Environment. A complete list of tests and results is provided in this report. The AVF concluded that the results obtained show acceptable compliance to the January 1983 ANSI Ada Reference Manual.

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ABSTRACT

The purpose of this Validation Summary Report is to present the results and conclusions of performing standardized tests on the Rational Environment. On-site testing was performed 28-30 APR 85 at RATIONAL in Mountain View, CA, under the auspices of the Ada Validation Facility (AVF), according to the Ada Validation Office (AVO) policies and procedures. The Rational Environment (Version A.2.0.6) is hosted on the R1000 computer. The suite of tests known as the Ada Compiler Validation Capability (ACVC), Version 1.5, was used. The ACVC suite of tests is used to validate conformance of the compiler to ANSI/MIL-STD-1815A (Ada). This standard is described in the ANSI Ada Reference Manual, January 1983. Not all tests in the ACVC test suite are applicable to a specific implementation. Also, known test errors in Version 1.5 are present in some tests; these tests were withdrawn. The purpose of the testing is to ensure that the compiler properly implements legal language constructs and that it identifies, rejects from processing, and labels illegal language constructs. The testing also identifies implementation-dependent behavior permitted by the standard. Six classes of tests are used. These tests are designed to perform checks at compile time, during execution, and at link time. The ACVC, Version 1.5, contains 2051 tests, of which 1875 were applicable to this implementation. Of the 1875 applicable tests, 78 were withdrawn due to the occurrence of errors in the tests. Results showed that all of the remaining 1797 valid tests were successfully passed by the Rational Environment. A complete list of tests and results is provided in this report. The AVF concluded that the results obtained show acceptable compliance to the January 1983 ANSI Ada Reference Manual.

CHAPTER 1

INTRODUCTION

1.1 PURPOSE OF THE VALIDATION SUMMARY REPORT

This report describes the results of the validation effort for the following Ada translator:

Host Machine:	R1Q00
Operating System:	Rational Environment
Target Machine:	R1000
Operating System:	Rational Environment
Language Version:	ANSI/MIL-STD-1815A Ada
Translator Name:	Rational Environment
Translator Version:	A.2.0.6
Validator Version:	1.5

Testing of this translator was conducted by SofTech, Inc. under the supervision of the Ada Validation Facility (AVF), Wright-Patterson AFB, Ohio, at the direction of the Ada Joint Program Office (AJPO). Testing was conducted from 28 APR 85 through 30 APR 85 at RATIONAL in Mountain View, CA in accordance with Ada Validation Office (AVO) policies and procedures.

The purpose of this report is to document the results of the testing performed on the compiler. Testing was carried out with specific emphasis on the following factors:

- . to identify any language constructs supported by the translator that do not conform to the Ada Standard
- . to identify any unsupported language constructs required by the Ada Standard

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- . to describe implementation-dependent behavior allowed by the Standard

1.2 USE OF THE VALIDATION SUMMARY REPORT

The Ada Validation Office may make full and free public disclosure of this report in accordance with the "Freedom of Information Act" (5 U.S.C. #552). The results of the validation are only for the purpose of satisfying United States Government requirements and apply only to the computers, operating systems, and compiler version identified in this report.

The Ada Compiler Validation Capability is used to determine, insofar as is practical, the degree to which the subject compiler conforms to the Ada Standard. Thus, this report is necessarily discretionary and judgmental. The United States Government does not represent nor warrant that any statement or statements set forth in this report are accurate or complete, or that the subject compiler has no other nonconformances to the Ada Standard. This report is not meant to be used for the purpose of publicizing the findings summarized herein.

Questions regarding this report or the validation tests should be sent to:

Ada Validation Facility (ASD/SIOL)
Computer Operations Division
Information Systems and Technology Center
Wright-Patterson AFB OH 45433-6503

1.3 REFERENCES

Reference Manual for the Ada Programming Language, ANSI/MIL-STD-1815A, February 1983.

Ada Validation Organization: Policies and Procedures, Mitre Corporation, June 1982, PB 83-110601.

Ada Compiler Validation Implementers' Guide, SofTech, Inc., October 1980.

"The Ada Compiler Validation Capability," Computer, Vol. 14, No. 6, June 1981.

Using the ACVC Tests, SofTech, Inc., February 1984.

1.4 DEFINITIONS OF TERMS

Class A tests are passed if no errors are detected at compile time. Although these tests are constructed to be executable, no checks can be performed at run time to see if the test objective has been met; this distinguishes Class A from Class C tests. For example, a Class A test might check that keywords of other languages (other than those already reserved in Ada) are not treated as reserved words by an Ada implementation.

Class B tests are illegal programs. They are passed if all the errors they contain are detected at compile time (or link time) and no legal statements are considered illegal by the compiler.

Class C tests consist of executable self-checking programs. They are passed if they complete execution and do not report failure.

Class D tests are capacity tests. Since there are no firm criteria for the number of identifiers permitted in a compilation, number of units in a library, etc., a compiler may refuse to compile a Class D test. However, if such a test is successfully compiled, it should execute without reporting a failure.

Class E tests provide information about an implementation's interpretation of the Standard. Each test has its own pass/fail criterion.

Class L tests consist of illegal programs whose errors are expected to be detected at link time. They are passed if errors are detected prior to beginning execution of the main program.

CUSTOMER: The agency requesting the validation (RATIONAL).

HOST: The computer on which the compiler executes (R1000).

ACVC: The Ada Compiler Validation Capability.

AVO: The Ada Validation Office. In the context of this report, the AVO is responsible for setting policies and procedures for compiler validations.

AVF: The Ada Validation Facility, Wright-Patterson Air Force Base. In the context of this report, the AVF is responsible for conducting compiler validations.

TARGET: The computer for which a compiler generates object code (R1000).

VALIDATION: The process of validating a compiler. The term is used interchangeably with test or compiler test.

VALIDATION TESTS: The generic form used to refer to a set of test programs which evaluate how closely a compiler

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conforms to its language specification. In this report, the term will be used (unqualified) to mean the ACVC tests.

CHAPTER 2

TEST ANALYSIS

The following table shows that the Rational Environment passed all applicable correct tests.

	A	B	C	D	E	L	Support	Total
Passed	57	749	957	11	6	7	10	1797
Failed	0	0	0	0	0	0	0	0
Inapplicable	1	2	167	3	1	2	0	176
Withdrawn	0	2	76	0	0	0	0	78
Total	58	753	1200	14	7	9	10	2051

35 tests in the suite were processed but were found to be not applicable to the Rational Environment. Another 141 tests were known to be not applicable because the digits value in those tests exceeded this implementation's value of SYSTEM.MAX_DIGITS, 15. These tests were not processed (see section 4.2.6).

In addition, 78 tests were withdrawn from the test suite because they did not conform to ANSI/MIL-STD-1815A, the Ada Language Standard (see section 4.2.5 for details).

2.1 CLASS A TESTING

Class A tests check to ensure that legal Ada programs can be successfully compiled. These tests are executed but contain no executable self-checking capabilities. There were 58 Class A test programs processed in this validation.

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2.1.1 Class A Test Procedures

Each Class A test is separately compiled and executed. However, the only purpose of execution is to produce a message indicating that the test passed.

2.1.2 Class A Test Results

Successful compilation and execution without any error messages indicates that the tests passed. There were no Class A tests that were withdrawn because of errors in the tests, and one Class A test was found to be inapplicable to this implementation (See section 4.2.6). The remaining 57 applicable Class A tests passed.

2.2 CLASS B TESTING

Class B tests check the ability to recognize illegal language usage. 753 Class B tests were processed.

2.2.1 Class B Test Procedures

Each Class B test is separately compiled. The resulting test compilation listings are manually examined to see whether every illegal construct in the test is detected. If all errors are not detected, a version of the test is created that contains only undetected illegal constructs. This "split" version is recompiled and the results analyzed. If all errors are still not detected, the revision process is repeated until a revised test contains only a single illegal construct.

A Class B test is considered to fail only if a version of the test containing a single illegal construct is accepted by the compiler (i.e., an illegal construct is not detected) or a version containing no errors is rejected (i.e., a legal construct is rejected).

2.2.2 Class B Test Results

751 Class B tests were presented to the compiler. Two of these tests were found to be inapplicable to this implementation (see section 4.2.6); two tests were found to be incorrect (i.e., a conforming compiler would have failed the test - see section 4.2.5) and were not run. All 749 applicable Class B tests passed. See section 4.2.7 for further information.

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Test Analysis

Because all errors were not detected when compiling the original tests, the following 38 tests were modified by removing the detected errors:

B22003A.ADA	B24104C.ADA	B51001A-AB.ADA
B22004A.ADA	B26002A.ADA	B51003A-AB.ADA
B22004B.ADA	B26005A.ADA	B53003A-AB.ADA
B22004C.ADA	B29001A-B.ADA	B55A01A-AB.ADA
B23004A.ADA	B32103A-AB.ADA	B64004A.ADA
B23004B.ADA	E35101A.ADA	B67001A-B.ADA
B24001A.ADA	E37301A.ADA	B97101A-AB.ADA
B24001B.ADA	B37301B.ADA	B97101E-AB.ADA
B24001C.ADA	B37307B-AB.ADA	B97102A-AB.ADA
B24005A.ADA	B38001A.ADA	BB3005A-AB.ADA
B24005B.ADA	B41202A.ADA	BC3003A-AB.ADA
B24104A.ADA	B44001A-B.ADA	BC3013A-AB.ADA
B24104B.ADA	B45205A-AB.ADA	

For the modified tests, all illegal constructs were detected.

2.3 CLASS C TESTING

Class C tests check to ensure that legal Ada programs are correctly compiled and executed by an implementation. 983 Class C tests were processed in this validation. 141 tests requiring a floating point precision exceeding SYSTEM.MAX_DIGITS were not processed.

2.3.1 Class C Test Procedures

Each Class C test is separately compiled and executed. The tests are self-checking and produce PASS/FAIL messages. Any "failed" tests are individually checked to see if they are correct and if they are applicable to the implementation. Any tests that are inapplicable or that do not conform to the Ada Standard are withdrawn.

2.3.2 Class C Test Results

Of the 1200 Class C tests, 76 tests were withdrawn because of errors in the tests (See section 4.2.5), and 167 were determined to be inapplicable (See section 4.2.6). Included in the inapplicable tests were the 141 tests requiring a floating point precision exceeding SYSTEM.MAX_DIGITS. The 957 applicable tests passed. See section 4.2.7 for further information.

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2.4 CLASS D TESTING

Class D tests are executable tests used to check an implementation's compilation and execution capacities. Fourteen Class D tests were used in this validation.

2.4.1 Class D Test Procedures

Each Class D test is separately compiled and executed. The tests are self-checking and produce PASS/FAIL messages.

2.4.2 Class D Test Results

Of the 14 Class D tests, 11 were passed and three were found to be inapplicable to this implementation (See section 4.2.6). None of the tests were withdrawn. See section 4.2.7 for further information.

2.5 CLASS E TESTING

Class E tests are executable tests that provide information about an implementer's interpretation of the Standard in areas where the Standard permits implementations to differ. Each test has its own PASS/FAIL criterion. Seven Class E tests were used in this validation.

2.5.1 Class E Test Procedures

Each Class E test is separately compiled and executed. The tests are self-checking and produce commentary and PASS/FAIL messages.

2.5.2 Class E Test Results

Of the seven Class E tests, six were passed and one was found to be inapplicable for this implementation (See section 4.2.6). See section 4.2.7 for further information.

2.6 CLASS L TESTING

Class L tests check to ensure that incomplete or illegal Ada programs involving multiple, separately compiled source files are not allowed to execute. Nine test programs were processed in this validation attempt.

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2.6.1 Class L Test Procedures

Each Class L test is separately compiled, and execution is attempted. The tests produce FAIL messages if executed.

2.6.2 Class L Test Results

Of the nine Class L tests, two were found to be inapplicable to this implementation (see section 4.2.6), and none of the tests were withdrawn due to errors in the tests. The remaining seven tests passed.

2.7 SUPPORT UNITS

Three support packages are compiled to be used by the rest of the ACVC tests. The CHECK_FILE package is used by many of the chapter 14 tests to check the contents of a text file. The REPORT package provides the mechanism for reporting pass/fail/nonapplicable results of executable tests. The VAR_STRINGS package defines types and routines for manipulating varying-length character strings.

2.7.1 Support Unit Test Procedures

The CZ tests check the functions and procedures specified by the three support packages.

2.7.2 Support Unit Test Results

All three support packages compiled and passed, and all seven CZ tests were successfully executed.

CHAPTER 3

COMPILER NONCONFORMANCES

There were no nonconformances to the Ada Standard detected in this validation. The Rational Environment passed all applicable correct tests.

CHAPTER 4

ADDITIONAL INFORMATION

This section describes in more detail how the validation was conducted.

4.1 COMPILER PARAMETERS

Certain tests do not apply to all Ada compilers; for example, compilers are not required to support several predefined floating point types; therefore, tests must be selected based on the predefined types an implementation actually supports. In addition, some tests are parameterized according to the maximum input source line length allowed by an implementation, the maximum floating point precision supported, etc. The implementation-dependent parameters used in performing this validation were:

- . maximum lexical element length: 254
- . maximum digits value for floating point types: 15
- . SYSTEM.MIN_INT: $-(2^{63})$
- . SYSTEM.MAX_INT: $(2^{63}) - 1$
- . predefined numeric types: FLOAT, INTEGER, SHORT_INTEGER, LONG_INTEGER
- . INTEGER'FIRST: -2_147_483_647
- . INTEGER'LAST: 2_147_483_647
- . source character set: ASCII
- . extended ASCII characters:
"abcdefghijklmnopqrstuvwxyz!\$%?@[\]^_{}~"
- . non-ASCII char type: (NON_NULL)

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- . TEXT_IO.COUNT'LAST: 2_147_483_647
- . TEXT_IO.FIELD'LAST: 2_147_483_647
- . illegal external file name1: BAD_CHARACTER#^
- . illegal external file name2: (1..255 => 'A')
- . SYSTEM.PRIORITY'FIRST: 0
- . SYSTEM.PRIORITY'LAST: 5

4.2 TESTING INFORMATION

Tests were compiled and executed at the office of RATIONAL in Mountain View, CA. The tests were executed on an R1000 operating under the Rational Environment using command procedures prepared by RATIONAL and reviewed by the validation team.

4.2.1 Pre-Test Procedures

Prior to traveling to Mountain View to run the validation suite, the validation team performed a pre-validation review of the Rational Environment. The validation team received computer listings and a magnetic tape from RATIONAL containing the ACVC Version 1.5 test results of the compiler. The validation team examined the test results from each test and determined the acceptability of the test results.

Prior to testing, appropriate values for the compiler-dependent parameters were determined. These values were used to adapt tests that depend on the values. Magnetic tapes containing the adapted tests were prepared and brought to the testing site.

4.2.2 Control Files

RATIONAL provided command procedures that compiled and executed tests automatically.

4.2.3 Test Procedures

Two ANSI format test tapes containing ACVC Version 1.5 were taken on-site by the validation team. These tapes were mounted on the system tape drive and loaded to disk using a special program developed by RATIONAL for that purpose. This program read each test file and placed

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it into a directory based on the test file name. Directories were organized according to chapter within test class, each class being associated with a directory containing a subdirectory for each chapter. However, some test files were loaded into special directories. One special directory contained file names that have letters where most of the ACVC tests have digits, e.g. B910ABA-B.ADA. A special second directory contained a subset of Chapter 14 tests that use both CURRENT_OUTPUT and STANDARD_OUTPUT, while a third special directory contained the tests that have side-effects on the program library during compilation, such as those that redefine package SYSTEM. The test loading process took approximately four-and-one-half hours.

Once all tests had been loaded to disk, three parallel batch streams were started. The Rational Environment includes both an interactive Ada editing facility and support for incremental change to semantically consistent units. Since the ACVC is structured only for testing batch compilers, RATIONAL constructed a batch facility that invokes components of the interactive and incremental compilation system. Tests were run using this batch facility and therefore, indirectly, the Rational Environment compilation system, but no explicit testing of these facilities was attempted. The AVF and RATIONAL have initiated discussion leading to a testing strategy to include the interactive and incremental facilities of the Rational Environment that could be used in subsequent validations of such compilation systems. Using the three batch streams, all tests had completed execution in approximately sixteen hours and forty-five minutes on a single R1000.

In the special batch environment created for testing purposes, it was necessary to change package body REPORT such that writing was done to CURRENT_OUTPUT rather than to STANDARD_OUTPUT because file STANDARD_OUTPUT is identified with a user's terminal. (Even for the specially constructed batch streams STANDARD_OUTPUT is associated with the terminal used to start the stream.) The test team verified that this was the only change to that package. Furthermore, the CZ series of tests verified correct operation of the REPORT package. However, two versions of REPORT were required because some of the CE tests check the use of STANDARD_OUTPUT and CURRENT_OUTPUT. These tests were run using the standard ACVC version of the REPORT package with the console designated as STANDARD_OUTPUT.

All applicable tests were run and tests results were saved on tape.

All inapplicable tests except for the 141 Class C tests with floating point types exceeding MAX_DIGITS were run to verify that they were correctly classified as such.

All withdrawn tests were not run.

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4.2.4 Test Analysis Procedures

On completion of testing, all results were analyzed for failed Class A, C, D, E, or L programs, and all Class B compilation results were individually analyzed. Analysis procedures are described for each test class in chapter 2.

Tests found to contain errors were withdrawn.

4.2.5 Description Of Errors In Withdrawn Tests

The following tests in Version 1.5 of the ACVC did not conform to the ANSI Ada Standard and were withdrawn for the reasons given below:

- . C38104A-B: An incomplete type with discriminants was constrained before its full declaration occurred. An implementation is allowed to reject such subtype indications because of an ambiguity in the language (see AI-00007/04).
- . C43103B-B: A non-null range had a bound that was outside the index subtype.
- . C43206A-B, C43207A-B, C43207B-B, C43214A-B: CONSTRAINT_ERROR is raised if one dimension of a multidimensional aggregate has non-null bounds that do not belong to the index subtype, even if the aggregate specifies a null array.
- . C45321*-B, C45521*-B: Incorrect values were used for values assigned to variables having a floating-point subtype.
- . C52001B-AB: An equality comparison for nonmodel numbers (e.g., $23.4 = 23.4$) has an implementation defined value.
- . C52007A-B: A comparison of INTEGER'LAST with SYSTEM.MAX_INT will raise NUMERIC_ERROR if SYSTEM.MAX_INT exceeds INTEGER'LAST, since the implicit conversion of SYSTEM.MAX_INT to INTEGER will raise NUMERIC_ERROR.
- . C52102A-AB, C52102B-AB: The result of concatenating slices of an array of characters had an upper bound that did not belong to the array's index subtype because the array was declared to have an index subtype 1..10 (or 1..9) instead of subtype INTEGER.
- . C52103X-B: A test assumed that a slice would be performed even if it raised NUMERIC_ERROR.
- . C55B15A-B: If SYSTEM.MAX_INT is greater than INTEGER'LAST, the discrete range INTEGER_range -SYSTEM.MAX_INT + 10 .. -SYSTEM.MAX_INT will raise NUMERIC_ERROR.

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- . B66001A-B: Test checks (in section G) that a parameterless function that is equivalent to an enumeration literal in the same declarative region is a redeclaration and, as such, is forbidden. According to RM 8.3(17), the explicit declaration of such a function is allowed if an enumeration literal is considered to be an implicitly declared predefined operation. The RM is not clear on this point. This issue has been referred to the Language Maintenance Committee for resolution. Since the issue cannot be resolved at this time, the test is withdrawn from Version 1.5. (Please note that this test may be considered correct and may appear in the future Versions of the ACVC, including Version 1.6.)
- . C87B10A-B: Literal values were used that were outside an integer base type for some implementations.
- . B87B23B-B: A tricky case of overload resolution marked OK was actually ambiguous.
- . C930BDA-B: An attempt to activate a task before its body is elaborated should raise `TASKING_ERROR`, not `PROGRAM_ERROR`.
- . C94004A-B: A pragma `ELABORATE` was needed to ensure the body of the `REPORT` package would be elaborated before elaborating a library unit that invoked a function declared in the package.
- . C95008A: It was possible for an entry call to call a terminated task, depending on the implementation.
- . C95009A: An unintended race condition in a tasking test allowed a null access value to be dereferenced before the access variable was assigned the access value of an allocated task.
- . CE2107C-B, CE2107D-B, CE2107E-B, CE2108A-B, CE2108C-B, CE3112A-B: If the `NAME` function is applied to a temporary file, but the implementation does not allow temporary files to have names, `USE_ERROR` is raised.
- . CE3103A-B: A test would print a failed message if `RESET` raised `USE_ERROR`.
- . CE3804E-B: A test contained a nonmodel number (1.35) for which an equality comparison was expected to always yield true.

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4.2.6 Description Of Inapplicable Tests

141 tests were not processed because SYSTEM.MAX_DIGITS is 15.
These tests were:

C24113L,M,...,Y-B	C35708L,M,...,Y-B	C45421L,M,...,Y-B
C35705L,M,...,Y-B	C35802L,M,...,Y-B	C45424L,M,...,Y-B
C35706L,M,...,Y-B	C45241L,M,...,Y-B	C45621L,M,...,Z-B
C35707L,M,...,Y-B		

Six tests were inapplicable because the implementation does not support SHORT_FLOAT or LONG_FLOAT:

SHORT_FLOAT C34001F-B, C35702A-AB, B86001CP-AB

LONG_FLOAT C34001G-B, C35702B-AB, B86001CQ-AB

Six tests were inapplicable because of test errors. Tests C34001Q, C87B26B, C920BAA, and C920BBA contain assignments of some task type STORAGE_SIZE to a variable of type STANDARD.INTEGER. Since this attribute is of type universal integer, there is no requirement that this value be less than INTEGER'LAST. Test C42005A expects a CONSTRAINT_ERROR to occur because a base type of STANDARD.INTEGER is assumed for the index subtype of the array. However, this assumption is not valid. Hence, Test C42005A is erroneous. Test C950ACB contains a race condition similar to the race condition in Test C95008A for which it was withdrawn.

Test D29002K was inapplicable because the compiler's capacity was exceeded by the large number of items in the declarative part of the test.

Test E24101A was inapplicable because it contains a value which exceeds MAX_INT that the compiler rejected at compile time.

Test D4A004B was inapplicable because the compiler does not support 64-bit universal integer calculations.

Test D56001B was inapplicable because the level of block nesting in the test exceeds the capacity of the compiler.

Test C55B16A was inapplicable because the Rational Environment does not allow specifications for non-contiguous enumeration representations.

Test C87B62B was inapplicable because the 'SIZE clause is not supported.

Test C87B26C was inapplicable because the 'SMALL clause is not supported.

Two tests were inapplicable because this implementation does not support the PRAGMA INLINE:

LA3004A-AB
LA3004B-B

Test AE2101C was inapplicable because direct I/O for unconstrained types is not supported.

Tests CE2107B, CE2110B, CE2111D, CE2401D, CE3111B, CE3111C, CE3111D, CE3111E, CE3114B, and CE3115A are all inapplicable because more than one internal file cannot be associated with the same external file.

The three tests CE2108B, CE2108D, and CE3113B were inapplicable because they access a file created by a withdrawn test CE2108A.

4.2.7 Information Derived From The Tests

Processing of the following tests indicated support as described below for a variety of implementation options examined by the tests.

- . B26005A.ADA: This test contains all the ASCII control characters in string literals. The system replaced the control characters corresponding to format effectors with a space in the listing file. A Control_D is seen by the system as an end of file and was removed after the first compilation of that file terminated finding the Control_D as an error. The control characters Control_K and Control_L had line feeds following them when read off of the tape. The line feeds were removed with the editor. All occurrences were identified with a diagnostic message by the Rational Environment.
- . E36202A-B.ADA and E36202B-B.ADA: These tests declare multidimensional null BOOLEAN arrays in which 'LENGTH of one dimension exceeds INTEGER'LAST and SYSTEM.MAX_INT, respectively. An implementation can accept this, or it can raise NUMERIC_ERROR or STORAGE_ERROR at run time. The Rational Environment accepted this for E36202A and raised NUMERIC_ERROR for E36202B.
- . D4A002A-AB.ADA, D4A002B.ADA, and D4A004A-AB.ADA: These tests contain universal integer calculations requiring 32 and 64 bits of accuracy, i.e., values that exceed SYSTEM.MAX_INT are used. An implementation is allowed to reject programs requiring such calculations. The Rational Environment passed these three tests.
- . E43211B-B.ADA: If a bound in a non-null range of a non-null aggregate does not belong to an index subtype, then all choices may or may not be evaluated before CONSTRAINT_ERROR is raised.

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The Rational Environment evaluates all choices before CONSTRAINT_ERROR is raised.

- . E43212B-B.ADA: This test examines whether or not all choices are evaluated before subaggregates are checked for identical bounds. The Rational Environment does not evaluate all subaggregates first.
- . E52103Y-B.ADA, C52104X-B.ADA, C52104Y-B.ADA: These tests declare BOOLEAN arrays with INTEGER'LAST+3 components. An implementation may raise NUMERIC_ERROR at the type declaration or STORAGE_ERROR when array objects of these types are declared, or it may accept the type and object declarations. The Rational Environment raised STORAGE_ERROR when array objects were declared in test C52104X-B. It raised NUMERIC_ERROR when the length of the dimension was calculated in C52104Y-B, but it did not raise NUMERIC_ERROR for a null array with one dimension of length greater than INTEGER'LAST in E52103Y-B.
- . A series of tests (D55A03*-AB.ADA) checks to see what level of loop nesting is allowed by an implementation. Tests containing up to 65 nested loops passed without exceeding the capacity of the implementation.
- . CA1012A4M-B.DEP: This test checks whether an implementation requires generic library unit bodies to be compiled in the same compilation as the generic declaration. The Rational Environment does allow generic declarations and bodies to be compiled in completely separate compilations.
- . BC3204C*-B.ADA and BC3205D*-B.ADA: These tests contain a separately compiled generic declaration, some instantiations, and a body. An implementation must reject either the instantiations or the body. The Rational Environment rejected the package body because of the instantiations.
- . CE2106A-B.DEP and CE3110A-B.DEP: These tests confirm that dynamic creation and deletion of files is supported.
- . EE3102C-B.ADA: This test confirmed that an Ada program can open an existing file in OUT_FILE mode, and can create an existing file in either OUT_FILE or IN_FILE mode.

CHAPTER 5

SUMMARY AND CONCLUSIONS

The Ada Validation Facility identified 1910 of the 2051 tests of the ACVC Version 1.5 as being applicable to the validation of the Rational Environment hosted on the R1000. Of these, 78 more were withdrawn due to test errors, and 35 more were determined to be inapplicable after they were processed. The compiler passed the remaining 1797 tests.

The AVF considers these results to show acceptable compliance to the January 1983 ANSI Ada Reference Manual.

APPENDIX A

COMPLETE LIST OF TESTS AND RESULTS

This Appendix gives a complete list of the ACVC test files used in the validation attempt, presented in order by ACVC Implementers' Guide (Ada Reference Manual) section and objective.

To obtain more information about a test itself, the reader may refer to the test name which indicates the class of the test and which test objective in the ACVC Implementers' Guide applies to the test. The name is interpreted as follows, where the first column below indicates the character position in the name and the second column, the meaning of that position:

- | | |
|------|---|
| 1 | Class of test (A, B, C, D, E, L). |
| 2 | Implementers' Guide chapter number (in hexadecimal). |
| 3 | Implementers' Guide section number within a chapter (in hexadecimal). |
| 4 | Implementers' Guide subsection number or letter. |
| 5, 6 | Implementers' Guide Test Objective number (two-digit decimal number). |
| 7 | Test sequence letter (A-Z). |
| 8 | Compilation sequence digit or letter (0-9, A-Z). |
| 9 | When there are several compilation units, "M" indicates the main program. |

Characters 8 and 9 are only present for tests that consist of several separately compiled units. A series of separately compiled units is counted as one test for reporting purposes. The eighth character indicates the order in which the units are to be compiled (unit 0 is compiled first). The ninth character is only present for the main program and is always "M".

The suffix -AB means the test was written prior to release of the ANSI Standard and is also valid for the version of Ada published in July 1980. The suffix -B means the test was written specifically for the ANSI Standard. Tests without a suffix have not yet had their names revised to -AB.

A file name ending with .TST means the test depends on one or more of the implementation-dependent parameters listed in section 4.1. A file name ending with .DEP means the test is not necessarily applicable

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to all implementations.

The result for each file is also given, where:

P = passed.
F = failed.
N/A = not applicable to this implementation.
W = withdrawn due to test errors.
C = compiled without error.

Indented names are separately compiled units (subtests) of the test under which they appear. A sequence of indented subtest names comprise one test for reporting purposes.

The results for each test file were as follows:

Support Units

CHECK_FILE-B	P
REPORT	P
REPORT_BODY-B	C
REPORT_SPEC-AB	C
VAR_STRINGS	P
VAR_STRINGS_SPEC	C
VAR_STRINGS_BODY	C
CZ1101A-AB.ADA	P
CZ1102A-AB.ADA	P
CZ1103A-B.ADA	P
CZ1201A-AB.ADA	P
CZ1201B-AB.ADA	P
CZ1201C-AB.ADA	P
CZ1201D-AB.ADA	P

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A21001A.ADA	P	B23002A.ADA	P	C24113C-B.DEP	P
A22002A.ADA	P	B23003D-AB.TST	P	C24113D-B.DEP	P
A26004A.TST	P	B23003E-AB.TST	P	C24113E-B.DEP	P
A29002A-B.ADA	P	B23003F-AB.TST	P	C24113F-B.DEP	P
A29002B-B.ADA	P	B23004A.ADA	P	C24113G-B.DEP	P
A29002C-B.ADA	P	B23004B.ADA	P	C24113H-B.DEP	P
A29002D-B.ADA	P	B24001A.ADA	P	C24113I-B.DEP	P
A29002E-B.ADA	P	B24001B.ADA	P	C24113J-B.DEP	P
A29002F-B.ADA	P	B24001C.ADA	P	C24113K-B.DEP	P
A29002G-B.ADA	P	B24005A.ADA	P	C24113L-B.DEP	N/A
A29002H-B.ADA	P	B24005B.ADA	P	C24113M-B.DEP	N/A
A29002I-B.ADA	P	B24104A.ADA	P	C24113N-B.DEP	N/A
A29002J-B.ADA	P	B24104B.ADA	P	C24113O-B.DEP	N/A
B22001A-AB.TST	P	B24104C.ADA	P	C24113P-B.DEP	N/A
B22001B-AB.TST	P	B26002A.ADA	P	C24113Q-B.DEP	N/A
B22001C-AB.TST	P	B26005A.ADA	P	C24113R-B.DEP	N/A
B22001D-AB.TST	P	B29001A-B.ADA	P	C24113S-B.DEP	N/A
B22001E-AB.TST	P	C23001A.ADA	P	C24113T-B.DEP	N/A
B22001F-AB.TST	P	C23003A.TST	P	C24113U-B.DEP	N/A
B22001G-AB.TST	P	C24002A.ADA	P	C24113V-B.DEP	N/A
B22001H-AB.ADA	P	C24002B.ADA	P	C24113W-B.DEP	N/A
B22001I-AB.TST	P	C24002C.ADA	P	C24113X-B.DEP	N/A
B22001J-AB.TST	P	C24003A.TST	P	C24113Y-B.DEP	N/A
B22001K-AB.TST	P	C24003B.TST	P	C26002B.ADA	P
B22001L-AB.TST	P	C24003C.TST	P	C26006A-AB.ADA	P
B22001M-AB.TST	P	C24102A.ADA	P	C26008A-AB.ADA	P
B22001N-AB.TST	P	C24102B.ADA	P	C27001A-AB.ADA	P
B22003A.ADA	P	C24102C.ADA	P	C27002A-B.ADA	P
B22004A.ADA	P	C24103A.ADA	P	D29002K-B.ADA	N/A
B22004B.ADA	P	C24113A-B.DEP	P	E24101A-B.TST	N/A
B22004C.ADA	P	C24113B-B.DEP	P		

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A32203B-B.A	P	B37004G-B.ADA	P	C34001Q-B.ADA	N/A
A32203C-B.ADA	P	B37101A.ADA	P	C34001R-B.ADA	P
A32203D-B.ADA	P	B37201A.ADA	P	C34001T-B.ADA	P
A34008B-B.ADA	P	B37202A.ADA	P	C34002A-B.ADA	P
A38106D-B.ADA	P	B37202B.ADA	P	C34002B-B.ADA	P
A38106E-B.ADA	P	B37203A.ADA	P	C35104A.ADA	P
B32103A-AB.ADA	P	B37204A-AB.ADA	P	C35504A-AB.ADA	P
B32106A-B.ADA	P	B37205A-AB.ADA	P	C35504B-B.ADA	P
B32201A-B.ADA	P	B37301A.ADA	P	C35505A.ADA	P
B32202A-B.ADA	P	B37301B.ADA	P	C35505B.ADA	P
B32202B-B.ADA	P	B37302A-AB.ADA	P	C35508A-AB.ADA	P
B32202C-B.ADA	P	B37303A.ADA	P	C35508B-B.ADA	P
B33001A.ADA	P	B37307B-AB.ADA	P	C35702A-AB.DEP	N/A
B33002A.ADA	P	B37309B-AB.ADA	P	C35702B-AB.DEP	N/A
B33003A.ADA	P	B37310B-B.ADA	P	C35703A.ADA	P
B33003B-AB.ADA	P	B37311A-AB.ADA	P	C35704A-AB.ADA	P
B33003C-AB.ADA	P	B38001A.ADA	P	C35704B-AB.ADA	P
B33004A.ADA	P	B38003A-AB.ADA	P	C35704C-AB.ADA	P
B33006A-B.ADA	P	B38008A-B.ADA	P	C35704D-AB.ADA	P
B34001S-AB.ADA	P	B38008B-AB.ADA	P	C35705A-B.DEP	P
B34008A-B.ADA	P	B38101A-B.ADA	P	C35705B-B.DEP	P
B35101A.ADA	P	B38101B-AB.ADA	P	C35705C-B.DEP	P
B35301A.ADA	P	B38103A-B.ADA	P	C35705D-B.DEP	P
B35501A.ADA	P	B38103B-B.ADA	P	C35705E-B.DEP	P
B35506A.ADA	P	B38103C-B.ADA	P	C35705F-B.DEP	P
B35506B.ADA	P	B38103C0	C	C35705G-B.DEP	P
B35701A.TST	P	B38103C1	C	C35705H-B.DEP	P
B35709A.ADA	P	B38103C2	C	C35705I-B.DEP	P
B35A03A-B.ADA	P	B38103C3M	C	C35705J-B.DEP	P
B36101A-AB.ADA	P	B38105A-AB.ADA	P	C35705K-B.DEP	P
B36102A.ADA	P	B38105B-AB.ADA	P	C35705L-B.DEP	N/A
B36103A.ADA	P	B38106A-B.ADA	P	C35705M-B.DEP	N/A
B36105A-B.ADA	P	B38106B-B.ADA	P	C35705N-B.DEP	N/A
B36171A-B.ADA	P	C32107B-B.ADA	P	C35705O-B.DEP	N/A
B36171B-B.ADA	P	C32203A-B.ADA	P	C35705P-B.DEP	N/A
B36171C-AB.ADA	P	C34001A-B.ADA	P	C35705Q-B.DEP	N/A
B36171D-AB.ADA	P	C34001B-B.ADA	P	C35705R-B.DEP	N/A
B36171E-AB.ADA	P	C34001C-B.ADA	P	C35705S-B.DEP	N/A
B36171F-AB.ADA	P	C34001D-B.DEP	P	C35705T-B.DEP	N/A
B36171G-AB.ADA	P	C34001E-B.DEP	P	C35705U-B.DEP	N/A
B36171H-AB.ADA	P	C34001F-B.DEP	N/A	C35705V-B.DEP	N/A
B36171I-AB.ADA	P	C34001G-B.DEP	N/A	C35705W-B.DEP	N/A
B36201A-B.ADA	P	C34001H-B.ADA	P	C35705X-B.DEP	N/A
B37003A-AB.ADA	P	C34001I-B.ADA	P	C35705Y-B.DEP	N/A
B37004A-B.ADA	P	C34001K-B.ADA	P	C35706A-B.DEP	P
B37004B-B.ADA	P	C34001L-B.ADA	P	C35706B-B.DEP	P
B37004C-B.ADA	P	C34001M-B.ADA	P	C35706C-B.DEP	P
B37004D-B.ADA	P	C34001N-B.ADA	P	C35706D-B.DEP	P
B37004E-B.ADA	P	C34001O-B.ADA	P	C35706E-B.DEP	P
B37004F-B.ADA	P	C34001P-B.ADA	P	C35706F-B.DEP	P

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C35706G-B.DEP	P	C35708E-B.DEP	P	C36172A-B.ADA	P
C35706H-B.DEP	P	C35708F-B.DEP	P	C36174A-B.ADA	P
C35706I-B.DEP	P	C35708G-B.DEP	P	C36204A-B.ADA	P
C35706J-B.DEP	P	C35708H-B.DEP	P	C36205A.ADA	P
C35706K-B.DEP	P	C35708I-B.DEP	P	C36205B.ADA	P
C35706L-B.DEP	N/A	C35708J-B.DEP	P	C36205C.ADA	P
C35706M-B.DEP	N/A	C35708K-B.DEP	P	C36205D.ADA	P
C35706N-B.DEP	N/A	C35708L-B.DEP	N/A	C36205E.ADA	P
C35706O-B.DEP	N/A	C35708M-B.DEP	N/A	C36205F.ADA	P
C35706P-B.DEP	N/A	C35708N-B.DEP	N/A	C36205G.ADA	P
C35706Q-B.DEP	N/A	C35708O-B.DEP	N/A	C36205H.ADA	P
C35706R-B.DEP	N/A	C35708P-B.DEP	N/A	C36205I.ADA	P
C35706S-B.DEP	N/A	C35708Q-B.DEP	N/A	C36205J.ADA	P
C35706T-B.DEP	N/A	C35708R-B.DEP	N/A	C36205K.ADA	P
C35706U-B.DEP	N/A	C35708S-B.DEP	N/A	C36301A-B.ADA	P
C35706V-B.DEP	N/A	C35708T-B.DEP	N/A	C36301B-AB.ADA	P
C35706W-B.DEP	N/A	C35708U-B.DEP	N/A	C36302A.ADA	P
C35706X-B.DEP	N/A	C35708V-B.DEP	N/A	C36303A.ADA	P
C35706Y-B.DEP	N/A	C35708W-B.DEP	N/A	C36304A-B.ADA	P
C35707A-B.DEP	P	C35708X-B.DEP	N/A	C36305A-AB.ADA	P
C35707B-B.DEP	P	C35708Y-B.DEP	N/A	C37005A.ADA	P
C35707C-B.DEP	P	C35711A-B.ADA	P	C37007A-AB.ADA	P
C35707D-B.DEP	P	C35802A-B.DEP	P	C37008A-B.ADA	P
C35707E-B.DEP	P	C35802B-B.DEP	P	C37008B-B.ADA	P
C35707F-B.DEP	P	C35802C-B.DEP	P	C37011A-B.ADA	P
C35707G-B.DEP	P	C35802D-B.DEP	P	C37012A-AB.ADA	P
C35707H-B.DEP	P	C35802E-B.DEP	P	C37013A-AB.ADA	P
C35707I-B.DEP	P	C35802F-B.DEP	P	C37103A-AB.ADA	P
C35707J-B.DEP	P	C35802G-B.DEP	P	C37105A.ADA	P
C35707K-B.DEP	P	C35802H-B.DEP	P	C37208A-B.ADA	P
C35707L-B.DEP	N/A	C35802I-B.DEP	P	C37208B-AB.ADA	P
C35707M-B.DEP	N/A	C35802J-B.DEP	P	C37209A.ADA	P
C35707N-B.DEP	N/A	C35802K-B.DEP	P	C37304A-AB.ADA	P
C35707O-B.DEP	N/A	C35802L-B.DEP	N/A	C37305A.ADA	P
C35707P-B.DEP	N/A	C35802M-B.DEP	N/A	C37306A.ADA	P
C35707Q-B.DEP	N/A	C35802N-B.DEP	N/A	C37307A-AB.ADA	P
C35707R-B.DEP	N/A	C35802O-B.DEP	N/A	C37309A-AB.ADA	P
C35707S-B.DEP	N/A	C35802P-B.DEP	N/A	C37310A-AB.ADA	P
C35707T-B.DEP	N/A	C35802Q-B.DEP	N/A	C38004A.ADA	P
C35707U-B.DEP	N/A	C35802R-B.DEP	N/A	C38005A-B.ADA	P
C35707V-B.DEP	N/A	C35802S-B.DEP	N/A	C38006A-B.ADA	P
C35707W-B.DEP	N/A	C35802T-B.DEP	N/A	C38007A-B.ADA	P
C35707X-B.DEP	N/A	C35802U-B.DEP	N/A	C38102A-AB.ADA	P
C35707Y-B.DEP	N/A	C35802V-B.DEP	N/A	C38102B-B.ADA	P
C35708A-B.DEP	P	C35802W-B.DEP	N/A	C38102C-B.ADA	P
C35708B-B.DEP	P	C35802X-B.DEP	N/A	C38104A-B.ADA	W
C35708C-B.DEP	P	C35802Y-B.DEP	N/A	E36202A-B.ADA	P
C35708D-B.DEP	P	C35904A-B.ADA	P	E36202B-B.ADA	P

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B41101A-B.A	P	B45208A-AB.ADA	P	C41303G-B.ADA	P
B41101C-AB.ADA	P	B45208B-B.ADA	P	C41303I-B.ADA	P
B41102A-AB.ADA	P	B45208C-B.ADA	P	C41303J-B.ADA	P
B41102B-B.ADA	P	B45208G-AB.ADA	P	C41303K-B.ADA	P
B41102C-B.ADA	P	B45208H-B.ADA	P	C41303M-B.ADA	P
B41201A-B.ADA	P	B45208I-B.ADA	P	C41303N-B.ADA	P
B41201C.ADA	P	B45208M-AB.ADA	P	C41303O-B.ADA	P
B41202A-B.ADA	P	B45208N-AB.ADA	P	C41303Q-B.ADA	P
B41202B-AB.ADA	P	B45208S-AB.ADA	P	C41303R-B.ADA	P
B41202C-B.ADA	P	B45208T-AB.ADA	P	C41303S-B.ADA	P
B41202D-B.ADA	P	B45261A-AB.ADA	P	C41303U-B.ADA	P
B41302A-AB.ADA	P	B45261B-AB.ADA	P	C41303V-B.ADA	P
B41302B-AB.ADA	P	B45261C-AB.ADA	P	C41303W-B.ADA	P
B42004A-B.ADA	P	B45261D-AB.ADA	P	C41304A-B.ADA	P
B43101A-B.ADA	P	B45402A.ADA	P	C41306A-B.ADA	P
B43201A-B.ADA	P	B45522A.ADA	P	C41306B-B.ADA	P
B43201B-B.ADA	P	B45533A-AB.ADA	P	C41306C-B.ADA	P
B43201C-B.ADA	P	B48001A-B.ADA	P	C42005A-B.ADA	N/A
B43201D-B.ADA	P	B48001B-B.ADA	P	C42006A-B.ADA	P
B43202A-B.ADA	P	B48001C-AB.ADA	P	C43103A-B.ADA	P
B43202B-B.ADA	P	B48001D-B.ADA	P	C43103B-B.ADA	W
B43202C-B.ADA	P	B48002A-B.ADA	P	C43107A-B.ADA	P
B43203A-B.ADA	P	B48002B-AB.ADA	P	C43205A-B.ADA	P
B43203B-B.ADA	P	B48002C-B.ADA	P	C43205B-B.ADA	P
B44001A-B.ADA	P	B48002D-B.ADA	P	C43205C-B.ADA	P
B44002A-B.ADA	P	B48002E-AB.ADA	P	C43205D-B.ADA	P
B44002B-B.ADA	P	B48002F-AB.ADA	P	C43205E-B.ADA	P
B44002C.ADA	P	B48002G-AB.ADA	P	C43205F-B.ADA	P
B45102A-AB.ADA	P	B48002I-B.ADA	P	C43205G-B.ADA	P
B45203A.ADA	P	B48002J-B.ADA	P	C43205H-B.ADA	P
B45203B-AB.ADA	P	B4A006A-B.ADA	P	C43205I-B.ADA	P
B45205A-AB.ADA	P	B4A016A.ADA	P	C43205J-B.ADA	P
B45206A-AB.ADA	P	C41101D-B.ADA	P	C43205K-B.ADA	P
B45206B-B.ADA	P	C41103A-B.ADA	P	C43206A-B.ADA	W
B45207A-AB.ADA	P	C41103B-B.ADA	P	C43207A-B.ADA	W
B45207B-B.ADA	P	C41105A-B.ADA	P	C43207B-B.ADA	W
B45207C-B.ADA	P	C41106A-B.ADA	P	C43207C-B.ADA	P
B45207D-B.ADA	P	C41107A-AB.ADA	P	C43207D-B.ADA	P
B45207G-B.ADA	P	C41201D-B.ADA	P	C43208A-B.ADA	P
B45207H-B.ADA	P	C41203A-B.ADA	P	C43208B-B.ADA	P
B45207I-B.ADA	P	C41203B-B.ADA	P	C43210A-B.ADA	P
B45207J-B.ADA	P	C41204A.ADA	P	C43211A-B.ADA	P
B45207M-AB.ADA	P	C41205A-B.ADA	P	C43212A-B.ADA	P
B45207N-AB.ADA	P	C41206A.ADA	P	C43212C-B.ADA	P
B45207O-AB.ADA	P	C41301A-B.ADA	P	C43213A-B.ADA	P
B45207P-B.ADA	P	C41303A-B.ADA	P	C43214A-B.ADA	W
B45207S-AB.ADA	P	C41303B-B.ADA	P	C43214B-B.ADA	P
B45207T-AB.ADA	P	C41303C-B.ADA	P	C43214C-B.ADA	P
B45207U-AB.ADA	P	C41303E-B.ADA	P	C43214D-B.ADA	P
B45207V-B.ADA	P	C41303F-B.ADA	P	C43214E-B.ADA	P

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C43214F-B.ADA	P	C45241Y-B.DEP	N/A	C454210-B.DEP	N/A
C43215A-B.ADA	P	C45264A-B.ADA	P	C45421P-B.DEP	N/A
C43215B-B.ADA	P	C45274A-AB.ADA	P	C45421Q-B.DEP	N/A
C45101A.ADA	P	C45274B-AB.ADA	P	C45421R-B.DEP	N/A
C45101B.ADA	P	C45274C-AB.ADA	P	C45421S-B.DEP	N/A
C45101C.ADA	P	C45303A-B.ADA	P	C45421T-B.DEP	N/A
C45101E.ADA	P	C45321A-B.DEP	W	C45421U-B.DEP	N/A
C45101G-AB.ADA	P	C45321B-B.DEP	W	C45421V-B.DEP	N/A
C45101H-AB.ADA	P	C45321C-B.DEP	W	C45421W-B.DEP	N/A
C45101I.ADA	P	C45321D-B.DEP	W	C45421X-B.DEP	N/A
C45103A-AB.ADA	P	C45321E-B.DEP	W	C45421Y-B.DEP	N/A
C45103B-AB.ADA	P	C45321F-B.DEP	W	C45424A-B.DEP	P
C45103C-AB.ADA	P	C45321G-B.DEP	W	C45424B-B.DEP	P
C45104A.ADA	P	C45321H-B.DEP	W	C45424C-B.DEP	P
C45105A-AB.ADA	P	C45321I-B.DEP	W	C45424D-B.DEP	P
C45105B-B.ADA	P	C45321J-B.DEP	W	C45424E-B.DEP	P
C45106A.ADA	P	C45321K-B.DEP	W	C45424F-B.DEP	P
C45201A.ADA	P	C45321L-B.DEP	W	C45424G-B.DEP	P
C45201B.ADA	P	C45321M-B.DEP	W	C45424H-B.DEP	P
C45202A-AB.ADA	P	C45321N-B.DEP	W	C45424I-B.DEP	P
C45210A.ADA	P	C45321O-B.DEP	W	C45424J-B.DEP	P
C45220A.ADA	P	C45321P-B.DEP	W	C45424K-B.DEP	P
C45220B.ADA	P	C45321Q-B.DEP	W	C45424L-B.DEP	N/A
C45220C.ADA	P	C45321R-B.DEP	W	C45424M-B.DEP	N/A
C45220D.ADA	P	C45321S-B.DEP	W	C45424N-B.DEP	N/A
C45220E-B.ADA	P	C45321T-B.DEP	W	C45424O-B.DEP	N/A
C45241A-B.DEP	P	C45321U-B.DEP	W	C45424P-B.DEP	N/A
C45241B-B.DEP	P	C45321V-B.DEP	W	C45424Q-B.DEP	N/A
C45241C-B.DEP	P	C45321W-B.DEP	W	C45424R-B.DEP	N/A
C45241F-B.DEP	P	C45321X-B.DEP	W	C45424S-B.DEP	N/A
C45241E-B.DEP	P	C45321Y-B.DEP	W	C45424T-B.DEP	N/A
C45241F-B.DEP	P	C45345A-AB.ADA	P	C45424U-B.DEP	N/A
C45241G-B.DEP	P	C45345B-AB.ADA	P	C45424V-B.DEP	N/A
C45241H-B.DEP	P	C45401A.ADA	P	C45424W-B.DEP	N/A
C45241I-B.DEP	P	C45401B-AB.ADA	P	C45424X-B.DEP	N/A
C45241J-B.DEP	P	C45413A-B.ADA	P	C45424Y-B.DEP	N/A
C45241K-B.DEP	P	C45421A-B.DEP	P	C45505A-B.ADA	P
C45241L-B.DEP	N/A	C45421B-B.DEP	P	C45521A-B.DEP	W
C45241M-B.DEP	N/A	C45421C-B.DEP	P	C45521B-B.DEP	W
C45241N-B.DEP	N/A	C45421D-B.DEP	P	C45521C-B.DEP	W
C45241O-B.DEP	N/A	C45421E-B.DEP	P	C45521D-B.DEP	W
C45241P-B.DEP	N/A	C45421F-B.DEP	P	C45521E-B.DEP	W
C45241Q-B.DEP	N/A	C45421G-B.DEP	P	C45521F-B.DEP	W
C45241R-B.DEP	N/A	C45421H-B.DEP	P	C45521G-B.DEP	W
C45241S-B.DEP	N/A	C45421I-B.DEP	P	C45521H-B.DEP	W
C45241T-B.DEP	N/A	C45421J-B.DEP	P	C45521I-B.DEP	W
C45241U-B.DEP	N/A	C45421K-B.DEP	P	C45521J-B.DEP	W
C45241V-B.DEP	N/A	C45421L-B.DEP	N/A	C45521K-B.DEP	W
C45241W-B.DEP	N/A	C45421M-B.DEP	N/A	C45521L-B.DEP	W
C45241X-B.DEP	N/A	C45421N-B.DEP	N/A	C45521M-B.DEP	W

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C45521N-B.DEP	W	C45621H.DEP	P	C48003C-B.ADA	P
C45521O-B.DEP	W	C45621I.DEP	P	C48003D-B.ADA	P
C45521P-B.DEP	W	C45621J.DEP	P	C48003E-B.ADA	P
C45521Q-B.DEP	W	C45621K.DEP	P	C48003F.ADA	P
C45521R-B.DEP	W	C45621L.DEP	N/A	C48003G-B.ADA	P
C45521S-B.DEP	W	C45621M.DEP	N/A	C48004A-B.ADA	P
C45521T-B.DEP	W	C45621N.DEP	N/A	C48005A-B.ADA	P
C45521U-B.DEP	W	C45621O.DEP	N/A	C48005B-B.ADA	P
C45521V-B.DEP	W	C45621P.DEP	N/A	C48005C-AB.ADA	P
C45521W-B.DEP	W	C45621Q.DEP	N/A	C48005D-AB.ADA	P
C45521X-B.DEP	W	C45621R.DEP	N/A	C4A001A.ADA	P
C45521Y-B.DEP	W	C45621S.DEP	N/A	C4A003A.ADA	P
C45521Z-B.DEP	W	C45621T.DEP	N/A	C4A010A-B.ADA	P
C45526A-B.ADA	P	C45621U.DEP	N/A	C4A011A.ADA	P
C45621A.DEP	P	C45621V.DEP	N/A	C4A013A.ADA	P
C45621B.DEP	P	C45621W.DEP	N/A	D4A002A-AB.ADA	P
C45621C.DEP	P	C45621X.DEP	N/A	D4A002B.ADA	P
C45621D.DEP	P	C45621Y.DEP	N/A	D4A004A-AB.ADA	P
C45621E.DEP	P	C45621Z.DEP	N/A	D4A004B.ADA	N/A
C45621F.DEP	P	C48003A-B.ADA	P	E43211B-B.ADA	P
C45621G.DEP	P	C48003B-B.ADA	P	E43212B-B.ADA	P

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A54B01A-B.A	P	B54A21A-B.ADA	P	B57001A-AB.ADA	P
A54B02A-B.ADA	P	B54A25A-B.ADA	P	B57001B-B.ADA	P
A55B12A-AB.ADA	P	B54A27B-AB.ADA	P	B57001C-AB.ADA	P
A55B13A-AB.ADA	P	B54A27D-AB.ADA	P	B57001D-AB.ADA	P
A55B14A-AB.ADA	P	B54B01B-B.TST	P	B58001A-AB.ADA	P
B51001A-AB.ADA	P	B54B01C-B.ADA	P	B58002A-B.ADA	P
B51003A-AB.ADA	P	B54B02B-B.ADA	P	B58002B-AB.ADA	P
B51004B-B.ADA	P	B54B02C-B.ADA	P	B58002C-AB.ADA	P
B51004C-B.ADA	P	B54B02D-B.ADA	P	B58003A-B.ADA	P
B52002A-B.ADA	P	B54B04A-AB.ADA	P	B58003B-AB.ADA	P
B52002B-AB.ADA	P	B54B04B-AB.ADA	P	B59001A-AB.ADA	P
B52002C-AB.ADA	P	B54B05A-AB.ADA	P	B59001C-AB.ADA	P
B52002D-AB.ADA	P	B55A01A-AB.ADA	P	B59001D-AB.ADA	P
B52002E-AB.ADA	P	B55A01B-AB.ADA	P	B59001E-AB.ADA	P
B52002F-B.ADA	P	B55A01C-AB.ADA	P	B59001F-AB.ADA	P
B52002G-AB.ADA	P	B55A01D-AB.ADA	P	B59001G-AB.ADA	P
B52003A-AB.ADA	P	B55A01E-AB.ADA	P	B59001H-AB.ADA	P
B52003B-AB.ADA	P	B55A01F-AB.ADA	P	B59001I-AB.ADA	P
B52003C-AB.ADA	P	B55A01G-AB.ADA	P	C51002A-AB.ADA	P
B52004A-B.ADA	P	B55A01H-AB.ADA	P	C51004A-B.ADA	P
B52004B-AB.ADA	P	B55A01I-AB.ADA	P	C52001A-B.ADA	P
B52004C-AB.ADA	P	B55A01J-AB.ADA	P	C52001B-AB.ADA	W
B52004D-AB.DEP	P	B55A01K-AB.ADA	P	C52001C-AB.ADA	P
B52004E-AB.DEP	P	B55A01L-AB.ADA	P	C52005A-AB.ADA	P
B52006A-AB.ADA	P	B55A01M-AB.ADA	P	C52005B-AB.ADA	P
B53001A-AB.ADA	P	B55A01N-AB.ADA	P	C52005C-AB.ADA	P
B53001B-AB.ADA	P	B55A01O-AB.ADA	P	C52005D-AB.ADA	P
B53002A-AB.ADA	P	B55A01P-AB.ADA	P	C52005E-AB.ADA	P
B53002B-AB.ADA	P	B55A01Q-AB.ADA	P	C52005F-AB.ADA	P
B53003A-AB.ADA	P	B55A01R-AB.ADA	P	C52007A-B.ADA	W
B53004A-AB.ADA	P	B55A01S-AB.ADA	P	C52008A-AB.ADA	P
B53009A-AB.ADA	P	B55A01T-AB.ADA	P	C52008B-B.ADA	P
B53009B-AB.ADA	P	B55A01U-AB.ADA	P	C52009A-B.ADA	P
B53009C-AB.ADA	P	B55A01V-AB.ADA	P	C52009B-B.ADA	P
B54A01A-AB.ADA	P	B55B01A-AB.ADA	P	C52010A-AB.ADA	P
B54A01B-AB.ADA	P	B55B01B-AB.ADA	P	C52011A-B.ADA	P
B54A01C-AB.ADA	P	B55B09B-AB.ADA	P	C52011B-AB.ADA	P
B54A01D-AB.ADA	P	B55B09C-AB.DEP	P	C52102A-AB.ADA	W
B54A01E-AB.ADA	P	B55B09D-AB.DEP	P	C52102B-AB.ADA	W
B54A01F-AB.ADA	P	B55B12B-B.ADA	P	C52103A-AB.ADA	P
B54A01G-AB.ADA	P	B55B12C-AB.ADA	P	C52103B-AB.ADA	P
B54A01H-AB.ADA	P	B55B14B-B.ADA	P	C52103C-AB.ADA	P
B54A01I-AB.ADA	P	B55B18A-B.ADA	P	C52103F-AB.ADA	P
B54A01J-AB.ADA	P	B56001A-AB.ADA	P	C52103G-AB.ADA	P
B54A01K-AB.ADA	P	B56001C-AB.ADA	P	C52103H-AB.ADA	P
B54A01L-AB.ADA	P	B56001D-AB.ADA	P	C52103K-AB.ADA	P
B54A05A.ADA	P	B56001E-AB.ADA	P	C52103L-AB.ADA	P
B54A05B.ADA	P	B56001F-AB.ADA	P	C52103M-AB.ADA	P
B54A08A-B.ADA	P	B56001G-AB.ADA	P	C52103P-AB.ADA	P
B54A20A.ADA	P	B56001H-AB.ADA	P	C52103Q-AB.ADA	P

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C52103R-AB.ADA	P	C54A24B.ADA	P	C57003A-AB.ADA	P
C52103S-B.ADA	P	C54A26A.ADA	P	C57004A-AB.ADA	P
C52103X-B.ADA	W	C54A27A-AB.ADA	P	C57004B-AB.ADA	P
C52104A-AB.ADA	P	C54A41A.ADA	P	C57004C-AB.ADA	P
C52104B-AB.ADA	P	C54A42A.ADA	P	C57005A-B.ADA	P
C52104C-AB.ADA	P	C54A42B.ADA	P	C58004A-AB.ADA	P
C52104F-AB.ADA	P	C54A42C.ADA	P	C58004B-AB.ADA	P
C52104G-AB.ADA	P	C54A42D.ADA	P	C58004C-AB.ADA	P
C52104H-AB.ADA	P	C54A42E.ADA	P	C58004D-B.ADA	P
C52104K-AB.ADA	P	C54A42F.ADA	P	C58004F-AB.ADA	P
C52104L-AB.ADA	P	C54A42G.ADA	P	C58004G-AB.ADA	P
C52104M-AB.ADA	P	C55B03A-AB.ADA	P	C58005A-AB.ADA	P
C52104P-AB.ADA	P	C55B04A-AB.ADA	P	C58005B-AB.ADA	P
C52104Q-AB.ADA	P	C55B05A-AB.ADA	P	C58005H-AB.ADA	P
C52104R-AB.ADA	P	C55B06A-AB.ADA	P	C58006A-AB.ADA	P
C52104X-B.ADA	P	C55B06B-AB.ADA	P	C58006B-AB.ADA	P
C52104Y-B.ADA	P	C55B07A-AB.DEP	P	C59001B-AB.ADA	P
C53004B-B.ADA	P	C55B07B-AB.DEP	P	C59002A-AB.ADA	P
C53005A-AB.ADA	P	C55B08A-B.ADA	P	C59002B-AB.ADA	P
C53005B-AB.ADA	P	C55B09A-AB.ADA	P	C59002C-B.ADA	P
C53006A-AB.ADA	P	C55B15A-B.ADA	W	D55A03A-AB.ADA	P
C53006B-AB.ADA	P	C55B16A-AB.DEP	N/A	D55A03B-AB.ADA	P
C53007A-AB.ADA	P	C55C01A-B.ADA	P	D55A03C-AB.ADA	P
C53008A-AB.ADA	P	C55C02A-AB.ADA	P	D55A03D-AB.ADA	P
C54A03A.ADA	P	C55C02B-AB.ADA	P	D55A03E-AB.ADA	P
C54A04A-AB.ADA	P	C55C03A-AB.ADA	P	D55A03F-AB.ADA	P
C54A06A-AB.ADA	P	C55C03B-AB.ADA	P	D55A03G-AB.ADA	P
C54A07A-AB.ADA	P	C55D01A-AB.ADA	P	D55A03H-AB.ADA	P
C54A22A-AB.ADA	P	C56002A-AB.ADA	P	D56001B-AB.ADA	N/A
C54A23A-B.ADA	P	C57002A-AB.ADA	P	E52103Y-B.ADA	P
C54A24A-AB.ADA	P				

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A62006D-B.A	P	B63009C3M	C	C64104F-AB.ADA	P
B61001A-AB.ADA	P	B63102A-B.ADA	P	C64104G-AB.ADA	P
B61001B-AB.ADA	P	B64001A-B.ADA	P	C64104H.ADA	P
B61001C-AB.ADA	P	B64002A.ADA	P	C64104I.ADA	P
B61001D-AB.ADA	P	B64003A.ADA	P	C64104J.ADA	P
B61001E-AB.ADA	P	B64004A.ADA	P	C64104K-AB.ADA	P
B61001F-AB.ADA	P	B64005A-AB.ADA	P	C64104L-AB.ADA	P
B61001G-AB.ADA	P	B64006A.ADA	P	C64104M-AB.ADA	P
B61001H-AB.ADA	P	B64101A-B.ADA	P	C64105A.ADA	P
B61001I-AB.ADA	P	B65001A.ADA	P	C64105B-AB.ADA	P
B61001J-AB.ADA	P	B65002A-AB.ADA	P	C64105C-AB.ADA	P
B61001K-AB.ADA	P	B65002B-AB.ADA	P	C64105D-AB.ADA	P
B61001L-AB.ADA	P	B66001A-B.ADA	W	C64106A-B.ADA	P
B61001M-AB.ADA	P	B66001C.ADA	P	C64106B-B.ADA	P
B61003A-AB.ADA	P	B67001A-B.ADA	P	C64106C-B.ADA	P
B61005A-B.ADA	P	B67001B-AB.ADA	P	C64106D-B.ADA	P
B61005B-B.ADA	P	B67004A-B.ADA	P	C64107A-B.ADA	P
B61012A-B.ADA	P	C61003B-AB.ADA	P	C64108A-B.ADA	P
B62001A.ADA	P	C61008A-B.ADA	P	C64202A-B.ADA	P
B62001B-AB.ADA	P	C61009A-B.ADA	P	C65003A-B.ADA	P
B62001C-AB.ADA	P	C61010A-AB.ADA	P	C65003B-B.ADA	P
B62001D-AB.ADA	P	C62002A-B.ADA	P	C66002A-B.ADA	P
B62006B-B.ADA	P	C62003A-B.ADA	P	C66002C.ADA	P
B62006C-B.ADA	P	C62003B-B.ADA	P	C66002D.ADA	P
B62006E-B.ADA	P	C62004A.ADA	P	C66002E-AB.ADA	P
B62006F-B.ADA	P	C62006A-B.ADA	P	C66002F.ADA	P
B63001A.ADA	P	C63004A-AB.ADA	P	C66002G-B.ADA	P
B63005A-AB.ADA	P	C64002B-B.ADA	P	C67002A.ADA	P
B63005B-AB.ADA	P	C64004B.ADA	P	C67003A-B.ADA	P
B63009A-B.ADA	P	C64007A.ADA	P	C67003B.ADA	P
B63009B-B.ADA	P	C64104A-AB.ADA	P	C67003C-AB.ADA	P
B63009C.ADA	P	C64104B-AB.ADA	P	C67003D-B.ADA	P
B63009C0	C	C64104C-AB.ADA	P	C67003E-AB.ADA	P
B63009C1	C	C64104D-AB.ADA	P	C67005A-B.ADA	P
B63009C2	C	C64104E-AB.ADA	P	C67005B-B.ADA	P

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A71002A-AB.	P	B71001Q-AB.ADA	P	B74105A-B.ADA	P
A71004A-AB.ADA	P	B71001R-AB.ADA	P	B74105C-B.ADA	P
A72001A-AB.ADA	P	B71001T-AB.ADA	P	B74201A-AB.ADA	P
A74006A-AB.ADA	P	B71001U-AB.ADA	P	B74205A-B.ADA	P
A74105B-B.ADA	P	B71001V-AB.ADA	P	B74205B-B.ADA	P
A74106A-AB.ADA	P	B71001W-AB.ADA	P	B74207A-B.ADA	P
A74106B-AB.ADA	P	B71002B-AB.ADA	P	B74301A-B.ADA	P
A74106C-AB.ADA	P	B73001A-AB.ADA	P	B74301B-B.ADA	P
A74205E-B.ADA	P	B73001B-AB.ADA	P	B74304A-B.ADA	P
A74205F-B.ADA	P	B73001C-B.ADA	P	B74304C-B.ADA	P
B71001A-AB.ADA	P	B73001D-B.ADA	P	B74401A-B.ADA	P
B71001B-AB.ADA	P	B73001E-AB.ADA	P	B74409A-B.ADA	P
B71001C-AB.ADA	P	B73001F-AB.ADA	P	C72001B-AB.ADA	P
B71001D-AB.ADA	P	B73001G-B.ADA	P	C73002A-B.ADA	P
B71001E-AB.ADA	P	B73001H-B.ADA	P	C74203B-B.ADA	P
B71001F-AB.ADA	P	B73006A-AB.ADA	P	C74206A-B.ADA	P
B71001G-AB.ADA	P	B74001A-AB.ADA	P	C74209A-AB.ADA	P
B71001H-AB.ADA	P	B74001B-AB.ADA	P	C74210A-AB.ADA	P
B71001I-AB.ADA	P	B74003A-B.ADA	P	C74211A-B.ADA	P
B71001J-AB.ADA	P	B74101A-B.ADA	P	C74211B-B.ADA	P
B71001K-AB.ADA	P	B74102B-B.ADA	P	C74302A-B.ADA	P
B71001L-AB.ADA	P	B74103A-B.ADA	P	C74305A-B.ADA	P
B71001M-AB.ADA	P	B74103B-B.ADA	P	C74305B-B.ADA	P
B71001N-AB.ADA	P	B74103C-B.ADA	P	C74402A-B.ADA	P
B71001O-AB.ADA	P	B74103D-B.ADA	P	C74409B-B.ADA	P
B71001P-AB.ADA	P	B74104A-B.ADA	P		

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A83A02A.ADA	P	B86001BK-B.ADA	P	C86002A1	C
A83A02B.ADA	P	B86001BL-B.ADA	P	C86002A2M	C
A83A06A-B.ADA	P	B86001BM-B.ADA	P	C86002B.ADA	P
A83C01C.ADA	P	B86001BO-B.ADA	P	C86002B1	C
A83C01D.ADA	P	B86001BU-B.ADA	P	C86002B2M	C
A83C01E.ADA	P	B86001BV-B.ADA	P	C86003A-B.ADA	P
A83C01F.ADA	P	B86001BW-B.ADA	P	C87A05A-B.ADA	P
A83C01G.ADA	P	B86001BX-B.ADA	P	C87A05B-B.ADA	P
A83C01H.ADA	P	B86001COM-AB.DEP	P	C87B02A-B.ADA	P
A83C01I.ADA	P	B86001CP-AB.DEP	N/A	C87B02B-B.ADA	P
A83C01J.ADA	P	B86001CQ-AB.DEP	N/A	C87B03A-B.ADA	P
A85007D-B.ADA	P	B86001CR-AB.DEP	P	C87B04A-B.ADA	P
A85013B-B.ADA	P	B86001CS-AB.DEP	P	C87B04B-B.ADA	P
B83A01A-AB.ADA	P	B86001DOM-AB.TST	P	C87B04C-B.ADA	P
B83A01B-B.ADA	P	B86001DT-AB.TST	P	C87B05A-B.ADA	P
B83A01C.ADA	P	B87B23B-B.ADA	W	C87B06A-B.ADA	P
B83A05A-AB.ADA	P	B87B48C-B.ADA	P	C87B07A-B.ADA	P
B83A06B-B.ADA	P	C83B02A.ADA	P	C87B07B-B.ADA	P
B83A06H-B.ADA	P	C83B02B.ADA	P	C87B07C-B.ADA	P
B83B01A-AB.ADA	P	C83C01B.ADA	P	C87B07D-B.ADA	P
B83B02C.ADA	P	C83E02A.ADA	P	C87B07E-B.ADA	P
B83C01A-AB.ADA	P	C83E02B.ADA	P	C87B08A-B.ADA	P
B83C02A.ADA	P	C83E03A.ADA	P	C87B09A-B.ADA	P
B83E02C-B.ADA	P	C83E04A.ADA	P	C87B09B-B.ADA	P
B83F02A.ADA	P	C83F01A.ADA	P	C87B09C-B.ADA	P
B83F02B.ADA	P	C83F01B.ADA	P	C87B10A-B.ADA	W
B83F04A-AB.ADA	P	C83F01C.ADA	P	C87B11A-B.ADA	P
B84001A-AB.ADA	P	C83F01C0	C	C87B11B-B.ADA	P
B84002B-B.ADA	P	C83F01C1	C	C87B13A-B.ADA	P
B84004A-B.ADA	P	C83F01C2M	C	C87B14A-B.ADA	P
B84006A-B.ADA	P	C83F01D.ADA	P	C87B14B-B.ADA	P
B85007B-B.ADA	P	C83F01DOM	C	C87B14C-B.ADA	P
B85007C-B.ADA	P	C83F01D1	C	C87B14D-B.ADA	P
B85012A-B.ADA	P	C83F03A.ADA	P	C87B15A-B.ADA	P
B85013C-B.ADA	P	C83F03B.ADA	P	C87B16A-B.ADA	P
B85015A-B.ADA	P	C83F03C.ADA	P	C87B17A-B.ADA	P
B86001A-AB.ADA	P	C83F03C0	C	C87B18A-B.ADA	P
B86001A0	C	C83F03C1	C	C87B18B-B.ADA	P
B86001A1M	C	C83F03C2M	C	C87B19A-B.ADA	P
B86001BOM-B.ADA	P	C83F03D.ADA	P	C87B23A-B.ADA	P
B86001BA-B.ADA	P	C83F03DOM	C	C87B24A-B.ADA	P
B86001BB-B.ADA	P	C83F03D1	C	C87B24B-B.ADA	P
B86001BC-B.ADA	P	C84002A-B.ADA	P	C87B26B-B.ADA	N/A
B86001BD-B.ADA	P	C85007A-B.ADA	P	C87B27A-B.ADA	P
B86001BE-B.ADA	P	C85007E-B.ADA	P	C87B28A-B.ADA	P
B86001BF-B.ADA	P	C85013A-B.ADA	P	C87B29A-B.ADA	P
B86001BG-B.ADA	P	C86001E-B.ADA	P	C87B30A-B.ADA	P
B86001BH-B.ADA	P	C86001F-B.DEP	P	C87B31A-B.ADA	P
B86001BI-B.ADA	P	C86002A.ADA	P	C87B32A-B.ADA	P
B86001BJ-B.ADA	P	C86002A0	C	C87B33A-B.ADA	P

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C87B34A-B.ADA	P	C87B37E-B.ADA	P	C87B45C-B.ADA	P
C87B34B-B.ADA	P	C87B37F-B.ADA	P	C87B47A-B.ADA	P
C87B34C-B.ADA	P	C87B38A-B.ADA	P	C87B48A-B.ADA	P
C87B35A-B.ADA	P	C87B39A-B.ADA	P	C87B48B-B.ADA	P
C87B35B-B.ADA	P	C87B40A-B.ADA	P	C87B54A-B.ADA	P
C87B35C-B.ADA	P	C87B41A-B.ADA	P	C87B57A-B.ADA	P
C87B37A-B.ADA	P	C87B42A-B.ADA	P	C87B62A-B.DEF	P
C87B37B-B.ADA	P	C87B43A-B.ADA	P	C87B62B-B.DEF	N/A
C87B37C-B.ADA	P	C87B44A-B.ADA	P	C87B62C-B.DEF	N/A
C87B37D-B.ADA	P	C87B45A-B.ADA	P		

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A91002M-B.A	P	B950ADA-B.ADA	P	C910BAC-B.ADA	P
A95005A.ADA	P	B950AFA-B.ADA	P	C910BAD-B.ADA	P
A97106A-AB.ADA	P	B950AHA-B.ADA	P	C910BDA-B.ADA	P
B91001A-AB.ADA	P	B950AJA-B.ADA	P	C910BDB-B.ADA	P
B91001B-AB.ADA	P	B950BAA-B.ADA	P	C910BDC-B.ADA	P
B91001C-AB.ADA	P	B950DHA-B.ADA	P	C92002A.ADA	P
B91001D-AB.ADA	P	B97101A-AB.ADA	P	C92003A.ADA	P
B91001E-AB.ADA	P	B97101B-AB.ADA	P	C920AJA-B.ADA	P
B91001F-AB.ADA	P	B97101C-AB.ADA	P	C920BAA-B.ADA	N/A
B91001G-B.ADA	P	B97101D-AB.ADA	P	C920BBA-B.ADA	N/A
B91002A-B.ADA	P	B97101E-AB.ADA	P	C920BIA-B.ADA	P
B91002B-B.ADA	P	B97102A-AB.ADA	P	C93001A-B.ADA	P
B91002C-B.ADA	P	B97102B-AB.ADA	P	C93002A-B.ADA	P
B91002D-B.ADA	P	B97102C-AB.ADA	P	C93003A-B.ADA	P
B91002E-B.ADA	P	B97102D-AB.ADA	P	C93005A-B.ADA	P
B91002F-B.ADA	P	B97102E-AB.ADA	P	C93005B-B.ADA	P
B91002G-B.ADA	P	B97102F-AB.ADA	P	C93005C-B.ADA	P
B91002H-B.ADA	P	B97102G-AB.ADA	P	C93006A-AB.ADA	P
B91002I-B.ADA	P	B97102H-AB.ADA	P	C930ABA-B.ADA	P
B91002J-B.ADA	P	B97102I-AB.ADA	P	C930AEA-B.ADA	P
B91002K-B.ADA	P	B97103A-AB.ADA	P	C930AFA-B.ADA	P
B91002L-B.ADA	P	B97103B-AB.ADA	P	C930AJA-B.ADA	P
B91003A-AB.ADA	P	B97103D-AB.ADA	P	C930BAA-B.ADA	P
B91004A-B.ADA	P	B97103E-AB.ADA	P	C930BDA-B.ADA	W
B910ABA-B.ADA	P	B97104A-AB.ADA	P	C94001A-B.ADA	P
B910ACA-B.ADA	P	B97104B-AB.ADA	P	C94002A-B.ADA	P
B910AEA-B.ADA	P	B97104C-AB.ADA	P	C94002B-B.ADA	P
B910BCA-B.ADA	P	B97104D-AB.ADA	P	C94003A-B.ADA	P
B920ACA-B.ADA	P	B97104E-AB.ADA	P	C94004A-B.ADA	W
B920BDA-B.ADA	P	B97104F-AB.ADA	P	C94005A-B.ADA	P
B920BJA-B.ADA	P	B97104G-AB.ADA	P	C94005B-B.ADA	P
B95001A.ADA	P	B97107A-AB.ADA	P	C94006A-B.ADA	P
B95001B-AB.ADA	P	B97108A-AB.ADA	P	C940Q7A-B.ADA	P
B95002A.ADA	P	B97108B-AB.ADA	P	C94007B-B.ADA	P
B95004A-AB.ADA	P	B97109A-AB.ADA	P	C94020A-B.ADA	P
B95004B-AB.ADA	P	B97110A-AB.ADA	P	C94021A-B.ADA	P
B95006A.ADA	P	B97110B-AB.ADA	P	C940ABA-B.ADA	P
B95006B-AB.ADA	P	B97111A-AB.ADA	P	C940ACA-B.ADA	P
B95006C-AB.ADA	P	B99001A-AB.ADA	P	C940ACB-B.ADA	P
B95006D-AB.ADA	P	B99001B-B.ADA	P	C940ADA-B.ADA	P
B95007A-AB.ADA	P	B99002A-B.ADA	P	C940AGA-B.ADA	P
B95007B-AB.ADA	P	B99002B-B.ADA	P	C940AGB-B.ADA	P
B95020A-B.ADA	P	B99002C-B.ADA	P	C940AHA-B.ADA	P
B95020B-B.ADA	P	B99003A-AB.ADA	P	C940AIA-B.ADA	P
B95020B0	C	B9A001A-AB.ADA	P	C940BAA-B.ADA	P
B95020B1	C	B9A001B-AB.ADA	P	C940BBA-B.ADA	P
B95020B2M	C	C900ACA-B.ADA	P	C95008A.ADA	W
B950ABA-B.ADA	P	C910AHA-B.ADA	P	C95009A.ADA	W
B950ABB-B.ADA	P	C910BAA-B.ADA	P	C95009B.ADA	P
B950ACA-B.ADA	P	C910BAB-B.ADA	P	C95010A.ADA	P

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C95011A.ADA	P	C950DGA-B.ADA	P	C97303B-AB.ADA	P
C95012A-B.ADA	P	C97113A-B.ADA	P	C97304A-B.ADA	P
C95013A-B.ADA	P	C97114A-B.ADA	P	C9A003A-B.ADA	P
C95021A-B.ADA	P	C97115A-B.ADA	P	C9A004A-B.ADA	P
C95022A-B.ADA	P	C97201A-AB.ADA	P	C9A005A-B.ADA	P
C95022B-B.ADA	P	C97201D-AB.ADA	P	C9A006A-B.ADA	P
C950ACB-B.ADA	N/A	C97201E-AB.ADA	P	C9A007A-B.ADA	P
C950BGA-B.ADA	P	C97201G-AB.ADA	P	C9A009A-B.ADA	P
C950BHA-B.ADA	P	C97201H-AB.ADA	P	C9A009B-B.ADA	P
C950BJA-B.ADA	P	C97201X-AB.ADA	P	C9A009C-B.ADA	P
C950CAA-B.ADA	P	C97202A-AB.ADA	P	C9A009D-B.ADA	P
C950CBA-B.ADA	P	C97203A-AB.ADA	P	C9A009E-B.ADA	P
C950CHA-B.ADA	P	C97203B-AB.ADA	P	C9A009F-B.ADA	P
C950CHC-B.ADA	P	C97204A-B.ADA	P	C9A009G-B.ADA	P
C950DEA-B.ADA	P	C97303A-AB.ADA	P	C9A009H-B.ADA	P
C950DEB-B.ADA	P				

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BA1020B-B.A	P	BA3001C-AB.ADA	P	CA1012B4M	C
BA1020B0	C	BA3001COM	C	CA1013A.ADA	P
BA1020B1	C	BA3001C1	C	CA1013A0	C
BA1020B2	C	BA3001D-AB.ADA	P	CA1013A1	C
BA1020B3	C	BA3001DOM	C	CA1013A2	C
BA1020B4	C	BA3001D1	C	CA1013A3	C
BA1020B5	C	BA3001E-AB.ADA	P	CA1013A4	C
BA1020B6M	C	BA3001EOM	C	CA1013A5	C
BA1101A-AB.ADA	P	BA3001E1	C	CA1013A6M	C
BA1101B.ADA	P	BA3001E2	C	CA1014A-AB.ADA	P
BA1101BOM	C	BA3001E3	C	CA1014AOM	C
BA1101B1	C	BA3001F-AB.ADA	P	CA1014A1	C
BA1101B2	C	BA3001FOM	C	CA1014A2	C
BA1101B3	C	BA3001F1	C	CA1014A3	C
BA1101B4	C	BA3001F2	C	CA1016A.ADA	P
BA1101C.ADA	P	BA3001F3	C	CA1016A0	C
BA1101C0	C	CA1002A-B.ADA	P	CA1016A1	C
BA1101C1M	C	CA1002A0	C	CA1016A2M	C
BA1101D.ADA	P	CA1002A1	C	CA1020A-B.ADA	P
BA1101E.ADA	P	CA1002A2	C	CA1020A0	C
BA1101H-B.ADA	P	CA1002A3M	C	CA1020A1	C
BA1101H0	C	CA1002A4	C	CA1020A2	C
BA1101H1M	C	CA1002A5	C	CA1020A3	C
BA2001A-AB.ADA	P	CA1002A6	C	CA1020A4	C
BA2001B.ADA	P	CA1002A7	C	CA1020A5	C
BA2001C.ADA	P	CA1002A8	C	CA1020A6	C
BA2001D.ADA	P	CA1002A9	C	CA1020A7	C
BA2001E.ADA	P	CA1003A-AB.ADA	P	CA1020A8M	C
BA2001F.ADA	P	CA1003B-AB.ADA	P	CA1105A.ADA	P
BA2001FOM	C	CA1004A.ADA	P	CA1105A0	C
BA2001F1	C	CA1005A.ADA	P	CA1105A1M	C
BA2001F2	C	CA1006A-AB.ADA	P	CA1105B.ADA	P
BA2001G.ADA	P	CA1008A.ADA	P	CA1105B0	C
BA2001GOM	C	CA1008A0	C	CA1105B1	C
BA2001G1	C	CA1008A1M	C	CA1105B2	C
BA2002A.ADA	P	CA1009A.ADA	P	CA1105B3M	C
BA2002AOM	C	CA1009A0	C	CA1105B4	C
BA2002A1	C	CA1009A1	C	CA1105B5	C
BA2002A2	C	CA1009A2	C	CA1107A.ADA	P
BA2003B.ADA	P	CA1009A3	C	CA1107A0	C
BA2003BOM	C	CA1009A4M	C	CA1107A1M	C
BA2003B1	C	CA1012A.DEP	P	CA1107A2	C
BA3001A-AB.ADA	P	CA1012A0	C	CA2001H.ADA	P
BA3001AOM	C	CA1012A1	C	CA2001H0	C
BA3001A1	C	CA1012A2	C	CA2001H1	C
BA3001A2	C	CA1012A3	C	CA2001H2	C
BA3001A3	C	CA1012A4M	C	CA2001H3M	C
BA3001B.ADA	P	CA1012B-B.ADA	P	CA2003A.ADA	P
BA3001BOM	C	CA1012B0	C	CA2003AOM	C
BA3001B1	C	CA1012B2	C	CA2003A1	C

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CA2004A.ADA	P	CA5003A2	C	LA3007A2	C
CA2004AOM	C	CA5003A3	C	LA3007A3-AB	C
CA2004A1	C	CA5003A4	C	LA3007A4M	C
CA2004A2	C	CA5003A5	C	LA3007B.ADA	P
CA2007A-AB.ADA	P	CA5003A6M	C	LA3007B0	C
CA2007AOM	C	LA3004A-AB.ADA	N/A	LA3007B1	C
CA2007A1	C	LA3004A0-AB	N/A	LA3007B2	C
CA2007A2	C	LA3004A1-AB	N/A	LA3007B3	C
CA2007A3	C	LA3004A2-AB	N/A	LA3007B4	C
CA2008A-B.ADA	P	LA3004A3-AB	N/A	LA3007B5	C
CA2008AOM	C	LA3004A4-AB	N/A	LA3007B6	C
CA2008A1	C	LA3004A5-AB	N/A	LA3007B7	C
CA2008A2	C	LA3004A6M	N/A	LA3007B8M	C
CA3002A-B.ADA	P	LA3004B-B.ADA	N/A	LA3008A-AB.ADA	P
CA3002A0	C	LA3004B0-B	N/A	LA3008A0	C
CA3002A1	C	LA3004B1-B	N/A	LA3008A1	C
CA3002A2M	C	LA3004B2-B	N/A	LA3008A2	C
CA3002A3	C	LA3004B3-B	N/A	LA3008A3	C
CA3006C-B.ADA	P	LA3004B4-B	N/A	LA3008A4	C
CA3006C0	C	LA3004B5-B	N/A	LA3008A5M	C
CA3006C1	C	LA3004B6M	N/A	LA3008B.ADA	P
CA3006C2	C	LA3006A-AB.ADA	P	LA3008B0	C
CA3006C3	C	LA3006A0	C	LA3008B1	C
CA3006C4	C	LA3006A1	C	LA3008B2	C
CA3006C5M	C	LA3006A2	C	LA3008B3	C
CA5002A-B.ADA	P	LA3006A3	C	LA3008B4	C
CA5002B-B.ADA	P	LA3006A4	C	LA3008B5	C
CA5002B0	C	LA3006A5	C	LA3008B6M	C
CA5002B1	C	LA3006A6M	C	LA5001A-B.ADA	P
CA5002B2	C	LA3006B-AB.ADA	P	LA5001A0	C
CA5002B3	C	LA3006B0	C	LA5001A1	C
CA5002B4	C	LA3006B1	C	LA5001A2	C
CA5002B5	C	LA3006B2	C	LA5001A3	C
CA5002B6	C	LA3006B3-AB	C	LA5001A4	C
CA5002B7M	C	LA3006B4M	C	LA5001A5	C
CA5003A-B.ADA	P	LA3007A-AB.ADA	P	LA5001A6	C
CA5003A0	C	LA3007A0	C	LA5001A7M	C
CA5003A1	C	LA3007A1	C		

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BB2001A-AB.	P	CB1003A-AB.ADA	P	CB4002A-AB.ADA	P
BB2002A-AB.ADA	P	CB1004A-AB.ADA	P	CB4003A-AB.ADA	P
BB2003A-AB.ADA	P	CB2004A-B.ADA	P	CB4004A-B.ADA	P
BB2003B-AB.ADA	P	CB2005A-B.ADA	P	CB4005A-AB.ADA	P
BB2003C-AB.ADA	P	CB2006A-AB.ADA	P	CB4006A-B.ADA	P
BB3001A-B.ADA	P	CB2007A-AB.ADA	P	CB4008A-AB.ADA	P
BB3002A-AB.ADA	P	CB3003A-B.ADA	P	CB4009A-AB.ADA	P
BB3005A-AB.ADA	P	CB3004A-AB.ADA	P	CB5001A-B.ADA	P
CB1001A-B.ADA	P	CB4001A-AB.ADA	P	CB5001B-B.ADA	P
CB1002A-B.ADA	P				

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BC1001A-B.A	P	BC2001B-AB.ADA	P	BC3205D1M	C
BC1002A-B.ADA	P	BC2001C-AB.ADA	P	BC3205D2	C
BC1008A-AB.ADA	P	BC20ABA-B.ADA	P	BC3205E-B.ADA	P
BC1008B-AB.ADA	P	BC3002A-AB.ADA	P	BC3205F-B.ADA	P
BC1008C-AB.ADA	P	BC3002B-AB.ADA	P	BC32ABA-B.ADA	P
BC1009A-AB.ADA	P	BC3002C-AB.ADA	P	BC32ADA-B.ADA	P
BC1011A-AB.ADA	P	BC3002D-AB.ADA	P	BC3301A-AB.ADA	P
BC1011B-AB.ADA	P	BC3002E-AB.ADA	P	BC3301B-AB.ADA	P
BC1012A-AB.ADA	P	BC3003A-AB.ADA	P	BC3302A-AB.ADA	P
BC1013A-B.ADA	P	BC3003B-AB.ADA	P	BC3302B-AB.ADA	P
BC10ABA-B.ADA	P	BC3005A-AB.ADA	P	BC3303A-AB.ADA	P
BC10ABB-B.ADA	P	BC3006A-AB.ADA	P	BC3304A-AB.ADA	P
BC10ACA-B.ADA	P	BC3009A-B.ADA	P	BC33ABA-B.ADA	P
BC10ADA-B.ADA	P	BC3009B-B.ADA	P	BC33ACA-B.ADA	P
BC10AEA-B.ADA	P	BC3009C-B.ADA	P	BC33ADA-B.ADA	P
BC10AEB-B.ADA	P	BC3011B-B.ADA	P	BC33AEA-B.ADA	P
BC10AEC-B.ADA	P	BC3011C-AB.ADA	P	BC3401A-AB.ADA	P
BC10AED-B.ADA	P	BC3013A-AB.ADA	P	BC3401B-AB.ADA	P
BC10AFA-B.ADA	P	BC3018A-B.ADA	P	BC3402A-AB.ADA	P
BC10AGA-B.ADA	P	BC30ABA-B.ADA	P	BC3402B-AB.ADA	P
BC1101A-AB.ADA	P	BC30ACA-B.ADA	P	BC3403A-AB.ADA	P
BC1102A-B.ADA	P	BC3101A-B.ADA	P	BC3403B-AB.ADA	P
BC1103A-B.ADA	P	BC3101B-B.ADA	P	BC3403C-AB.ADA	P
BC1104A-B.ADA	P	BC3102A-B.ADA	P	BC3404A-AB.ADA	P
BC1104B-B.ADA	P	BC3102B-B.ADA	P	BC3404B-B.ADA	P
BC1106A-AB.ADA	P	BC3103A-AB.ADA	P	BC3404C-AB.ADA	P
BC1107A-B.ADA	P	BC3103B-AB.ADA	P	BC3404D-AB.ADA	P
BC11ABA-B.ADA	P	BC31ABA-B.ADA	P	BC3404E-AB.ADA	P
BC11ACA-B.ADA	P	BC31ACA-B.ADA	P	BC3404F-AB.ADA	P
BC1201A-AB.ADA	P	BC31ADA-B.ADA	P	BC3405A-AB.ADA	P
BC1201B-AB.ADA	P	BC3201A-B.ADA	P	BC3405B-B.ADA	P
BC1201C-AB.ADA	P	BC3201B-AB.ADA	P	BC3405D-AB.ADA	P
BC1201D-AB.ADA	P	BC3201C-B.ADA	P	BC3405E-AB.ADA	P
BC1202A-AB.ADA	P	BC3202A-B.ADA	P	BC3405F-AB.ADA	P
BC1202B-AB.ADA	P	BC3202B-B.ADA	P	BC3501A-AB.ADA	P
BC1202C-AB.ADA	P	BC3202C-B.ADA	P	BC3501B-AB.ADA	P
BC1202D-AB.ADA	P	BC3203B-B.ADA	P	BC3501C-AB.ADA	P
BC1203A-AB.ADA	P	BC3204A-B.ADA	P	BC3501D-AB.ADA	P
BC1207A-B.ADA	P	BC3204B-B.ADA	P	BC3501E-AB.ADA	P
BC1226A-B.ADA	P	BC3204C-B.ADA	P	BC3501F-AB.ADA	P
BC12ABA-B.ADA	P	BC3204C0	C	BC3501G-AB.ADA	P
BC12ACA-B.ADA	P	BC3204C1M	C	BC3501H-AB.ADA	P
BC12ACB-B.ADA	P	BC3204C2	C	BC3501I-AB.ADA	P
BC1303A-AB.ADA	P	BC3204D-B.ADA	P	BC3501J-AB.ADA	P
BC1303B-AB.ADA	P	BC3204E-B.ADA	P	BC3501K-AB.ADA	P
BC1303C-AB.ADA	P	BC3205A-B.ADA	P	BC3502A-AB.ADA	P
BC1303D-AB.ADA	P	BC3205B-B.ADA	P	BC3502B-AB.ADA	P
BC1303E-AB.ADA	P	BC3205C-B.ADA	P	BC3502C-AB.ADA	P
BC1306A-B.ADA	P	BC3205D-B.ADA	P	BC3502D-AB.ADA	P
BC13ABA-B.ADA	P	BC3205D0	C	BC3502E-AB.ADA	P

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Chapter 12 (Continued)

BC3502F-AB.ADA	P	CC1307A-AB.ADA	P	CC3407A-AB.ADA	P
BC3502G-AB.ADA	P	CC1308A-AB.ADA	P	CC3407B-AB.ADA	P
BC3502H-AB.ADA	P	CC1310A-AB.ADA	P	CC3407C-AB.ADA	P
BC3502I-AB.ADA	P	CC2002A-AB.ADA	P	CC3407D-AB.ADA	P
BC3502J-AB.ADA	P	CC3004A-B.ADA	P	CC3407E-AB.ADA	P
BC3502K-AB.ADA	P	CC3007A-AB.ADA	P	CC3407F-AB.ADA	P
BC3502L-AB.ADA	P	CC3011A-B.ADA	P	CC3408A-AB.ADA	P
BC3502M-AB.ADA	P	CC3011D-B.ADA	P	CC3408B-AB.ADA	P
BC3502N-AB.ADA	P	CC3012A-AB.ADA	P	CC3408C-AB.ADA	P
BC3502O-AB.ADA	P	CC3120A-AB.ADA	P	CC3408D-B.ADA	P
BC3503A-B.ADA	P	CC3120B-B.ADA	P	CC3504A-B.ADA	P
BC3503B-B.ADA	P	CC3125A-B.ADA	P	CC3504B-B.ADA	P
BC3503C-B.ADA	P	CC3203A-B.ADA	P	CC3504C-B.ADA	P
BC3503D-B.ADA	P	CC3208A-AB.ADA	P	CC3504D-B.ADA	P
BC3503F-B.ADA	P	CC3208B-AB.ADA	P	CC3504E-B.ADA	P
CC1004A-AB.ADA	P	CC3305A-AB.ADA	P	CC3504F-B.ADA	P
CC1010A-AB.ADA	P	CC3305B-AB.ADA	P	CC3504G-B.ADA	P
CC1010B-AB.ADA	P	CC3305C-AB.ADA	P	CC3504H-B.ADA	P
CC1220A-B.ADA	P	CC3305D-AB.ADA	P	CC3504I-B.ADA	P
CC1301A-B.ADA	P	CC3406A-AB.ADA	P	CC3504J-B.ADA	P
CC1302A-AB.ADA	P	CC3406B-AB.ADA	P	CC3504K-B.ADA	P
CC1304A-AB.ADA	P	CC3406C-AB.ADA	P	CC3601C-AB.ADA	P
CC1305B-AB.ADA	P	CC3406D-B.ADA	P	CC3602A-AB.ADA	P

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Chapter 14

AE2101A-B.A	P	CE2110A-B.ADA	P	CE3114A-B.ADA	P
AE2101B-B.ADA	P	CE2110B-B.ADA	N/A	CE3114B-B.ADA	N/A
AE2101C-B.DEP	N/A	CE2111A-B.ADA	P	CE3115A-B.ADA	N/A
AE2101D-B.ADA	P	CE2111B-B.ADA	P	CE3201A-B.ADA	P
AE3101A-B.ADA	P	CE2111C-B.ADA	P	CE3202A-B.ADA	P
AE3702A-B.ADA	P	CE2111D-B.ADA	N/A	CE3203A-B.ADA	P
AE3709A-B.ADA	P	CE2201A-B.ADA	P	CE3206A-B.ADA	P
BE2101E-B.ADA	P	CE2201B-B.ADA	P	CE3208A-B.ADA	P
BE2112A-B.ADA	P	CE2201C-B.ADA	P	CE3301A-B.ADA	P
BE2112B-B.ADA	P	CE2201D-B.DEP	P	CE3301B-B.ADA	P
BE2112C-B.ADA	P	CE2201E-B.DEP	P	CE3301C-B.ADA	P
BE2114A-B.ADA	P	CE2201F-B.ADA	P	CE3302A-B.ADA	P
BE2208A-B.ADA	P	CE2202A-B.ADA	P	CE3303A-B.ADA	P
BE3001A-B.ADA	P	CE2204A-B.ADA	P	CE3305A-B.ADA	P
BE3002A-B.ADA	P	CE2204B-B.ADA	P	CE3402A-B.ADA	P
BE3002E-B.ADA	P	CE2210A-B.ADA	P	CE3402B-B.ADA	P
BE3105A-B.ADA	P	CE2401A-B.ADA	P	CE3402C-B.ADA	P
BE3205A-B.ADA	P	CE2401B-B.ADA	P	CE3402D-B.ADA	P
BE3501A-B.ADA	P	CE2401C-B.ADA	P	CE3402E-B.ADA	P
BE3606C-B.ADA	P	CE2401D-B.DEP	N/A	CE3403A-B.ADA	P
BE3703A-B.ADA	P	CE2401E-B.ADA	P	CE3403B-B.ADA	P
BE3802A-B.ADA	P	CE2401F-B.ADA	P	CE3403C-B.ADA	P
BE3803A-B.ADA	P	CE2402A-B.ADA	P	CE3403D-B.ADA	P
BE3902A-B.ADA	P	CE2404A-B.ADA	P	CE3403E-B.ADA	P
BE3903A-B.ADA	P	CE2405B-B.ADA	P	CE3403F-B.ADA	P
CE2102A-B.ADA	P	CE2406A-B.ADA	P	CE3404A-B.ADA	P
CE2102B-B.ADA	P	CE2407A-B.ADA	P	CE3404B-B.ADA	P
CE2102C-B.ADA	P	CE2408A-B.ADA	P	CE3404C-B.ADA	P
CE2102D-B.ADA	P	CE2409A-B.ADA	P	CE3405A-B.ADA	P
CE2102E-B.ADA	P	CE2410A-B.ADA	P	CE3405B-B.ADA	P
CE2102F-B.ADA	P	CE3002B-B.TST	P	CE3405C-B.ADA	P
CE2102G-B.ADA	P	CE3002C-B.TST	P	CE3405D-B.ADA	P
CE2103A-B.TST	P	CE3002D-B.ADA	P	CE3406A-B.ADA	P
CE2103B-B.TST	P	CE3002F-B.ADA	P	CE3406B-B.ADA	P
CE2104A-B.ADA	P	CE3102A-B.ADA	P	CE3406C-B.ADA	P
CE2104B-B.ADA	P	CE3102B-B.TST	P	CE3406D-B.ADA	P
CE2105A-B.ADA	P	CE3103A-B.ADA	W	CE3407A-B.ADA	P
CE2106A-B.ADA	P	CE3104A-B.ADA	P	CE3407B-B.ADA	P
CE2107A-B.ADA	P	CE3107A-B.TST	P	CE3407C-B.ADA	P
CE2107B-B.ADA	N/A	CE3108A-B.ADA	P	CE3408A-B.ADA	P
CE2107C-B.ADA	W	CE3108B-B.ADA	P	CE3408B-B.ADA	P
CE2107D-B.ADA	W	CE3109A-B.ADA	P	CE3408C-B.ADA	P
CE2107E-B.ADA	W	CE3110A-B.ADA	P	CE3409A-B.ADA	P
CE2108A-B.ADA	W	CE3111A-B.ADA	P	CE3409B-B.ADA	P
CE2108B-B.ADA	N/A	CE3111B-B.ADA	N/A	CE3409C-B.ADA	P
CE2108C-B.ADA	W	CE3111C-B.ADA	N/A	CE3409D-B.ADA	P
CE2108D-B.ADA	N/A	CE3111D-B.ADA	N/A	CE3409E-B.ADA	P
CE2108E-B.ADA	P	CE3111E-B.ADA	N/A	CE3409F-B.ADA	P
CE2108F-B.ADA	P	CE3112A-B.ADA	W	CE3410A-B.ADA	P
CE2109A-B.ADA	P	CE3112B-B.ADA	N/A	CE3410B-B.ADA	P

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CE3410C-B.ADA	P	CE3704A-B.ADA	P	CE3804M-B.ADA	P
CE3410D-B.ADA	P	CE3704B-B.ADA	P	CE3805A-B.ADA	P
CE3410E-B.ADA	P	CE3704C-B.ADA	P	CE3805B-B.ADA	P
CE3410F-B.ADA	P	CE3704D-B.ADA	P	CE3806A-B.ADA	P
CE3411A-B.ADA	P	CE3704E-B.ADA	P	CE3806C-B.ADA	P
CE3411C-B.ADA	P	CE3704F-B.ADA	P	CE3806D-B.ADA	P
CE3412A-B.ADA	P	CE3704M-B.ADA	P	CE3806E-B.ADA	P
CE3412C-B.ADA	P	CE3704O-B.ADA	P	CE3809A-B.ADA	P
CE3413A-B.ADA	P	CE3706C-B.ADA	P	CE3809B-B.ADA	P
CE3413C-B.ADA	P	CE3706D-B.ADA	P	CE3810A-B.ADA	P
CE3601A-B.ADA	P	CE3706F-B.ADA	P	CE3901A-B.ADA	P
CE3602A-B.ADA	P	CE3706G-B.ADA	P	CE3905A-B.ADA	P
CE3602B-B.ADA	P	CE3707A-B.ADA	P	CE3905B-B.ADA	P
CE3602C-B.ADA	P	CE3708A-B.ADA	P	CE3905C-B.ADA	P
CE3602D-B.ADA	P	CE3801A-B.ADA	P	CE3905L-B.ADA	P
CE3603A-B.ADA	P	CE3804A-B.ADA	P	CE3906A-B.ADA	P
CE3604A-B.ADA	P	CE3804B-B.ADA	P	CE3906B-B.ADA	P
CE3605A-B.ADA	P	CE3804C-B.ADA	P	CE3906C-B.ADA	P
CE3605B-B.ADA	P	CE3804D-B.ADA	P	CE3906D-B.ADA	P
CE3605C-B.ADA	P	CE3804E-B.ADA	W	CE3906E-B.ADA	P
CE3605D-B.ADA	P	CE3804F-B.ADA	P	CE3906F-B.ADA	P
CE3605E-B.ADA	P	CE3804G-B.ADA	P	CE3907A-B.ADA	P
CE3606A-B.ADA	P	CE3804I-B.ADA	P	CE3908A-B.ADA	P
CE3606B-B.ADA	P	CE3804K-B.ADA	P	EE3102C-B.ADA	P
CE3701A-B.ADA	P				

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