

Financial Toolbox 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.

Version (Release)	New Features and Changes	Version Compatibility Considerations	Fixed Bugs and Known Problems	Related Documentation at Web Site
Latest Version V3.0 (R2006a)	Yes Details	No	No bug fixes	Printable Release Notes: PDF V3.0 product documentation
V2.5 (R14SP3)	Yes Details	No	No bug fixes	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

When a new feature or change introduces a known incompatibility with the previous version, its description includes a **Compatibility Considerations** subsection that details the impact.

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.

The Bug Reports database was introduced for R14SP2 and does not include information for prior releases. You can access a list of bug fixes made in prior versions via the links in the summary table.

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 3.0 (R2006a) Financial Toolbox

This table summarizes new features in Version 3.0 (R2006a).

New Features and Changes	Version Compatibility Considerations	Fixed Bugs and Known Problems	Related Documentation at Web Site
Yes Details below	No	No	Printable Release Notes: PDF V3.0 product documentation

New features and changes introduced in this version are described here:

- Financial Time Series Toolbox Incorporated
- Financial Time Series Frequency Conversion Functions Modified
- Continuous Compounding Option Removed from `plyd2zero`
- New Statistical Functions

Financial Time Series Toolbox Incorporated

As of this release the functionality previously available in the Financial Time Series Toolbox has been incorporated into the Financial Toolbox. The Financial Toolbox documentation has been modified to include the documentation previously available in the Financial Time Series User's Guide.

Because use of the Financial Time Series Toolbox required the purchase and installation of the Financial Toolbox, all customers previously licensed for the Financial Time Series Toolbox will continue to have access to it.

Financial Time Series Frequency Conversion Functions Modified

The suite of time series frequency conversion functions (`todayly`, `toweekly`, `tomonthly`, `tosemi`, and `toannual`) has been extensively modified. Consult the Function Reference for specifics.

Continuous Compounding Option Removed from `plyd2zero`

Continuous compounding is no longer available for `plyd2zero`. Compounding for this function is now consistent with compounding for the function `zero2plyd`. An error message is generated if you attempt to use continuous compounding with these functions.

New Statistical Functions

The new functions in Version 3.0 of the Financial Toolbox fall into these four categories:

- Multivariate Normal Regression without Missing Data
- Multivariate Normal Regression with Missing Data (Expectation Conditional Maximization)
- Least Squares Regression with Missing Data (Expectation Conditional Maximization)
- Financial Model Transformation Function

Multivariate Normal Regression without Missing Data

<code>mvnrfish</code>	Fisher information matrix for multivariate normal or least-squares regression
<code>mvnrml</code>	Multivariate normal regression (ignore missing data)
<code>mvnrobj</code>	Log-likelihood function for multivariate normal regression without missing data
<code>mvnrstd</code>	Evaluate standard errors for multivariate normal regression model

Multivariate Normal Regression with Missing Data (Expectation Conditional Maximization)

<code>ecmmvnrfish</code>	Fisher information matrix for multivariate normal regression model
<code>ecmmvnrml</code>	Multivariate normal regression with missing data

ecmmvnrobj	Log-likelihood function for multivariate normal regression with missing data
ecmmvnrstd	Evaluate standard errors for multivariate normal regression model

Least Squares Regression with Missing Data (Expectation Conditional Maximization)

ecmlsrmlc	Least-squares regression with missing data
ecmlsrobj	Log-likelihood function for least-squares regression with missing data

Financial Model Transformation Function

convert2sur	Convert a multivariate normal regression model into a seemingly unrelated regression model
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Version 2.5 (R14SP3) Financial Toolbox

This table summarizes what's new in Version 2.5 (R14SP3):

New Features and Changes	Version Compatibility Considerations	Fixed Bugs and Known Problems	Related Documentation at Web Site
Yes	No	No bug fixes	No
Details below			

New features and changes introduced in this version are described here:

- New Statistical Functions

New Statistical Functions

Version 2.5 introduces a set of financial statistical computation routines that compute values, such as mean and covariance, when there are missing data elements within a larger data set. These routines implement the Expectation Conditional Maximization (ECM) algorithm with various options that depend on the percentage of missing at random (MAR) data within the data set. The table below lists the functions that implement the ECM algorithm in the Financial Toolbox.

The following ECM functions have been added at this release.

Expectation Conditional Maximization

ecmfish	Fisher information matrix
ecmnhess	Hessian of negative log-likelihood function
ecmninit	Initial mean and covariance
ecmnml	Mean and covariance of incomplete multivariate normal data
ecmnobj	Negative log-likelihood function
ecmnstd	Standard errors for mean and covariance of incomplete data

Compatibility Summary for Financial Toolbox

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 with the description of the new feature or change.

Version (Release)	New Features and Changes with Version Compatibility Impact
Latest Version V3.0 (R2006a)	None
V2.5 (R14SP3)	None

