

R2018a Update 6 Release Notes

Information about limitations and bugs fixed

R2018a Update 6 contains bug fixes to R2018a, including all the fixes from previous updates.

MathWorks recommends installing the latest update. View available updates at the [R2018a Update downloads site](#).

Important Limitations

1. Installation
 - If you add products after installing the Update, you must run the Update installer again to ensure all products are at the same update level.
2. MATLAB Distributed Computing Server, MATLAB Distributed Computing Server for Amazon EC2, and MATLAB Distributed Computing Server - Private Cloud
 - Install the update on both client and worker installations.
3. MATLAB Compiler and MATLAB Compiler SDK
 - After installing the Update, test your deployed applications using the version of the MATLAB Runtime installed on the system of the end-user or MATLAB Production Server.

Bugs Fixed in Update 6

Bug Report	Product	Summary
1844615	MATLAB	Security Issue: October 2018 security updates for R2013b – R2018a MATLAB, Polyspace, and MATLAB Compiler and Runtime
1843737	Polyspace	Security Issue: Running Polyspace or MATLAB with Polyspace installed for R2013b – R2018a may allow remote code execution
1843291	MATLAB Production Server	Security Issue: Web administration dashboard for MATLAB Production Server for R2017a – R2018a may allow session impersonation or authentication bypass
1830808	MATLAB	Security Issue: MATLAB Mobile Connector may allow remote file upload and code execution for R2016a – R2017a

Bugs Fixed in Update 5 (also included in Update 6)

Bug Report	Product	Summary
1772397	MATLAB	MATLAB file operations such as <code>cd</code> , <code>path</code> , and <code>addpath</code> fail on local or network directory paths with mixed permissions
1796116	MATLAB	FTP <code>mput</code> operation returns incorrect error code 257
1799298	MATLAB	Content of live script lost when opened in MATLAB Online using Internet Explorer

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1815342	MATLAB	MATLAB crashes when assigning a struct field that contains anonymous function handles
1817440	MATLAB	<code>fitsread</code> function returns an error when reading variable length character data from certain FITS files
1825211	MATLAB	<code>matlab.io.fits.writeKey</code> returns an error when writing certain keys to a FITS file
1787896	Antenna Toolbox	Signal strength calculations are incorrect for antenna sites with elevation angle
1775647	Audio System Toolbox	The Label Definitions button in the Audio Dataset Recorder example app generates an error
1757450	Curve Fitting Toolbox	Curve Fitting Tool (CFTOOL) is not visible with MATLAB Online
1657401	Embedded Coder	Incorrect Code Generation: Model step function with reusable packaging may lead to incorrect code
1710231	Embedded Coder	Incorrect Code Generation: Subsystem outputs are incorrectly cached in local variables across subsystem calls in generated code
1744152	Embedded Coder	invalid <code>unordered_map<K, T></code> key error during code generation
1748425	Embedded Coder	Incorrect Code Generation: Incorrect generated code is possible for a Stateflow chart containing a Simulink function
1766457	Embedded Coder	Incorrect Code Generation: Symbolic dimension specified for Output Size of Selector block is ignored in the generated code
1767818	Embedded Coder	Incorrect Code Generation: Incorrect variable reuse when a Model block connects to a Unit Delay block
1789221	Embedded Coder	Incorrect Code Generation: Same <code>Localizable</code> storage class may be incorrectly applied to two different model input ports
1791566	Embedded Coder	Incorrect Code Generation: Wrong results for model containing a root-level Outport block with <code>Ensure outport is virtual</code> parameter selected
1796749	Embedded Coder	When working with a large data dictionary hierarchy, Model Explorer might be slow and unresponsive
1796801	Embedded Coder	Incorrect Code Generation: Incorrect results are possible for cascading Unit Delay blocks inside Switch Case Action Subsystem block
1799405	Embedded Coder	Code generator triggers software assertion or MATLAB crash for models that include a Simulink Function block that contains a MATLAB Function block
1804775	Embedded Coder	Incorrect Code Generation: Using Discrete State-Space block with state name defined as <code>xnew</code> can lead to incorrect answer during code generation
1812046	Embedded Coder	SIL simulation error with <code>lcc</code> compiler: ' <code>cp</code> ' is not recognized as an internal or external command

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1812750	Embedded Coder	Memory sections no longer allow \$ in pre/post pragma statements
1799142	GPU Coder	Incorrect Code Generation: Parallel loops incorrectly fused in code
1750848	HDL Coder	Incorrect Code Generation: Subtraction can provide incorrect results in generated HDL code
1748404	MATLAB Coder	Incorrect Code Generation: Possible wrong answer when generated code contains a trigraph inside of a string literal
1749572	MATLAB Coder	Incorrect Code Generation: for loops with at least two dependent array accesses and more than one level of nesting might be incorrect in generated code
1749704	MATLAB Coder	Crash when generating code for MATLAB Function block that calls the bitand function
1764714	MATLAB Coder	Incorrect Code Generation: Incorrect removal of a function or method that modifies a handle object
1773016	MATLAB Coder	Incorrect Code Generation: validatestring may return an incorrect class when passed mixed class inputs in code generation
1779063	MATLAB Coder	Incorrectly reported run-time error for coding pattern involving persistent loop induction variable and coder.unroll
1787271	MATLAB Coder	Incorrect Code Generation: Incorrect value for element of multidimensional matrix that results from concatenation along the second dimension
1787442	MATLAB Coder	Incorrect Code Generation: Mismatch in behavior with MATLAB for conversion from NaN to integer type
1791965	MATLAB Coder	Incorrect Code Generation: Wrong initial value or data copy for nested structure arrays
1793522	MATLAB Coder	Incorrect Code Generation: Possible run-time crash for element-wise operators with sparse matrix inputs
1793805	MATLAB Coder	Incorrect Code Generation: Write to variable missing when variable is size vector argument of reshape function call within a loop
1794275	MATLAB Coder	Incorrect Code Generation: Mismatch in behavior with MATLAB when using element-wise multiplication (.*) that mixes double and int64 or uint64 inputs
1795739	MATLAB Coder	Incorrect Code Generation: Assignments to global variables might be incorrectly moved outside of a for-loop
1796368	MATLAB Coder	Model update error when performing indexed assignment into a sparse matrix in a MATLAB-based Simulink block
1797971	MATLAB Coder	MATLAB errors or crashes with the following assertion message "Dominator incremental update requires insertion Region." while generating code

1819918	MATLAB Coder	Incorrect Code Generation: Incorrect <code>memcpy</code> call for some index expressions containing computations of the form $x * (1 + y)$
1825960	MATLAB Coder	Incorrect Code Generation: <code>spline</code> function might return wrong answers when there are only two data sites
1782883	MATLAB Report Generator	Folder access error during PDF report generation
1822335	MATLAB Report Generator	PDF image mapping fails to map small areas and implement area styles
1800778	Parallel Computing Toolbox	Unexpected license error can occur if local workers in a Parallel Computing Toolbox pool are idle for longer than FlexLM license timeout period
1816242	Parallel Computing Toolbox	Submitting large jobs to a MATLAB job scheduler might fail due to a <code>TimeoutException</code>
1817753	Parallel Computing Toolbox	Generic clusters do not work in compiled applications
1826686	Parallel Computing Toolbox	Incorrect Code Generation: Sequences of operations with complex <code>gpuArrays</code> that create copies can give wrong answers
1723230	Polyspace Bug Finder	False positive in MISRA C++:2008 checker for rule 9-3-3 when calling a <code>non-const</code> function of base class from a derived class
1791485	Polyspace Code Prover	Incorrect red overflow on bitwise NOT operator
1819256	Polyspace Code Prover	Verification fails during compilation phase with error: <code>assertion failed</code>
1826801	Powertrain Blockset	CI engine dynamometer Resize Engine and Recalibrate Controller test incorrectly updates Mapped CI Engine block lookup tables
1794478	Simscape	Simscape frequency and time equation formulation incorrectly allows non-constant mass matrix, giving wrong simulation results
1797271	Simscape	Wrong linearization results for some linear Simscape models
1543161	Simulink	Incorrect Code Generation: Mismatch in simulation and code generation results when multiword fixed-point data with large word lengths are input to the <code>Sqrt</code> block configured for the <code>rSqrt</code> function
1569963	Simulink	A referenced model with an initialize port on does not support signal logging when simulated in rapid accelerator mode
1715187	Simulink	Incorrect Code Generation: Possible wrong answer between the simulation and generated code for n-D Lookup Table and Interpolation using Prelookup blocks when floating and fixed-point data types are specified
1725750	Simulink	Root Outport block cannot accept Mux block output with number of dimensions greater than 1

1736764	Simulink	Incorrect Code Generation: Incorrect code may be generated for fraction output of Prelookup block in models containing multiple similar Prelookup blocks
1737700	Simulink	Incorrect Code Generation: Incorrect code generated for the n-D Lookup table block with Interpolation method Nearest and Remove protection against out-of-range input in generated code check box selected
1743135	Simulink	Incorrect Code Generation: Incorrect results when simulating a Reset Function block containing conditionally executed subsystems
1744377	Simulink	Incorrect Code Generation: Inactive Variant Bus signals with composite ports may generate uninitialized variables
1746394	Simulink	Constant value leaks out through virtual root Outport block in referenced model before Model block initialize port is called
1749674	Simulink	Incorrect Code Generation: Pulse Generator block simulation inactive level is not zero for fixed-point data type with non-zero bias
1755289	Simulink	Incorrect Code Generation: Variant bus signals along with composite ports may generate uninitialized local variables
1756654	Simulink	Single-input, single-output Inline Variant within Atomic Subsystem fails model simulation
1766325	Simulink	Editing items in ModelExplorer or in editor when ModelExplorer is open crashes Simulink
1766876	Simulink	<code>binfo_mdlref.mat</code> changes after simulation or code generation
1767940	Simulink	Incorrect Code Generation: Uninitialized local variables may be generated with variant bus.
1768713	Simulink	Incorrect Code Generation: Possible wrong answer between simulation and generated code for Interpolation using Prelookup block when Ground block is connected to any index port (kn)
1769682	Simulink	Incorrect logging for signals inside a Terminate Function block referenced from a Model block
1771227	Simulink	Incorrect Code Generation: Composite Bus ports with different variant conditions may generate uninitialized variables
1774801	Simulink	Simulink crashes in rapid accelerator mode when logging signals inside a Terminate Function block that is referenced from a Model block
1781028	Simulink	Incorrect Code Generation: ASCII to String block outputs incorrect string when input comes from Mux block
1782321	Simulink	Incorrect Code Generation: Interpolation using Prelookup block extracts wrong elements when selection port (sm) has negative values
1786300	Simulink	Model reference blocks show model arguments that are no longer in the model workspace
1791690	Simulink	Incorrect Code Generation: The simulation of Direct Lookup Table (n-D) block outputs wrong result for some 1-D tables

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1793273	Simulink	Models using variable-step solvers and adaptive zero-crossing algorithm with multiple "chattering" zero-crossing signals might run slower
1793761	Simulink	Code generation error with LCT generated S-Function when <code>convertNDarrayToRowMajor</code> (or <code>convert2DMatrixToRowMajor</code>) is true
1796998	Simulink	Incorrect Code Generation: Variant Bus may propagate incorrect variant conditions
1799681	Simulink	Setting scalar variables with constant variability or calling the <code>fmi2EnterEvtMode</code> function after initialization returns errors and crashes Simulink
1809368	Simulink	An ASCII to String block contained in an atomic subsystem may only return the first character during accelerated mode simulation
1812036	Simulink	Model with Reusable custom storage class, MATLAB Function block, or Model Reference block may crash if Conditional input branch execution parameter is enabled
1814186	Simulink	Incorrect Code Generation: Scan String parameter and input mismatch may cause inconsistent simulation and code generation answers
1814808	Simulink	Some parameter values are not restored correctly for linked port blocks
1817402	Simulink	Slow performance when running a model with a From File block loading large buses
1824921	Simulink	Parallel builds of model reference simulation targets can fail
1837085	Simulink	Mismatch in behavior with MATLAB for conversion from NaN to integer type
1738576	Simulink Coder	Incorrect Code Generation: Assignments to a handle class object in a MATLAB Function block might be incorrectly missing when there is an alias to the object
1796750	Simulink Coder	Incorrect Code Generation: The C++ class generated from referenced models might incorrectly initialize tunable parameters to 0
1799708	Simulink Coder	Incorrect Code Generation: Assignment statement for MATLAB function block with aliased handle class objects might be missing in generated code
1702865	Simulink Design Verifier	Simulink Design Verifier report generation may fail with unexpected error
1795350	Simulink Design Verifier	Expected output values in report differ from those produced by harness simulation
1820928	Simulink Design Verifier	Configuration Parameters dialog fails to load and displays an error message
1782276	Simulink Requirements	Requirement annotation resizing in Stateflow subchart crashes MATLAB

1830788	Simulink Requirements	If a Requirement Set is opened from a directory that is not the current working directory, Update may fail to match the previously imported requirements
1797632	Simulink Test	Test harness compilation and simulation generates warning: "Matching "Goto" for "From" <block> not found"
1805428	Simulink Test	Duplicate coverage results from Simulink test iterations run with MATLAB Unit Test
1787681	Stateflow	Library link is broken when <code>add_block</code> is used within mask initialization
1813728	Vehicle Dynamics Blockset	Undamped solid axle suspension oscillation when driving vehicle over bumpy terrain
1752204	Vehicle Network Toolbox	J1939 Transmit block does not honor the parameter group data page bit
1814687	Vehicle Network Toolbox	Incorrect Code Generation: CAN Pack and J1939 Transmit blocks generate incorrect results in Rapid Accelerator or code generation mode

Update 5 also contains user interface performance improvements for the AUTOSAR Dictionary dialog.

Bugs Fixed in Update 4 (also included in Update 6)

Bug Report	Product	Summary
1742934	MATLAB	VideoReader fails to read MP4 files with no audio stream
1743664	MATLAB	No indication MATLAB is busy when using the Run Section button in the MATLAB Editor
1747801	MATLAB	Complex fixed-point numeric objects display incorrectly in the Variables editor
1776532	MATLAB	MATLAB might crash at startup or error when using graphics on Linux machines with nouveau or VMware graphics drivers
1782611	MATLAB	<code>cd</code> command fails to change to UNC network directory containing non-ASCII characters
1789116	MATLAB	Days selection in borrow UI cannot be changed
1792111	MATLAB	Source control sometimes causes MATLAB to crash
1799165	MATLAB	Running a section in the MATLAB Editor when MATLAB is started with the <code>-nodesktop</code> option causes an error
1809095	Aerospace Blockset	The Run Failure Analysis in Parallel shortcut in the <code>asbhl120</code> example fails for certain parallel cluster configurations
1794452	Automated Driving System Toolbox	Error when resaving Ground Truth Labeler session containing pixel labels

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1812102	Bioinformatics Toolbox	getembl returns "Internal Server Error"
1759524	Embedded Coder	Incorrect Code Generation: Custom model step and initialize function prototypes ignored when generating code
1770563	Embedded Coder	Incorrect Code Generation: The bus elements of a variant virtual bus are unconditionally generated in the code
1789785	HDL Coder	hdl.RAM System object cannot break algebraic loops when used in MATLAB System block
1787643	MATLAB Coder	Incorrect Code Generation: Possible wrong answer when the output of a function call is assigned to a variable that is passed as input
1729458	MATLAB Compiler	Error when using <code>uigetdir</code> in a deployed application
1811427	MATLAB Report Generator	Blank page follows last section in a report
1805073	Parallel Computing Toolbox	Incorrect Code Generation: Math expressions with gpuArrays that involve multiple operations with implicit expansion along different dimensions can return incorrect results.
1783706	Partial Differential Equation Toolbox	Incorrect shear strain values in the structural mechanics workflow
1762880	Polyspace Bug Finder	Incorrect display of MISRA C:2012 rule 12.3 when the rule violation occurs in a macro expansion
1783230	Polyspace Bug Finder	<code>polyspace-configure</code> does not find all header files when compiler is used in Cygwin environment
1791034	Polyspace Code Prover	Incorrect red Non-Terminating Call on a function with cross recursive calls
1711983	Simulink	Some custom library blocks don't appear in Library Browser
1772818	Simulink	Incorrect Code Generation: Interpolation Using Prelookup block inlines symbolic dimensions for table data when specified via the Table data port
1776634	Simulink	Generated code for Shift Arithmetic block might contain an unused DWork variable <code>*_HasIssuedWarning</code>
1784294	Simulink	Error when resolving a configuration reference in the base workspace through a data dictionary with base workspace access
1791962	Simulink	Subsystems open off-center when using a high DPI display in Windows
1796464	Simulink	<code>RapidAcceleratorParameterSets</code> specified in <code>SimulationInput</code> objects is silently ignored with <code>RapidAcceleratorUpToDateCheck 'off'</code>
1771005	Simulink Coder	Unused local variables in model initialization function

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1752349	Simulink Desktop Real-Time	Simulation does not start when running a model in real time
1802354	Simulink Real-Time	Speedgoat target computer booted in Standalone mode does not load and run real-time application
1774941	Simulink Requirements	Incoming links are not shown in Property Inspector when a block is selected in Requirements Perspective
1796279	Simulink Requirements	Error when a link whose destination is an external reference to a ReqIF item is selected in Links View
1766476	Simulink Test	Logging for verify statements in Simulink Test Real-Time test case may skip samples
1723130	Stateflow	Generating code for Stateflow Chart might cause MATLAB to crash
1794026	Vehicle Dynamics Blockset	Unexpected vehicle motion at stopped conditions
1739595	Vehicle Network Toolbox	XCP Data Acquisition block does not let you specify the DAQ List Priority
1745541	Vehicle Network Toolbox	Simulink crashes when running a model with CAN Pack blocks in accelerator mode
1793481	Vehicle Network Toolbox	Incorrect Code Generation: J1939 Transmit block with floating-point input might lose output precision

Update 4 also fixes an issue introduced in Update 3 that could cause some Simulink Real-Time Target target computers to fail to boot when you rebuilt the kernel. You must rebuild the kernel again after installing Update 4 for the fix to take effect.

Bugs Fixed in Update 3 (also included in Update 6)

Bug Report	Product	Summary
1729054	MATLAB	Mixed scalar and empty inputs to graph constructor, digraph constructor, and addedge function return wrong results
1734763	MATLAB	Input command prompt not displayed when invoked from graphics, uimenu, or App designer callbacks
1736067	MATLAB	audioread returns empty matrix when reading certain MP4 files on Windows®
1743659	MATLAB	Live Editor does not open on Windows Server 2016
1753793	MATLAB	Changing the MATLAB path can cause errors when printing or exporting figures or Simulink models
1759533	MATLAB	External component has thrown an exception error when accessing nested abstract .NET classes
1761213	MATLAB	Invalid MEX-file error using Fortran MEX files built in R2006a and earlier

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1765603	MATLAB	Some MATLAB tools might fail to open on Ubuntu 18.04
1768487	MATLAB	svd with two or three output arguments does not converge for some rare matrices
1769239	MATLAB	MATLAB does not correctly load complex numbers from certain MAT files
1774057	MATLAB	Memory leak in Java engine when a string is returned from MATLAB
1775196	MATLAB	uipickerm is positioned out of view in tab and panel
1725879	Embedded Coder	Code generation fails for models which use symbolic dimension with leading or trailing 1-s in the specification
1740170	Embedded Coder	Unnecessary include of <code>Rte_Type.h</code> in <code>model_types.h</code>
1744182	Embedded Coder	Incorrect Code Generation: Uninitialized local variables generated with Variant Subsystem when <code>CombineOutputUpdateFcns</code> is selected in Configuration Parameters
1754608	Embedded Coder	MATLAB crashes when XCP external mode simulation with execution-time profiling fails
1765892	Embedded Coder	Misleading error message for coder dictionaries that are incompatible with current release
1774427	Embedded Coder	Incorrect Code Generation: Code/simulation mismatch when Simulink Function is in an algebraic loop
1784128	Embedded Coder	Shared header file does not include necessary <code>Simulink.AliasType</code> header files
1740241	GPU Coder	Incorrect Code Generation: Running the code generated from a SegNet network produces incorrect results
1740548	GPU Coder	Incorrect Code Generation: GPU Coder creates a kernel with uninitialized variables under certain conditions
1741614	GPU Coder	GPU coder does not recognize custom files with the <code>.hpp</code> or <code>.cu</code> extension when using the <code>codegen</code> command
1742368	GPU Coder	MATLAB crashes when a parallel for-loop has variable bounds and requires large local memory exceeding the threshold
1748561	GPU Coder	Code generation from deep learning networks for TensorRT INT8 target errors out
1762344	GPU Coder	Missing explicit link for makefile generated by <code>cnncodegen</code> command when generating code for Intel MKL-DNN targets
1744391	HDL Coder	HDL Code Generation Report displays Japanese comments incorrectly in the generated code

1752107	HDL Coder	Incorrect Code Generation: Incorrect HDL code generated when using clock-rate pipelining optimization
1788943	Instrument Control Toolbox	UDP Receive block error: Too many input arguments
1769989	MATLAB Report Generator	<code>mlreportgen.reporter.Figure</code> reporter always uses default font size when creating figure snapshot
1776471	MATLAB Report Generator	<code>Report.getReportLayout</code> returns wrong layout
1765534	Neural Network Toolbox	Slow training and prediction when using 'DispatchInBackground' in an <code>augmentedImageDatastore</code> reconstructed from a large <code>Imagestore</code>
1786823	Powertrain Blockset	SI and CI dynamometer reference application Generate Mapped Engine from Spreadsheet produces incorrect torque lookup tables
1787582	Powertrain Blockset	Drive Cycle Source block does not retain the Drive cycle source setting after you save and reopen the model
1759519	Predictive Maintenance Toolbox	Degradation-based RUL estimators generate incorrect result for remaining useful life (RUL)
1762795	Simscape	Simscape model throws an error that 'SimscapeLogToSDI' parameter is not present in the model
1757746	Simulink	Incorrect Code Generation: Incorrect parentheses and inconsistent relational/logical conditions with Inline Variant blocks
1769148	Simulink	Models containing Variant blocks may take long time to update
1781498	Simulink	Simulink dependency analysis does not return results for files with a corresponding SLMX file that is not on the MATLAB path
1792314	Simulink	Display of the psia and psig units is incorrect in the Simulink Editor
1778360	Simulink Check	Customized edit-time checks might flag all blocks if any of the naming checks are in the configuration
1722468	Simulink Coder	Compiler warnings due to a missing cast from pointer-to-const to pointer
1737827	Simulink Coder	Incorrect Code Generation: Incorrect behavior for the code generated for a Probe block whose input has a constant sample time
1740430	Simulink Coder	Code generator triggers software assertion for models that include a Simulink function that calls another Simulink function
1744653	Simulink Coder	Error when generating code that incorrectly says there are unsaved changes
1766185	Simulink Design Verifier	Simulink Design Verifier may take longer time than the specified Maximum analysis time

1772575	Simulink Design Verifier	Test case extension may cause the analysis to time-out before the Maximum analysis time
1781225	Simulink Design Verifier	Intermediate results are not updated in the Informer during SLDV analysis for Design Error Detection and Property Proving modes
1725515	Simulink Desktop Real-Time	Computer shuts down or does not respond when simulating a Simulink Desktop Real-Time model
1771908	Simulink Real-Time	Incorrect Code Generation: Silent wrong answer might occur due to sporadic data corruption on the target computer
1759611	Simulink Report Generator	<code>slreportgen.finder.DiagramElementResult</code> <code>getReporter</code> returns empty reporter for <code>Simulink.Port</code> or <code>Simulink.Segment</code> object
1773612	Simulink Report Generator	Diagram reporter does not report <code>Stateflow.SLFunction</code> subsystem
1773624	Simulink Report Generator	Report API <code>DiagramElementFinder</code> fails to find elements in <code>Stateflow.SLFunction</code> object
1775100	Simulink Report Generator	<code>slwebview_cov</code> produces errors when generating model Web view
1726105	Simulink Requirements	When importing requirements from ReqIF file, attributes of Enum type are not imported correctly
1742926	Simulink Requirements	<code>rmidocrename</code> produces broken URLs when applied to links where destination documents are URLs
1762643	Simulink Requirements	ReqIF file import fails to import images when embedded as OLE objects
1771070	Simulink Requirements	Generating report for requirements set from default template checks out MATLAB Report Generator license
1738631	Stateflow	Incorrect Code Generation: Stateflow absolute time temporal logic incorrectly evaluated for small integer types
1787591	Vehicle Dynamics Blockset	Maneuver reference applications that use the <code>PassVeh7DOF</code> bicycle model variant incorrectly calculate tire pressure
1783773	Vehicle Network Toolbox	Syntax error when generating code from CAN Pack block with certain offset and factor values

Update 3 also contains performance improvements for the labeling apps in Computer Vision System Toolbox, and updates the makefile for GPU Coder's Multi-Platform Deep Learning Targeting example.

Bugs Fixed in Update 2 (also included in Update 6)

Bug Report	Product	Summary
1755733	MATLAB	<code>imread</code> function returns incorrect data for TIFF images that have half-precision floating-point format

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1757132	MATLAB	MATLAB crashes after variable scope change in eval or script and then builtin function call
1762680	MATLAB	Saving objects to MAT files causes memory leak
1768996	MATLAB	Contour plot does not properly update to reflect changes in <code>ZData</code> values
1776526	Aerospace Blockset	The Generate Run Script block parameters Install FlightGear scenery during simulation and Disable FlightGear shader options are ignored
1746368	Automated Driving System Toolbox	Importing groundTruth labels containing line and rectangle labels results in error
1764690	Computer Vision Toolbox	<code>estimateStereoBaseline</code> function returns incorrect results
1604051	Data Acquisiton Toolbox	Exporting a clock signal from certain National Instruments devices might generate an error
1764718	Econometrics Toolbox	Error when you export variables from Econometric Modeler that overwrite existing variables in the MATLAB Workspace
1689143	Embedded Coder	Compiling the generated code may result in warnings or errors regarding the constness of pointer variables
1735526	Embedded Coder	Incorrect Code Generation: Incorrect generated code is possible for variant subsystem with default variant and specific optimization model parameter setting
1755403	Embedded Coder	Incorrect Code Generation: Incorrect code is possible for scalar Data Store Memory block value that is read inside reusable subsystem
1772936	Embedded Coder	Incorrect Code Generation: Simulink Function blocks that specify shared input/output argument might reuse wrong input in generated code
1758384	Image Processing Toolbox	Error when training dnCNNLayers using denoisingImage datastore with Shuffle enabled in <code>trainingOptions</code>
1759154	Image Processing Toolbox	<code>bwskel</code> with 'MinBranchLength' option removes unbranched skeleton segments
1761312	Image Processing Toolbox	<code>bwmorph3</code> crashes with large inputs
1761999	Image Processing Toolbox	<code>imwarp</code> fails for 'cubic' interpolation of image with data type logical
1738190	MATLAB Coder	MATLAB crash when running MEX generated with integrity checks disabled
1752037	MATLAB Coder	Incorrect Code Generation: Code generated for <code>inpolygon</code> may return wrong answers for nonvector inputs
1736115	MATLAB Compiler SDK	Error when packaging a deployable archive with a function signature file using the Production Server Compiler app

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1740309	MATLAB Report Generator	DOM API HTML and HTMLFile objects incorrectly convert vertical-align format
1740425	MATLAB Report Generator	Margin, border, and padding formats corrupt PDF style sheet
1750430	MATLAB Report Generator	Every chapter in a Word report starts on page 1
1762020	MATLAB Report Generator	Nested tables overflow the page
1745259	Parallel Computing Toolbox	Cluster profile validation fails when using a proxy
1755771	Polyspace Bug Finder	Stray processes after pop-up message: Failed to connect to the license server. Polyspace will exit now.
1740766	Simscape Power Systems	Synchronous machine Canay Inductance causes decrease in fault current and affects the speed of the machine in the example model power_machines
1732613	Simulink	Slow performance when selecting the root node of a Simulink Data Dictionary in Model Explorer
1740990	Simulink	Variant Subsystems with export function models as choices might cause build failure
1742439	Simulink	Model with variant subsystem might generate uninitialized local variable in the code with build warnings
1747158	Simulink	Simulink.VariantManager.convertToVariant might fail for a block with Index exceeds array bounds error
1747732	Simulink	Incorrect variant condition propagation for models with switch blocks and variant bus signals
1748412	Simulink	Error when generating Model Advisor reports in PDF and Word format
1752899	Simulink	During accelerator mode simulation, long string outputs exceeding specified maximum lengths are not truncated
1759627	Simulink	Signal properties are not saved correctly when a model contains multiple Signal Editor blocks
1774330	Simulink	String data type on the output port of FMU Import Block may cause Simulink to crash
1762661	Simulink Design Verifier	Simulink Design Verifier analysis might appear to be frozen for models with many bus inputs
1763741	Simulink Real-Time	Error or exception occurs when MATLAB release version and Simulink Real-Time kernel version do not match
1745051	Simulink Report Generator	System Design Description report for models with requirements might produce Java exception

1748164	Simulink Report Generator	Table title styles for Report API Simulink reporters not applied correctly
1753564	Simulink Report Generator	Figure caption styles for Simulink Report API reporters not applied correctly
1742125	Simulink Requirements	Simulink linking option missing in RMI dialogs and menus
1768683	Simulink Requirements	Error when importing .reqif or .reqifz files
1771919	Simulink Requirements	Update does not modify "Modified on" of a requirement when only its custom attribute value is changed, thus failing to trigger the change information
1747816	Simulink Test	Incomplete <code>verify</code> signal plots in Test Manager
1731060	Stateflow	MATLAB might crash when using temporal operators with different data types
1732013	Text Analytics Toolbox	<code>normalizeWords ("alize")</code> crashes MATLAB

Update 2 also contains Simulink performance improvements and improved the efficiency of code generated for some models with S-functions.

Bugs Fixed in Update 1 (also included in Update 6)

Bug Report	Product	Summary
1704554	MATLAB	Copying to the clipboard stops working in the Live Editor in Windows 10
1734994	MATLAB	<code>fitsread</code> returns an error reading character data from certain FITS files
1735712	MATLAB	VideoReader causes MATLAB to crash when reading certain Motion JPEG AVI files on Windows
1742538	MATLAB	Accessing compound HDF5 datasets containing long member names crashes MATLAB
1743528	MATLAB	Unable to install support packages to the default directory on MAC and Linux
1752355	MATLAB	Links for support package documentation missing or broken after installation
1753685	MATLAB	Graphics might not display in figure windows on Linux machines with certain NVIDIA drivers
1742006	Computer Vision System Toolbox	Out-of-memory error when running the <i>Semantic Segmentation Using Deep Learning</i> example

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1754814	Database Toolbox	Executing the <code>exec</code> function on an Oracle database connection many times eventually leads to a maximum open cursors exceeded error
1748310	Datafeed Toolbox	Bloomberg TimeOut property value is not used, <code>dateFormat</code> variable error when executing the Bloomberg <code>timeseries</code> function
1745481	Embedded Coder	Embedded Coder Dictionary contents missing from data dictionary when opened in new MATLAB session
1742838	Fuzzy Logic Toolbox	Extrinsic function error when running a model-referenced Fuzzy Logic Controller block in Accelerator, SIL, or PIL simulation mode
1744008	Image Processing Toolbox	<code>regionprops3</code> returns incorrect results for 'ConvexImage'
1739984	Parallel Computing Toolbox	Use of tall arrays and <code>mapreduce</code> with MATLAB Parallel Cloud produces an error
1739937	Simulink	Test harnesses and their file dependencies do not appear in the Simulink Project dependency analysis
1741539	Simulink	MATLAB can crash when a submodel contains a constant signal feeding a string block and runs in accelerator mode
1741741	Simulink	Quick Insert does not show list of recommended blocks
1749333	Simulink	Cannot create a new Simulink project using the Simulink start page
1751139	Simulink	Libraries exported to previous version can have broken links
1752328	Simulink	MATLAB can crash during shutdown when data dictionary reference is removed
1753266	Simulink	Output from a model containing a String Constant block can be overwritten by output from other string blocks during simulation
1744872	Simulink Design Optimization	Parameter Estimation tool and Sensitivity Analysis tool do not save sessions with multiple experiments
1737768	Simulink Real-Time	Initialize block or Terminate block in model produces build error
1742651	Simulink Real-Time	Misleading "must be a valid scope identifier" message from incomplete real-time interrupt configuration
1745385	Simulink Real-Time	Execution of real-time models that contain interrupt triggered function-call subsystems call the hardware start function twice
1714118	Simulink Requirements	Invoking the Update functionality on a Requirement Set that uses custom attributes may lead to the corruption of the Requirement Set file
1752871	Simulink Requirements	Error when selecting a *.reqifz file from the list in Document Import options dialog
1747033	Simulink Test	<code>null</code> is not an object error when opening the Test Sequence editor

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1725578	Stateflow	Incorrect results on the second run of Fast Restart for some Stateflow charts
1755918	Symbolic Math Toolbox	Symbolic Math Toolbox hangs after installing Windows 10 Spring Creator Update 2018
1722448	Vehicle Dynamics Blockset	Simulation errors when the MATLAB Drive Connector and 3D Engine are both enabled
1755317	Wavelet Toolbox	Mismatch between ECG Classification example documentation and MATLAB script

Update 1 also contains performance improvements, updates Aerospace Blockset's HL-20 Project example, and adds support for Updates to the **Help > Check for Updates** dialog.

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