PowerBuilder Compiler User Guide

Appeon PowerBuilder 2017

FOR WINDOWS

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1 What is PowerBuilder Complier (PBC170.exe)

PowerBuilder Compiler (PBC170.exe hereinafter) is a standalone app that is used to compile or deploy PowerBuilder projects using dos commands on Windows. It can be installed on any machine (either with or without a PowerBuilder installed). It is provided separately and is currently free for use.

There is no difference between compilation using PBC170.exe and compilation (Run > Full Build/Incremental Build) in PowerBuilder IDE.

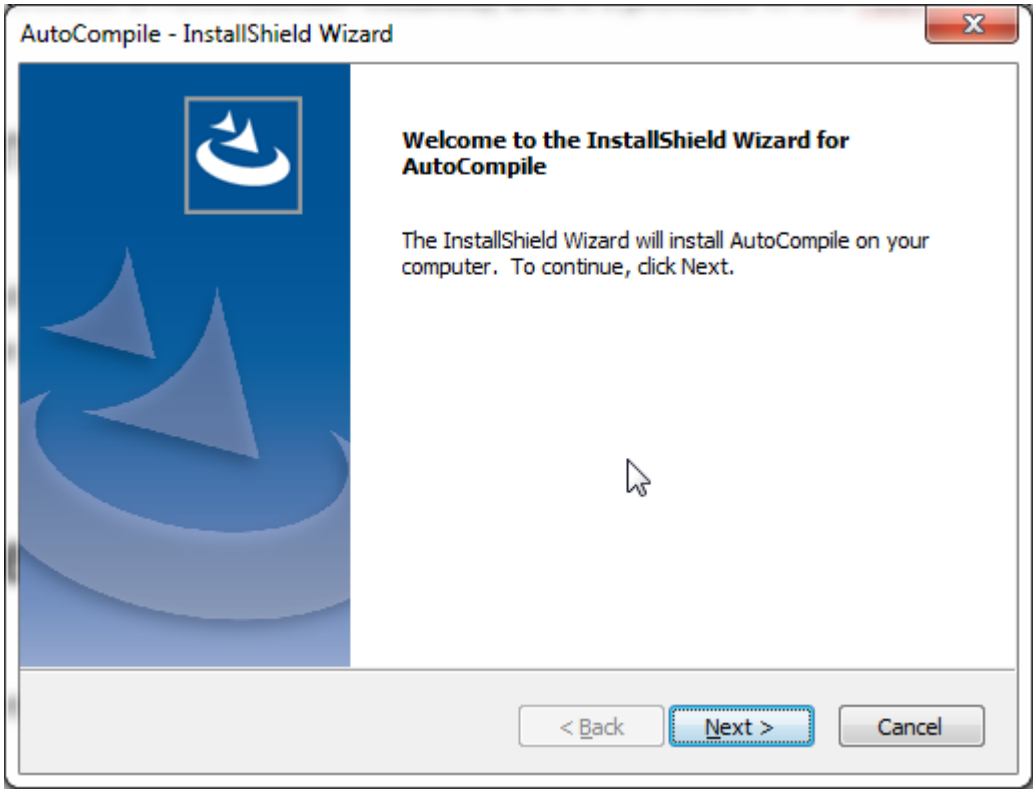
However there are two slight differences between deployment using PBC170.exe and deployment in PowerBuilder IDE (Run > Deploy). Please see the following table for details.

Difference	PowerBuilder	PBC170.exe
.pbd/.dll files	You can select some of the PBLs to be generated to .pbd files and the others to be generated to .dll files.	You can either deploy all the PBLs to .dll files or to .pbd files.
Resource files	You can specify a separate resource file to associate with a specific .pbl file.	Only a general resource file for all PBLs is included.

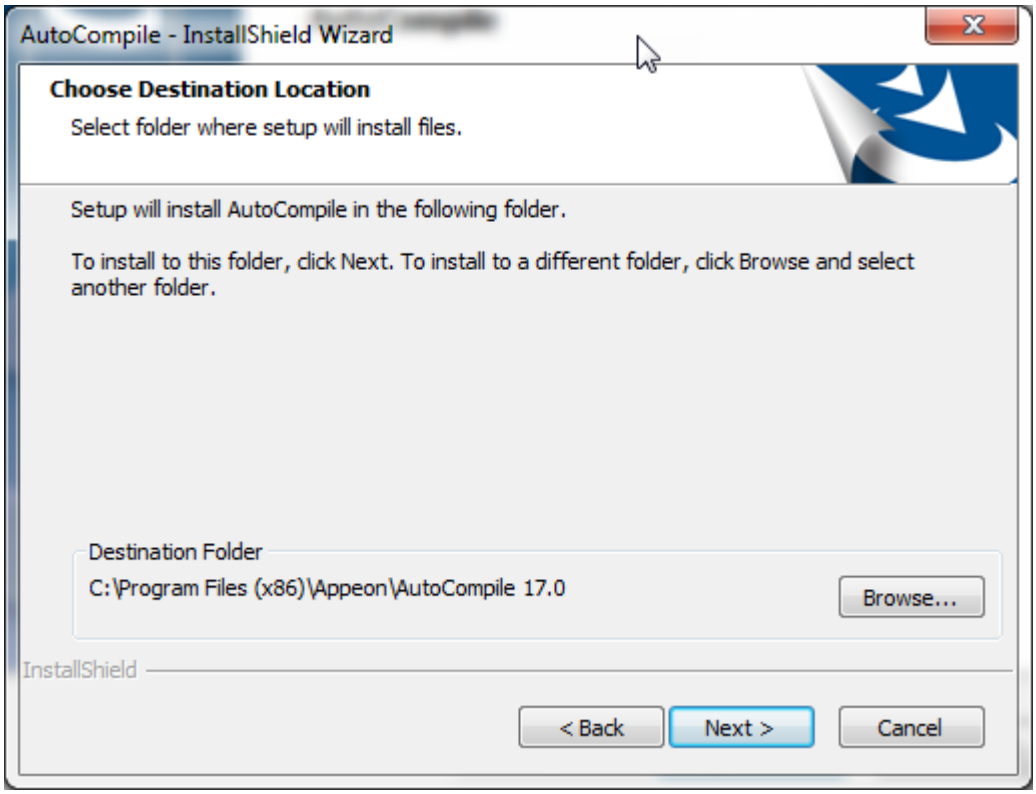
2 Installing PBC170.exe

The PBC170.exe installer is provided alone and you need to install it separately.

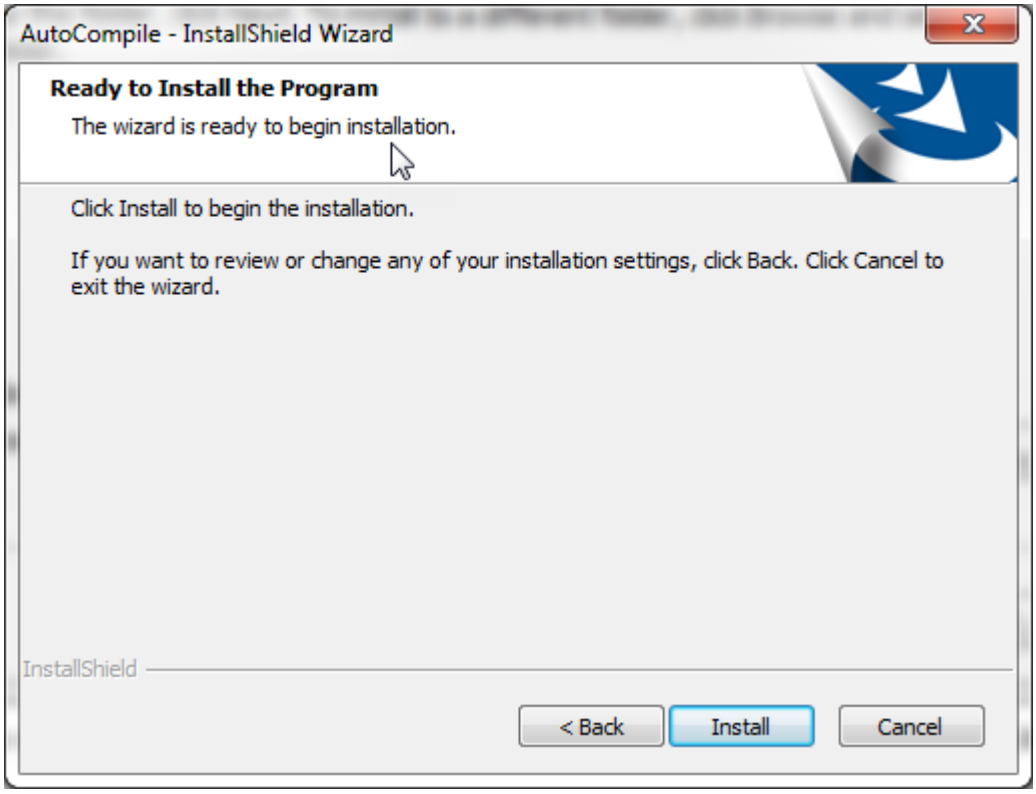
1. Double click the PBC170.exe installer AutoCompile.exe.
2. Click Next.



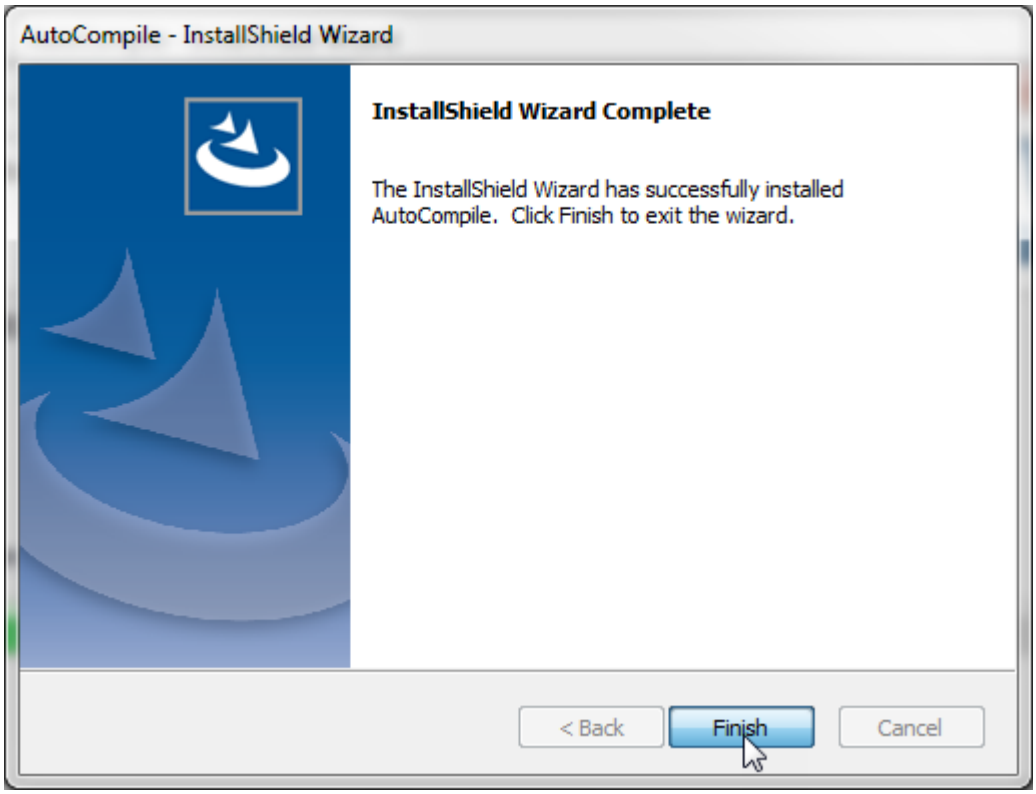
3. Click Browse to select a desired location or use the default location, and then click Next.



4. Click Install and wait until the installation is complete.



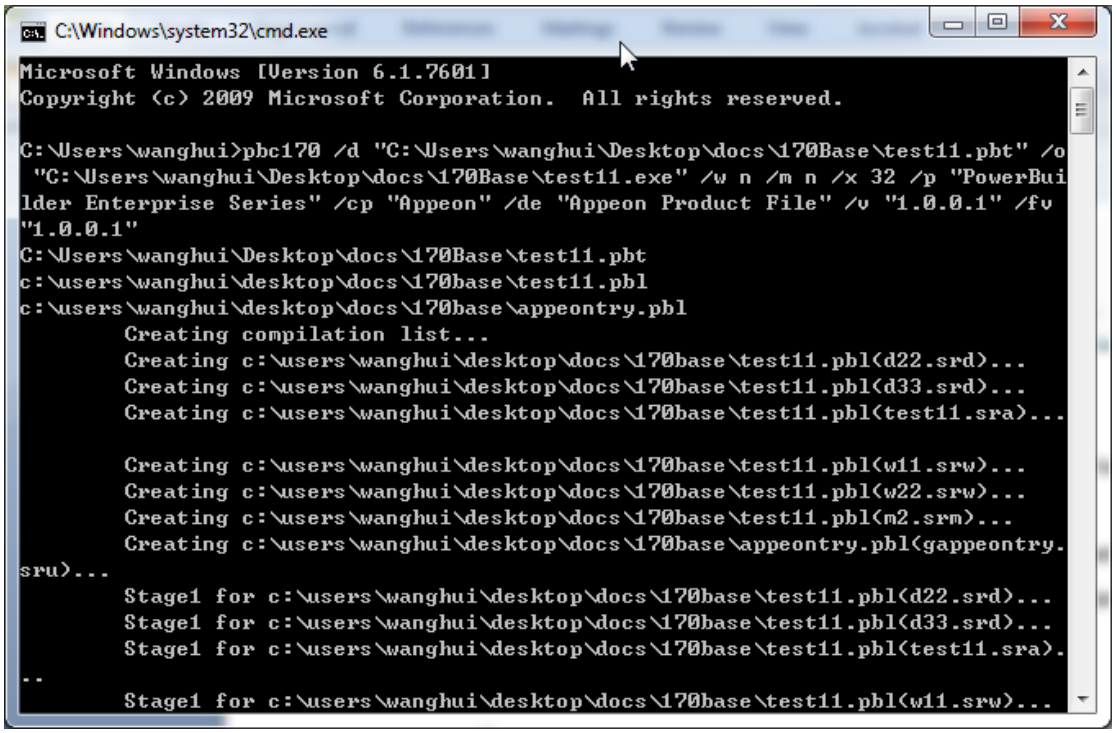
5. Click Finish. You may need to restart your computer.


AutoCompile - InstallShield Wizard
InstallShield Wizard Complete
The InstallShield Wizard has successfully installed AutoCompile. Click Finish to exit the wizard.
< Back
Finish
Cancel

3 Compiling/Deploying PowerBuilder Projects Using PBC170.exe

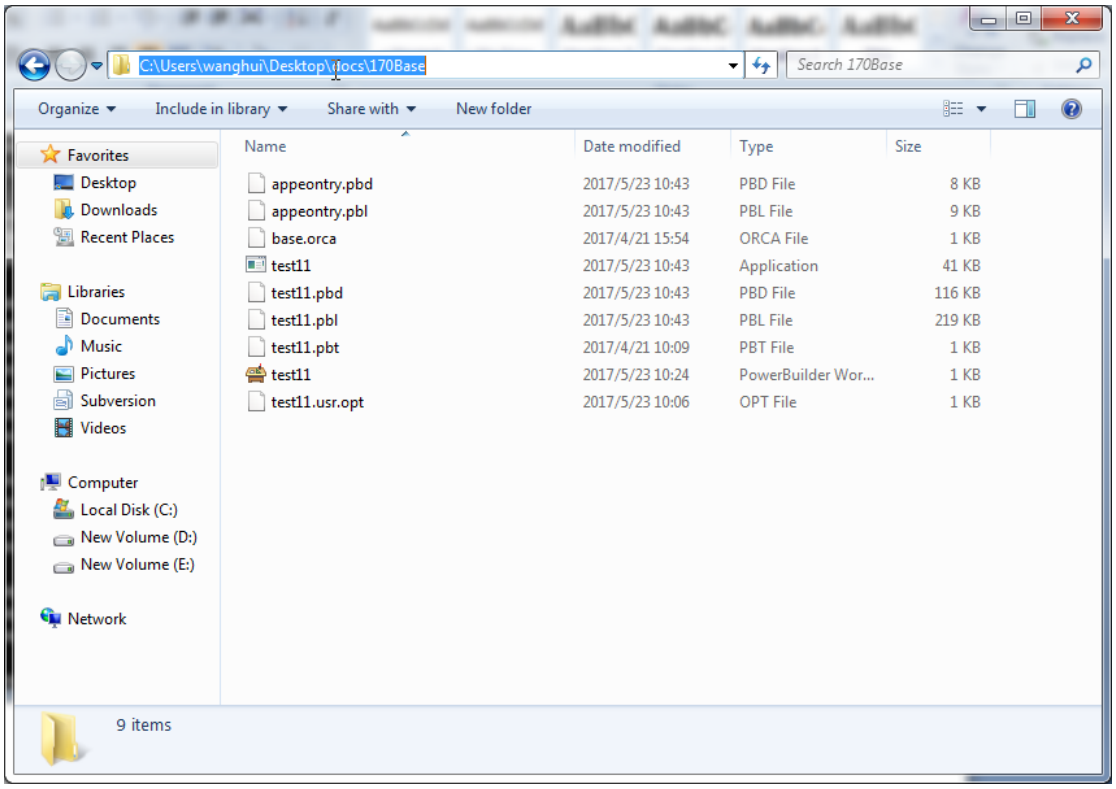
You can either compile or deploy PowerBuilder projects using PBC170.exe.

1. Prepare the PowerBuilder projects in PowerBuilder IDE.
2. Open the CMD window.
3. Type PBC170 and the supported parameters such as /d, etc. For the PBC170.exe supported parameters, see PBC170.exe supported parameters.



Note: You can create and generate the PBC runtime parameters for deployment in PowerBuilder IDE, and then copy and paste the parameters in the CMD window. In the PowerBuilder IDE, click New > Project > Application to create the PBC runtime parameters. You may refer to *Creating a project* and *Defining an executable application project* in (PowerBuilder) *Users Guide* for more details on creating and defining a project.

4. You can now check the generated files in the specified folder.


C:\Users\wanghui\Desktop\docs\170Base
Search 170Base
Organize
Include in library
Share with
New folder
Favorites
Desktop
Downloads
Recent Places
Libraries
Documents
Music
Pictures
Subversion
Videos
Computer
Local Disk (C:)
New Volume (D:)
New Volume (E:)
Network
Name
Date modified
Type
Size
appeontry.pbd 2017/5/23 10:43 PBD File 8 KB
appeontry.pbl 2017/5/23 10:43 PBL File 9 KB
base.orca 2017/4/21 15:54 ORCA File 1 KB
test11 2017/5/23 10:43 Application 41 KB
test11.pbd 2017/5/23 10:43 PBD File 116 KB
test11.pbl 2017/5/23 10:43 PBL File 219 KB
test11.pbt 2017/4/21 10:09 PBT File 1 KB
test11 2017/5/23 10:24 PowerBuilder Wor... 1 KB
test11.usr.opt 2017/5/23 10:06 OPT File 1 KB
9 items

4 PBC170.exe supported parameters

PBC170.exe supports the following three parameters:

- /c (/C) – for compiling PowerBuilder projects.
- /d (/D) – for deploying PowerBuilder projects.
- /h (/H) – for displaying PBC170.exe help.

4.1 /c (compile)

/c is used to compile the PowerBuilder projects and then saves the changes into the related PBLs.

/c supports:

1. two kinds of file extension names: .pbw or .pbt (the files to be compiled should be .pbw or .pbt in type. .pbl is not supported currently).
2. two compilation mode parameters: /f for full compilation; and /i for incremental compilation.

Example:

- Minimum parameters: pbc170 /c test11.pbw
- Maximum parameters: pbc170 /c test11.pbw /f (the default compilation mode)

4.2 /d (deploy)

/d is used to deploy the PowerBuilder projects to .exe and .dll/.pbd files.

It also supports two kinds of file extension names: .pbw or .pbt (the files to be deployed should be pbw or pbt in type. .pbl is not supported currently).

Example:

- Minimum parameters: pbc170 /d test11.pbw
- Maximum parameters: pbc170 /d test11.pbw /o test11 /r test11.pbr /x 32 /cp "Appeon" /p APB /de description /cr copyright /v 1.0.0.1 /fv 1.0.0.1 /w y /m y
  Please see the following table for details for the each parameter.

Parameters	Default Value	Description	Remarks
/o d:\fo\test11.exe	test11	The .exe file name	All files are deployed to the .exe file and are saved to (d:\fo).

/r test11.pbr	None	The resource file	
/x 32	32	The platform is 32-bit.	
/cp Appeon	None	The company name	If there's space between words in the company name, it should be quoted, for example, "Appeon SZ".
/p APB	None	The product name	If there's space between words in the product name, it should be quoted, for example, "PowerBuilder Enterprise Series".
/de description	None		If there's space between words in the description, it should be quoted, for example, "Appeon Product File".
/cr copyright	None		If there's space between words in the copyright description, it should be quoted, for example, "All right reserved. ".
/v	1.0.0.1	The software version	
/fv	1.0.0.1	The file version	
/w y	n	Whether to use the Windows classic style or not.	• y – to use the Windows classic style; • n – to use the PowerBuilder style.
/m y	n	Whether to generate a	y – to generate machine code (.dll

		machine code or not.	files); n – to generate .pbd files.

4.3 /h

/h is used for displaying the help of PBC170.exe parameters.

Example: pbc170 /h