

IC Compiler™ Tool Invocation Commands

Version O-2018.06, June 2018

SYNOPSYS®

Copyright Notice and Proprietary Information

© 2016 Synopsys, Inc. All rights reserved. This software and documentation contain confidential and proprietary information that is the property of Synopsys, Inc. The software and documentation are furnished under a license agreement and may be used or copied only in accordance with the terms of the license agreement. No part of the software and documentation may be reproduced, transmitted, or translated, in any form or by any means, electronic, mechanical, manual, optical, or otherwise, without prior written permission of Synopsys, Inc., or as expressly provided by the license agreement.

Destination Control Statement

All technical data contained in this publication is subject to the export control laws of the United States of America. Disclosure to nationals of other countries contrary to United States law is prohibited. It is the reader's responsibility to determine the applicable regulations and to comply with them.

Disclaimer

SYNOPSYS, INC., AND ITS LICENSORS MAKE NO WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, WITH REGARD TO THIS MATERIAL, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE.

Trademarks

Synopsys and certain Synopsys product names are trademarks of Synopsys, as set forth at <http://www.synopsys.com/Company/Pages/Trademarks.aspx>.

All other product or company names may be trademarks of their respective owners.

Free and Open-Source Licensing Notices

If applicable, Free and Open-Source Software (FOSS) licensing notices are available in the product installation.

Third-Party Links

Any links to third-party websites included in this document are for your convenience only. Synopsys does not endorse and is not responsible for such websites and their practices, including privacy practices, availability, and content.

Synopsys, Inc.
690 E. Middlefield Road
Mountain View, CA 94043
www.synopsys.com

Copyright Notice for the Command-Line Editing Feature

© 1992, 1993 The Regents of the University of California. All rights reserved. This code is derived from software contributed to Berkeley by Christos Zoulas of Cornell University.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

1. Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
2. Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.
3. All advertising materials mentioning features or use of this software must display the following acknowledgement:
This product includes software developed by the University of California, Berkeley and its contributors.
4. Neither the name of the University nor the names of its contributors may be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE REGENTS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE REGENTS OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

Copyright Notice for the Line-Editing Library

© 1992 Simmule Turner and Rich Salz. All rights reserved.

This software is not subject to any license of the American Telephone and Telegraph Company or of the Regents of the University of California.

Permission is granted to anyone to use this software for any purpose on any computer system, and to alter it and redistribute it freely, subject to the following restrictions:

1. The authors are not responsible for the consequences of use of this software, no matter how awful, even if they arise from flaws in it.
2. The origin of this software must not be misrepresented, either by explicit claim or by omission. Since few users ever read sources, credits must appear in the documentation.
3. Altered versions must be plainly marked as such, and must not be misrepresented as being the original software. Since few users ever read sources, credits must appear in the documentation.
4. This notice may not be removed or altered.

Contents

icc_shell 4

icc_shell

Invokes the IC Compiler command shell.

SYNTAX

```
icc_shell
  [-f script_file]
  [-x command_string]
  [-no_init]
  [-no_home_init]
  [-no_local_init]
  [-checkout feature_list]
  [-timeout timeout_value]
  [-wait wait_time]
  [-version]
  [-64bit]
  [-no_log]
  [-output_log_file file_name]
  [-help]
  [-psyn_mode]
  [-xp_mode]
  [-ag_mode]
  [-dp_mode]
  [-gui]
  [-no_gui]
```

Data Types

<i>script_file</i>	string
<i>command_string</i>	string
<i>feature_list</i>	list
<i>timeout_value</i>	integer
<i>wait_time</i>	integer
<i>file_name</i>	string

ARGUMENTS

-f *script_file*

Executes the IC Compiler commands in the specified file before displaying the initial icc_shell prompt. If the last command in the script file is **quit**, no prompt is displayed and the command shell exits.

-x *command_string*

Executes the specified `icc_shell` command before displaying the initial `icc_shell` prompt. You can enter multiple commands by separating them with a semicolon (;) and enclosing the entire set of commands in quotation marks ("). If the last command entered is **quit**, no prompt is displayed and the command shell exits.

-no_init

Specifies that `icc_shell` is not to execute any `.synopsys_dc.setup` startup files. Use this option only when you want to include a command log or another script file in order to reproduce a previous `icc_gui` or `icc_shell` session. Include the script file either by using the **-f** option or by invoking the **source** command from within `icc_shell`.

-no_home_init

Specifies that `icc_shell` is not to execute the home `.synopsys_dc.setup` startup file.

-no_local_init

Specifies that `icc_shell` is not to execute the local `.synopsys_dc.setup` startup file.

-checkout *feature_list*

Specifies a list of licensed features to check out in addition to the default features checked out by the program.

-timeout *timeout_value*

Specifies a value from 5 to 20 that indicates the number of minutes the program spends trying to recover a lost contact with the license server before terminating. The default is 10.

-wait *wait_time*

Specifies the wait time in minutes. Invokes `icc_shell` only when all of the licensed features specified in the **-checkout** option can be checked out during the specified time.

-version

Displays the version number, build date, site id number, local administrator, and contact information, and then exits.

-64bit

Invokes the 64-bit executable of the IC Compiler command shell.

-no_log

Disables command file logging for the session and creates a filenames log file in the following format:

```
<filename>_<pid>_<timestamp>.log.
```

-output_log_file *file_name*

Writes the log console output to the specified file.

-help

Displays the command help for the `icc_shell` command and then exits.

-psyn_mode

Invokes the IC Compiler-PC package (which does not include routing capability).

-xp_mode

Invokes the IC Compiler-XP package.

-ag_mode

Invokes the IC Compiler-AG package.

-dp_mode

Invokes the IC Compiler-DP package.

-gui

Opens the IC Compiler graphical user interface (GUI) on the display specified by the **DISPLAY** environment variable. If you do not open the GUI when you start IC Compiler, you can open it later by running the **gui_start** command at the `icc_shell` prompt.

-no_gui

Opens the command line interface; the GUI is not opened. This is the default behavior.

DESCRIPTION

This command interprets and executes IC Compiler commands. The `icc_shell` environment consists of user commands and variables that control the physical synthesis capabilities of IC Compiler.

The `icc_shell` command executes commands until it is terminated by a **quit** or **exit** command. During interactive mode, you can also terminate the `icc_shell` session by pressing Ctrl+D.

SEE ALSO

`gui_start(2)`