

# Cycle Model SystemC Runtime

Version 3.1

## Installation Guide



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## Installation Guide

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### Release Information

### Document History

Issue	Date	Confidentiality	Change
0300-00	17 November 2017	Non-Confidential	Release 3.0
0301-00	23 February 2018	Non-Confidential	Release 3.1

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LES-PRE-20349

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The information in this document is Final, that is for a developed product.

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# Contents

## Cycle Model SystemC Runtime Installation Guide

### **Preface**

<i>About this book</i> .....	6
------------------------------	---

### **Chapter 1**

#### **Introduction**

1.1	<i>Intended audience</i> .....	1-9
1.2	<i>System requirements</i> .....	1-10

### **Chapter 2**

#### **Installing the Cycle Model SystemC Runtime software**

2.1	<i>Accessing the Cycle Model SystemC Runtime package</i> .....	2-12
2.2	<i>Installation package</i> .....	2-13
2.3	<i>Installing and setting environment variables</i> .....	2-14
2.4	<i>Contents of the installation directory</i> .....	2-15

### **Chapter 3**

#### **Licensing overview**

3.1	<i>Required licenses</i> .....	3-17
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# Preface

This preface introduces the *Cycle Model SystemC Runtime Installation Guide*.

It contains the following:

- [About this book on page 6.](#)

## About this book

This guide describes how to install the Cycle Model SystemC runtime.

## Using this book

This book is organized into the following chapters:

### **Chapter 1 Introduction**

This chapter describes the intended audience of this document and the system requirements for the Cycle Model SystemC Runtime.

### **Chapter 2 Installing the Cycle Model SystemC Runtime software**

This chapter describes how to access and install the Cycle Model SystemC Runtime package.

### **Chapter 3 Licensing overview**

This chapter describes the licensing requirements for operating the Cycle Model SystemC Runtime.

## Glossary

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See the [Arm® Glossary](#) for more information.

## Typographic conventions

*italic*

Introduces special terminology, denotes cross-references, and citations.

**bold**

Highlights interface elements, such as menu names. Denotes signal names. Also used for terms in descriptive lists, where appropriate.

`monospace`

Denotes text that you can enter at the keyboard, such as commands, file and program names, and source code.

`monospace`

Denotes a permitted abbreviation for a command or option. You can enter the underlined text instead of the full command or option name.

`monospace` *italic*

Denotes arguments to monospace text where the argument is to be replaced by a specific value.

`monospace` **bold**

Denotes language keywords when used outside example code.

<and>

Encloses replaceable terms for assembler syntax where they appear in code or code fragments. For example:

```
MRC p15, 0, <Rd>, <CRn>, <CRm>, <Opcode_2>
```

SMALL CAPITALS

Used in body text for a few terms that have specific technical meanings, that are defined in the *Arm® Glossary*. For example, IMPLEMENTATION DEFINED, IMPLEMENTATION SPECIFIC, UNKNOWN, and UNPREDICTABLE.

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- The product revision or version.
- An explanation with as much information as you can provide. Include symptoms and diagnostic procedures if appropriate.

## Feedback on content

If you have comments on content then send an e-mail to [errata@arm.com](mailto:errata@arm.com). Give:

- The title *Cycle Model SystemC Runtime Installation Guide*.
- The number 101146\_0301\_00\_en.
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- A concise explanation of your comments.

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# Chapter 1

## Introduction

This chapter describes the intended audience of this document and the system requirements for the Cycle Model SystemC Runtime.

It contains the following sections:

- [1.1 Intended audience on page 1-9.](#)
- [1.2 System requirements on page 1-10.](#)



## 1.1 Intended audience

This guide is intended for system administrators or other users familiar with shell commands and installation packages.

## 1.2 System requirements

This section describes space, operating system, and software requirements.

### Disk space

The Cycle Model SystemC Runtime requires 1 GB of disk space.

### Supported operating system

The supported Linux operating systems are:

- Red Hat Enterprise Linux 6.6 (64-bit)
- CentOS 6.6 (64-bit)

The Cycle Model SystemC Runtime is not supported on Windows.

### Required software

The following software must be installed:

- SystemC Version 2.3.1 (64-bit Linux). The Cycle Model SystemC Runtime has been developed and tested on this version of SystemC. Visit <http://accelera.org> to download it.
- Cycle Model Studio Runtime for Linux, Version 9.5 or later. Visit the Support page at <http://armipexchange.com> to download it.

## Chapter 2

# Installing the Cycle Model SystemC Runtime software

This chapter describes how to access and install the Cycle Model SystemC Runtime package.

It contains the following sections:

- [2.1 Accessing the Cycle Model SystemC Runtime package](#) on page 2-12.
- [2.2 Installation package](#) on page 2-13.
- [2.3 Installing and setting environment variables](#) on page 2-14.
- [2.4 Contents of the installation directory](#) on page 2-15.

## 2.1 Accessing the Cycle Model SystemC Runtime package

The Cycle Model SystemC Runtime package is available for download for Arm account holders.

Access the Cycle Model SystemC Runtime software from the Downloads page on the Support section of the Arm IP Exchange web site (<http://armipexchange.com>).

You must register for an account to get access to this web page. Contact Arm Technical Support ([support-esl@arm.com](mailto:support-esl@arm.com)) if you have any questions. Once registered, you can download the software for your specific configuration and platform requirements to your host machine.

## 2.2 Installation package

The Cycle Model SystemC Runtime software is available as a tarball.

Download the following file from Arm IP Exchange: Arm-CycleModelSystemC-Runtime-files-Linux-x86\_64-vversion.tgz

## 2.3 Installing and setting environment variables

This section describes installing Cycle Model SystemC Runtime on Linux computers.

To install the Cycle Model SystemC Runtime:

1. Create a directory in which to install the software. For example: `CM_SYSC_version`.
2. `cd` to the installation directory.
3. Untar the Cycle Model SystemC Runtime kit that you downloaded. For example: `tar xvf Arm-CycleModelSystemC-Runtime-files-Linux-x86_64-vversion.tgz`
4. This step is optional. The Cycle Model SystemC Runtime software sets the `CM_SYSC_HOME` and `PATH` environment variables when you run the setup script. The two computing environment preparation commands that are used in Linux to prepare for running the Cycle Model SystemC Runtime are:
  - Bourne shell - `source <installation path>/etc/setup.sh`
  - C-Shell - `source <installation path>/etc/setup.csh`

Cycle Model SystemC Runtime users may find it convenient to insert one of these command lines into their login files. As a root user Administrator, you can insert the appropriate command line into the global logins of all users who require access the Cycle Model SystemC Runtime.

## 2.4 Contents of the installation directory

The Cycle Model SystemC Runtime is installed under a single directory structure. Its contents are described in this section.

This file system must be visible to all systems that run Cycle Model SystemC Runtime software, or multiple installation areas must exist. Following is a high-level view of the installation tree. The root directory is `$CM_SYSC_HOME`:

<code>etc/</code>	Setup scripts.
<code>FMRuntime/</code>	Fast Models runtime environment shared with SystemC Cycle Models.
<code>include/</code>	Include files for build models and systems.
<code>license.txt</code>	License file.
<code>makefiles/</code>	Common makefiles for build models and systems.
<code>Version.txt</code>	Version file.

## Chapter 3

# Licensing overview

This chapter describes the licensing requirements for operating the Cycle Model SystemC Runtime.

It contains the following section:

- [3.1 Required licenses on page 3-17.](#)



## 3.1 Required licenses

Arm Cycle Model products are licensed via the FlexNet license manager Version 11.13.

You are required to have a license for the Cycle Model Studio Runtime and for each Cycle Model used in your design. Licenses are available on the Arm Self-Service Portal (<http://silver.arm.com>). Registration and login are required.

A license server must be available on your network. The license server platform is not required to be the same as the tools platform. For example, you might have your development tools installed on Windows and use a Linux license server.

Contact Arm Technical Support ([support-esl@arm.com](mailto:support-esl@arm.com)) if you have any questions.