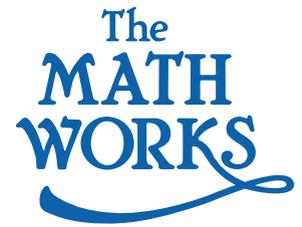


MATLAB Web Server 1.2

for developing and distributing Web-based MATLAB®
and Simulink® applications

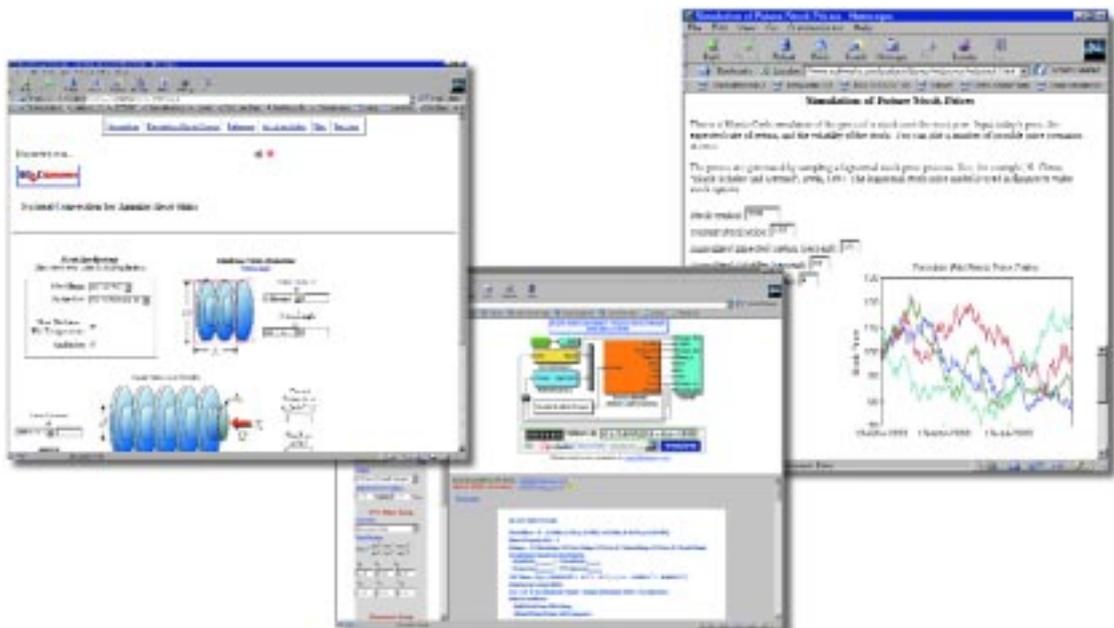


The MATLAB Web Server lets you easily deploy any MATLAB or Simulink based applications via the World Wide Web. The Web Server is an ideal deployment tool for developers who want a quick, inexpensive, and secure way to share their applications. MATLAB applications running on the MATLAB Web Server can be run on any machine with Internet access using a Netscape or Microsoft Web browser. As a result, users of the applications are not required to learn MATLAB, and MATLAB need not be running or installed on the client machine. The MATLAB application resides only on the server machine controlled by the developer—this means that you can easily update applications running on the Web Server without concern for revision control.

The MATLAB Web Server lets you deploy MATLAB or Simulink based applications over the Web. These examples demonstrate the many ways in which developers have used the MATLAB Web Server to share their applications.

KEY FEATURES

- **Provides functions for processing HTML forms.** The MATLAB Web Server contains tools for reading data directly from HTML forms and for inserting data, including graphics and tables, into template HTML forms for return transmission to the end user's Web browser. This functionality allows information to pass back and forth between MATLAB and your HTML pages.
- **Supports server-based computing.** The MATLAB application runs on the server machine only. End users interact with the application via client machines that require only a Web browser, such as Netscape Navigator or Microsoft® Internet Explorer. System administrators can restrict client access to an application, preventing unauthorized access to source code and the MATLAB command line.
- **Provides an interface to MATLAB via standard HTML forms.** You can generate HTML forms manually or use an editor such as Microsoft FrontPage. This allows you to easily create Web pages.
- **Uses sophisticated HTML language constructs.** The MATLAB Web Server contains functions that enable dynamic generation of HTML tables for storing output data of varying lengths.
- **Lets you include graphics.** Applications can include graphics generated using the advanced data visualization capabilities of MATLAB.



MATLAB WEB SERVER COMPONENTS

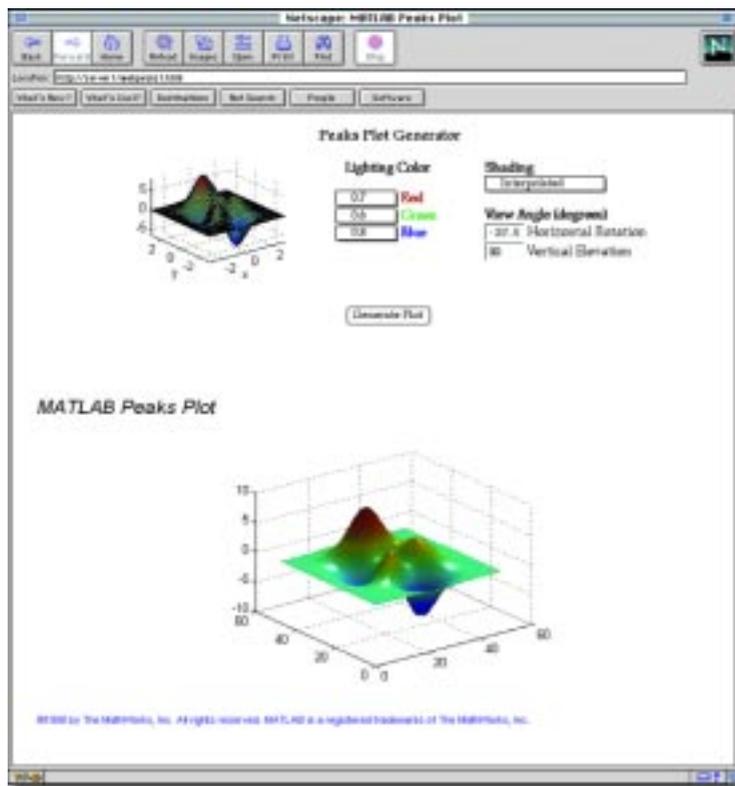
- **matlabserver** – TCP/IP server (service on Windows NT) running MATLAB continuously.
- **matweb.exe** – CGI program and TCP/IP client to matlabserver. Translates HTML form data into a MATLAB object, passes it to matlabserver, receives HTML results from matlabserver, and transmits these results back to the end user's Web browser.
- **Input HTML form data functions** – MATLAB utility functions that retrieve data from input HTML documents and then provide that data in a form convenient to MATLAB programmers.
- **Output HTML document functions** – MATLAB functions for inserting MATLAB data into template HTML forms for return transmission to the end user's Web browser.

PRODUCT REQUIREMENTS

The MATLAB Web Server requires MATLAB 5.3 or above and is available on Microsoft Windows NT and Sun Solaris platforms.

DOCUMENTATION AND EXAMPLES

The *MATLAB Web Server User's Guide* includes descriptions of the application development/deployment process, examples, a complete reference for all product functions, and configuration guidelines. The MATLAB Web Server contains source files for the demonstrations and examples referenced in the *User's Guide*.



The MATLAB Web Server lets you harness the sophisticated data visualization capabilities of MATLAB without requiring that MATLAB be running locally on the client machine. Here, calls to the MATLAB function peaks return a sophisticated 3-D plot.

For pricing and additional product information:
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