Student Version of the Polynomial Toolbox 2.5.0 Release Notes

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INSTALLATION INSTRUCTIONS

Student Version of the Polynomial Toolbox 2.5 can be installed on your PC under Windows platform in the following simple steps:

- Copy the self-extracting Zip file `polynomial.exe` to your PC. Click on the file icon to unzip it, preferably next to other MATLAB toolboxes that all are placed in the folder `...\MATLABR12\toolbox` or `...\MATLABR11\toolbox` or `...\MATLAB\toolbox`.

- To install on-line documentation (MANUAL, COMMANDS and VERSION 2.5 UPGRADE INFORMATION), visit PolyX web site at `www.polyx.cz` or `www.polyx.com`, section *Free Download*, subsection *Manuals* and download the self-extracting Zip files `OnLineManual.exe`, `OnLineCommands.exe` and `OnLineUpgradeInfo25.exe`. Unzip all these files into the Polynomial Toolbox folder `...\polynomial\Pdf-files`.

- To read the on-line documentation, you need *Acrobat Reader*. If you don't have it, download it from `www.adobe.com` and install it, preferably to its standard location in `C:\Program Files`.

- If you use version 2 of SIMULINK then replace the file `...\polynomial\polblock.mdl`, residing in the main Polynomial Toolbox directory, by the file `...\polynomial\simulink2\polblock.mdl`. The current version of SIMULINK can be checked by typing `ver simulink` in the MATLAB main window.

- Add the folder `...\polynomial` to your MATLAB path (for instance by using the MATLAB Path Browser).

- You are recommended to add to your `startup.m` file a new line containing the command `PINIT`. With this modification the Polynomial Toolbox is automatically initialized at the beginning of every MATLAB session. If you do not do this then you will have to type `PINIT` manually each time you start a Polynomial Toolbox session.

- When using the Polynomial Toolbox for the first time after the installation you will be asked to **provide your personal license number.**

DOCUMENTATION

If you have downloaded the on-line documentation correctly, you can access it by command `POLDESK`. During the first execution of command `POLDESK`, Polynomial Toolbox will look for *Acrobat Reader* exe-file in the standard location

`C:\Program Files\Adobe\Acrobat 4.0\Reader\AcroRd32.exe`.

This configuration requires no action during the call of `POLDESK` and it is recommended for most users. If, however, an experienced user wishes to locate the *Acrobat Reader* elsewhere then he/she will be asked to provide a valid precise path name.

The users of each installation of an *Acrobat Reader* (standard or non-standard) may type at any time `POLDESK RECOVER`. This opens a dialogue window where the user can type in a valid precise pathname of *Acrobat Reader* exe-file.

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Ready-to-print electronic versions of the MANUAL, COMMANDS and VERSION 2.5 UPGRADE INFORMATION are also available. They can be downloaded from the PolyX web site `www.polyx.cz` or `www.polyx.com`, section *Free Download*, subsection *Manuals* as self-extracting Zip files `manual.exe`, `commands.exe` and `upgradeinfo25.exe`. The unzipped files are all readable by *Acrobat Reader*. Users are allowed to print these files for their own use but should not distribute them any further. For more copyright details see the *License Agreement*.

A NOTE FOR SIMULINK 3 USERS ON WINDOWS PLATFORMS

Under the MS Windows operating systems the way the `simulink` command is processed differs slightly in versions 2 and 3 or 4 of SIMULINK. The instructions in the Polynomial Toolbox 2.0 Manual (pages 83-84) refer to version 2 of SIMULINK. If you use SIMULINK 3 or 4 under Windows then please proceed in one of the two following ways:
Either type
```
>>simulink
```
to open the SIMULINK Library browser. The Polynomial Toolbox 2.0 SIMULINK library now is directly accessible within the browser along with the other SIMULINK libraries; or type
```
>>simulink3
```
to open the SIMULINK Library window. Follow the instructions in the Polynomial Toolbox 2.0 Manual, pages 83-84.
For further information consult the SIMULINK manual (Using SIMULINK, Version 3).

COMPATIBILITY WITH MATLAB VERSION 6

The Polynomial Toolbox 2.5 works well with the MATLAB Release 12 products MATLAB 6 and SIMULINK 4. In fact, some functions are up to two times faster with MATLAB 6 than before.

MATLAB 6 users will see the Polynomial Toolbox icon in their MATLAB Launch Pad window among the other MATLAB toolboxes they may have. The Polynomial Toolbox help functions, demos, Polynomial Matrix Editor and PolyX web site may be directly accessed from the Launch Pad window.

Clicking a `POL` object icon in the MATLAB Workspace window does not open the object in an Array Editor. We hope to fix this shortcoming in the future but the related MATLAB code is not open for us currently. Instead, type `PME` in the command window and open the object in the Polynomial Matrix Editor.

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