

MatLab and Excel

- MATLAB BuilderTM EX lets you package MATLAB programs as Microsoft Excel add-ins and integrate them into Excel spreadsheets. These add-ins enable you to perform analyses and simulations within Excel that include MATLAB math, graphics, and user interfaces developed in MATLAB.
- The add-ins can be distributed royalty-free to computers that do not have MATLAB installed using the MATLAB Compiler Runtime (MCR) that is provided with MATLAB Compiler.
- Using the MATLAB Compiler, MATLAB Builder EX encrypts your MATLAB programs and then generates Microsoft Visual Basic for Ap-

plications (VBA) wrappers around them so that they behave just like other Excel add-ins.

- MATLAB Builder EX creates VBA macros that let you pass Excel worksheet values to a deployed MATLAB program without writing or editing VBA code. It lets you prototype in Excel, debug your MATLAB source code, build the add-in, and load and test it in the worksheet.
- The key features are:
 1. Key Features
 2. Royalty-free distribution of Excel add-ins to computers that do not have MATLAB installed.
 3. Automatic conversion between Excel and MATLAB data types.

4. One-click VBA macro creation for interacting with a MATLAB application from within Excel.
 5. Ability to prototype in Excel and debug source code in MATLAB.
- Many professionals find that they run into limitations using Excel for their data analysis applications. This lecture presents how MATLAB can supplement the capabilities of Excel by providing access to thousands of pre-built engineering and advanced analysis functions and versatile visualization tools. We also discuss how MATLAB improves computational speed and enables you to handle larger data sets.