

# **Simulink<sup>®</sup> Accelerator Release Notes**

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## Summary by Version

This table provides quick access to what's new in each version. For clarification, see “About Release Notes” on page 1.

Version (Release)	New Features and Changes	Version Compatibility Considerations	Fixed Bugs and Known Problems	Related Documentation at Web Site
<b>Latest Version V6.5 (R2006b)</b>	No	No	Bug Reports	Printable Release Notes: PDF Current product documentation
V6.4.1 (R2006a+)	No	No	Bug Reports	No
V6.4 (R2006a)	No	No	Bug Reports	No
V6.3 (R14SP3)	Yes Details	Yes Summary	Bug Reports	No
V6.2 (R14SP2)	No	No	Bug Reports	No
V6.0.1 (R14SP1)	No	No	Fixed Bugs	No
V6.0 (R14)	No	No	“Bug Fixes” on page 10	No

### About Release Notes

Use release notes when upgrading to a newer version to learn about new features and changes, and the potential impact on your existing files and practices. Release notes are also beneficial if you use or support multiple versions.

If you are not upgrading from the most recent previous version, review release notes for all interim versions, not just for the version you are installing. For example, when upgrading from V1.0 to V1.2, review the New Features and Changes, Version Compatibility Considerations, and Bug Reports for V1.1 and V1.2.

## **New Features and Changes**

These include

- New functionality
- Changes to existing functionality
- Changes to system requirements (complete system requirements for the current version are at the MathWorks Web site)
- Any version compatibility considerations associated with each new feature or change

## **Version Compatibility Considerations and Limitations**

When a new feature or change introduces a known incompatibility between versions or limitations for new or existing features, its description includes a **Compatibility Considerations and Limitations** subsection that details the impact. For a list of all new features and changes that have compatibility impact or limitations, see the “Compatibility Summary for Simulink Accelerator” on page 11.

Compatibility issues that become known after the product has been released are added to Bug Reports at the MathWorks Web site. Because bug fixes can sometimes result in incompatibilities, also review fixed bugs in Bug Reports for any compatibility impact.

## **Fixed Bugs and Known Problems**

MathWorks Bug Reports is a user-searchable database of known problems, workarounds, and fixes. The MathWorks updates the Bug Reports database as new problems and resolutions become known, so check it as needed for the latest information.

Access Bug Reports at the MathWorks Web site using your MathWorks Account. If you are not logged in to your MathWorks Account when you link to Bug Reports, you are prompted to log in or create an account. You then can view bug fixes and known problems for R14SP2 and more recent releases.

## **Related Documentation at Web Site**

**Printable Release Notes (PDF).** You can print release notes from the PDF version, located at the MathWorks Web site. The PDF version does not support links to other documents or to the Web site, such as to Bug Reports. Use the browser-based version of release notes for access to all information.

**Product Documentation.** At the MathWorks Web site, you can access complete product documentation for the current version and some previous versions, as noted in the summary table.

## Version 6.5 (R2006b) Simulink Accelerator

This table summarizes what's new in Version 6.5 (R2006b):

<b>New Features and Changes</b>	<b>Version Compatibility Considerations</b>	<b>Fixed Bugs and Known Problems</b>	<b>Related Documentation at Web Site</b>
No	No	Bug Reports	Printable Release Notes: PDF Current product documentation

## Version 6.4.1 (R2006a+) Simulink Accelerator

This table summarizes what's new in V6.4.1 (R2006a+):

<b>New Features and Changes</b>	<b>Version Compatibility Considerations</b>	<b>Fixed Bugs and Known Problems</b>	<b>Related Documentation at Web Site</b>
No	No	Bug Reports	No

## Version 6.4 (R2006a) Simulink Accelerator

This table summarizes what's new in V6.4 (R2006a):

<b>New Features and Changes</b>	<b>Version Compatibility Considerations</b>	<b>Fixed Bugs and Known Problems</b>	<b>Related Documentation at Web Site</b>
No	No	Bug Reports	No

## Version 6.3 (R14SP3) Simulink Accelerator

This table summarizes what's new in V6.3 (R14SP3):

New Features and Changes	Version Compatibility Considerations	Fixed Bugs and Known Problems	Related Documentation at Web Site
Yes Details below	Yes—Details labeled as <b>Compatibility Considerations</b> , below. See also Summary.	Bug Reports	No

### MEX-File Extension Changed

In this release, the extension for files created by the MATLAB® mex command has changed from `dll` to `mexw32` (and `mexw64`).

### Compatibility Considerations

If you use a `mexopts.bat` file other than the one created by the mex command in your MATLAB preferences directory to build Accelerator targets, you should recreate the file from the `mexopts.bat` template that comes with this release.

## Version 6.2 (R14SP2) Simulink Accelerator

This table summarizes what's new in V6.2 (R14SP2):

<b>New Features and Changes</b>	<b>Version Compatibility Considerations</b>	<b>Fixed Bugs and Known Problems</b>	<b>Related Documentation at Web Site</b>
No	No	Bug Reports	No

## Version 6.0.1 (R14SP1) Simulink Accelerator

This table summarizes what's new in V6.0.1 (R14SP1):

<b>New Features and Changes</b>	<b>Version Compatibility Considerations</b>	<b>Fixed Bugs and Known Problems</b>	<b>Related Documentation at Web Site</b>
No	No	Bug Reports	No

## Version 6.0 (R14) Simulink Accelerator

This table summarizes what's new in V6.0 (R14):

New Features and Changes	Version Compatibility Considerations	Fixed Bugs and Known Problems	Related Documentation at Web Site
No	No	"Bug Fixes" on page 10	No

### Bug Fixes

Simulink Accelerator 6.0 includes several bug fixes. This section describes the particularly important Version 6.0 bug fixes.

#### Switch Blocks Can Abort Code Generation

In Release 13, accelerator code generation aborted for the case of a Switch block configured with the **Criteria for passing first input** set to `u2 ~=0`, with vector inputs of width greater than the `RollThreshold` (5). Code generation aborted with the following message:

```
%exit directive: Real-Time Workshop Fatal in block: "/B_1_28",
block type "Switch": No parameters to roll.
```

This release fixes the problem.

## Compatibility Summary for Simulink Accelerator

This table summarizes new features and changes that might cause incompatibilities when you upgrade from an earlier version, or when you use files on multiple versions. Details are provided in the description of the new feature or change.

<b>Version (Release)</b>	<b>New Features and Changes with Version Compatibility Impact</b>
<b>Latest Version V6.5 (R2006b)</b>	None
V6.4.1 (R2006a+)	None
V6.4 (R2006a)	None
V6.3 (R14SP3)	See the <b>Compatibility Considerations</b> and/or <b>Limitations</b> subheading for each of these changes: <ul style="list-style-type: none"> <li>• “MEX-File Extension Changed” on page 7</li> </ul>
V6.2 (R14SP2)	None
V6.0.1 (R14SP1)	None
V6.0 (R14)	None