

Distributed NetBeans for OpenVMS Version 7.0.1 Quick Start Guide

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1 Introduction

Distributed NetBeans for OpenVMS is a plug-in to the standard NetBeans that allows you to edit, build, execute, and debug programs on an OpenVMS system on the network.

This guide describes how to set up and configure the Distributed NetBeans client on Windows, and how to create an OpenVMS 3GL project and a Java project using the Distributed NetBeans client.

To set up the Distributed NetBeans client for OpenVMS on Windows, the following installation must be performed:

 Install the latest Java JDK Version 5.0 Update 14 or later. You can download and install Java JDK from the following web address: <u>http://java.sun.com/javase/downloads/index_jdk5.jsp</u>

Note: JSE v 1.6-04 is not supported)

- Install NetBeans Integrated Development Environment (IDE) Version 6.5 for Windows, which is an open-source on the Windows client). You can download and install NetBeans IDE Version 6.5 from the following web address: <u>http://netbeans.org/downloads/6.5/index.html</u>
- Install the Distributed NetBeans Client for OpenVMS, which is a plug-in for NetBeans running on your desktop. You can download and install the Distributed NetBeans Client Module (.nbm file) from the following web address: http://h71000.www7.hp.com/openvms/products/ips/netbeans/distnb_files.html

Prerequisites

For information about hardware and software prerequisites, see the *Distributed NetBeans for OpenVMS Installation Guide and Release Notes*:

http://h71000.www7.hp.com/openvms/products/ips/netbeans/docs/DISTNETBEANS_IGUIDE_RELNO TES.HTML#before

2 Using the Distributed NetBeans Client

This section addresses the following topics:

- Adding and Connecting to a Remote IDE Server
- Creating an OpenVMS 3GL Project
- Creating a Java Project
- Creating a WSIT Project

2.1 Adding and Connecting to a Remote IDE Server

Before creating a remote project, we need a process on the remote OpenVMS machine which will act on our behalf to execute DCL commands, etc. This process is called as "Remote IDE Server". You create this Remote IDE Server from within the IDE. The Remote IDE Server you create will be a detached process running in your user account on OpenVMS. The Remote IDE Server will make a connection back to the Distributed NetBeans client in the IDE using Java's RMI (Remote Method Invocation) services. To add or connect the remote IDE server on an OpenVMS system, follow these steps:

- 1. In the NetBeans IDE window, select the **Services** tab.
- 2. Right-click **Remote IDE Servers** and select **Add Remote IDE Server**. The **Add Remote IDE Server** dialog box is displayed.

Projects	Files	Services	4 0 ×
🕀 🛄 Serv	abases /ers lote IDE Servers Explore From Here		
	Add Remote IDE Server		
	Remote IDE Server Statu	IS	
	Remote IDE Server Diagr	iostics	

3. Enter the Host Name/IP Address, User Name, and Password information of the OpenVMS system you are adding and click **OK** to close the dialog box and return to the NetBeans IDE window.

system

1099
120

4. The **Remote IDE Server** is automatically connected. The connection icon ^{**} turns yellow when the connection is in progress, then green to show that you are connected to the remote server.

Projects	Files	Services	4 0 ×
🗉 📄 Databases			
🗄 📗 Servers			
🖃 📲 Remote IDE	Servers		
	ind.hp.com:system		
🗄 📲 FTP Filesyste	ems		

Section 2.2 explains how to create an OpenVMS 3GL application project on the remote OpenVMS system.

2.2 Creating an OpenVMS 3GL Project

In NetBeans 6.5, you must create a project to work with files on the remote OpenVMS system. Your project can be a Java project or an OpenVMS 3GL application project.

The OpenVMS 3GL project type is useful for OpenVMS applications that are written in 3GL languages instead of Java. This project type allows you to map an OpenVMS source directory to a directory on your desktop. It also allows you to edit and compile files written in the following 3GL languages:

- C/C++
- Cobol
- Fortran
- Basic
- Pascal

To create an OpenVMS 3GL project from the Distributed NetBeans client, follow these steps:

- 1. In the NetBeans IDE window, select the **Projects** tab.
- 2. Select File > New Project. The New Project wizard is displayed.
- 3. Select **OpenVMS Remote Applications**, and click **Next**.

Steps	Choose Project	
I. Choose Project	Categories: OpenVMS Remote Applications Java Java Web Java KE Java ME PHP Ruby Groovy Groovy Metheans Modules Samples	Projects: OpenVMS 3GL Application
~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	Description: Creates a basic remote project	

The New OpenVMS 3GL Application dialog box is displayed. Enter the "Project Name" and click Next.

New OpenVMS 3GL Application	on		×
Steps	Project Name		
<ol> <li>Choose Project</li> <li>Project Name</li> <li>Remote IDE Server Chooser</li> <li>Setup the Remote File System or Archive</li> <li>Setup the Remote File System for Source Directory(s)</li> </ol>	Project <u>N</u> ame:		
		< Back Next > Einish Cancel Help	

4. Select the name of the **Remote IDE Server** from the drop-down menu and click **Next**. The **New OpenVMS 3GL Application** dialog box is displayed.

New OpenVMS 3GL Applicati	on			X
Steps	Remote IDE Server Chooser			
1. Choose Project 2. Project Name	Remote IDE Servers	Remote IDE Server Properties		
3. Remote IDE Server	ntbean.ind.hp.com:system 🛛 💌	Name	Value	
Chooser	P	Host Name	ntbean.ind.hp.com	
<ol> <li>Setup the Remote File System or Archive</li> </ol>		User Name	system	
5. Setup the Remote File System		Port Number	1099	
or Archive		JDK version	1.4.2	
<ol> <li>Setup the Remote File System for Source Directory(s)</li> </ol>		05	OpenVMS V8.3	
	Select the Remote IDE Server to perform remote operations on this file system. If no Remote IDE Server is listed on the Combo box, go to the Runtime Tab, ind 'Remote IDE Servers', and add desired Remote IDE Server			
		< Back	Next > Einish Cancel Help	

5. Select the remote file system type as **FTP based file system**. Click **Next** to view the **New OpenVMS 3GL Application** dialog box.

New OpenVMS 3GL Application				
Steps		Select the Remote File System or Archive		
1. 2.	Choose Project Project Name	Select the file system type		
3. 4.	Remote IDE Server Chooser Setup the Remote File	• FTP based file system		
5.	System or Archive Setup the Remote File System	Advanced Server or CIFS/Samba based shared network file system		
6.	or Archive Setup the Remote File System			
0.	for Source Directory(s)			

- 6. In the New OpenVMS 3GL Application dialog box, enter the following:
  - Remote FTP Directory Root Browse to select a remote default directory for the FTP filesystem root on the OpenVMS system. The Remote FTP Directory Root is the root directory that allows you to access and see your source files from the OpenVMS system. Usually, this will be your project directory. For example, USER\$:[NBUSER.NBTESTUSER].
  - Local FTP Directory Root Browse to select a Local FTP Directory Root to store copies of the files from the OpenVMS system. This directory will contain some or all of the files found in the remote FTP default directory.

Steps	Setup the Remote File System for Source Directory(s)			
Choose Project     Project Name     Remote IDE Server Chooser     Setup the Remote File System	Choose a directory on the Ope Remote FTP Directory Root	NVMS machine which the FTP Server will use as the root directory [NTBEANGCKA100:[NETBEANSUSER.NBTESTUSER]		
or Archive 5. Setup the Remote File System or Archive 6. Setup the Remote File	Choose a local storage directo			
System for Source Directory(s)	Local FTP Directory Root	C:\NBTESTUSER		
	If this will be a read-only filesy	stern, check this box		
	Read-Only			
	The default FTP TCP/IP port is	21. To use a different port for communications, specify it here		
	FTP Port 21			
	If the FTP port chosen is forwar	rded to an SSH tunnel, specify it here		
	FTP Port Forwarded			
	If passive FTP mode should be	e used, specify it here (recommended)		
	Passive FTP 🗹			
	Auto Sync will automatically ke	ep files on the client and server synchronized		
	Auto Sync 🗹			
		d, you can change the above properties (along with other properties) by right mouse e on NetBeans Filesystems Explorer. To add more source directories to your project th		
2000				

The following sections explain how to create a new C source file and a new DCL command procedure (.com) file on the remote OpenVMS system.

## 2.2.1 Creating a New C Source File

To create a new C source file in the *Test* project on the remote OpenVMS system, follow these steps:

- 1. From the main menu in NetBeans IDE, select **File > New File**. The **New File** dialog box is displayed. Alternately, you can right-click your project and select **New File**.
- 2. Click the plus sign (+) next to OpenVMS C/C++ listed under Categories and select C source files.
- 3. In the File Types, select the required template file and click Next.

Steps	Choose File Type	
1. Choose File Type	Project: 🛄 TEST	
	Categories:	Elle Types:           Image: Strate S
	C++ source files  C OpenVMS DCL  C Licenses  OpenVMS MMS  OpenVMS WSIT Templates  OpenVMS BASH  PHP  SOA  V	simple C main program simple C implementation file simple C header file
	Description:	
	Using this template, you can create an en	pty C implementation file, the file with .c extension.

The **New empty C implementation file** dialog box is displayed. Enter the "File Name" and click **Browse** button and create a C file in a different folder and click **Finish**.

Steps	Name and L	ocation
<ol> <li>Choose File Type</li> <li>Name and Location</li> </ol>	File <u>N</u> ame: T	est
	Project:	TEST
	Folder:	Browse
	<u>⊂</u> reated File:	C:\NBTESTUSER\Test.c
XXX		
		Stack Next > Einish Cancel Help

A C source file with .c extension is created in the NetBeans IDE. Your C file will appear in your **Projects** tab as remote filesystem.

- 4. In the **source editor** window, edit *test.c* source file and save it.
- 5. In the **Projects** tab, right-click on the *test.c* file and select **Remote Compile**.

Projects 🛛 🕯 × Files	Services
🗊 🆢 JavaApplication	
🖶 🏥 ₽TEST	
🖨 💼 C:\NBTEST	
🗊 🛅 NBPROJECT	
Test.c [UpToDate UpToDate]	
	Open
	Edit
	FTP Actions
	File Residence
	Remote Compile
	Local History

After compilation is done, an OBJ file is created and the following message is displayed in the NetBeans IDE **Output** Window. Then, follow the procedure outlined in Section 2.2.2, *Creating a DCL Command Procedure File.* 

Output - Test.c compilation				
	Finished	i (Test.c	compilation)	

## 2.2.2 Creating a New DCL Command Procedure File

To create a new DCL command procedure (.com) file in the *Test* project on the remote OpenVMS system, follow these steps:

- 1. From the main menu in NetBeans IDE, select **File > New File**. The **New File** dialog box is displayed.
- 2. Select the OpenVMS DCL option listed under **Categories**.
- 3. In the **File Types**, select the required template file and click **Next**. The **New Empty DCL File** dialog box is displayed.
- 4. Enter the "File Name" . Click the **Browse** button to create the com file in a different folder.and click **Finish**.

New Empty DCL File			×
Steps	Name and L	ocation	
<ol> <li>Choose File Type</li> <li>Name and Location</li> </ol>	File <u>N</u> ame: to	est	
	Project:	TEST	
	Folder:		Bro <u>w</u> se
	Created File:	C:\NBTESTUSER\test.com	
		< Back Next > Einish Cancel	Help

A DCL command procedure file with .com extension is created in the NetBeans IDE. Your DCL command procedure file will appear in the **Projects** tab.

- 5. In the **source editor** window, edit *test.com* file to create the required image (EXE) and save it.
- 6. In the **Projects** tab, right-click on the *test.com* file and select **Remote Execute**.

Projects	<b>4</b> 0 ×	Files	Services
🕀 🍉 JavaApp	lication		
😑 🎦 TEST			
😑 🙀 C:\N	IBTEST		
🗄 🛅 I	NBPROJECT		
	Test.OBJ [N	SuchFile Nev	w]
	Test.c [UpTo	Date UpToD	ate]
Det in the second s	test.com [Up	ToDate UpTo	Open
			Open
			Edit
			FTP Actions
			File Residence
			Remote Execute
			Local History

After DCL execution, an executable image (EXE) is created and the following message is displayed in the NetBeans IDE **Output** window.

Output - TEST	(test.co	m)
Finished	(TEST	(test.com))

7. Right-click the EXE file and select **Remote Execute**.



The NetBeans IDE **Output** window is displayed.

Hello Netbeans Finished (TEST (Test.EXE))
······································
Finished (TEST (Test.EXE))
Finished (IESI (lest.EAR))

#### 2.3 Creating a Java Project

For creating a Java project, you have to create a standard Java or web-based project and then convert it to a remote project. The conversion to remote project can occur immediately after you create the project or sometime later.

When you convert a project to a remote project, your project files and source files will be copied to the OpenVMS system and modifications will be made to the NetBeans-generated BUILD.XML to support remote operations.

To create a Java project using Distributed NetBeans, follow these steps:

- 1. From the main menu in NetBeans IDE, select **File > New Project**. The **New Project** dialog box is displayed.
- 2. Select Java listed under Categories.
- 3. In the **Projects** tab, select the required Java Application template file and click **Next**.

Steps	Choose Project	
1. Choose Project 2	Categories:     Projects:       OpenVMS Remote Applications     Java Desktop Application       Java     Java Desktop Application       Java Web     Java Class Library       Java EE     Java Free-Form Project       Java ME     Java Free-Form Project       PHP     SoA       SoA     Samples	
	Description: Creates a new Java SE application in a standard IDE project. You can also generate a ma in the project. Standard projects use an IDE-generated Ant build script to build, run, and your project.	
××××		

4. The **New Java Application** dialog box is displayed. Enter the "Project Name", "Project Location" and "Project Folder" and click **Finish** to close the dialog box and return to the NetBeans IDE window.

Steps	Name and Loca	tion	
1. Choose Project 2. Name and Location	Project <u>N</u> ame:	JavaApplication	
	Project Location:	C:\NBTESTUSER	Browse
	Project Fol <u>d</u> er:	C:\NBTESTUSER\JavaApplication	]
	Use Dedicate	d Folder for Storing Libraries	
	Libraries Folde	er:	Browse
		Different users and projects can share the same compilation libraries (see Help for details).	
	🔽 <u>C</u> reate Main (	Class javaapplication.Main	
	Set as <u>M</u> ain P	roject	
XX			

5. Right-click on your Java project and select **Properties**.

and Build ate Javadoc onfiguration Main Project Required Projects	) Alt+F6		
ate Javadoc ) Infiguration Main Project			
ate Javadoc ) Infiguration Main Project			
ate Javadoc ) Infiguration Main Project			
) onfiguration Main Project			
nfiguration Main Project			
nfiguration Main Project			
nfiguration Main Project			
nfiguration Main Project			
Main Project	•		
Required Projects			
Contraction of the second s			
ne			
•			
••			
	Delete		
	Ctrl+F		
re to Local Project			
fline			
e Project Operations	•		
e Properties			
ning	•		
History	•		
	e Properties ning	re Properties ning + History +	te Properties

The **Project Properties – JavaApplication** dialog box is displayed.

Project Eolder: C:\NBTE	STUSER\JavaApplication	
Source Package Folders:		
Package Folder	Label	Add Folder.
src	Source Packages	Remove
		Kentove
		Move Up
		Move Down
		HOVE DOWN
Test Package Folders:		
Package Folder	Label	Add Folder.
test	Test Packages	Remove
		Move Up
		Move Down
Source/Binary Format: ]	DK 1.4	Includes/Excludes.
Encoding:	JTF-8	
	Source Package Folders: Package Folder src Iest Package Folders: Package Folder test	Source Package Folders: Package Folders: Package Folders: Iest Package Folders: Package Folders: Package Folder Label test Test Packages

The Java source level should be less than or equal to the version of Java with which you are running the IDE Server on OpenVMS. To change the source level for your project, set the proper source level from the **Source Level** drop-down menu.

- 6. In the source editor window, make the required edits to your program in the *JavaApplication.main* file and save it.
- 7. In the **Projects** tab, right-click on your project and select **Clean and Build**.
- 8. Right-click your project and select **Run** to run your Java Application.

	🛯 🗙 Files	Services
🗈 🍉 JavaApplicatio	New	•
	Build	
	Clean and Build	
	Clean Generate Javadoc	
	<u> </u>	
	Run Debug	

The NetBeans IDE **Output** window is displayed.

Ou	tput - J	avaApplicatio	n (run)			
		Netbeans SUCCESSFUL	(total	time: O	seconds)	

9. Convert to remote project by right-clicking on your project and select **Convert to Remote Project**. The **Remote Project Conversion Wizard** dialog box is displayed. Then, follow the steps in the wizard and click **Finish**.

Remote IDE Server Chooser Setup the Remote File System or Archive Setup the Remote File System for Source Directory(s)	Remote IDE Servers ntbean.ind.hp.com:system	Remote IDE Server Properties		
Setup the Remote File System or Archive Setup the Remote File System	ntbean.ind.hp.com:system 💌	Name	1	
or Archive Setup the Remote File System			Value	
		Host Name	ntbean.ind.hp.com	
for Source Directory(s)		User Name	system	
		Port Number	1099	
Setup the Remote File System		JDK version	1.4.2	
for Source Directory(s) Setup the Remote File System		OS	OpenVMS V8.3	
	system. If no Remote IDE Server is listed on the Combo box, go to the Runtime Tab, find "Remote IDE Servers", and add desired Remote IDE Server			

10. After the project has been converted to remote project, right-click and select **Remote Project Operations** and then select **Run Project**. The NetBeans IDE **Output** window is displayed.

0	utput - JavaApplication (build.xml)
	-init-debug-args:
	-init-macrodef-nbjpda:
	-init-macrodef-debug:
	-init-macrodef-java:
	-init-presetdef-jar:
	init:
	deps-jar:
	-check-automatic-build:
	-clean-after-automatic-build:
	-verify-automatic-build:
	-pre-pre-compile:
	-pre-compile:
	-compile-depend:
	-do-compile:
	Compiling 1 source file to /NTBEAN\$DKA100/NETBEANSUSERS/build/classes
	-post-compile:
	compile:
	run:
	Hello Netbeans
	BUILD SUCCESSFUL
	Total time: 9 seconds
	Finished (JavaApplication (build.xml))

### 2.4 Creating a WSIT Project

The Web Service Integration Toolkit for OpenVMS (WSIT) contains a collection of integration tools. These tools are easy to use, highly extensible, based on standards and built on open source technology. The toolkit can be used to call OpenVMS applications written in 3GL languages, such as C, BASIC, COBOL, FORTRAN, and ACMS from newer technologies and languages such as Java, Microsoft .NET, Java -RMI, JMS, and web services.

To create an OpenVMS WSIT project from the Distributed NetBeans client, follow these steps:

- 1. In the NetBeans IDE window, select the Projects tab.
- 2. Select File > New Project. The New Project wizard is displayed.
- 3. Select OpenVMS Remote Applications.
- 4. Select OpenVMS WSIT Application, and click Next.

Steps	Choose Project	
1. Choose Project 2	Categories: Dipent/MS Remote A Java Java Web Java EE Java ME PHP Ruby CrC++ SOA NetBeans Modules B Samples	Projects:  pplications  OpenVM5 3GL Application  OpenVM5 WSIT Application
	Description:	
	Creates a WSIT remote proje	ct
XX		

The New OpenVMS WSIT Application dialog box is displayed. Enter the "Project Name" and click Next.

Rew OpenVMS WSIT	Application	
Steps	Project Name	
<ol> <li>Choose Project</li> <li>Project Name</li> <li>Remote IDE Server Cho</li> <li>Setup the Remote File S or Archive</li> <li>Setup the Remote File S or Archive</li> <li>Setup the Remote File S for Source Directory(s)</li> </ol>	Project Name: oser iystem	TESTWSIT
		<gadk next=""> Erish Cancel Help</gadk>

5. Select the name of the **Remote IDE Server** from the drop-down menu and click **Next**. The **New OpenVMS WSIT Application** dialog box is displayed.

leps	Remote IDE Server Chooser			
Choose Project	Remote IDE Servers	Remote IDE Server Properties		
Project Name	ntbean ind.hp.com/system	Name	Value	
. Remote IDE Server Chooser	ADDRESS AND ADDRESS ADDR	Host Name	intbean ind hp. com	
Setup the Remote File System		User Name		_
or Archive		Port Number	system 1099	_
Setup the Remote File System		JOK version	1.4.2	_
or Archive		OS OS	3.4.2 OpenVM5 V8.3	
Setup the Remote File System for Source Directory(s)		1		
	Combo box, go to the Services Tab, find "Remote IDE Servers", and add desired			

6. Select the remote file system type as **FTP based file system**. Click **Next** to view the **New OpenVMS WSIT Application** dialog box.

New OpenVMS WSIT Applica	tion	×
Steps	Select the Remote File System or Archive	
<ol> <li>Choose Project</li> <li>Project Name</li> <li>Remote DE Server Chooser</li> <li>Setup the Remote File System or Archive</li> <li>Setup the Remote File System or Archive</li> <li>Setup the Remote File System for Source Directory(s)</li> </ol>	Select the file system type	
	< gack Next > Emits Cancel 614	b. ]

- 7. In the New OpenVMS WSIT Application dialog box enter the following:
  - Remote FTP Directory Root Browse to select a remote default directory for the FTP filesystem root on the OpenVMS system. The Remote FTP Directory Root is the root directory that allows you to access and see your source files from the OpenVMS system. Usually, this will be your project directory. For example, USER\$:[NBUSER.NBTESTUSER].
  - Local FTP Directory Root Browse to select a Local FTP Directory Root to store copies of the files from the OpenVMS system. This directory will contain some or all of the files found in the remote FTP default directory.

eps	Setup the Remote File System	for Source Directory(s)
Choose Project Project Name	Choose a directory on the Ope	enVMS machine which the FTP Server will use as the root directory
Remote IDE Server Chooser     Setup the Remote File System     or Archive     Setup the Remote File System     or Archive     Setup the Remote File	Remote FTP Directory Root	NTBEAN\$DKAJ00:[NETBEANJSER.NBTESTUSER]
	Choose a local storage direct	ory for the remote files
System for Source Directory(s)	Local FTP Directory Root	C:WBTESTUSER
2012/02/07/0	If this will be a read-only filesy	stem, check this bax
	Read-Only	
		21. To use a different port for communications, specify it here
	FTP Port 21	
	If the FTP port chosen is forwa	irded to an SSH tunnel, specify it here
	FTP Port Forwarded	
		e used, specify it here (recommended)
	Passive FTP	
		eep files on the client and server synchronized
	Auto Sync 🗹	
		rd, you can change the above properties (along with other properties) by right mouse e on NetBeans Filesystems Explorer. To add more source directories to your project clic
XXX		

- 8. The WSIT project window is displayed. To create a new C source file, see Section 2.2.1, *Creating a New C Source File*
- 9. In the **Projects** tab, right-click on the *test.c* file and select **Remote Compile**. After compiling, .OBJ file is created.

- 10. Specify the path of the .OBJ file in the *wsit-ant-user.properties* file template created along with the WSIT project.
- 11. Right-click the *wsit-ant-user.xml* file and select **Remote Run Target**.

Projects	41 ×	Files	Service	5	📄 🗟 wsit-ant-us
	NBPROJE wsit-ant-	CT user.properties [U	lpToDate]UpToDat		₩ ₩ • ₩ xml<br - </th
	wsk-ant-	userbuild.xml [Up	ToDate[UpToDate] Open		
			Run Target		
			Debug Target		
			FTP Actions		
			File Residence Local History	*	
			Remote Execute		
			Remote Run Targ	et 🕨	buildall
			Remote Propertie	s	buildiavabean
			Cut Copy	Ctrl+X Ctrl+C	buildjspclient buildpojoclient
wsit-ant-userbuild Ant Targets	build.xr	ni (UpToDate	Delete Rename	Delete	buildserver checkinput getidi
			Save As Template		help
		-	Tools Properties	•	idl2code obj2idl stdl2idl validate

The NetBeans IDE **Output** window is displayed.

utput - TESTWSIT (wsit-ant-userbuild	l.xml)
Buildfile: /TCLP99\$DKAO/testw	/sit/wsit-ant-userbuild.xml
checkinput:	
Verifying properties	
getidl:	
Calling obj2id1	
obj2id1:	
Creating XML IDL file	
WSIT IDL Generator version is	:: V1.0
validate:	
Validating XML IDL file	
XML file validated sucessfull	· 7
idl2code:	
File: /TCLP99\$DKA0/testwsit/g	generated/TESTWSITServer/build-TESTWSIT-server.com generated.
	generated/TESTWSITServer/methIds.h generated.
File: /TCLP99\$DKA0/testwsit/g	generated/TESTWSITServer/structkeys.h generated.
	generated/TESTWSITServer/TESTWSIT.wsi generated.
	generated/TESTWSITServer/TESTWSIT.opt generated.
	generated/TESTWSITServer/TESTWSIT-server.h generated.
File: /TCLP99\$DKA0/testwsit/g	generated/TESTWSITServer/TESTWSIT-server.c generated.
File: /TCLP99\$DKA0/testwsit/g	generated/TESTWSIT/build-TESTWSIT-jb.com generated.
File: /TCLP99\$DKA0/testwsit/g	generated/TESTWSIT/ITESTWSIT.java generated.
File: /TCLP99\$DKA0/testwsit/g	generated/TESTWSIT/TESTWSITImpl.java generated.
File: /TCLP99\$DKA0/testwsit/g	generated/TESTWSITSamples/POJ0/TESTWSITMain.java generated.
File: /TCLP99\$DKA0/testwsit/g	generated/TESTWSITSamples/P0J0/build-TESTWSIT-PoJoClient.com generated.
*** Application TESTWSIT gene	rated! ***
buildserver:	
Building server	
/TCLP99\$DKA0/testwsit/generat	ed/TESTWSITServer
@build-TESTWSIT-server.com	
Begin server build procedure.	
configuring switches and	compiler options
compiling native server o	ode
linking shareable image	
installing server image	
End server build procedure.	
buildjavabean:	
Building Java Bean	
Begin java bean build procedu	ire.
Compiling structure class	es
Compiling TESTWSIT Interf	ace classes
Creating TESTWSIT. JAR fil	e from classes
End of JavaBean build procedu	are.
buildpojoclient:	
Building Sample POJO Client .	120 C
Compiling 1 source file to /I	CLP99\$DKA0/testwsit/generated/TESTWSITSamples/P0J0
	penerated/TESTWSITSamples/POJO/TESTWSITMain.java uses unchecked or unsafe operations.
Note: Recompile with -Xlint:u	
	estwsit/generated/TESTWSITSamples/POJ0/TESTWSITClient.jar
	ype the following commands:
	tools]wsi-setenv - wsi\$dev
	tools]wsi-setenv - /TCLP99\$DKAO/testwsit/generated/TESTWSIT/TESTWSIT.jar
	tools]wsi-setenv - /TCLP99\$DKAO/testwsit/generated/TESTWSITSamples/POJO/TESTWSITClient.ja
	JSIT.TESTWSITMain"
buildjspclient:	
buildall:	
	e TESTWSIT application
BUILD SUCCESSFUL Total time: 38 seconds	
Finished (TESTWSIT (wsit-ant-	userbuild vml))

The generated files are listed in the directory as shown:



# **3 Conclusion**

This document has explained briefly on how to create, build, and execute your OpenVMS 3GL program, Java program, and WSIT applications. For more information about Distributed NetBeans, see:

http://h71000.www7.hp.com/openvms/products/ips/netbeans/distnb.html

To access the sourceforge website and download the open source code for Distributed NetBeans 7.0.1, click <u>here</u>.