

Structural Testing

Testing Coverage Tool For C

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MC/DC Coverage Tools

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References

MC/DC Coverage Tools

Tools

MC/DC

Extension

Introduce MC/DC Tools

Introduce Tessy

Install Tessy

Test Example

Extension Study

Introduce MC/DC Tools

CTC++ / C++ Test

- **CTC++(상용)**
 - C / C++ Code 분석
 - Html / XML Report 추출가능
 - Visual Studio 연동가능
- **C++Test**
 - C/C++ Static Code 분석
 - Unit Test 지원
 - Run Time Error Detection 지원

Introduce MC/DC Tools

Cantata++ 6.0

안녕하세요~ 장기웅 연구원님!

IPL사 Cantata++6.0 한국대리점인 UPS테크놀러지의 이동주입니다.

아래와 같은 내용으로 IPL사에서 Sales lead메일이 왔습니다.

필요하신 자료나 정보 있으시면 언제든지 메일 또는 전화로 연락주세요~

Cantata++6.0에 대해 간단히 설명을 드리면

Cantata++6.0은 자동차 기능 안전성 국제 표준인 ISO26262 뿐만 아니라 DO-178B, IEC61508, IEC60880, IEC62304, CENELEC PR-EN50128 등에

명시되어 있는 Verification 및 Validation 요구사항을 검증하는데 S/W Testing tool로 활용하고 있습니다..

Introduce MC/DC Tools

Cantata++ 6.0

특히 현재 국내 자동차부품, 제조 업체들이 ISO26262 인증을 위해 여러 툴을 검토하고 있는데 그 중 Cantata++6.0 제품을 TUV-Sud 같은 인증기관에서 인증에 테스트를 할 수 있는 적합한 S/W Testing tool로 추천을 해주고 있습니다..

Cantata++는 개발자의 효율적인 단위 및 통합 테스트가 가능하도록 C/C++에 필요한 요소들을 기반으로 설계된 tool로서, 동적 단위/통합 테스트, 코드 커버리지 및 정적 분석 테스트를 통해 S/W 검증 및 제품 품질향상에 많은 도움을 주고 있습니다..

Cantata++ 특징

- | 단위 및 통합 테스트: 호스트 장치 및 타겟
- | ANSI C (89 and 99), ISO C++, EC++ 및 Java 커버리지 지원
- | 자동화 된 테스트 스크립트 생성 및 쉬운 조작
- | 통합된 커버리지 분석 (C/C++, Java)
- | Stubbing 과 Wrapping: 시뮬레이트 및 외부 인터페이스 제어
- | 정적 분석: 코드 복잡도 및 크기 측정

Introduce MC/DC Tools

Tessy

- **What programming language do you intend to use Tessy with?**
- **What microcontroller / compiler / debugger are you using?**
- **What is the background of the evaluation? What shall be the outcome?**

i'm student majoring software engineering

i use c language and i use GNU C Compiler

i'm studying software valification & validation in class

i need this program for studying structure unit testing.

so i request evaluation licence.

i want your fast response.

Introduce MC/DC Tools

Tessy

Dear Customer,

attached please find your registration key. This key is valid 10 days for our products CTE and Tessy. The evaluation license is valid from the point in time you receive it.

Please save the file to your local disk. You will be prompted for this file after finishing the registration dialog within Tessy or CTE. You may also copy the file directly into the installation directory under `..\razorcat\fls\bin`.

Note: In case that this e-mail has no license file attached, please look at the end of this e-mail. Some e-mail programs paste the text of the license file at the end of an e-mail.

Introduce MC/DC Tools

Tessy

The license key looks as follows (the key below is an example):

Create a text file like.dat and copy and paste the license key in this file.

In all other cases, please contact support@razorcat.com

Click below to download the most current version of Tessy:

<http://www.razorcat.com>

We are looking forward to receiving your positive reaction.

Sincerely,

The Razorcat Team

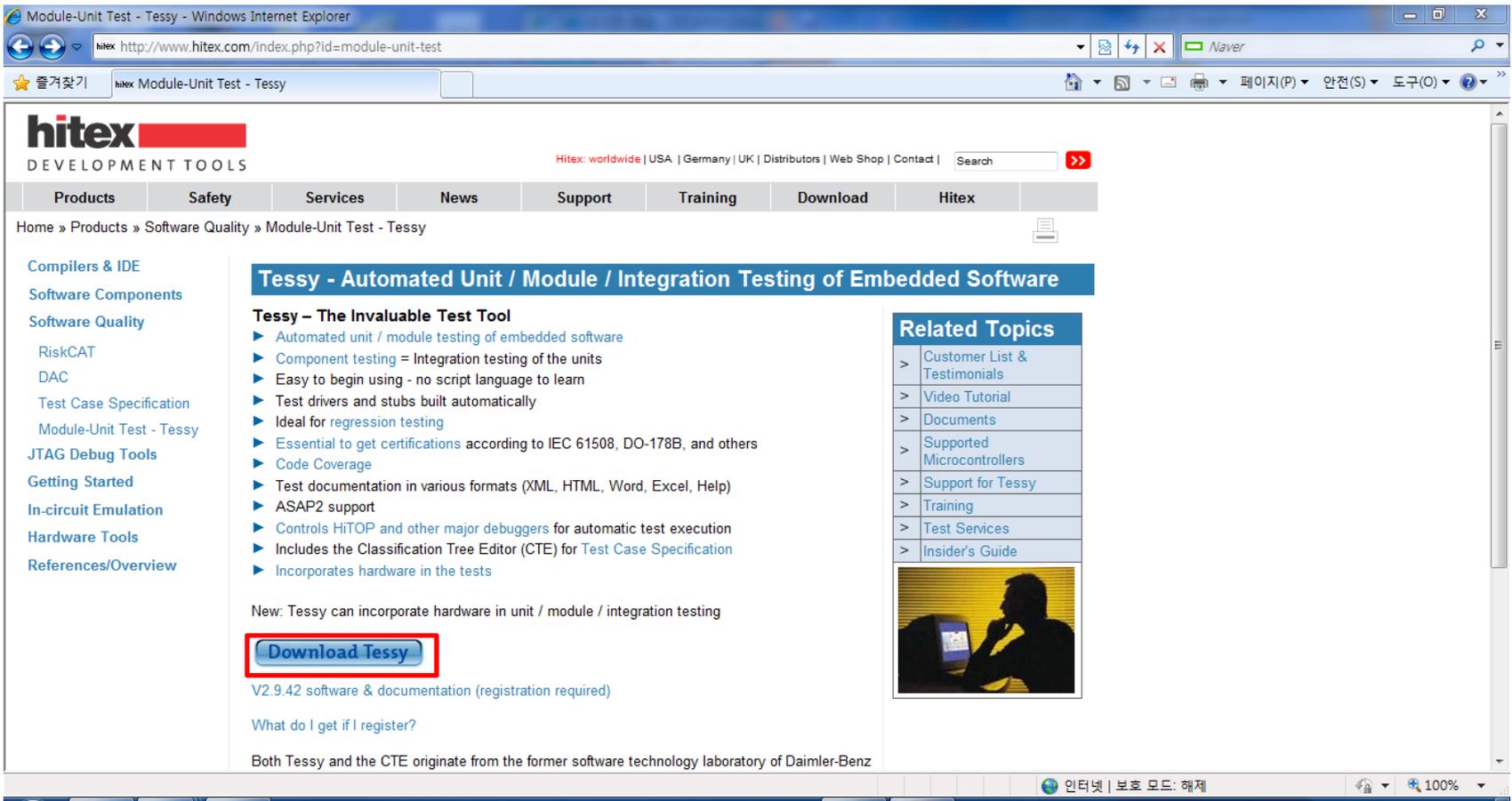
Introduce MC/DC Tools

Tessy

- **Razorcat** 에서 제작된 자동화 테스트 도구
- **C/C++ code**에 대한 테스트 / 디버깅 기술을 제공함
- **CTE(Classification Tree Editor)**를 포함하고 있어 **Classification Tree** 를 통해 테스트에 필요한 변수에 대한 값을 할당할 수 있음
- 코드에 대한 분석이 가능하고 **C1, MCC, MC/DC coverage** 측정이 가능함
- 테스트에 대한 문서로 **XML, HTML, Word, Excel, CHM** 등의 다양한 포맷들을 지원함

Install Tessy

Tessy Evaluation Version Request



Module-Unit Test - Tessy - Windows Internet Explorer

http://www.hitex.com/index.php?id=module-unit-test

즐거찾기 hitex Module-Unit Test - Tessy

hitex
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Home » Products » Software Quality » Module-Unit Test - Tessy

Compilers & IDE
Software Components
Software Quality
RiskCAT
DAC
Test Case Specification
Module-Unit Test - Tessy
JTAG Debug Tools
Getting Started
In-circuit Emulation
Hardware Tools
References/Overview

Tessy - Automated Unit / Module / Integration Testing of Embedded Software

Tessy – The Invaluable Test Tool

- ▶ Automated unit / module testing of embedded software
- ▶ Component testing = Integration testing of the units
- ▶ Easy to begin using - no script language to learn
- ▶ Test drivers and stubs built automatically
- ▶ Ideal for regression testing
- ▶ Essential to get certifications according to IEC 61508, DO-178B, and others
- ▶ Code Coverage
- ▶ Test documentation in various formats (XML, HTML, Word, Excel, Help)
- ▶ ASAP2 support
- ▶ Controls HiTOP and other major debuggers for automatic test execution
- ▶ Includes the Classification Tree Editor (CTE) for Test Case Specification
- ▶ Incorporates hardware in the tests

New: Tessy can incorporate hardware in unit / module / integration testing

Download Tessy

V2.9.42 software & documentation (registration required)

What do I get if I register?

Both Tessy and the CTE originate from the former software technology laboratory of Daimler-Benz

Related Topics

- > Customer List & Testimonials
- > Video Tutorial
- > Documents
- > Supported Microcontrollers
- > Support for Tessy
- > Training
- > Test Services
- > Insider's Guide



Install Tessy

Tessy Evaluation Version Request

The screenshot shows a web browser window displaying the Hitex website. The page title is "Download Tessy - Windows Internet Explorer". The URL is "http://www.hitex.com/index.php?id=683". The page features the Hitex logo and navigation menu. A red box highlights the registration form, which includes fields for personal and company information. A blue callout box in the bottom right corner says "Fill Register Form".

Download Tessy - Windows Internet Explorer
hitex http://www.hitex.com/index.php?id=683

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Home

Download Tessy

Please fill in the following form and click the "Register" button to download Tessy (* marked fields are mandatory).

- [What do I get when I register?](#)

Your data	
Title	Company * Konkuk University
Firstname * Ki-Woong	Division
Surname * Jang	Address * LotteCastle 2504
Phone * 08201071848499	Zip * 138060
E-Mail * wkdrldnd09@nate.com	City * Seoul
	Country * Korea South

Comments

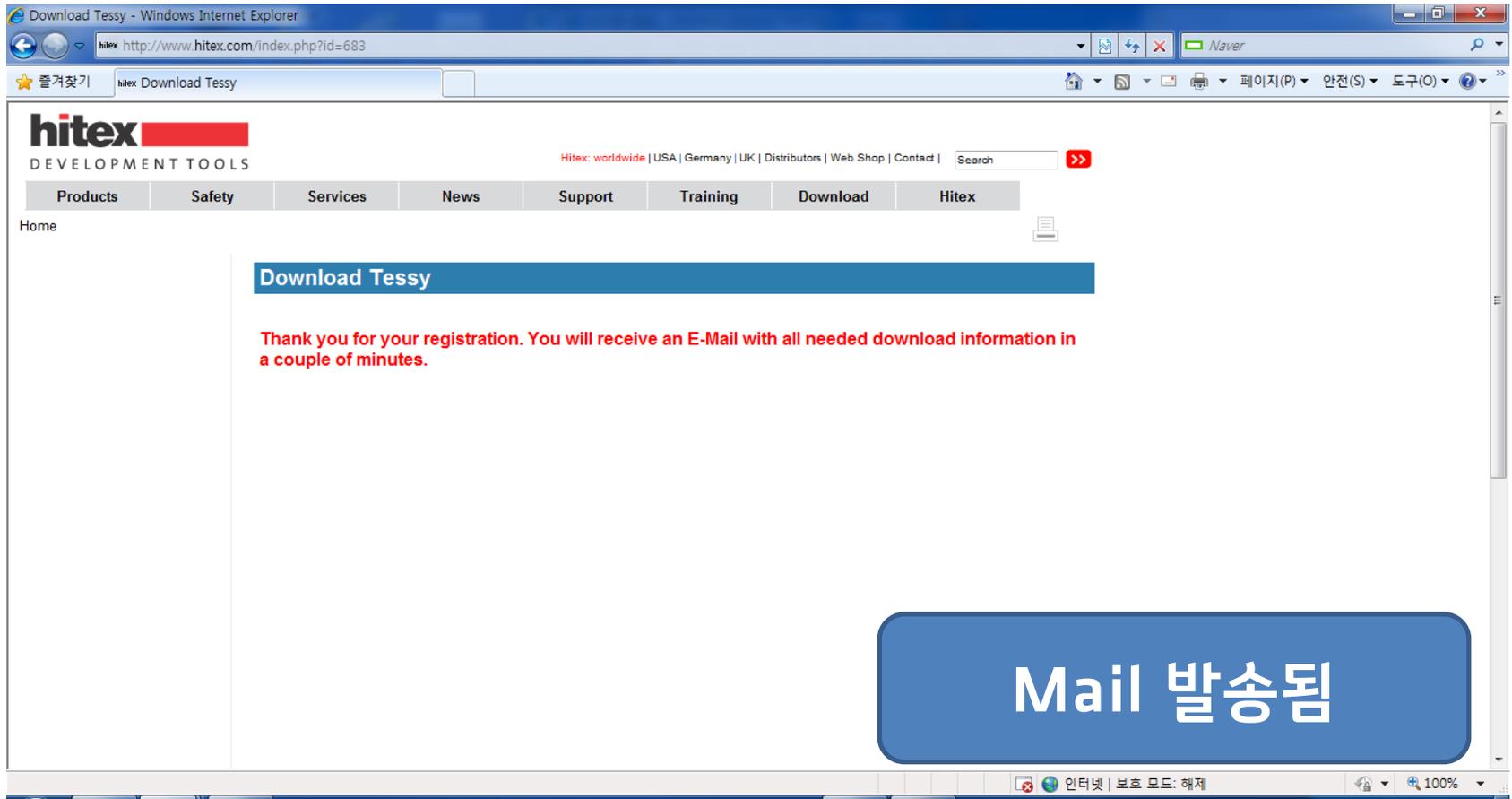
Your message

페이지에 오류가 있습니다. 인터넷

Fill Register
Form

Install Tessy

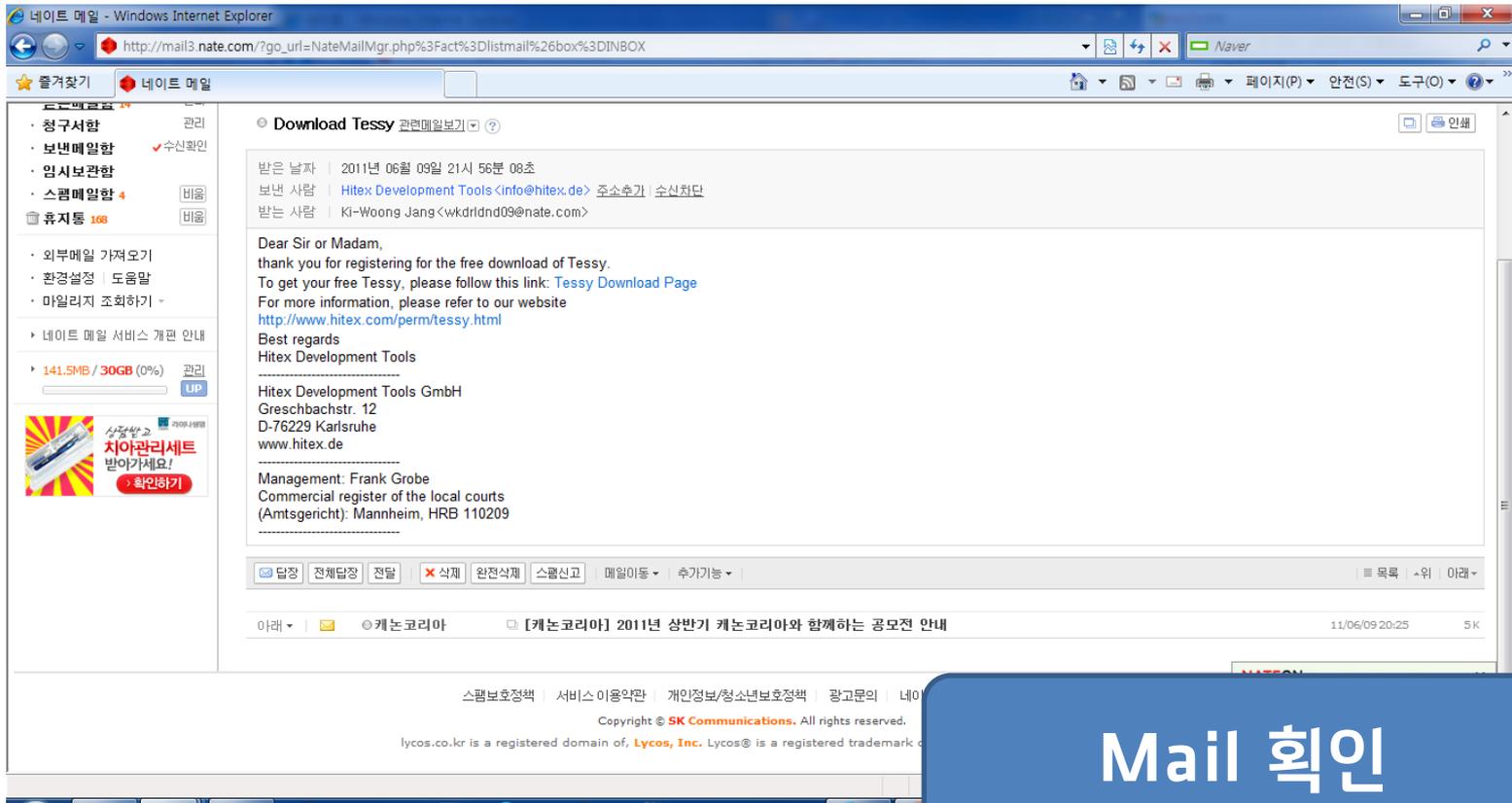
Tessy Evaluation Version Request



The screenshot shows a Windows Internet Explorer browser window displaying the Hitex website. The address bar shows the URL <http://www.hitex.com/index.php?id=683>. The website header includes the Hitex logo and navigation menu items: Products, Safety, Services, News, Support, Training, Download, and Hitex. A search bar is also visible. The main content area features a blue bar with the text "Download Tessy" and a red message: "Thank you for your registration. You will receive an E-Mail with all needed download information in a couple of minutes." A large blue button with the Korean text "Mail 발송됨" (Mail sent) is overlaid on the bottom right of the page. The browser's taskbar at the bottom shows the system tray with the date and time, and the taskbar itself shows several open applications.

Install Tessy

Tessy Evaluation Version Request



Install Tessy

Tessy Download

Download Tessy - Windows Internet Explorer
http://www.hitex.com/index.php?id=808

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Home » Download Tessy

Download Tessy V2.9.42 / V2.9.742

Thank you for your interest in Tessy!

There are two Tessy variants:

- ▶ Tessy V2.9.xx (Cygwin variant)
- ▶ Tessy V2.9.7xx (MinGW variant)

» Read about the two variants and get advice which one to use!

You may download different packages:

The complete distribution CD-ROM contents (590 MB)
This distribution includes the Tessy software, Tessy Documents, HiTOP Simulator for ARM, and the GNU compiler [tessy-cd.zip](#) package for ARM

Tessy 2.9.xx (Cygwin variant)
Only the Tessy software (229 MB) - included in the complete distribution CD-ROM

Tessy 2.9.7xx (MinGW variant)
Only the Tessy software (158 MB) - included in the complete distribution CD-ROM

Only the Tessy documents from Hitex (31 MB) - included in the complete distribution CD-ROM

V2.9.7XX 다운

인터넷 | 보호 모드: 해제 | 100%

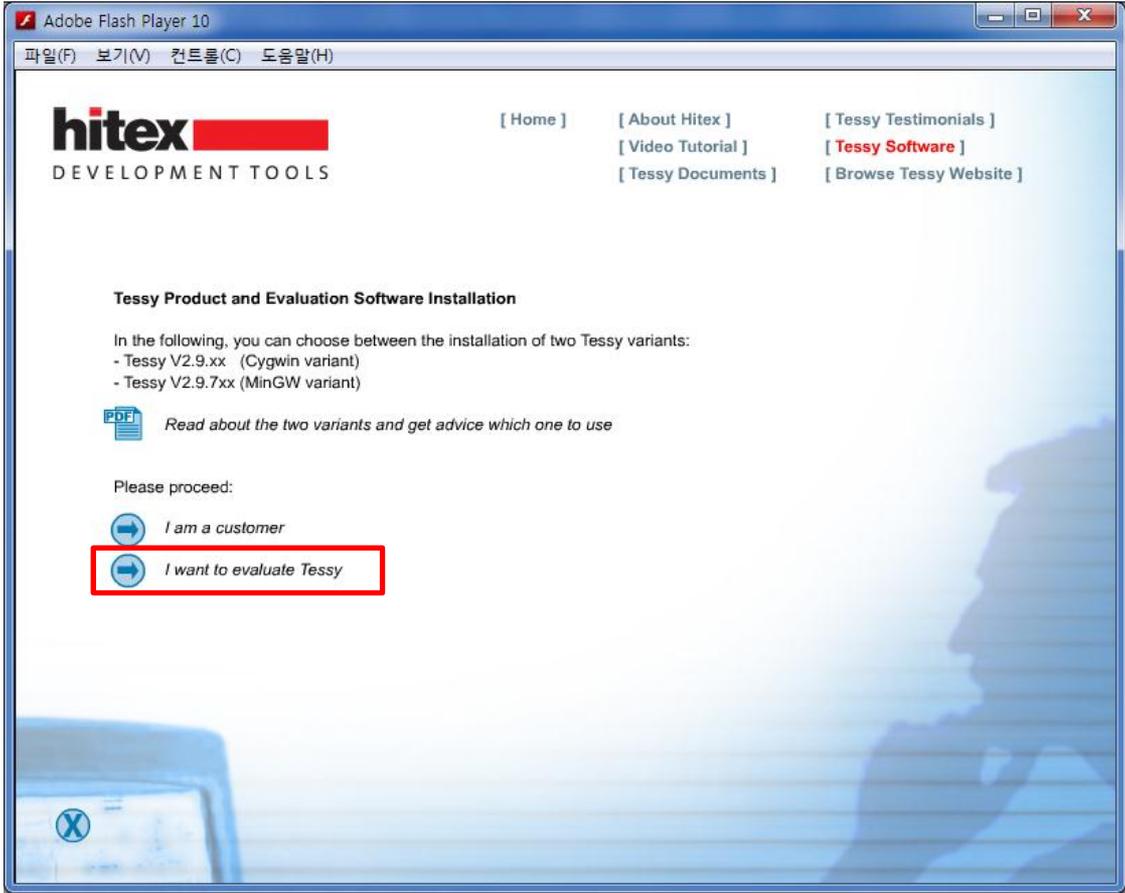
Install Tessy

Tessy Install



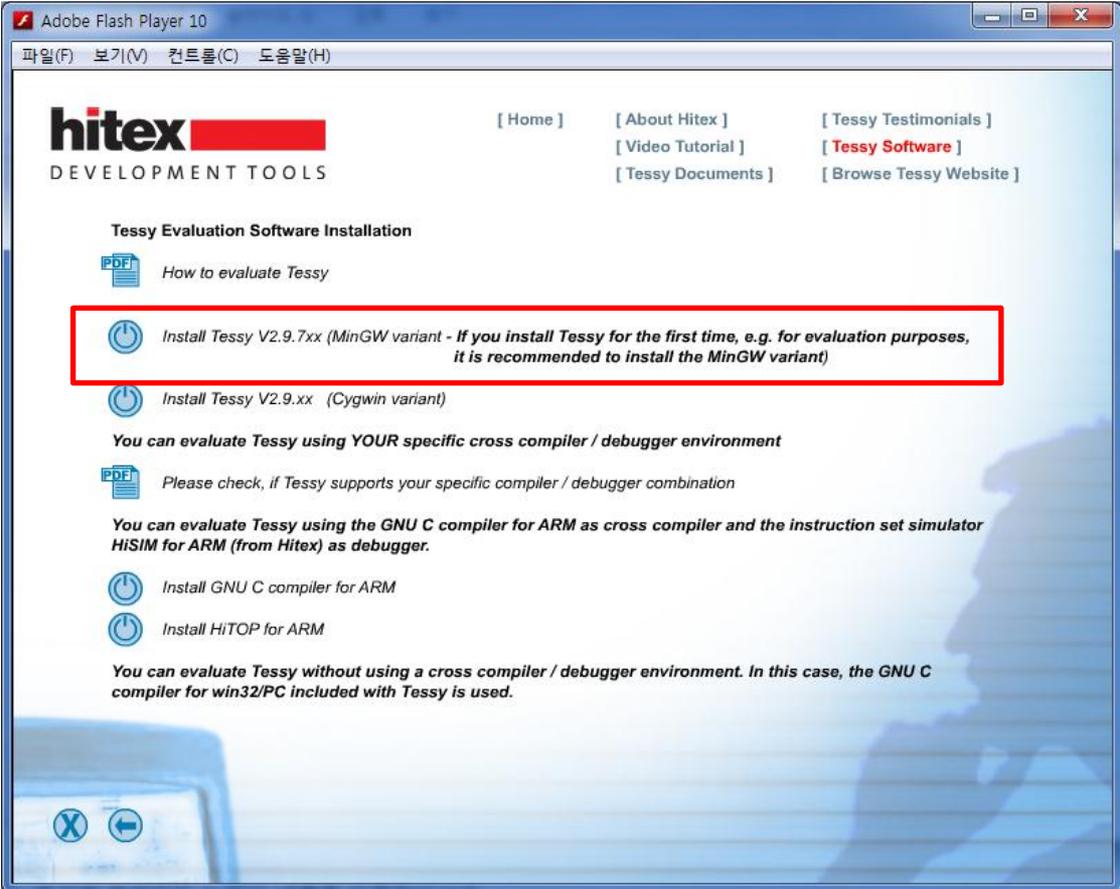
Install Tessy

Tessy Install



Install Tessy

Tessy Install



Adobe Flash Player 10

파일(F) 보기(V) 컨트롤(C) 도움말(H)

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[Video Tutorial] [**Tessy Software**]
[Tessy Documents] [Browse Tessy Website]

Tessy Evaluation Software Installation

 [How to evaluate Tessy](#)

 **Install Tessy V2.9.7xx (MinGW variant - If you install Tessy for the first time, e.g. for evaluation purposes, it is recommended to install the MinGW variant)**

 [Install Tessy V2.9.xx \(Cygwin variant\)](#)

You can evaluate Tessy using YOUR specific cross compiler / debugger environment

 [Please check, if Tessy supports your specific compiler / debugger combination](#)

You can evaluate Tessy using the GNU C compiler for ARM as cross compiler and the instruction set simulator HiSIM for ARM (from Hitex) as debugger.

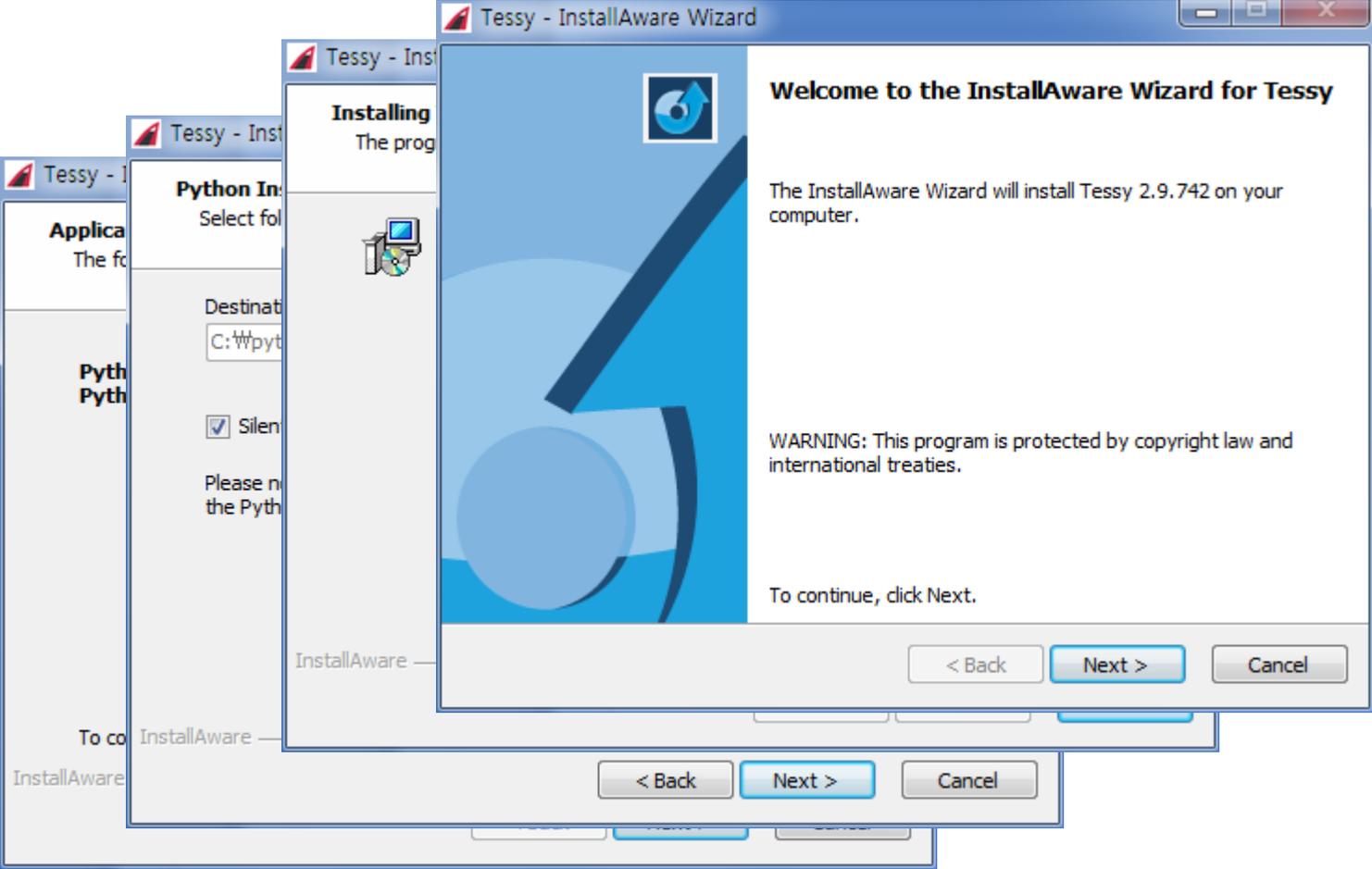
 [Install GNU C compiler for ARM](#)

 [Install HiTOP for ARM](#)

You can evaluate Tessy without using a cross compiler / debugger environment. In this case, the GNU C compiler for win32/PC included with Tessy is used.

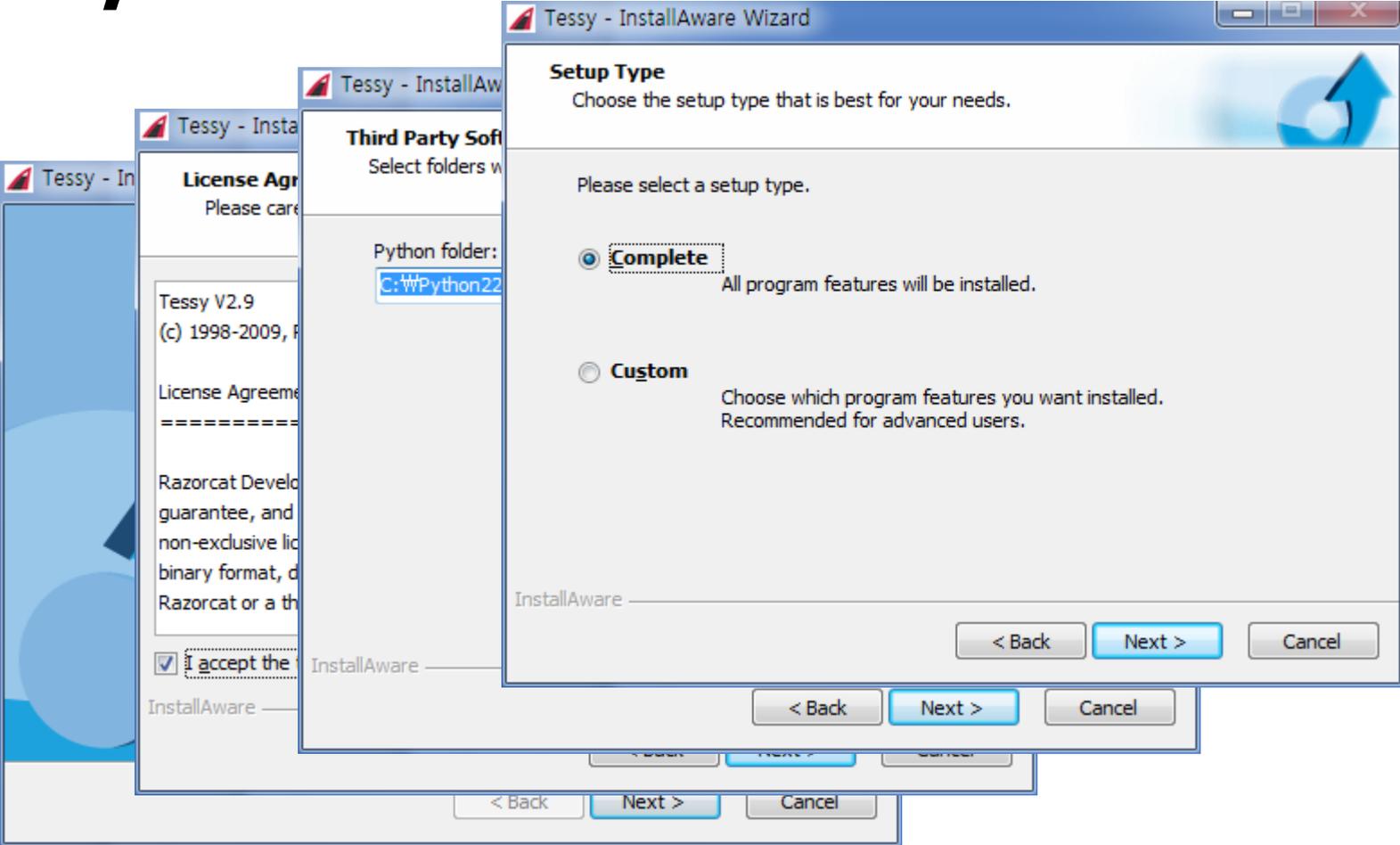
Install Tessy

Tessy Install



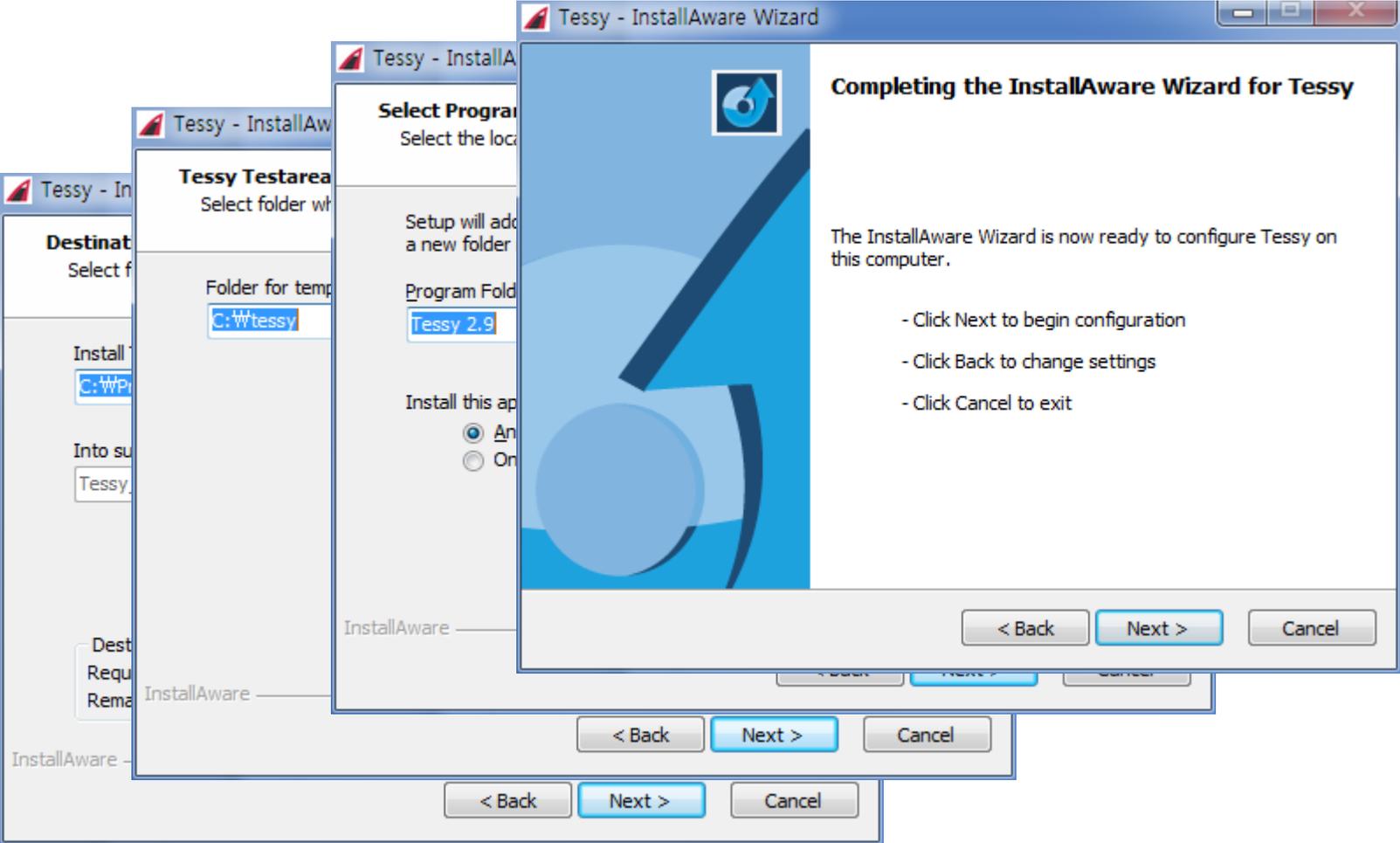
Introduce MC/DC Tools

Tessy Install



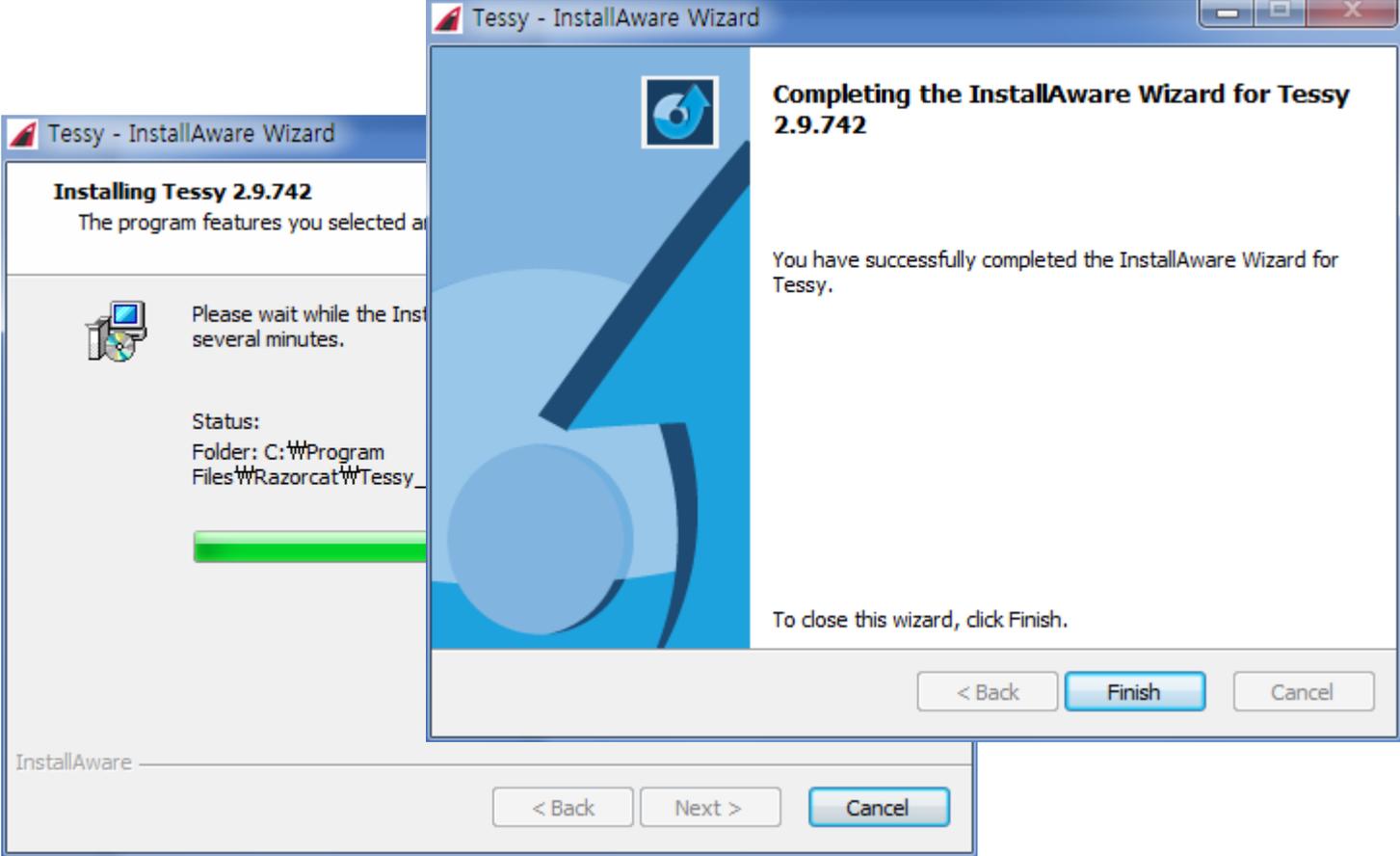
Introduce MC/DC Tools

Tessy Install



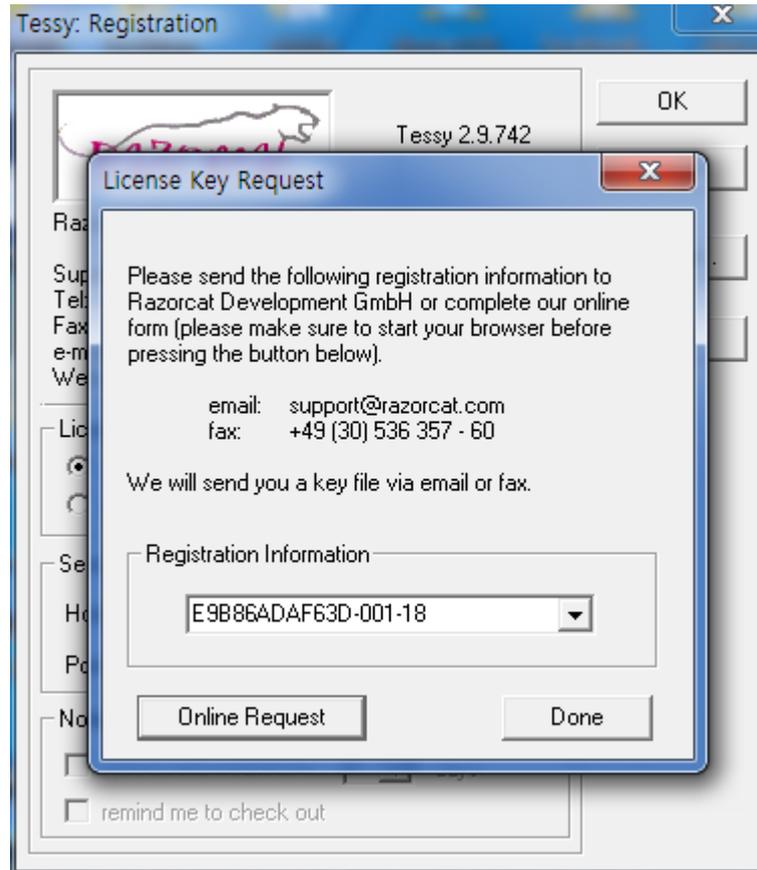
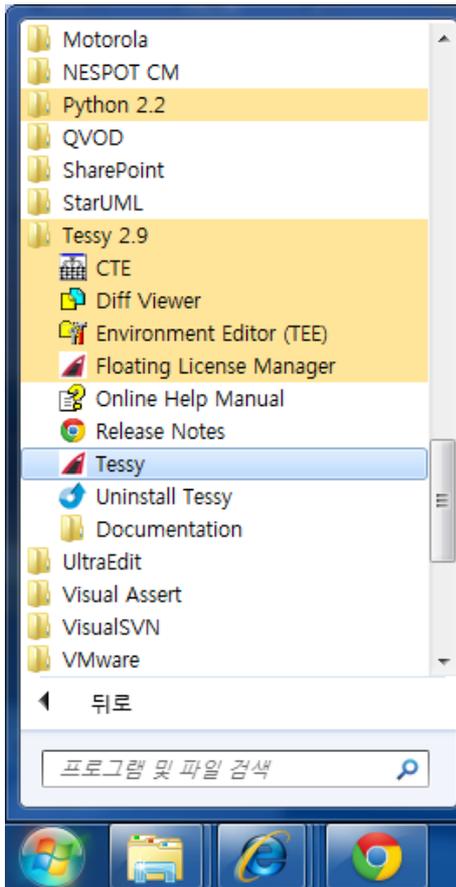
Install Tessy

Tessy Install



Install Tessy

Tessy Registration



Install Tessy

Tessy Registration

Google 번역 x Razorcat Development Gr x

www.razorcat.com/cgi-bin/key_form.cgi?setHostID=1;hostid=E9B86ADAF63D-001-18

이 페이지는 영어 로 되어 있습니다. 번역하시겠습니까? 번역 번역 안함 영어 번역 안함 옵션 x

(1) Registration Information

Key :*

The registration information will be automatically inserted, if you request a license key within CTE/Tessy as follows:

If you start Tessy/CTE the first time, the **Registration** dialog will popup automatically (or choose **Register...** from the help menu). Within the Register dialog click **License...** and then **Online Request**. This will direct you to this registration page.

Alternatively, either copy and paste the registration information from the Register dialog in the **Key** field or send an email to support@razorcat.com.

(2) Contact Information

Lastname:*

Firstname:*

Department:

Company:*

E-Mail:*

Phone:*

Fax:

Important note:
If you wish to receive a time limited license, your email address must be an email address with a domain url that originates from a company or from an educational institution.

(3) Address

Country:*

State:

City:*

ZIP Code:*

Street:*

Install Tessy

Tessy Registration

네이트 메일 - Windows Internet Explorer
http://mail3.nate.com/?go_url=NateMailMgr.php%3Fact%3Dlistmail%26box%3DINBOX

즐거찾기 네이트 메일

- 청구서함 관리
- 보낸메일함 ✓수신확인
- 임시보관함
- 스팸메일함 4 비움
- 휴지통 180 비움
- 외부메일 가져오기
- 환경설정 | 도움말
- 마일리지 조회하기 -
- ▶ 네이트 메일 서비스 개편 안내
- ▶ 140.8MB / 30GB (0%) 관리 UP

신디안 받아도 무료선물증정 확인 >

License Key Request 관련메일보기

받은 날짜 2011년 06월 08일 19시 29분 41초
보낸 사람 Razorcat Support Team <support@razorcat.com> 주소추기 | 수신차단
받는 사람 wkdrldnd09@nate.com
첨부파일 like.dat (1KB) 저장 | 삭제

Dear Customer,

attached please find your registration key. This key is valid 10 days for our products CTE and Tessy. The evaluation license is valid from the point in time you receive it.

Please save the file to your local disk. You will be prompted for this file after finishing the registration dialog within Tessy or CTE. You may also copy the file directly into the installation directory under ..\Razorcat\Wls\win.

Note: In case that this e-mail has no license file attached, please look at the end of this e-mail. Some e-mail programs paste the text of the license file at the end of an e-mail.

The license key looks as follows (the key below is an example):
173e2ca39fee2c899d8f6b15dbaa4312e7

Create a text file like.dat and copy and paste the license key in this file.

In all other cases, please contact support@razorcat.com
Click below to download the most current version of Tessy:
<http://www.razorcat.com>

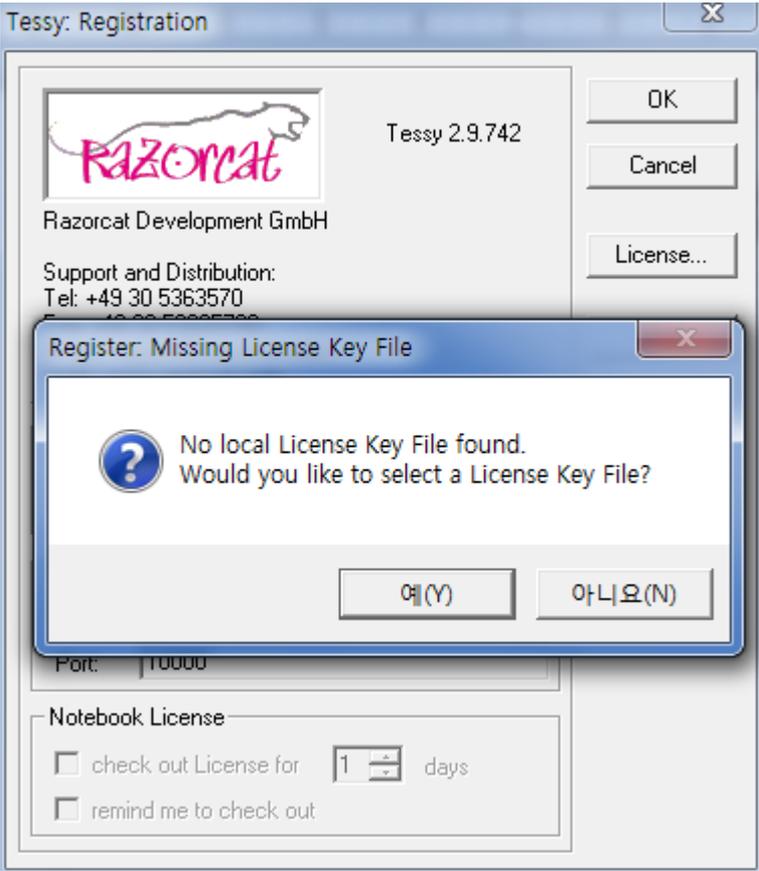
We are looking forward to receiving your positive reaction.
Sincerely,
The Razorcat Team

답장 전체답장 전달 ✕ 삭제 완전삭제 스팸신고 메일이동 추가기능

인터넷 | 보호 모드: 해제 100%

Install Tessy

Tessy Registration



Test Example1

Target Code

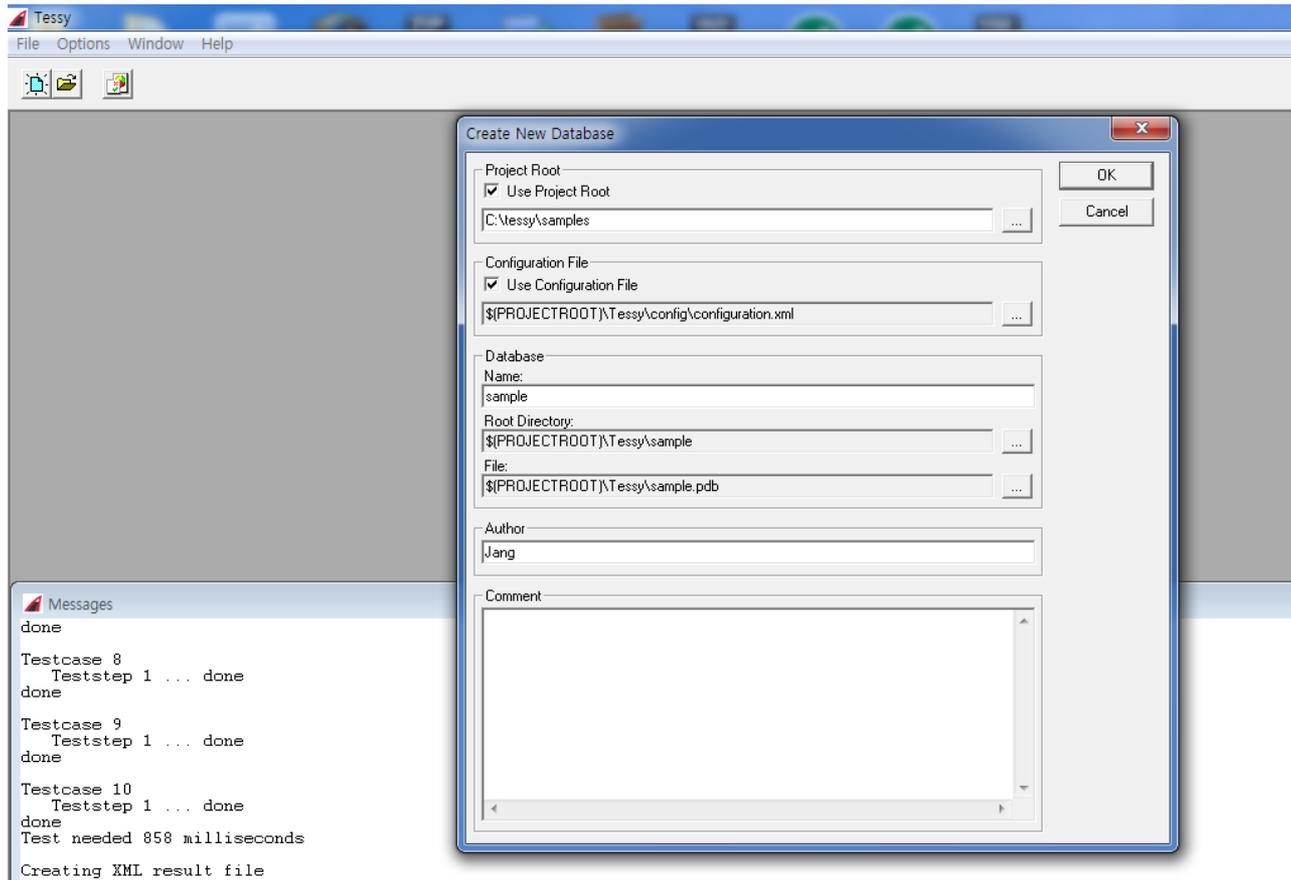
```
struct range {int range_start; int range_len;};
typedef int value;
typedef enum {no, yes} result;
result is_value_in_range (struct range r1, value v1)
{
    if (v1 < r1.range_start)
        return no;

    if (v1 > (r1.range_start + r1.range_len))
        return no;

    return yes;
}
```

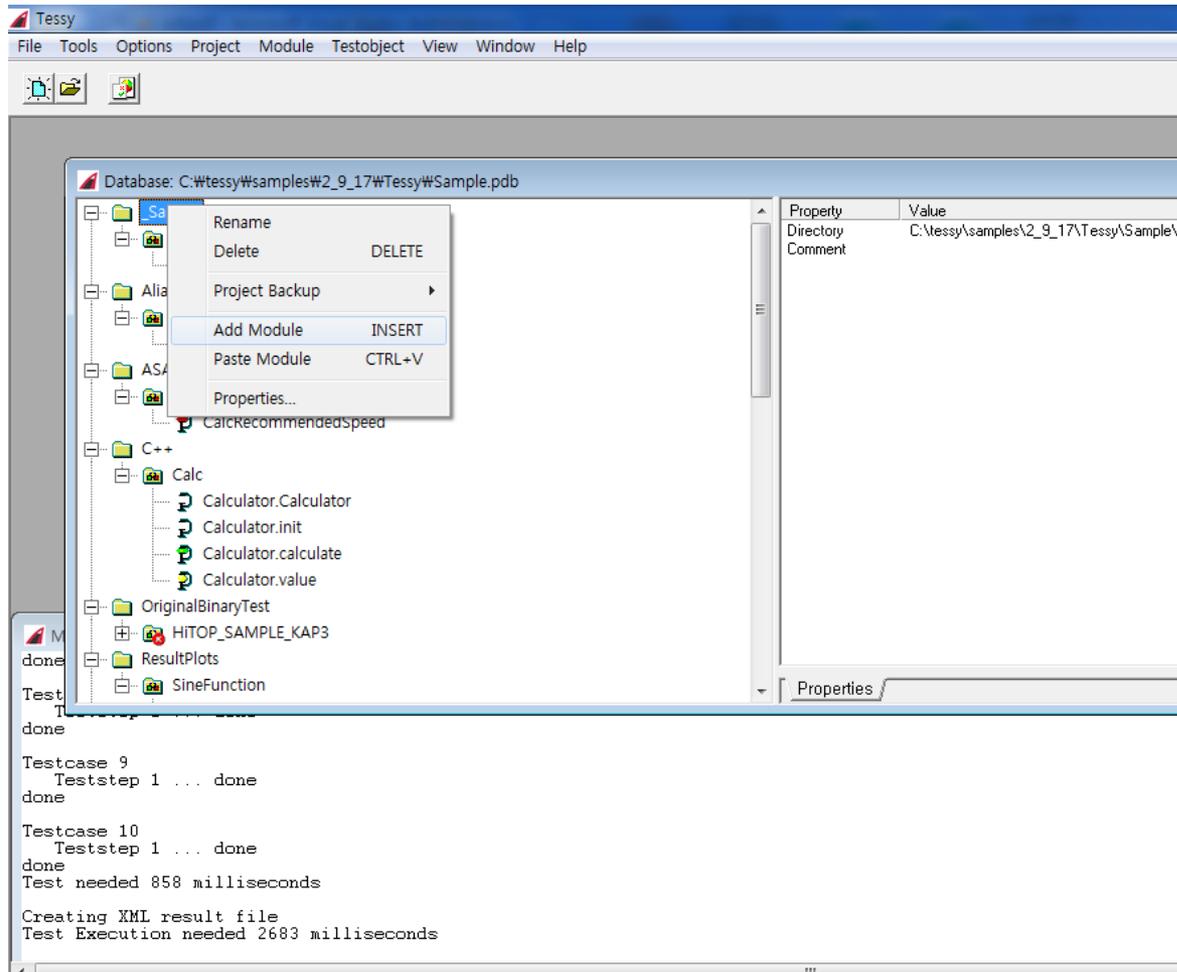
Test Example1

Test Database Create



Test Example1

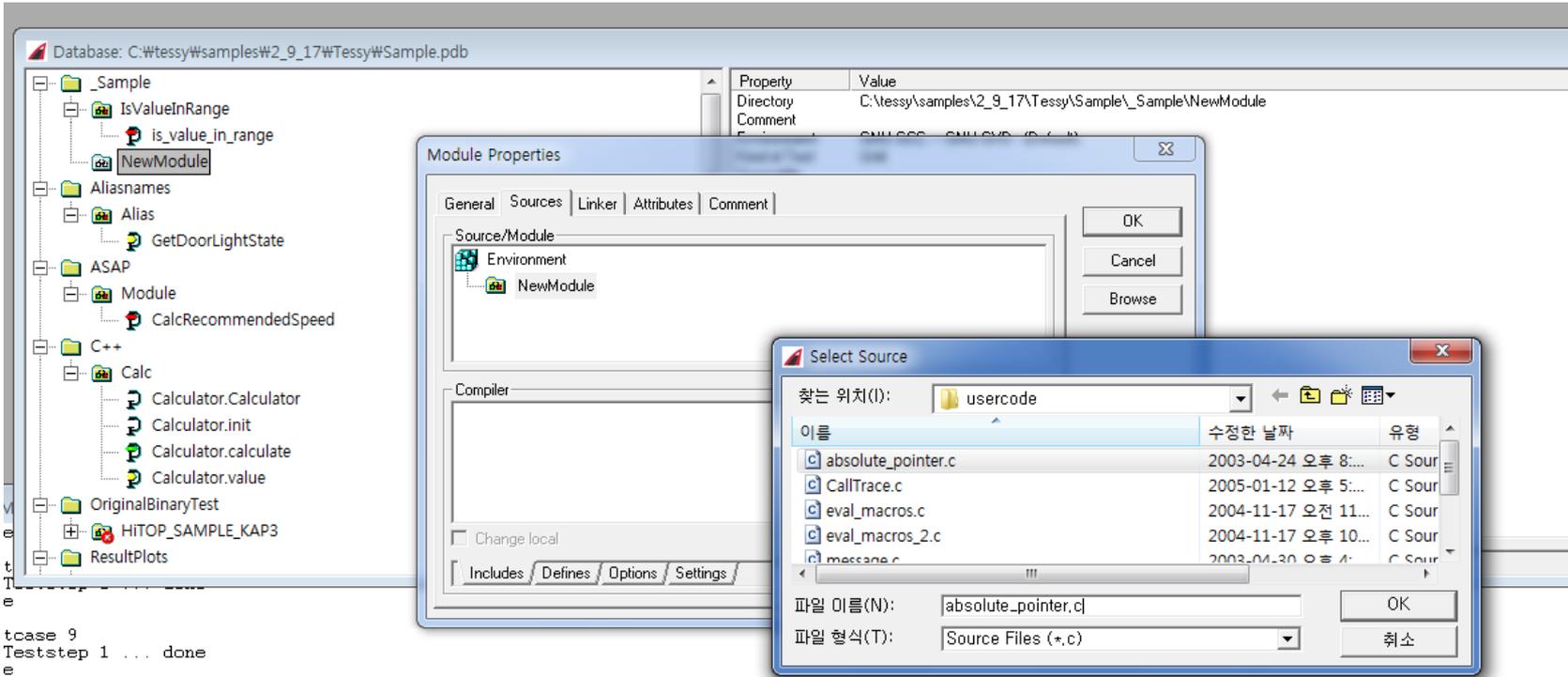
Test Module Addition



Test Example1

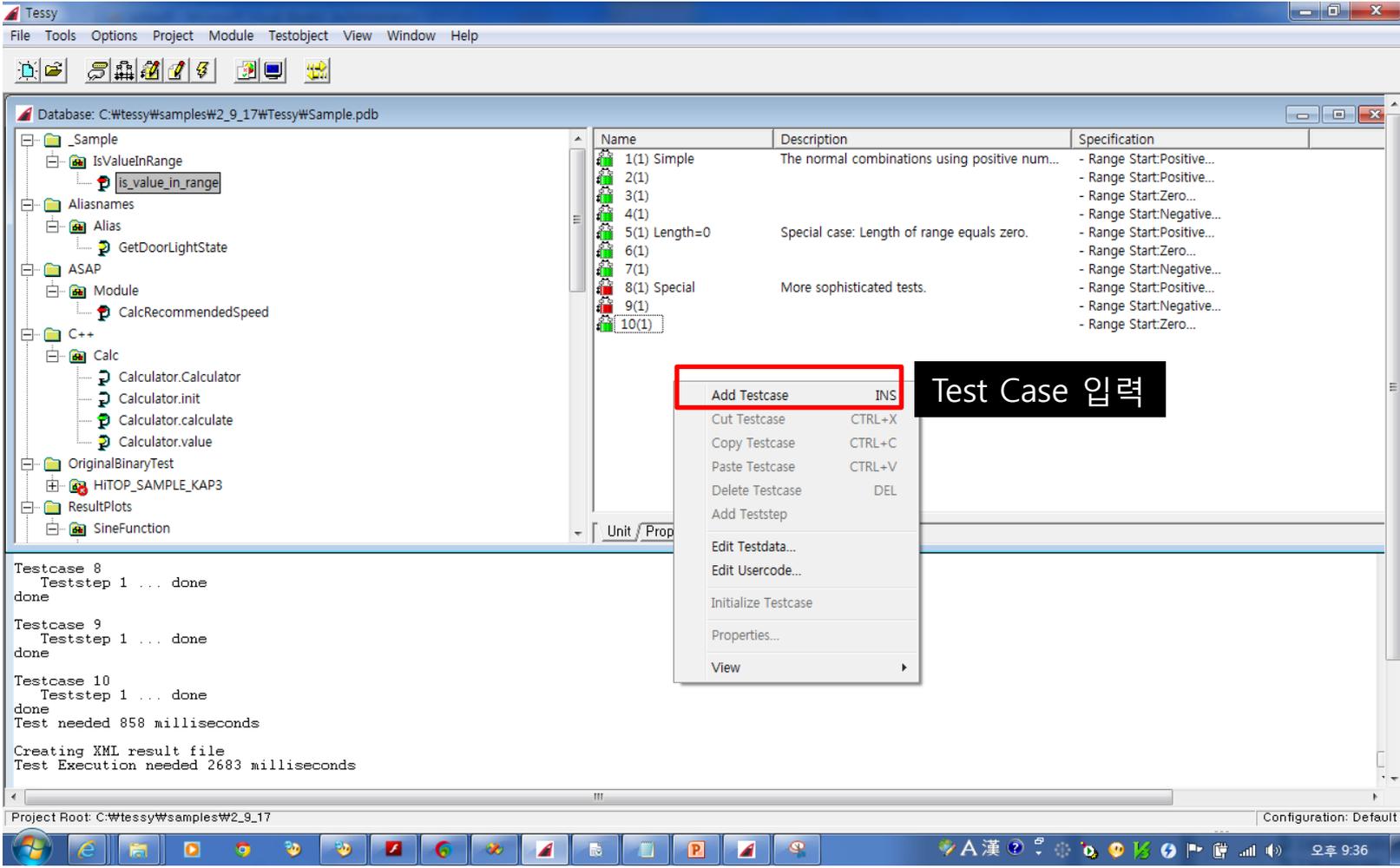
Target Source Selection

Right click “Module” – properties - Sources – Select Target Source



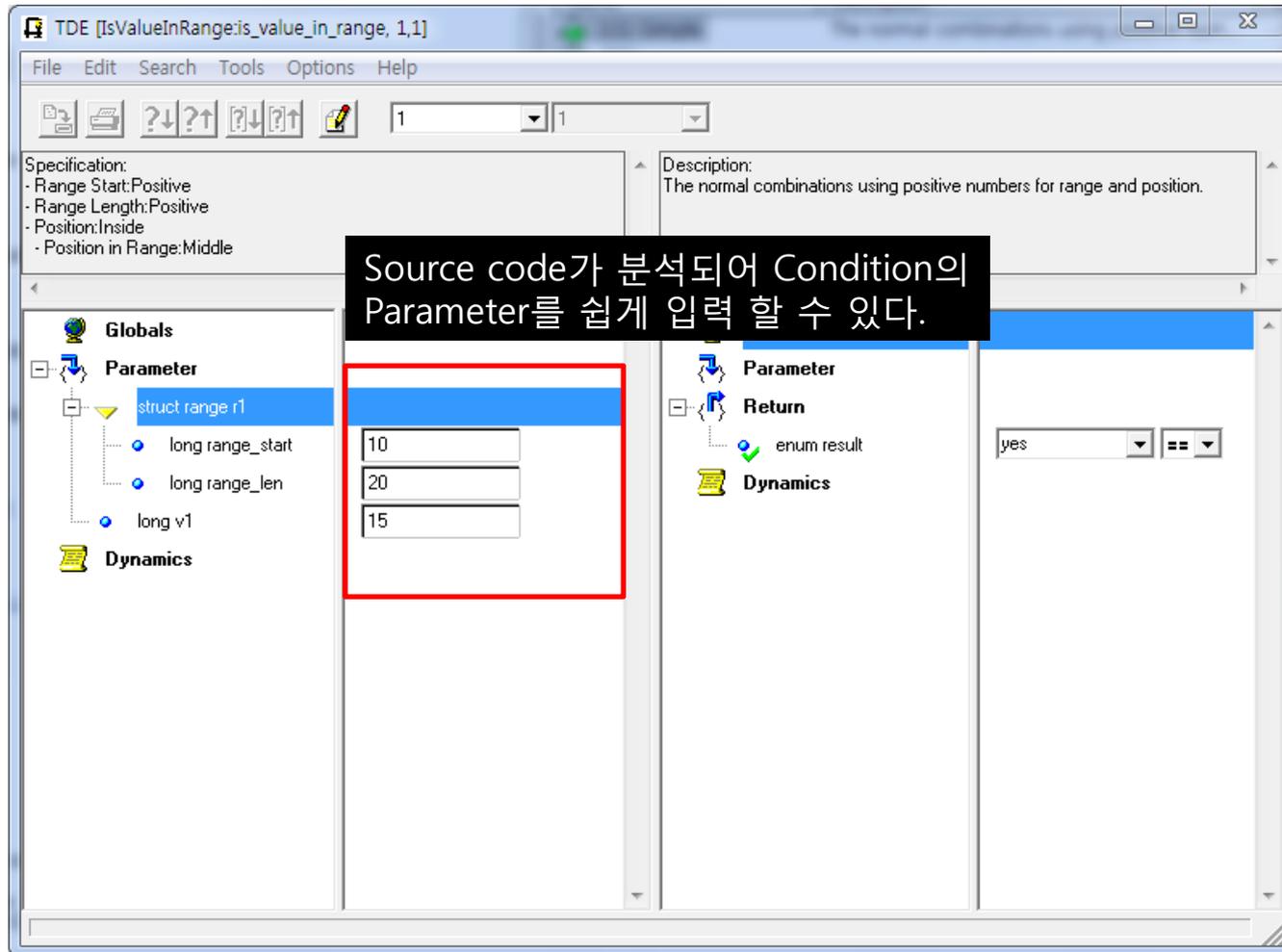
Test Example1

Test case Create



Test Example1

Test case Create



Test Example1

Test case Create

	range_start	range_len	v1	result
case1	3	5	20	no
case2	10	20	15	yes
case3	0	5	5	yes
case4	-13	10	-12	yes
case5	50	0	60	no
case6	0	0	-1	no
case7	-7	0	-7	yes
case8	42	-50	20	yes
case9	-42	-10	-43	yes
case10	0	-20	1	no

Test Example1

Test Case Execution

The screenshot shows the Tessy software interface. The 'Execute Test' button in the toolbar is highlighted with a red box. The main window displays a tree view of test cases and a table of test results. The bottom panel shows the execution log.

Name	Description	Specification
1(1) Simple	The normal combinations using positive num...	- Range Start:Positive...
2(1)		- Range Start:Positive...
3(1)		- Range Start:Zero...
4(1)		- Range Start:Negative...
5(1) Length=0	Special case: Length of range equals zero.	- Range Start:Positive...
6(1)		- Range Start:Zero...
7(1)		- Range Start:Negative...
8(1) Special	More sophisticated tests.	- Range Start:Positive...
9(1)		- Range Start:Negative...
10(1)		- Range Start:Zero...

```
Testcase 8
  Teststep 1 ... done
done

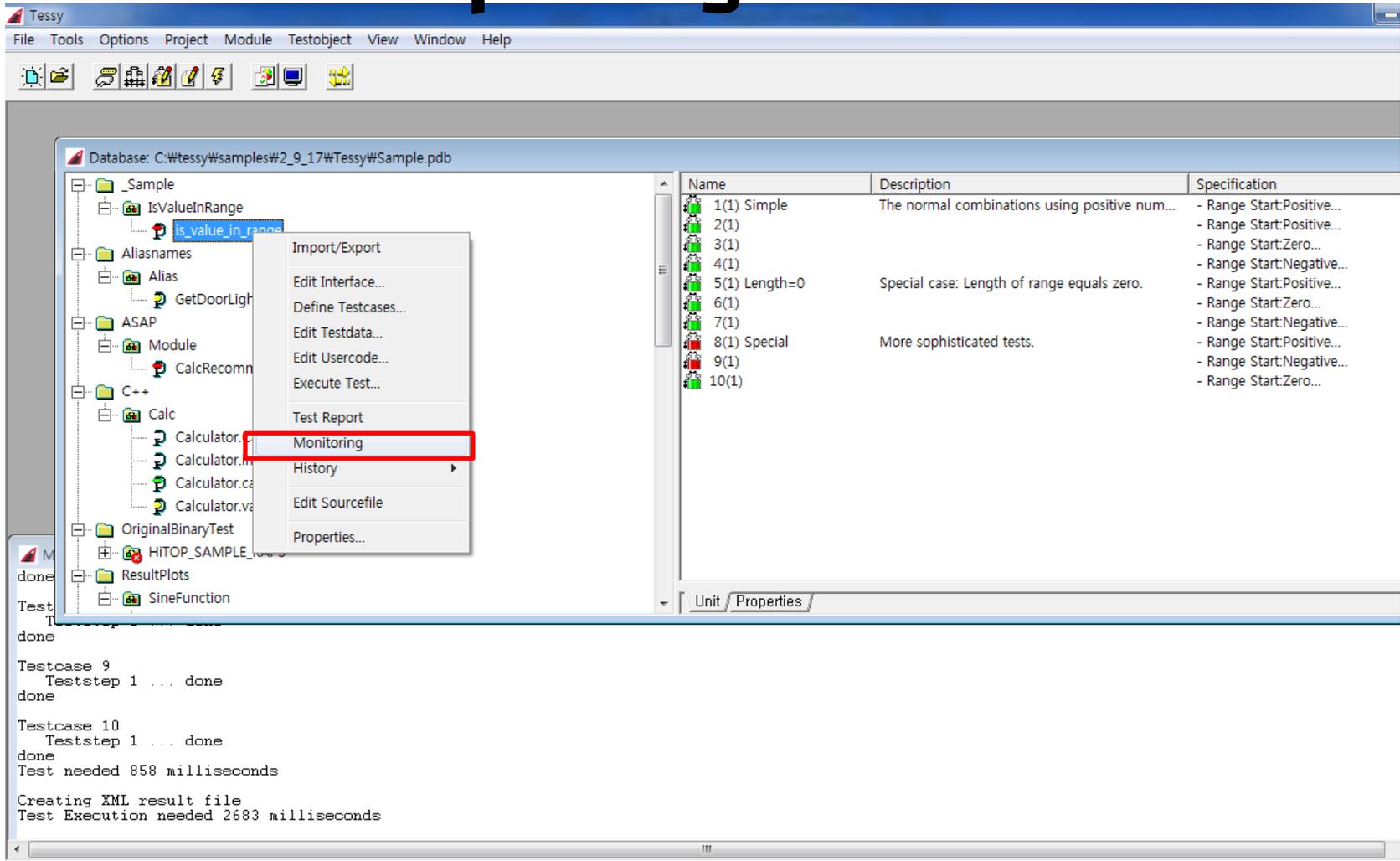
Testcase 9
  Teststep 1 ... done
done

Testcase 10
  Teststep 1 ... done
done
Test needed 858 milliseconds

Creating XML result file
Test Execution needed 2683 milliseconds
```

Test Example1

Test Result Reporting



Test Example1

MC/DC Coverage Report

The screenshot displays the TESSY Coverage Viewer interface. On the left, the 'Called Functions' table shows 'is_value_in_range' with green checkmarks in the C1, MC/..., and MCC columns. The central pane shows a flowchart with two decision diamonds, the top one highlighted in green. On the right, the 'MC/DC-Coverage' window shows 100.00% coverage with a table of test steps. Below it, the 'C1-Coverage' window shows 0.00% total coverage with a table of test cases. At the bottom, the source code for 'is_value_in_range' is shown, with the first 'if' statement highlighted in red.

해당 Decision을 지나는 Test Case를 보여줌

특정 Decision 클릭 시

Coverage: 100.00%	
(v1 < r1.range_start)	Teststep
0	1.1
1	6.1

Total Coverage: 0.00%	
Testcase / Teststep	Coverage
1 (1)	50.00 %
2 (1)	50.00 %
3 (1)	50.00 %
4 (1)	50.00 %
5 (1)	50.00 %
6 (1)	25.00 %

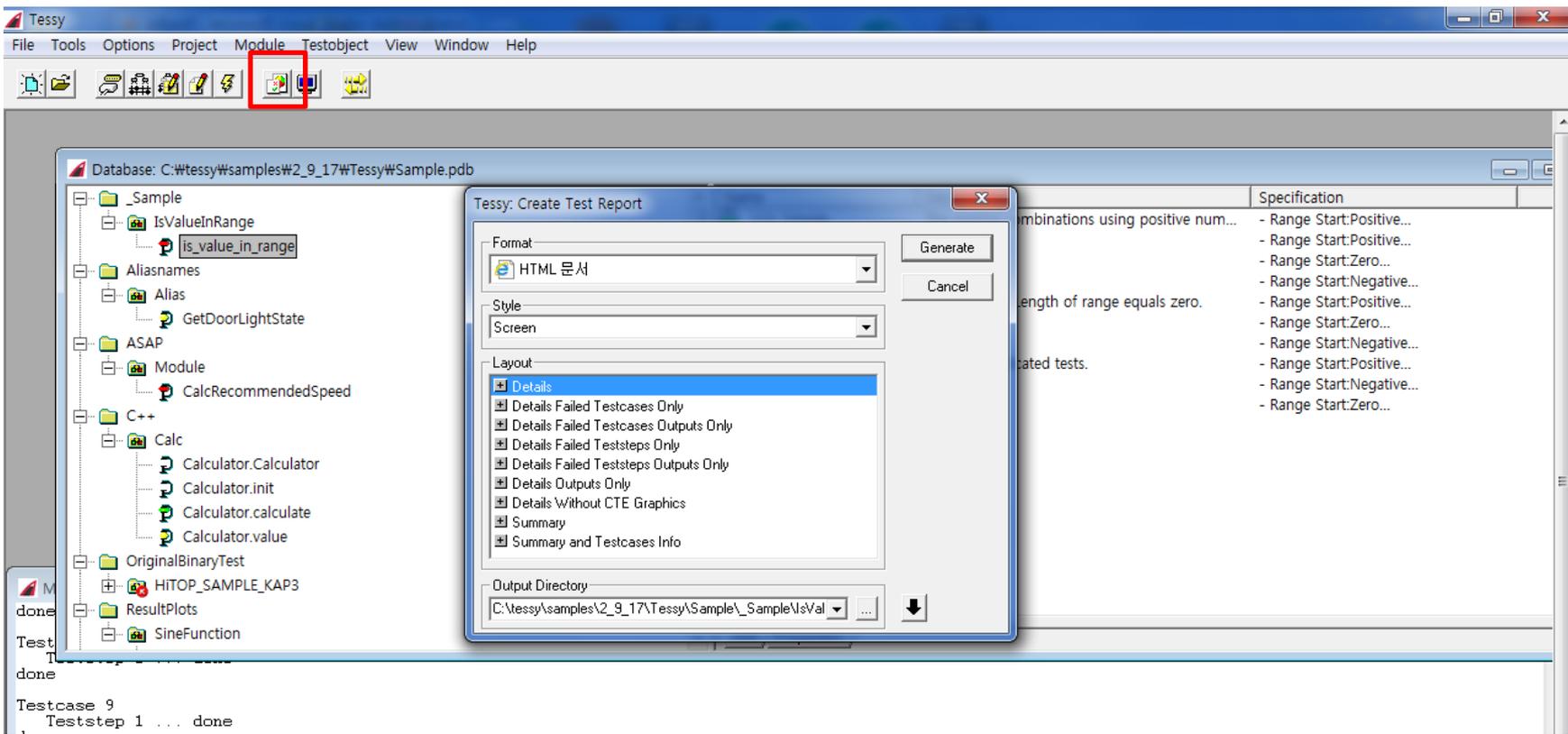
```
result is_value_in_range (struct range r1, value v1)
{
  if (v1 < r1.range_start)
    return no;

  if (v1 > (r1.range_start + r1.range_len))
    return no;

  return yes;
}
```

Test Example1

MC/DC Coverage Report



Test Example1

HTML Report(Overview)

The screenshot shows a web browser window displaying a Test Report for 'Tessy V2.9.742'. The browser's address bar shows the file path: C:\tessy\samples\#2_9_17\Tessy\Sample\Sample\IsValueInRange\report\ts_is_val... The browser's address bar also shows several tabs for 'test wo...' and 'Test Re...'. The browser's search bar contains 'test wo...'. The browser's toolbar shows various icons for file operations, search, and navigation. The browser's status bar shows 'Test Report' and '100%'. The report itself is titled 'Test Report' and 'Tessy V2.9.742'. It features a 'Menu' on the left side with a list of testcases (Testcase 1 to Testcase 10) and a 'Goto Top' link. The main content area is divided into several sections: 'Project' details (Project: _Sample, Module: IsValueInRange, Testobject: is_value_in_range, User: Jang, Host: localhost, Date: 06/09/2011, Time: 20:51:58), 'Statistics' (Total Testcases: 10, Successful: 8, Failed: 8.1 9.1, Not Executed: 0), 'Module Properties' (PDB File: C:\tessy\samples\2_9_17\Tessy\Sample.pdb, Configuration: Default, Directory: C:\tessy\samples\2_9_17\Tessy\Sample\Sample\IsValueInRange, Target Environment: GNU GCC --- GNU GVD - (Default), Kind of Test: Unit Test), and 'Attributes' (Name: CTE File, Value: \$(MODULEPATH)_database_tdb\00000001\is_value_in_range.cte). The report also includes a 'Testcase Definition' section at the bottom. The browser's status bar shows 'Test Report' and '100%'. The browser's toolbar shows various icons for file operations, search, and navigation. The browser's address bar shows the file path: C:\tessy\samples\#2_9_17\Tessy\Sample\Sample\IsValueInRange\report\ts_is_val... The browser's address bar also shows several tabs for 'test wo...' and 'Test Re...'. The browser's search bar contains 'test wo...'. The browser's toolbar shows various icons for file operations, search, and navigation. The browser's status bar shows 'Test Report' and '100%'. The report itself is titled 'Test Report' and 'Tessy V2.9.742'. It features a 'Menu' on the left side with a list of testcases (Testcase 1 to Testcase 10) and a 'Goto Top' link. The main content area is divided into several sections: 'Project' details (Project: _Sample, Module: IsValueInRange, Testobject: is_value_in_range, User: Jang, Host: localhost, Date: 06/09/2011, Time: 20:51:58), 'Statistics' (Total Testcases: 10, Successful: 8, Failed: 8.1 9.1, Not Executed: 0), 'Module Properties' (PDB File: C:\tessy\samples\2_9_17\Tessy\Sample.pdb, Configuration: Default, Directory: C:\tessy\samples\2_9_17\Tessy\Sample\Sample\IsValueInRange, Target Environment: GNU GCC --- GNU GVD - (Default), Kind of Test: Unit Test), and 'Attributes' (Name: CTE File, Value: \$(MODULEPATH)_database_tdb\00000001\is_value_in_range.cte). The report also includes a 'Testcase Definition' section at the bottom.

Test Example 1

HTML Report(MC/DC)

Testcase Definition

This example was originally created by Frank Böhner, Hitex.

```
graph TD; A[is_value_in_range] --> B[Range Start]; A --> C[Range Length]; A --> D[Position]; B --> B1[Positive]; B --> B2[Negative]; B --> B3[Zero]; C --> C1[Positive]; C --> C2[Negative]; C --> C3[Zero]; D --> D1[Inside]; D --> D2[Outside]; D1 --> D1a[Position in Range]; D1a --> D1a1[Middle]; D1a --> D1a2[Upper Border]; D1a --> D1a3[Lower Border]; D2 --> D2a[Where?]; D2a --> D2a1[Above]; D2a --> D2a2[Below];
```

1: Simple
2:
3:
4:
5: Length=0
6:
7:
8: Special
9:
10:

Testcase 1 : Simple

Test Example1

HTML Report(Test Detail)

The screenshot shows a web browser displaying an HTML test report. The report is titled "Testcase 1 : Simple" and contains three test cases. Each test case includes a description, a specification, and a table of test steps with input values and results.

Testcase 1 : Simple

Description: The normal combinations using positive numbers for range and position.

Specification:

- Range Start:Positive
- Range Length:Positive
- Position:Inside
- Position in Range:Middle

Teststep 1.1				
Name	Input Value			
r1.range_start	10			
r1.range_len	20			
v1	15			
Name	Actual Value	Eval	Expected Value	Result
is_value_in_range	yes	==	yes	✓

Testcase 2

Specification:

- Range Start:Positive
- Range Length:Positive
- Position:Outside
- Where?:Above

Teststep 2.1				
Name	Input Value			
r1.range_start	3			
r1.range_len	5			
v1	20			
Name	Actual Value	Eval	Expected Value	Result
is_value_in_range	no	==	no	✓

Testcase 3

Test Example2

Test Result

The screenshot displays the TESSY Coverage Viewer interface for the file `communication_handler.c`. The main window shows a control flow graph with nodes and edges, and a table of called functions.

Function	C1	MC/...	MCC
communication_ha			
send_bytes			

The C1-Coverage summary shows a total coverage of 91.67% across six testcases/step combinations:

Testcase / Teststep	Coverage
1 (1)	33.33 %
2 (1)	33.33 %
3 (1)	16.67 %
4 (1)	16.67 %
5 (2)	41.67 %
6 (3)	58.33 %

The summary report at the bottom provides the following details:

```
.....
* MODULE                Statics
* TESTOBJECT            communication_handler
* MODE OF INSTRUMENTATION testobject and called functions
* TESSY VERSION         2.9.742
* DATE OF INSTRUMENTATION 09.06.2011 20:10:04
* MC/DC-COVERAGE       71.43 %
* DECISIONS            7
* UNREACHED DECISIONS 0
* REACHED DECISIONS    7
* SOURCE (C)
.....
```

A small advertisement for NATEO GROUPON is visible in the bottom right corner of the window.

Test Example2

Test Result

Test Report
Tessy V2.9.742

Statistics

Total Testcases :	9
Successful :	4
Failed : 4.1 5.2	2
Not Executed :	3

Project: StaticLocals
Module: Static
Testsubject: communication_handler

User: Jang
Host: localhost
Date: 06/10/2011
Time: 00:00:44

C1-Coverage: 73.91 %
MCC-Coverage: 71.43 %
MC/DC-Coverage: 71.43 %

Module Properties

PDB File: C:\tessy\samples\2_9_17\Tessy\Sample.pdb
Configuration: Default
Directory: C:\tessy\samples\2_9_17\Tessy\Sample\StaticLocals\Statics
Target Environment: GNU GCC --- GNU GVD - (Default)
Kind of Test: Unit Test

Source Files / Compiler Options:
\$(PROJECTROOT)\source\static_locals\static_locals.c

Usercode

Stub Functions: [yyy_get_raw_data](#), [xxx_get_raw_data](#), [pack_yyy_data](#), [pack_xxx_data](#)

Extension Study

CI Server와의 연동 가능성

HTML포맷 Report를 Hudson에 연동시키는 방식으로 CI 서버에서 Report를 띄우는 방법도 가능

Visual Studio와의 연동 가능성

Visual Studio Addin 형식으로는 적용이 불가능하지만 Visual Studio의 프로젝트코드를 테스트 하는 형식으로 연결 하는 것은 가능

다른 Coverage Report산출 가능성

Test Case 작성에따라 Coverage 형태를 다르게 하여 Report를 산출 하는 것이 가능