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THE NATIONAL CENTRE FOR INFORMATION TECHNOLOGY

UNITED KINGDOM

ACVC TAILORING TOOL USER GUIDE

Version 1.0

Developed by

National Computing Centre Ltd
Oxford Road, Manchester
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Version 1.0 : July 1988

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1. Function of the Tailoring Tool

The Tailoring Tool is designed in conjunction with the Comparator and Analyser Tool, to provide assistance to clients and Ada* Validation Facilities (AVFs) in the preparation of an Ada Compiler Validation and the checking of the results obtained from using the Ada Compiler Validation Capability (ACVC) test suite. Its objectives are to perform macro substitutions and to build an information file, which will provide input to the Comparator and Analyser tool.

2. Operating System Criteria

The Tailoring Tool requires that the following operating system criteria are available :

a) The system must allow at least 8 character filenames.

b) The operating system must allow filenames without extensions in order to allow the Tailoring Tool to open its output files.

If the users operating system does not support these criteria then please contact the AVF that supplied the software, who will pass the comments on to the NCC. A list of all the AVFs is found in Appendix C.

---

* Ada is a registered trademark of the US Government (Ada Joint Program Office)

3. Naming Conventions

Within the Tailoring Tool the following naming protocol is required for filenames :

FILENAME.EXTENSION

3.1 Filenames

The convention used to allocate every filename within the Tailoring Tool (except those which have been split, see 3.2,) is as follows :

Position	Description	Type
1	Test Description	Char
2	LRM Chapter Number	Hex
3	LRM Section	Hex
4	LRM Sub-Section	A/N
5,6	Test Objective	Dec
7	Sub-objective	Char
	The positions below are used only if the test requires the compilation of multiple files.	
8	Compilation number	A/N
9	Main sub-program compilation unit	M

Char -- Character
A/N -- Alpha-Numeric
Dec -- Decimal
Hex -- Hexidecimal
M -- The Character 'M'
LRM -- Language Reference Manual

This is in compliance with the naming protocol adopted by the AJPO whereby individual tests are uniquely identifiable by the characters in positions 2 to 7 inclusive.

In tests where there is more than one compilation unit (multi-file test), indicated by the use of the compilation number, all the units must be compiled before the test is linked. In a multi-file test a zero in position 8 indicates that this file must be compiled first. The order of compilation follows the order specified in the ACVC logbook. An 'M' in the main sub-program compilation unit indicates the main unit in a multi-file test.

3.2 Split Filenames

A Split file is determined necessary in order to :-

- o Allow specific lines within a particular test (normally 'B' tests) to comply with the requirement of the corresponding comment.
- o Allow a compilation unit to compile and run successfully.

All Splits must be agreed by the AVF or AVO.

The naming convention required to be followed for the Split files within the Tailoring Tool is as follows:

Position	Description	Type
1 --> 6	As original filename	Char
7	Counter from 0-9 incremented by Position	Dec
8	Counter	36

Char -- Character 36 -- Base 36 (0 to 9 and A to Z)
Dec -- Decimal

The numbering of a Split (given by positions 7 and 8) must be contiguous for all tests split in a chapter-section-subsection set.

3.3 Extensions

The extensions that reside within the ACVC test suite have specific meanings within the Tailoring Tool. These are as follows :

Extension	Description
TST	This file will need to have the Macro substitution.
ADA	This test incorporates Standard features of the language.
DEP	There are Optional Implementation-Dependent features in this test.

If the users operating system does not allow three character extensions then the tool will truncate the extension down (See Section 4.3.1). The minimum extension size must be one character and even then the test file extensions retain their meaning within the Tailoring Tool and the ACVC.

4. Tool Implementation and Installation

To allow the tool to be built and run using different operating systems, the Tailoring Tool is supplied as a series of source code files written in Ada which need to be installed and linked into the Ada Library. TEXT_IO is the only one Generic Instanstiation used within the code.

4.1 Name and Content of Supplied Code

MAIN.ADA	-	Main Procedure	Main control block
BULD_TAB.ADA	-	Sub-procedure	Build data tables
PRO_FILE.ADA	-	Sub-procedure	Process FNAMES file
PRO_TEST.ADA	-	Sub-procedure	Process test files
PRO_SPLT.ADA	-	Sub-procedure	Process split files
TAILOR.ADA	-	Sub-procedure	Tailor files
WRITE.ADA	-	Sub-procedure	Write to Tailoring Tool Information File (TTINF)
CHECK.ADA	-	Sub-procedure	Check completeness

4.2 Compiling and Linkage

The following compilation procedures will result in an executable Tailoring Tool. There is no fixed order stated here, for each system will have its own protocol for compiling and linking.

- Create a new application library with the overwrite facility enabled.
- Compile each of the Tailoring Tool files.
- Bind all the units of application code from the application library allowing the linking of the program to run.
- Link the object code to create an executable file.

4.3 Activating the Tailoring Tool

Before activating the Tailoring Tool the user must first make sure that :

- o All the ACVC Test Suite tests must be in one directory.
- o All the User Input Files must be set up and in the same directory as the Test Suite. These Input Files are described in Section 5.
- o This directory must be in the scope of the executable image of the Tailoring Tool.

The Tailoring Tool will be activated by running the executable file 'MAIN'. The following tasks will be undertaken.

4.3.1 User Inputs

When the Tailoring Tool is activated the user will be asked to input information as follows :

a) Today's date - this is to be put in the form dd:mm:yyyy (eg 23:04:1988).

b) A User's Comment - to go at the top of the macro replacement file. This has a maximum of 20 characters and should be used to identify the particular run.

c) Whether or not the system is limited to 8 character filenames.

d) Whether the system supports 3 or more character extensions. If the system cannot support 3 or more character extensions, then the user must state the maximum extension size.

4.3.2 Tables

The internal table structures are set up when the User Inputs are completed due to the fact that only the generation of errors will require further Terminal conversation. All the required information is obtained from the Input Files, which have to be set up by the user prior to using the Tailoring Tool. The screen will show what tables are being produced. These are local data structures and are provided solely for the Tailoring Tool's benefit. They are used to ensure that all the files have been processed by the Tailoring Tool at the end of the run. A definition of these follows :

There are five tables defined in the tailoring tool. These are :

- Split Files Table
- Macro Replacements Table
- Special Tests Table
- Withdrawn Tests Table
- Not Applicable Tests Table

4.3.2.1 Split Files Table

Function

Used by the Tailoring Tool to hold all the split file names associated with the implementation, together with a flag indicating whether the file has been processed by the tool or not. There are two parts to this table, a Split Table and a Split List. The Split Table holds the name of the test file which is split, and the Split List holds the names of the split files containing the edits.

Capacity

Split Table	:	200 Test Names
Split List	:	200 File Names

4.3.2.2 Macro Replacements Table

Function

Used by the Tailoring Tool to hold all the macro names and replacements associated with the implementation, together with a flag indicating whether the replacement has been made.

Capacity

Macro Table : 300 Macros

4.3.2.3 Special Tests Table

Function

Used by the Tailoring Tool to store all the names of tests which are classed as being special in the log book, plus a flag indicating whether the test has been processed by the tailoring tool.

Capacity

Special Table : 100 Test Names

4.3.2.4 Withdrawn Tests Table

Function

Used by the Tailoring Tool to store all the names of the tests withdrawn from the ACVC test suite plus a flag indicating whether the test names appeared in FNAMES.

Capacity

Withdrawn Table : 100 Test Names

4.3.2.5 Inapplicable Tests Table

Function

Used by the Tailoring Tool to store all the names of the tests not applicable to the implementation, plus a flag indicating whether these tests were processed by the tailoring tool.

Capacity

Inapplicable Table : 1000 Test Names

4.3.3 Processes

On executing the Tailoring Tool, the user will see the terminal screen scroll up to clear the screen, and then the information defined in the User Inputs section will be inquired and the user must respond before the tool will continue.

Having completed the inputs via the keyboard all the relevant tables will be produced.

Once the tables have been completed the sub-processes using these data structures can proceed. The various sub-processes are as follows :

a) Filenames are read in from FNAMES. These are checked to see if the filename is valid. If not then an error is raised and the next filename is read.

b) If the file is on the withdrawn list then no further processing takes place and the next filename is read.

c) The file is then checked to see if it is present in the scope of the Tailoring Tool, and, if split or has more than one module then the subsequent files are also checked for availability.

d) If the file has a '.TST' extension then this indicates to the Tailoring Tool that at least one, macro substitution is required. All the MAX_INT_LEN dependent macros, that is the macros that rely on the maximum line length, are substituted together with those macros in the MACROS file.

5. Input Files

Prior to using the Tailoring Tool, the user must create a number of ASCII character files. These files, called the Input Files are used to supply the Tailoring Tool with a list of all the filenames within a particular classification. The Input Files are :

- FNAMES
- MACROS
- SPLITS
- WDRNS
- SPCLS
- INAPPS
- TSINFO

The filenames must all be in Chapter order. That is alphabetically within each class.

5.1 List of all Tests

Filename : FNAMES

Function

Input file which supplies the Tailoring Tool with the names of the test files used in the current version of the ACVC test suite and the order in which they are to be processed.

Contents

A sequential list, set up by AVF's, of the test file names in the ACVC test suite, in the order specified for processing. A test consisting of only one test file is indicated by a seven character file name, followed by the extension. Multiple source file tests have file names with either eight or nine character file names, followed by their extensions. Nine character names indicate which of the files is the main sub-test unit, the main sub-unit having an 'M' in the ninth character position of its name.

Format

One file name per line.

Example

A21001A.ADA	-	file name for a one file test
A38199COM.ADA	-	main unit in a multiple file test
A38199C1.ADA	-	second unit in the multiple file test
A38199C2.ADA	-	third unit in the multiple file test

5.2 Macro Names and their replacements

Filename : MACROS

Function

Input file which supplies the Tailoring Tool with a list of all the macro names, that are not associated with the maximum line length, together with their replacements, which define the implementation dependent features within the ACVC test suite for the particular implementation under test.

Contents

A list of records, set up by the user, containing a macro name, followed by a space, and the associated replacement. Comment lines are optional in the file (*NOTE 2 in Appendix B). The maximum line length must be the first macro together with its replacement. The subsequent list contains the following macro names along with their replacements. For implementations being tested under ACVC 1.9, the macros required are :-

```
$MAX_IN_LEN
$NEG_BASED_INT
$MAX_DIGITS
$NAME
$INTEGER_FIRST
$INTEGER_LAST
$INTEGER_LAST_PLUS_1
$MIN_INT
$MAX_INT
$MAX_INT_PLUS_1
$LESS_THAN_DURATION
$GREATER_THAN_DURATION
$GREATER_THAN_DURATION_BASE_LAST
$COUNT_LAST
$FIELD_LAST
$FILE_NAME_WITH_BAD_CHARS
$FILE_NAME_WITH_WILD_CARD_CHAR
$ILLEGAL_EXTERNAL_FILE_NAME1
$ILLEGAL_EXTERNAL_FILE_NAME2
```

Format

One macro name and replacement per line, separated by one space, unless the replacement goes over more than one line. When this occurs it will be indicated by '&' in the last character of each line.

Examples

```
$MAX_IN_LEN 120
$ILLEGAL_EXTERNAL_FILE_NAME2 THIS_FILE_NAME_&
WOULD_BE_PERFECTLY_LEGAL_IF_IT_&
WERE_NOT_SO_LONG
```

5.3 List of all Split Tests

Filename : SPLITS

Function

Input file which supplies the Tailoring Tool with a list of the split file names associated with the implementation under test.

Contents

A sequential list of blocks, each block containing information about each test file in the ACVC test suite that needs to be split. Comment lines are optional within the file (*NOTE 2 see Appendix B). Each block is built up from a number of lines, the first line, followed by a space and the number of extra split files. This is followed by a sequential list of all the split file names.

Format

```
Test_file_name Number_of_subsequent_files(N)
Name of split file 1
Name of split file 2
        :
Name of split file (N-1)
Name of split file N
```

Note : The split file names will follow the agreed convention.

Example

```
--   The following file is a single test file
--   which has been split twice

A21001A.ADA 2
A2100100.ADA
A2100101.ADA

--   The following sub-test file has been
--   split once

A38199C1.ADA 1
A3819900.ADA
```

5.4 List of all Withdrawn Tests

Filename : WDRNS

Function

Input file which supplies the Tailoring Tool with a complete list of the withdrawn tests in the current ACVC test suite.

Contents

A sequential list of the names of the tests withdrawn from the current ACVC test suite.

Format

One test name per line.

Examples

A21001A.ADA
A38199C.ADA

5.5 List of all Special Tests

Filename : SPCLS

Function

Input file which supplies the Tailoring Tool with a complete list of the tests indicated by the ACVC log book as being special.

Contents

A sequential list of the names of the special tests in the current ACVC test suite (*NOTE 1 in Appendix E).

Format

One test name per line.

Example

LA5008C.ADA
LA5008G.ADA

5.6 List of all Inapplicable Tests

Filename : INAPPS

Function

Input file which supplies the Tailoring Tool with a complete list of the tests which have been ruled Not Applicable for this implementation by the AJPO or by not supporting various features.

Contents

A sequential list of the not applicable test names for the particular implementation (*NOTE 1 in Appendix B). The file may also contain comments.

Format

One test name per line.

Example with Comments

```
--   'SIZE representation clauses are not
--   supported
C87B62A.DEP
-- The value of SYSTEM.MAX-DIGITS IS 25
C24113V.ADA
C24113W.ADA
C24113X.ADA
C24113Y.ADA
```

Example without Comments

```
CE2102H.ADA
C24113V.ADA
C24113W.ADA
C24113Y.ADA
```

5.7 Information File on the Tests

Filename : TSINFO

Function

Input file which supplies the Tailoring Tool with the details of the current ACVC test suite in order that the integrity checks for completeness may be carried out.

Contents

A sequential list of records with each record indicating the test chapter, test type, number of applicable tests of the type, number of not applicable tests of the type, and the number of withdrawn tests of this type, in the chapter. The order of records is the same as that of FNAMES (see 4.1).

Format

One record per line.

'Chapter' 'test class' 'N1' 'N2' 'N3'

where :

- Chapter is a one hexidecimal character
- Test Class is one of A, B, C, D, E, L
- N1 is the total number of applicable tests of the class in the chapter
- N2 is the total number of not applicable tests of the class in the chapter
- N3 is the total number of withdrawn tests of the class in the chapter.

Example

```
2 A 15 0 0
2 B 39 0 1
```

6. Output Files

There are a total of three output files.

- o ERR_OUT
- o MCRO_OUT
- o TTINF

These output files serve the following purposes :-

a) The input file for the Comparator and Analyser Tool.

b) To provide a list of the macro substitutions done on the tests, and a log of what messages were passed to the screen for a validation.

6.1 Error Logbook

Filename : ERR_OUT

Function

To supply the user with the information that appeared on the screen during the Tailoring operation. This file gives a hard copy of all the output from the terminal to the user, including any error messages, after the initial questions.

Format

A printable ASCII character file.

6.2 Macro Substitution File

Filename : MCRO_OUT

Function

To supply the user with a hard copy list of all the macro substitutions that taken place within a Tailoring run.

Content

a) A list of all I .._IN_LEN dependant macros.

b) A list of all the macro names that were substituted within the '.TST' files.

Format

A printable ASCII character file.

6.3 Comparator and Analyser Input File

Filename : TTINF

Function

This file allows the Tailoring Tool to pass parameters into the Comparator and Analyser Tool. It is only a one way conversation and therefore there is no output file from the Comparator and Analyser Tool that the Tailoring Tool uses as an input file.

Content

This file provides the Comparator and Analyser Tool with the following information:

a) Test Name

b) Number of subfiles

c) Position within the subfiles of the main compilation unit

d) Number of test attributes

e) List of any subfiles

f) List of any test attributes

Once all the tests have been dealt with and the information written to the TTINF file, the Tailoring Tool adds a completeness check count. From this check count the Comparator and Analyser Tool can reveal an indication of how much confidence the user can put on the data within this file.

Format

A printable ASCII character file.

Example

```
A39005F    --   Test name
2 0 2      --   Two subfiles, no main
           --   compilation unit, two
           --   attributes
A3900501   --   Subfile 1
A3900502   --   Subfile 2
SPLIT      --   File is Split
SPCL       --   File is Special
```

The comments in the example above, that is the text to the right of the two dashes (--), is not inserted into the output file.

7. Error Handling

When an error occurs that is recoverable, the Tailoring Tool will ask for permission to continue. The only loss that will occur from this is that no completeness checks will be done.

The Error messages that follow are found in the output file ERR_OUT :

==========

INCORRECT TESTNAME
filename

The number of files in FNAMES has exceeded the bounds of the internal array.

==========

ERROR IN SPLITS
SPLIT FILE NOT ASSOCIATED WITH FILE
SPLIT COUNT MAY BE INCORRECT
filename from splits file
THIS FILE WILL BE IGNORED
filename from fnames file
THIS FILE WILL BE USED AS NEW SPLIT

The naming of the split files is incorrect (see section 3.2 of this document).

==========

NUMBER OF SPLIT FILES NOT GIVEN
filename from fnames file
THIS FILE WILL BE IGNORED

The number of split files has been missed out.

==========

INVALID MACRO
macro name from macros file
THIS MACRO WILL BE IGNORED

There is a macro that begins with $B or a macro that does not have a $ in position 1 in the MACROS file.

==========

MACRO NAME TOO LONG
macro name from macros file
THIS MACRO WILL BE IGNORED

Macro name is greater than 32 characters.

==========

REPLACEMENT TOO LONG
macro name from macros file
macro replacement from macros file
THIS MACRO WILL BE IGNORED

The macro replacement is too long.

==========

NO REPLACEMENT GIVEN FOR MACRO
Macro name
THIS MACRO WILL BE IGNORED

No replacement for the specified macro was found in the MACROS file.

==========

UNABLE TO OPEN FILE
File_name

Unable to open the specified file.

==========

PROCESS WILL TERMINATE AFTER THE DATA TABLES HAVE BEEN BUILT

A error has occurred which deems the continuation of this program unproductive.

==========

INCORRECT NUMBER OF LINES IN THE FILE
File_name

Trying to read past the end of the file.

==========

TEST NOT PROCESSED
Test_name

This report occurs when the tool finds a test that has not been processed.

!!!***FILE NOT PROCESSED FOR SPLITS***!!!
File_name

Displayed when the file has not been processed.

!!!***MACRO NOT BEEN USED!!!***
Macro_name

This error occurs when there is a macro that has not been substituted.

!!!DIFFERENCE IN APPLICABLE COUNT!!!
CHAPTER : X TEST : Y
EXPECTED : A ACTUAL : B

This report is printed when, in the completeness checks, there is a difference between the TSINFO file and what the tool has calculated.

!!!DIFFERENCE IN NOT APPLICABLE COUNT!!!
CHAPTER : X TEST : Y
EXPECTED : A ACTUAL : B

This report is printed when, in the completeness checks, there is a difference between the TSINFO file and what the tool has calculated.

```
***!!!DIFFERENCE IN NOT WITHDRAWN COUNT!!!***
CHAPTER  :  X   TEST   :  Y
EXPECTED :  A   ACTUAL :  B
                ---------------------
```

This report is printed when, in the completeness checks, there is a difference between the TSINFO file and what the tool has calculated.

==========

```
***!!!UNABLE TO OPEN TSINFO!!!***
THE COMP ARRAY WILL NOT BE CHECKED
                ---------------------
```

The TSINFO file has not been opened causing the failure to run the completeness checking.

==========

```
***!!!PROGRAM TERMINATES!!!***
ERRORS RAISED WHILE PROCESSING TEST FILES
                ---------------------
```

An error has been raised while processing the FNAMES file.

==========

```
***!!!PROGRAM TERMINATES!!!***
ERRORS RAISED WHILE BUILDING THE TABLES
                ---------------------
```

An error occurred in building the internal tables, the program has insufficient data to continue.

==========

```
***!!!PROGRAM TERMINATES!!!***
UNABLE TO FIND FNAMES.
                ---------------------
```

The file FNAMES has not been found.

==========

```
***!!!PROGRAM TERMINATES!!!***
UNABLE TO CREATE OUTPUT FILES
                ---------------------
```

The output file could not be created because of illegal filename.

==========

```
***!!!TWO MAIN FILENAMES FOUND!!!***
File_name
                    --------------------
```

Two identical filenames that have a 'M' character in position 9 have been found.

```
                    ====================

***!!!ERROR IN FNAMES!!!***
File_name
                    --------------------
```

The length of the filename is either < 11 characters or greater than 13 characters.

```
                    ====================

***!!!FNAMES IS EMPTY!!!***
PROCESS WILL TERMINATE
                    --------------------
```

No filenames in FNAMES.

```
                    ====================

***!!!UNABLE TO OPEN SPLIT FILE!!!***
split_filename
THIS FILE WILL BE IGNORED
                    ----------------------
```

The split file_name is an illegal filename.

```
                    ======================

***!!!SPLIT AND TEST IDS ARE DIFFERENT!!!***
TEST ID = test_id
SPLIT ID = split_id
                    ----------------------
```

The names at the top of the split files are different.

```
                    ======================

***!!!UNABLE TO OPEN A TEST FILE!!!***
                    ----------------------
```

The name of a subfile of a split test is invalid.

```
                    ======================
```

!!!UNABLE TO ADD TEST INTO COMPLETENESS COUNT ARRAY!!!

A filename with meaningless Test types or chapter has been found.

!!!INVALID MACRO NAME!!!
Macro_name
NO REPLACEMENT CAN BE MADE

A macro has been found in the test file but no matching macro has been found in the MACROS file.

APPENDIX A

Glossary of Terms

ACVC	Ada Compiler Validation Capability.
AJPO	Ada Joint Programming Office
Alpha-numeric	A --> Z , 0 --> 9 inc.
AVF	Ada Validation Facility.
Chapter Order	This refers to the order that the tests filenames appear in the logbook.
Character	A --> Z inc.
Comparator and Analyser Tool	A separate and complementary tool which takes the output from this tool and aids checking of the test results.
Decimal	0 --> 9 inc.
Logbook	A historical record of tests performance during Pre-validation and Validation.
Macro	A variable name that can be used to substitute implementation dependent characteristics at the time of tailoring. Used to help the portability of the ACVC test suite.
Splits	These are tests that for system requirements have to be edited and made into more than one subsequent files

APPENDIX B

Notes

* NOTE 1 : For a single file test the test's name is the same as the file name. However, for multiple file tests the test's name is the first seven characters of the test file names plus the extension, as specified by the ACVC Logbook.

* NOTE 2 : A comment may appear on any line of the file, apart from the last line, and is indicated by '--' in the two left most columns. A line beginning with '--' contains no more information.

APPENDIX C

List of Ada Validation Facilities

Europe

France -
AFNOR
Tour Europe, Cedex 7
F-92080 Paris la Defense
France

West Germany -
INDUSTRIEANLAGEN-BETRIEBSGESELLSCHAFT
Dept. SZT (IABG-AVF)
Einsteinsstrasse 20
D-8012 Ottobrunn
West Germany

United Kingdom -
NATIONAL COMPUTING CENTRE Ltd
Oxford Road
Manchester
M1 7ED
United Kingdom

United States

-
ADA VALIDATION FACILITY (ADS/SCEL)
Bldg 676, Rm 135, Area B
Wright-Patterson AFB, OH 45433-6503

-
NATIONAL BUREAU OF STANDARDS
Institute for Computer Sciences and Technology
Software Standards Validation Group(Ada)
Bldg 225, Rm A266
Gaithersburg, MD 20899