Appendix C
Output of CZ Tests

The "CZ" tests are executed before any other ACVC tests to ensure that the ImpDef packages have been properly customized and that certain support units are working properly. These tests are not considered as Passed or Failed. If they do not perform as expected, the problems must be identified and resolved before conformity testing can continue.

This Appendix presents sample results from executing the "CZ" tests. The actual output will differ, at least in the time-stamp information.

C.1. Sample Output From CZ0004

The following is the output from an execution of CZ0004 with a specific implementation. Note that it contains failure messages (indicated by '*') that are expected, as is the final FAILED report. Note also that certain report lines depend on the customization of the ImpDef package, and will vary with the implementation.

```
,.,. CZ00004 ACVC 2.2 98-08-26 14:46:13
---- CZ00004 Check that Impdef values have been supplied for the special
                needs annexes.  Check that the routines in TCTouch work
                correctly.
   - CZ00004 TCTouch ACVC 2.1.
   * CZ00004 Assertion failed: Assertion Failed is expected.
   * CZ00004 Assertion failed: Assertion Failed is expected.
   * CZ00004 z should not equal Z Expecting: z Got: Z.
   - CZ00004 Three failure messages should have occurred so far.
   * CZ00004 Trace Overflow:
                xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx
                xxxxxxxxxxxxxxxxxxxxxxxx.
   - CZ00004 A Trace Overflow message should have just occurred.
   - CZ00004 <><><><><> ANNEX VALIDATION STATUS <><><><><>.
   + CZ00004 Annex C validation: Annex C not supported.
   + CZ00004 Annex D validation: Annex D not supported.
   + CZ00004 Annex E validation: Annex E not supported.
   + CZ00004 Annex F validation: Annex F not supported.
   + CZ00004 Annex G validation: Annex G not supported.
   + CZ00004 Annex H validation: Annex H not supported.
   - CZ00004 <><><><><> IMPDEF <><><><><>.
   - CZ00004 Validating_Annex_C : FALSE.
   - CZ00004 Validating_Annex_D : FALSE.
   - CZ00004 Validating_Annex_E : FALSE.
   - CZ00004 Validating_Annex_F : FALSE.
   - CZ00004 Validating_Annex_G : FALSE.
   - CZ00004 Validating_Annex_H : FALSE.
   - CZ00004 Minimum_Task_Switch:          0.100000000
   - CZ00004 Switch_To_New_Task:          1.000000000
   - CZ00004 Clear_Ready_Queue:          5.000000000
   - CZ00004 Delay_For_Time_Past:          0.100000000
   - CZ00004 Time_Dependent_Reset:          0.300000000
   - CZ00004 Delay_Per_Random_Test:          1.000000000
   - CZ00004 Exceed_Time_Slice.
   - CZ00004 Non_State_String: By No Means A State.
   - CZ00004 External_Tag_Value: implementation_defined.
   - CZ00004 CD30005_1_Foreign_Address: present.
   - CZ00004 CD30005_1_External_Name: CD30005_1.
   - CZ00004 Max_Default_Alignment:  1.
   - CZ00004 Max_Linker_Alignment:  1.
   - CZ00004 CXB30130_External_Name: CXB30130.
   - CZ00004 CXB30131_External_Name: CXB30131.
**** CZ00004 FAILED ***************************.
```

C.2. Sample Output From CZ1101A

The following is the output of CZ1101A from a particular implementation. The output of this test should have the same messages (except for the time-stamp) and reported results as indicated here (including failure reports), and the format of the output lines should be as described in the output text.

```
   - NO_NAME (CZ1101A) CHECK REPORT ROUTINES.
   - NO_NAME    INITIAL VALUES SHOULD BE 'NO_NAME' AND 'FAILED'.
**** NO_NAME FAILED ****************************.

,.,. PASS_TEST ACVC 2.2 98-08-26 14:47:42
---- PASS_TEST CHECKING 'TEST' AND 'RESULT' FOR 'PASSED'.
   - PASS_TEST THIS LINE IS EXACTLY 'MAX_LEN' LONG. ...5...60....5...70.
   - PASS_TEST THIS COMMENT HAS A WORD THAT SPANS THE FOLD POINT. THIS
               COMMENT FITS EXACTLY ON TWO LINES. ..5...60....5...70.
   - PASS_TEST
               THIS_COMMENT_IS_ONE_VERY_LONG_WORD_AND_SO_IT_SHOULD_BE
               _SPLIT_AT_THE_FOLD_POINT.
==== PASS_TEST PASSED ============================.
   - NO_NAME CHECK THAT 'RESULT' RESETS VALUES TO 'NO_NAME' AND
             'FAILED'.
**** NO_NAME FAILED ****************************.

,.,. FAIL_TEST ACVC 2.2 98-08-26 14:47:42
---- FAIL_TEST CHECKING 'FAILED' AND 'RESULT' FOR 'FAILED'.
   * FAIL_TEST 'RESULT' SHOULD NOW BE 'FAILED'.
**** FAIL_TEST FAILED ****************************.

,.,. NA_TEST ACVC 2.2 98-08-26 14:47:42
---- NA_TEST CHECKING 'NOT-APPLICABLE'.
   + NA_TEST 'RESULT' SHOULD NOW BE 'NOT-APPLICABLE'.
++++ NA_TEST NOT-APPLICABLE ++++++++++++++++++++.

,.,. FAIL_NA_TEST ACVC 2.2 98-08-26 14:47:42
---- FAIL_NA_TEST CHECKING 'NOT_APPLICABLE', 'FAILED', 'NOT_APPLICABLE'.
   + FAIL_NA_TEST 'RESULT' BECOMES 'NOT-APPLICABLE'.
   * FAIL_NA_TEST 'RESULT' BECOMES 'FAILED'.
   + FAIL_NA_TEST CALLING 'NOT_APPLICABLE' DOESN'T CHANGE 'RESULT'.
**** FAIL_NA_TEST FAILED ****************************.

,.,. SPEC_NA_TEST ACVC 2.2 98-08-26 14:47:42
---- SPEC_NA_TEST CHECKING 'SPEC_ACT', 'NOT_APPLICABLE', 'SPEC_ACT'.
   ! SPEC_NA_TEST 'RESULT' BECOMES 'TENTATIVELY PASSED'.
   + SPEC_NA_TEST 'RESULT' BECOMES 'NOT APPLICABLE'.
   ! SPEC_NA_TEST CALLING 'SPECIAL_ACTION' DOESN'T CHANGE 'RESULT'.
++++ SPEC_NA_TEST NOT-APPLICABLE ++++++++++++++++++++.

,.,. SPEC_FAIL_TEST ACVC 2.2 98-08-26 14:47:42
---- SPEC_FAIL_TEST CHECKING 'SPEC_ACT', 'FAILED', 'SPEC_ACT'.
   ! SPEC_FAIL_TEST 'RESULT' BECOMES 'TENTATIVELY PASSED'.
   * SPEC_FAIL_TEST 'RESULT' BECOMES 'FAILED'.
   ! SPEC_FAIL_TEST CALLING 'SPECIAL_ACTION' DOESN'T CHANGE 'RESULT'.
**** SPEC_FAIL_TEST FAILED ****************************.

,.,. CZ1101A ACVC 2.2 98-08-26 14:47:42
---- CZ1101A CHECKING 'SPECIAL_ACTION' ALONE.
   ! CZ1101A 'RESULT' BECOMES 'TENTATIVELY PASSED'.
!!!! CZ1101A TENTATIVELY PASSED !!!!!!!!!!!!!!!!.
!!!!         SEE '!' COMMENTS FOR SPECIAL NOTES!!
```

C.3. Sample Output From CZ1102A

Test CZ1102A should execute and report PASSED as illustrated below. Only the time-stamp should differ.

```
,.,. CZ1102A ACVC 2.2 98-08-26 14:47:57
---- CZ1102A CHECK THAT THE DYNAMIC VALUE ROUTINES OF THE REPORT PACKAGE
                WORK CORRECTLY.
==== CZ1102A PASSED ============================.
```

C.4. Sample Output From CZ1103A

Test CZ1103A may produce two different forms of output, depending on whether the implementation supports external files.

C.4.1 Output When External Files Are Supported

If the implementation under test supports the creation and use of external text files, then test CZ1103A should produce the following report (except for differences in the time stamp). Note that failure messages are expected.

```
,.,. CZ1103A ACVC 2.2 98-08-26 14:48:10
---- CZ1103A CHECK THAT PROCEDURE CHECK_FILE WORKS.
   - CZ1103A BEGIN TEST WITH AN EMPTY FILE.
   - CZ1103A BEGIN TEST WITH A FILE WITH BLANK LINES.
   - CZ1103A BEGIN TEST WITH A FILE WITH BLANK LINES AND PAGES.
   - CZ1103A BEGIN TEST WITH A FILE WITH TRAILING BLANKS.
   - CZ1103A FROM CHECK_FILE: THIS IMPLEMENTATION PADS LINES WITH
                BLANKS.
   - CZ1103A BEGIN TEST WITH A FILE WITHOUT TRAILING BLANKS.
   - CZ1103A BEGIN TEST WITH A FILE WITH AN END OF LINE ERROR.
   * CZ1103A FROM CHECK_FILE: END OF LINE EXPECTED - E ENCOUNTERED.
   - CZ1103A FROM CHECK_FILE: LAST CHARACTER IN FOLLOWING STRING
                REVEALED ERROR: THIS LINE WILL CONTAIN AN #.
   - CZ1103A BEGIN TEST WITH FILE WITH END OF PAGE ERROR.
   * CZ1103A FROM CHECK_FILE: END_OF_PAGE NOT WHERE EXPECTED.
   - CZ1103A FROM CHECK_FILE: LAST CHARACTER IN FOLLOWING STRING
                REVEALED ERROR: THIS LINE WILL CONTAIN AN @.
   - CZ1103A BEGIN TEST WITH FILE WITH END OF FILE ERROR.
   * CZ1103A FROM CHECK_FILE: END_OF_FILE NOT WHERE EXPECTED.
   - CZ1103A FROM CHECK_FILE: LAST CHARACTER IN FOLLOWING STRING
                REVEALED ERROR: THIS LINE WILL CONTAIN AN %.
   - CZ1103A BEGIN TEST WITH FILE WITH INCORRECT DATA.
   * CZ1103A FROM CHECK_FILE: FILE DOES NOT CONTAIN CORRECT OUTPUT -
                EXPECTED C - GOT I.
   - CZ1103A FROM CHECK_FILE: LAST CHARACTER IN FOLLOWING STRING
                REVEALED ERROR: LINE WITH C.
**** CZ1103A FAILED ***************************.

,.,. CZ1103A ACVC 2.2 98-08-26 14:48:10
---- CZ1103A THE LINE ABOVE SHOULD REPORT FAILURE.
   ! CZ1103A COMPARE THIS OUTPUT TO THE EXPECTED RESULT.
!!!! CZ1103A TENTATIVELY PASSED !!!!!!!!!!!!!!!!.
!!!!         SEE '!' COMMENTS FOR SPECIAL NOTES!!
```

C.4.2 Output When External Files Are Not Supported

If the implementation under test does not support external text files, then CZ1103A produces different output, as illustrated below.

```
,.,. CZ1103A ACVC 2.2 98-08-26 14:49:00
---- CZ1103A CHECK THAT PROCEDURE CHECK_FILE WORKS.
   - CZ1103A BEGIN TEST WITH AN EMPTY FILE.
   * CZ1103A TEST WITH EMPTY FILE INCOMPLETE.
   - CZ1103A BEGIN TEST WITH A FILE WITH BLANK LINES.
   * CZ1103A TEST WITH FILE WITH BLANK LINES INCOMPLETE.
   - CZ1103A BEGIN TEST WITH A FILE WITH BLANK LINES AND PAGES.
   * CZ1103A TEST WITH FILE WITH BLANK PAGES INCOMPLETE.
   - CZ1103A BEGIN TEST WITH A FILE WITH TRAILING BLANKS.
   * CZ1103A TEST WITH FILE WITH TRAILING BLANKS INCOMPLETE.
   - CZ1103A BEGIN TEST WITH A FILE WITHOUT TRAILING BLANKS.
   * CZ1103A TEST WITH FILE WITHOUT TRAILING BLANKS INCOMPLETE.
   - CZ1103A BEGIN TEST WITH A FILE WITH AN END OF LINE ERROR.
   * CZ1103A TEST WITH END_OF_LINE ERROR INCOMPLETE.
   - CZ1103A BEGIN TEST WITH FILE WITH END OF PAGE ERROR.
   * CZ1103A TEST WITH END_OF_PAGE ERROR INCOMPLETE.
   - CZ1103A BEGIN TEST WITH FILE WITH END OF FILE ERROR.
   * CZ1103A TEST WITH END_OF_FILE ERROR INCOMPLETE.
   - CZ1103A BEGIN TEST WITH FILE WITH INCORRECT DATA.
   * CZ1103A TEST WITH INCORRECT DATA INCOMPLETE.
**** CZ1103A FAILED ****************************.

,.,. CZ1103A ACVC 2.0 95-02-28 10:49:00
---- CZ1103A THE LINE ABOVE SHOULD REPORT FAILURE.
   ! CZ1103A COMPARE THIS OUTPUT TO THE EXPECTED RESULT.
!!!! CZ1103A TENTATIVELY PASSED !!!!!!!!!!!!!!!!.
!!!!         SEE '!' COMMENTS FOR SPECIAL NOTES!!
```