

## R2018a Update 4 Release Notes

### Information about limitations and bugs fixed

R2018a Update 4 contains bug fixes to R2018a.

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 4

Bug Report	Product	Summary
<a href="#">1742934</a>	MATLAB	VideoReader fails to read MP4 files with no audio stream
<a href="#">1743664</a>	MATLAB	No indication MATLAB is busy when using the <b>Run Section</b> button in the MATLAB Editor
<a href="#">1747801</a>	MATLAB	Complex fixed-point numeric objects display incorrectly in the Variables editor
<a href="#">1776532</a>	MATLAB	MATLAB might crash at startup or error when using graphics on Linux machines with nouveau or VMware graphics drivers
<a href="#">1782611</a>	MATLAB	<code>cd</code> command fails to change to UNC network directory containing non-ASCII characters
<a href="#">1789116</a>	MATLAB	Days selection in borrow UI cannot be changed

Bug Report	Product	Summary
<a href="#">1792111</a>	MATLAB	Source control sometimes causes MATLAB to crash
<a href="#">1799165</a>	MATLAB	Running a section in the MATLAB Editor when MATLAB is started with the <code>-nodesktop</code> option causes an error
<a href="#">1809095</a>	Aerospace Blockset	The <b>Run Failure Analysis in Parallel</b> shortcut in the <code>asbh120</code> example fails for certain parallel cluster configurations
<a href="#">1794452</a>	Automated Driving System Toolbox	Error when resaving Ground Truth Labeler session containing pixel labels
<a href="#">1812102</a>	Bioinformatics Toolbox	<code>getemb1</code> returns "Internal Server Error"
<a href="#">1759524</a>	Embedded Coder	<b>Incorrect Code Generation:</b> Custom model step and initialize function prototypes ignored when generating code
<a href="#">1770563</a>	Embedded Coder	<b>Incorrect Code Generation:</b> The bus elements of a variant virtual bus are unconditionally generated in the code
<a href="#">1789785</a>	HDL Coder	hdl.RAM System object cannot break algebraic loops when used in MATLAB System block
<a href="#">1787643</a>	MATLAB Coder	<b>Incorrect Code Generation:</b> Possible wrong answer when the output of a function call is assigned to a variable that is passed as input
<a href="#">1729458</a>	MATLAB Compiler	Error when using <code>uigetdir</code> in a deployed application
<a href="#">1811427</a>	MATLAB Report Generator	Blank page follows last section in a report
<a href="#">1805073</a>	Parallel Computing Toolbox	<b>Incorrect Code Generation:</b> Math expressions with <code>gpuArrays</code> that involve multiple operations with implicit expansion along different dimensions can return incorrect results.
<a href="#">1783706</a>	Partial Differential Equation Toolbox	Incorrect shear strain values in the structural mechanics workflow
<a href="#">1762880</a>	Polyspace Bug Finder	Incorrect display of MISRA C:2012 rule 12.3 when the rule violation occurs in a macro expansion
<a href="#">1783230</a>	Polyspace Bug Finder	<code>polyspace-configure</code> does not find all header files when compiler is used in Cygwin environment

Bug Report	Product	Summary
<a href="#">1791034</a>	Polyspace Code Prover	Incorrect red Non-Terminating Call on a function with cross recursive calls
<a href="#">1711983</a>	Simulink	Some custom library blocks don't appear in Library Browser
<a href="#">1772818</a>	Simulink	<b>Incorrect Code Generation:</b> Interpolation Using Prelookup block inlines symbolic dimensions for table data when specified via the Table data port
<a href="#">1776634</a>	Simulink	Generated code for Shift Arithmetic block might contain an unused DWork variable * <b><code>_HasIssuedWarning</code></b>
<a href="#">1784294</a>	Simulink	Error when resolving a configuration reference in the base workspace through a data dictionary with base workspace access
<a href="#">1791962</a>	Simulink	Subsystems open off-center when using a high DPI display in Windows
<a href="#">1796464</a>	Simulink	<b>RapidAcceleratorParameterSets</b> specified in <b>SimulationInput</b> objects is silently ignored with <b>RapidAcceleratorUpToDateCheck</b> 'off'
<a href="#">1771005</a>	Simulink Coder	Unused local variables in model initialization function
<a href="#">1752349</a>	Simulink Desktop Real-Time	Simulation does not start when running a model in real time
<a href="#">1802354</a>	Simulink Real-Time	Speedgoat target computer booted in Standalone mode does not load and run real-time application
<a href="#">1774941</a>	Simulink Requirements	Incoming links are not shown in Property Inspector when a block is selected in Requirements Perspective
<a href="#">1796279</a>	Simulink Requirements	Error when a link whose destination is an external reference to a ReqIF item is selected in Links View
<a href="#">1766476</a>	Simulink Test	Logging for verify statements in Simulink Test Real-Time test case may skip samples

Bug Report	Product	Summary
<a href="#">1723130</a>	Stateflow	Generating code for Stateflow Chart might cause MATLAB to crash
<a href="#">1794026</a>	Vehicle Dynamics Blockset	Unexpected vehicle motion at stopped conditions
<a href="#">1739595</a>	Vehicle Network Toolbox	XCP Data Acquisition block does not let you specify the DAQ List Priority
<a href="#">1745541</a>	Vehicle Network Toolbox	Simulink crashes when running a model with CAN Pack blocks in accelerator mode
<a href="#">1793481</a>	Vehicle Network Toolbox	<b>Incorrect Code Generation:</b> 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 fixed in Update 4)

Bug Report	Product	Summary
<a href="#">1729054</a>	MATLAB	Mixed scalar and empty inputs to graph constructor, <code>digraph</code> constructor, and <code>addedge</code> function return wrong results
<a href="#">1734763</a>	MATLAB	Input command prompt not displayed when invoked from graphics, uimenu, or App designer callbacks
<a href="#">1736067</a>	MATLAB	<code>audioread</code> returns empty matrix when reading certain MP4 files on Windows <sup>®</sup>
<a href="#">1743659</a>	MATLAB	Live Editor does not open on Windows Server 2016
<a href="#">1753793</a>	MATLAB	Changing the MATLAB path can cause errors when printing or exporting figures or Simulink models
<a href="#">1759533</a>	MATLAB	<b>External component has thrown an exception</b> error when accessing nested abstract .NET classes
<a href="#">1761213</a>	MATLAB	Invalid MEX-file error using Fortran MEX files built in R2006a and earlier
<a href="#">1765603</a>	MATLAB	Some MATLAB tools might fail to open on Ubuntu 18.04

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

Bug Report	Product	Summary
<a href="#">1744391</a>	HDL Coder	HDL Code Generation Report displays Japanese comments incorrectly in the generated code
<a href="#">1752107</a>	HDL Coder	<b>Incorrect Code Generation:</b> Incorrect HDL code generated when using clock-rate pipelining optimization
<a href="#">1788943</a>	Instrument Control Toolbox	UDP Receive block error: <b>Too many input arguments</b>
<a href="#">1769989</a>	MATLAB Report Generator	<code>mlreportgen.reporter.Figure</code> reporter always uses default font size when creating figure snapshot
<a href="#">1776471</a>	MATLAB Report Generator	<code>Report.getReportLayout</code> returns wrong layout
<a href="#">1765534</a>	Neural Network Toolbox	Slow training and prediction when using 'DispatchInBackground' in an <code>augmentedImageDatastore</code> reconstructed from a large <code>ImageDatastore</code>
<a href="#">1786823</a>	Powertrain Blockset	SI and CI dynamometer reference application Generate Mapped Engine from Spreadsheet produces incorrect torque lookup tables
<a href="#">1787582</a>	Powertrain Blockset	Drive Cycle Source block does not retain the <b>Drive cycle source</b> setting after you save and reopen the model
<a href="#">1759519</a>	Predictive Maintenance Toolbox	Degradation-based RUL estimators generate incorrect result for remaining useful life (RUL)
<a href="#">1762795</a>	Simscape	Simscape model throws an error that 'SimscapeLogToSDI' parameter is not present in the model
<a href="#">1757746</a>	Simulink	<b>Incorrect Code Generation:</b> Incorrect parentheses and inconsistent relational/logical conditions with Inline Variant blocks
<a href="#">1769148</a>	Simulink	Models containing Variant blocks may take long time to update
<a href="#">1781498</a>	Simulink	Simulink dependency analysis does not return results for files with a corresponding SLMX file that is not on the MATLAB path
<a href="#">1792314</a>	Simulink	Display of the psia and psig units is incorrect in the Simulink Editor
<a href="#">1778360</a>	Simulink Check	Customized edit-time checks might flag all blocks if any of the naming checks are in the configuration
<a href="#">1722468</a>	Simulink Coder	Compiler warnings due to a missing cast from pointer-to-const to pointer

Bug Report	Product	Summary
<a href="#">1737827</a>	Simulink Coder	Incorrect Code Generation: Incorrect behavior for the code generated for a Probe block whose input has a constant sample time
<a href="#">1740430</a>	Simulink Coder	Code generator triggers software assertion for models that include a Simulink function that calls another Simulink function
<a href="#">1744653</a>	Simulink Coder	Error when generating code that incorrectly says there are unsaved changes
<a href="#">1766185</a>	Simulink Design Verifier	Simulink Design Verifier may take longer time than the specified <b>Maximum analysis time</b>
<a href="#">1772575</a>	Simulink Design Verifier	Test case extension may cause the analysis to time-out before the <b>Maximum analysis time</b>
<a href="#">1781225</a>	Simulink Design Verifier	Intermediate results are not updated in the Informer during SLDV analysis for Design Error Detection and Property Proving modes
<a href="#">1725515</a>	Simulink Desktop Real-Time	Computer shuts down or does not respond when simulating a Simulink Desktop Real-Time model
<a href="#">1771908</a>	Simulink Real-Time	<b>Incorrect Code Generation:</b> Silent wrong answer might occur due to sporadic data corruption on the target computer
<a href="#">1759611</a>	Simulink Report Generator	<code>slreportgen.finder.DiagramElementResult getReporter</code> returns empty reporter for <code>Simulink.Port</code> or <code>Simulink.Segment</code> object
<a href="#">1773612</a>	Simulink Report Generator	Diagram reporter does not report <code>Stateflow.SLFunction</code> subsystem
<a href="#">1773624</a>	Simulink Report Generator	Report API <code>DiagramElementFinder</code> fails to find elements in <code>Stateflow.SLFunction</code> object
<a href="#">1775100</a>	Simulink Report Generator	<code>slwebview_cov</code> produces errors when generating model Web view
<a href="#">1726105</a>	Simulink Requirements	When importing requirements from ReqIF file, attributes of Enum type are not imported correctly
<a href="#">1742926</a>	Simulink Requirements	<code>rmidocrename</code> produces broken URLs when applied to links where destination documents are URLs

Bug Report	Product	Summary
<a href="#">1762643</a>	Simulink Requirements	ReqIF file import fails to import images when embedded as OLE objects
<a href="#">1771070</a>	Simulink Requirements	Generating report for requirements set from default template checks out MATLAB Report Generator license
<a href="#">1738631</a>	Stateflow	<b>Incorrect Code Generation:</b> Stateflow absolute time temporal logic incorrectly evaluated for small integer types
<a href="#">1787591</a>	Vehicle Dynamics Blockset	Maneuver reference applications that use the <b>PassVeh7DOF</b> bicycle model variant incorrectly calculate tire pressure
<a href="#">1783773</a>	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 fixed in Update 4)

Bug Report	Product	Summary
<a href="#">1755733</a>	MATLAB	imread function returns incorrect data for TIFF images that have half-precision floating-point format
<a href="#">1757132</a>	MATLAB	MATLAB crashes after variable scope change in eval or script and then builtin function call
<a href="#">1762680</a>	MATLAB	Saving objects to MAT files causes memory leak
<a href="#">1768996</a>	MATLAB	Contour plot does not properly update to reflect changes in <b>zData</b> values
<a href="#">1776526</a>	Aerospace Blockset	The Generate Run Script block parameters <b>Install FlightGear scenery during simulation and Disable FlightGear shader options</b> are ignored
<a href="#">1746368</a>	Automated Driving System Toolbox	Importing groundTruth labels containing line and rectangle labels results in error
<a href="#">1764690</a>	Computer Vision Toolbox	<b>estimateStereoBaseline</b> function returns incorrect results



Bug Report	Product	Summary
<a href="#">1604051</a>	Data Acquisition Toolbox	Exporting a clock signal from certain National Instruments devices might generate an error
<a href="#">1764718</a>	Econometrics Toolbox	Error when you export variables from Econometric Modeler that overwrite existing variables in the MATLAB Workspace
<a href="#">1689143</a>	Embedded Coder	Compiling the generated code may result in warnings or errors regarding the constness of pointer variables
<a href="#">1735526</a>	Embedded Coder	<b>Incorrect Code Generation:</b> Incorrect generated code is possible for variant subsystem with default variant and specific optimization model parameter setting
<a href="#">1755403</a>	Embedded Coder	<b>Incorrect Code Generation:</b> Incorrect code is possible for scalar Data Store Memory block value that is read inside reusable subsystem
<a href="#">1772936</a>	Embedded Coder	<b>Incorrect Code Generation:</b> Simulink Function blocks that specify shared input/output argument might reuse wrong input in generated code
<a href="#">1758384</a>	Image Processing Toolbox	Error when training <code>dnCNNLayers</code> using <code>denoisingImageDatastore</code> with Shuffle enabled in <code>trainingOptions</code>
<a href="#">1759154</a>	Image Processing Toolbox	<code>bwskel</code> with 'MinBranchLength' option removes unbranched skeleton segments
<a href="#">1761312</a>	Image Processing Toolbox	<code>bwmorph3</code> crashes with large inputs
<a href="#">1761999</a>	Image Processing Toolbox	<code>imwarp</code> fails for 'cubic' interpolation of image with data type <code>logical</code>
<a href="#">1738190</a>	MATLAB Coder	MATLAB crash when running MEX generated with integrity checks disabled
<a href="#">1752037</a>	MATLAB Coder	<b>Incorrect Code Generation:</b> Code generated for inpolygon may return wrong answers for nonvector inputs
<a href="#">1736115</a>	MATLAB Compiler SDK	Error when packaging a deployable archive with a function signature file using the Production Server Compiler app
<a href="#">1740309</a>	MATLAB Report Generator	DOM API <code>HTML</code> and <code>HTMLFile</code> objects incorrectly convert <code>vertical-align</code> format
<a href="#">1740425</a>	MATLAB Report Generator	Margin, border, and padding formats corrupt PDF style sheet
<a href="#">1750430</a>	MATLAB Report Generator	Every chapter in a Word report starts on page 1
<a href="#">1762020</a>	MATLAB Report Generator	Nested tables overflow the page

Bug Report	Product	Summary
1745259	Parallel Computing Toolbox	Cluster profile validation fails when using a proxy
1755771	Polyspace Bug Finder	Stray processes after pop-up message: <b>Failed to connect to the license server. Polyspace will exit now.</b>
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	<b>Simulink.VariantManager.convertToVariant</b> might fail for a block with <b>Index exceeds array bounds</b> 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

Bug Report	Product	Summary
<a href="#">1742125</a>	Simulink Requirements	Simulink linking option missing in RMI dialogs and menus
<a href="#">1768683</a>	Simulink Requirements	Error when importing .reqif or .reqifz files
<a href="#">1771919</a>	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
<a href="#">1747816</a>	Simulink Test	Incomplete <b>verify</b> signal plots in Test Manager
<a href="#">1731060</a>	Stateflow	MATLAB might crash when using temporal operators with different data types
<a href="#">1732013</a>	Text Analytics Toolbox	<b>normalizeWords("alize")</b> 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 fixed in Update 4)

Bug Report	Product	Summary
<a href="#">1704554</a>	MATLAB	Copying to the clipboard stops working in the Live Editor in Windows 10
<a href="#">1734994</a>	MATLAB	<b>fitsread</b> returns an error reading character data from certain FITS files
<a href="#">1735712</a>	MATLAB	VideoReader causes MATLAB to crash when reading certain Motion JPEG AVI files on Windows
<a href="#">1742538</a>	MATLAB	Accessing compound HDF5 datasets containing long member names crashes MATLAB
<a href="#">1743528</a>	MATLAB	Unable to install support packages to the default directory on MAC and Linux
<a href="#">1752355</a>	MATLAB	Links for support package documentation missing or broken after installation
<a href="#">1753685</a>	MATLAB	Graphics might not display in figure windows on Linux machines with certain NVIDIA drivers
<a href="#">1742006</a>	Computer Vision System Toolbox	Out-of-memory error when running the Semantic Segmentation Using Deep Learning example
<a href="#">1754814</a>	Database Toolbox	Executing the <b>exec</b> function on an Oracle database connection many times eventually leads to a <b>maximum open cursors exceeded</b> error

Bug Report	Product	Summary
<a href="#">1748310</a>	Datafeed Toolbox	Bloomberg TimeOut property value is not used, <code>dateFormat</code> variable error when executing the Bloomberg <code>timeseries</code> function
<a href="#">1745481</a>	Embedded Coder	Embedded Coder Dictionary contents missing from data dictionary when opened in new MATLAB session
<a href="#">1742838</a>	Fuzzy Logic Toolbox	Extrinsic function error when running a model-referenced Fuzzy Logic Controller block in Accelerator, SIL, or PIL simulation mode
<a href="#">1744008</a>	Image Processing Toolbox	<code>regionprops3</code> returns incorrect results for 'ConvexImage'
<a href="#">1739984</a>	Parallel Computing Toolbox	Use of tall arrays and <code>mapreduce</code> with MATLAB Parallel Cloud produces an error
<a href="#">1739937</a>	Simulink	Test harnesses and their file dependencies do not appear in the Simulink Project dependency analysis
<a href="#">1741539</a>	Simulink	MATLAB can crash when a submodel contains a constant signal feeding a string block and runs in accelerator mode
<a href="#">1741741</a>	Simulink	Quick Insert does not show list of recommended blocks
<a href="#">1749333</a>	Simulink	Cannot create a new Simulink project using the Simulink start page
<a href="#">1751139</a>	Simulink	Libraries exported to previous version can have broken links
<a href="#">1752328</a>	Simulink	MATLAB can crash during shutdown when data dictionary reference is removed
<a href="#">1753266</a>	Simulink	Output from a model containing a String Constant block can be overwritten by output from other string blocks during simulation
<a href="#">1744872</a>	Simulink Design Optimization	Parameter Estimation tool and Sensitivity Analysis tool do not save sessions with multiple experiments

Bug Report	Product	Summary
<a href="#">1737768</a>	Simulink Real-Time	Initialize block or Terminate block in model produces build error
<a href="#">1742651</a>	Simulink Real-Time	Misleading "must be a valid scope identifier" message from incomplete real-time interrupt configuration
<a href="#">1745385</a>	Simulink Real-Time	Execution of real-time models that contain interrupt triggered function-call subsystems call the hardware start function twice
<a href="#">1714118</a>	Simulink Requirements	Invoking the Update functionality on a Requirement Set that uses custom attributes may lead to the corruption of the Requirement Set file
<a href="#">1752871</a>	Simulink Requirements	Error when selecting a *.reqifz file from the list in Document Import options dialog
<a href="#">1747033</a>	Simulink Test	null is not an object error when opening the Test Sequence editor
<a href="#">1725578</a>	Stateflow	Incorrect results on the second run of Fast Restart for some Stateflow charts
<a href="#">1755918</a>	Symbolic Math Toolbox	Symbolic Math Toolbox hangs after installing Windows 10 Spring Creator Update 2018
<a href="#">1722448</a>	Vehicle Dynamics Blockset	Simulation errors when the MATLAB Drive Connector and 3D Engine are both enabled
<a href="#">1755317</a>	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.