



T_EX Live on a network

Siep Kroonenberg

September 1, 2001



Background



History

1991,...,1999 4\TeX

2004, 2005 $\text{MiK}\text{\TeX} 2.4 / \text{TeXnicCenter}$

2006 $\text{MiK}\text{\TeX} 2.5 / \text{TeXnicCenter}$

2008 $\text{\TeX Live 2008} / \text{TeXnicCenter}$ (current)

main TeX file : test .tex
include TeX file : .tex
TeX files path : c:\docs
backup path : c:\bak
TeX format : big LaTeX 2e + Babel

main menu:

change Main TeX file	choose TeX Format	check Spelling
change Include file	Compile TeX file	run Utilities
change TeX files Path	show Logfile	execute Dos command
change files eXtensions	manage Output	Backup TeX files
Edit file(s)	Quit	

press highlighted key or
press [F1] or [Alt] highlighted key for help
press [?] for info on 4TEX

make your choice... _



The university network

- > Centrally managed
- > Applications via NAL (Novell Application Launcher)
- > Standard Windows workstation, staff and student editions
- > Roaming profiles: configure for the user rather the system
- > Limited rights for students
- > Standard and optional software



university of
groningen

faculty of economics
and business

latex
support

September 1, 2009

Tour



My Computer



Recycle Bin



JabRef 2.4.2



- Salamander
- Command Prompt
- Pfe32
- Windows Explorer
- script56.chm
- Emacs
- MS Office
- RUG Menu
 - Programs
 - Documents
 - Settings
 - Search
 - Help and Support
 - Run...
- Log Off P133459...
- Shut Down...

- Databases & Spreadsheets
- Development & Programming
- Dictionaries
- Drawing & Presentation
- Education & Practicals
- Internet & Communication
- Library Services
- Management & Organisation
- Mathematics & Statistics
- Miscellaneous
- Printers
- Text Processing
- Geographical Information Systems
- Tools & Utilities

Tex Live Rug 2008

- Notepad_PlusPlus
- Scientific WorkPlace 5.5
- CutePDF 2.7
- Ghostscript
- GhostView

My

7z Install

Installation directory: `Z:/Aps/Common/tl2008`

Your private directory is for storing your own macros and stylefiles.

Private directory: `x:/texmf`

copy prior private directory Do not copy prior private directory

Java Add built-in Ruby subset to searchpath for eps/ps/pdf conversions

[More info](#)

Abort

Install



bitmap2eps.bat



NAL (Novell
Application)



My Computer



Recycle Bin



JabRef 2.4.2



bitmap2eps.bat



NAL (Novell Application...)



TeXnicCenter

```
C:\WINNT\system32\cmd.exe
Creating TEXMFHOME at x:/texmf
Copying Z:\Aps\Common\tl2008\bin\win32\conf to C:\Documents and Settings\P133459
\.texlive2008\texmf-var\fonts\conf...
27 File(s) copied
Copying Z:\Aps\Common\tl2008\bin\win32\cache to C:\Documents and Settings\P133459
\.texlive2008\texmf-var\fonts\cache...
1 File(s) copied

TeX and TeXnicCenter now are under Start / Programs / TeX Live 2008.
Press any key to continue . . .
```

My
Documents

My
Computer

My Network
Places

Recycle Bin

Notepad
Windows Explorer
Salamander
Pfe32
Command Prompt
desktop.ini

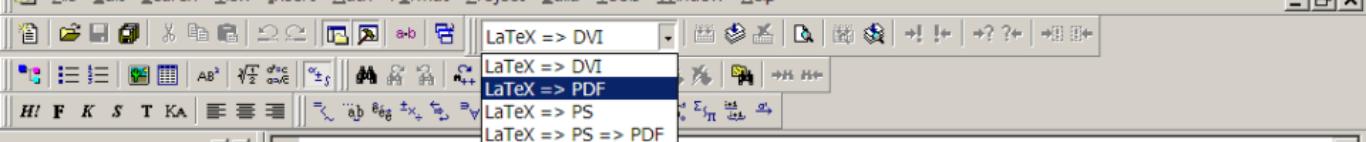
Programs

- Documents
- Settings
- Search
- Help and Support
- Run...
- Shut Down...

- Accessories
- Administrative Tools
- Games
- Startup
- desktop.ini
- MSN
- Windows Messenger
- Windows Movie Maker

TeX Live 2008

- TeXnicCenter



- LaTeX => DVI
- LaTeX => PDF
- LaTeX => PS
- LaTeX => PS => PDF

```
\newpage
\label{letter}
\includepdf{rug08_letter1}
```

You can also include all this information verbatim in your `\LaTeX{}` source itself.

A few comments on all these entries:

`\cmd{facname}` and `\cmd{group}` will be used for the page header. They are printed in all lowercase.

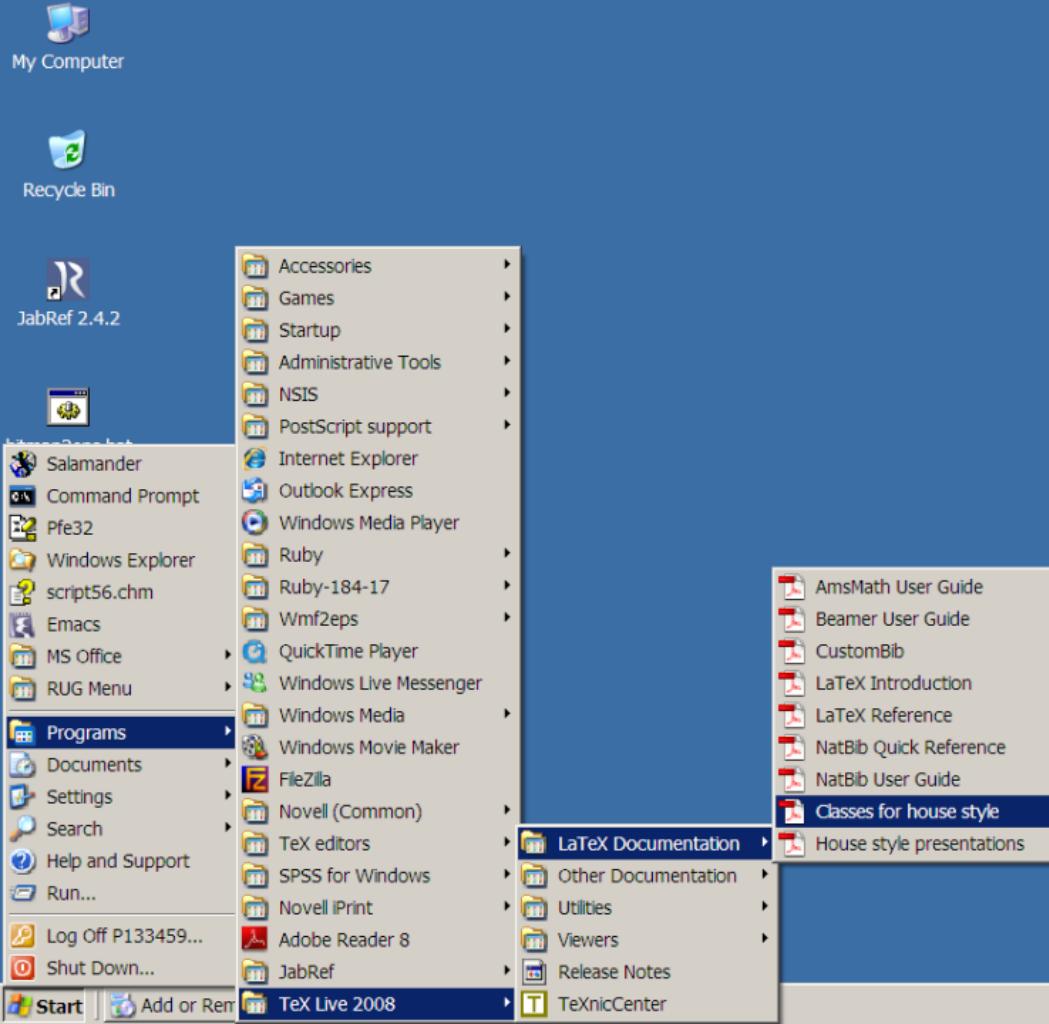
The block with sender data at the right is composed of successively `\cmd{senderinfo}`, `\cmd{senderaddress}`, `\cmd{senderurl}` and `\cmd{senderother}`. It is allowed to extend a bit beyond the right margin.

`\cmd{senderinfo}` may optionally start with a contact person. The layout of telephone- and fax numbers is prescribed by the house style guidelines.

`\cmd{senderurl}` should omit `\texttt{http://}`.

`\cmd{senderother}` can contain Chamber of Commerce- VAT-, bank- and

rug08classes.tex





My Computer



Recycle Bin



JabRef 2.4.2



- Salamander
 - Command Prompt
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 - Emacs
 - MS Office
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 - Programs
 - Documents
 - Settings
 - Search
 - Help and Support
 - Run...
 - Log Off P133459...
 - Shut Down...
- Start | Add or Remove Programs | My Computer | Recycle Bin | JabRef 2.4.2 | Salamander | Command Prompt | Pfe32 | Windows Explorer | script56.chm | Emacs | MS Office | RUG Menu | Programs | Documents | Settings | Search | Help and Support | Run... | Log Off P133459... | Shut Down...

- Accessories
- Games
- Startup
- Administrative Tools
- NSIS
- PostScript support
- Internet Explorer
- Outlook Express
- Windows Media Player
- Ruby
- Ruby-184-17
- Wmf2eps
- QuickTime Player
- Windows Live Messenger
- Windows Media
- Windows Movie Maker
- FileZilla
- Novell (Common)
- TeX editors
- SPSS for Windows
- Novell iPrint
- Adobe Reader 8
- JabRef
- TeX Live 2008

- LaTeX Documentation
- Other Documentation
 - Homepage
 - Find documentation for packages on CTAN
- Utilities
- Viewers
- Release Notes
- TeXnicCenter



Rug TeX Pages

The 2008 RuG TeX installation

June 11 2009. The current RuG TeX installation, dating from september 2008, is based on TeX Live. *Users of the old MikTeX installation: please upgrade as soon as possible*, at least if you want to continue using the university TeX installation after August 1 2009. On that date, **the old MikTeX will be removed**.

Contact me (see [Contact Info](#)) if you run into trouble, e.g. with missing packages.

Installation

Students and old MikTeX users should have automatic access to the new TeX Live. Otherwise, ask the helpdesk for access. The LAN installer is under Start / RUG Menu / Text Processing / Tex Live 2008. The CD installer, see below, is install.bat in the root directory of the CD. In both cases, you end up with a menu Start / Programs / TeX Live 2008.

CD

The help desk will no longer supply CD's for home installation. Instead, there is an ISO image at the root of the installation.

You can burn the cd directly from your RuG PC: go to Start / RUG Menu / Miscellaneous / CDBurnerXP and select 'Burn ISO image'. On the Burn ISO Options tab, under 'Select ISO image to burn:', type or browse to the ISO image: z:\aps\common\tl2008\tl2008std.iso for students, z:\aps\common\tl2008\tl2008stf.iso for staff. Review the other options and finish with 'Burn'.

[Main page](#)[News](#)[The 2008 RuG TeX installation](#)[House style](#)[LaTeX info session](#)[LaTeX course 2009](#)[Troubleshooting](#)[Tips and Tricks](#)[Downloads](#)[TeX.aanhet.net](#)[Contact Info](#)

External links

[TeX Live](#)[MikTeX home](#)[Texmaker](#)[TeXnicCenter home](#)[NTG](#)[Dutch-language TeX Users Group](#)



My Computer

Add or Remove Programs

Currently installed programs:

Show updates Sort by: Name

		Size	
	S+ArrayAnalyzer 2.1	13.57MB	
	ScreenWatch Windows Media Player Plug-in	13.59MB	
	Security Update for Windows Media Encoder (KB954156)	3.38MB	
	SharpReader	335.00MB	
	S-PLUS 7.0	202.00MB	
	SPSS 14.0 for Windows	439.00MB	
	SPSS 14.0 for Windows (14.0.2 patch)	182.00MB	
	SPSS 16.0 for Windows	0.14MB	
	Symantec AntiVirus		
	TeXLive 2008		
Click here for support information.			
To change this program or remove it from your computer, click Change/Remove.			
Change/Remove			
	Thunderbird-20019-MULTI-R01	34.17MB	
	Windows Installer 3.1 (KB893803)		
	Windows Internet Explorer 8	30.39MB	
	Windows Live Messenger	13.57MB	
	Windows Media Encoder 9 Series	7.95MB	
	Windows Media Format 11 runtime	7.95MB	
	Windows Media Player 11		
	Windows XP Service Pack 3	16.56MB	
	ZENworks Desktop Management Agent		



Recycle Bin



JabRef 2.4



bitmap2eps



TeXnicCenter



NAL (Now Application)



The installation



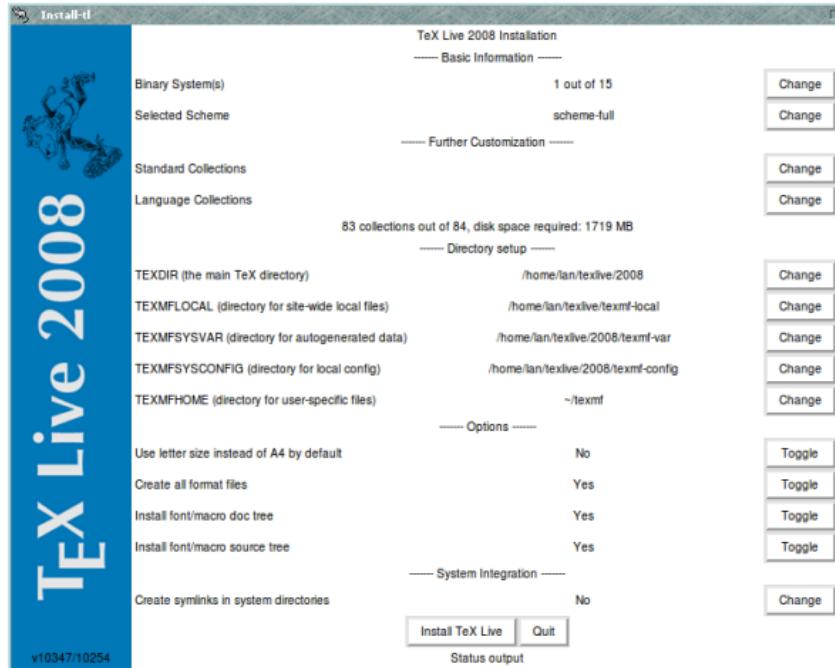
T_EX Live

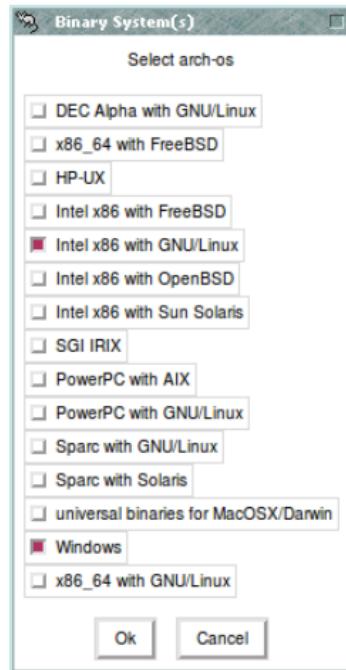
- > Configuration via text-mode configuration files and environment variables (*MiK_TE_X uses the registry*)
- > Includes private copies of Perl and Ghostscript
- > Includes PostScript viewer

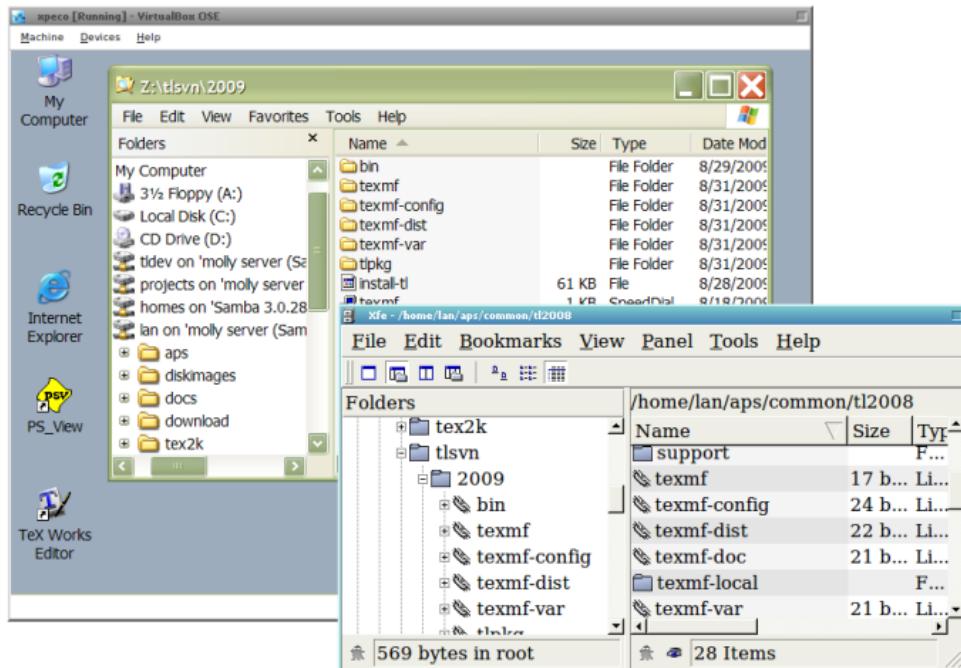


Building the installation

- > Install under Linux or Windows
- > Include Windows binaries
- > Incorporate local classfiles and macros under `texmf-local`
- > No hard-coded paths anywhere
- > Copy to LAN









Installer tasks

- > Modify searchpath
- > Create shortcuts
- > Optionally define file types
- > Configure XeTeX
- > Register uninstaller



Writing the installer

- > Use existing T_EX Live modules for installer
- > T_EX Live 2009: most installer functions via the high-level T_EX Live Manager interface
- > Sample installer at <http://www.tug.org/w32client/>



TEX Live 2008, one shortcut and one filetype:

```
add_menu_shortcut(  
    $mainmenu,  
    'PS_View',  
    $texdir.'/tlpkg/tlpsv/psv.exe', # icon, not prog!  
    $texdir.'/bin/win32/psv.bat',  
    '', # no args  
    'batgui', # any non-null value to hide command-prompt  
,  
register_extension(".ps", "PostScript");  
register_extension(".eps", "PostScript");  
register_file_type("PostScript",  
    "'".$texdir.'/tlpkg/tlpsv/gswxlua.exe" -g '.  
    "'".$texdir.'/tlpkg/tlgs/bin/gsdll32.dll" -l '.  
    "'".$texdir.'/tlpkg/tlpsv/psv.wx.lua" -p '.  
    "'".$texdir.'/tlpkg/tlpsv/psv_view.ps" -sINPUT="%1'');  
update_assocs();
```

See [texmf-doc/source/texlive/texlive-common/w32client/](#) on DVD.



T_EX Live 2009, several shortcuts and filetypes:

```
unshift @ARGV, 'install', 'shortcut',
'dviout.win32', 'texworks', 'texlive-en', 'tlpsv.win32';
action_postaction();

# File associations. 1: only new;
# 2: always, overriding existing settings
$opts{'fileassocmode'} = 1;
unshift @ARGV, 'install', 'fileassoc',
'dviout.win32', 'tlpsv.win32', 'texworks.win32';
action_postaction();
TeXLive::TLWinGoo::update_assocs(); # optional
```

See <http://www.tug.org/texlive/w32client.html>.

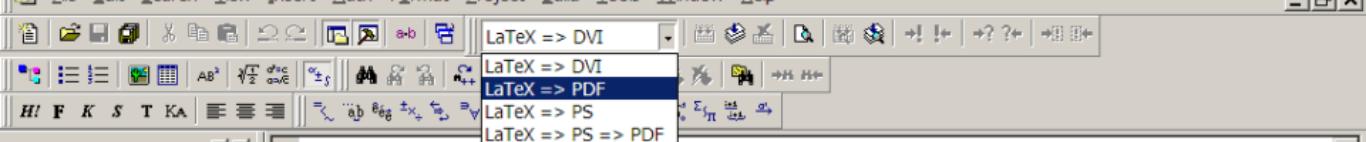


Editors



TeXnicCenter

- > MiK_TE_X-oriented
- > Configuration for T_EX Live awkward
- > Good functionality



- LaTeX => DVI
- LaTeX => PDF
- LaTeX => PS
- LaTeX => PS => PDF

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rug08classes.tex



Texmaker

- > Cross-platform
- > Latest versions good functionality
- > Simple configuration with ini file



part label tiny **B** **I** **U** **E** **E** **f(x)** α β γ δ \sqrt{x} left (right)

Structure

Structure

- lin regression.tex
 - LABELS
 - {Historical remarks}...
 - {The linear regressi...
 - {Types of linear regr...
 - {Assessing the least...

+ Relation symbols

⇒ Arrow symbols

Miscellaneous symbols

{ } Delimiters

λ Greek letters

∞ Most used symbols

ps Pstricks Commands

MP MetaPost Commands

lin_regression.tex

```

31 \beta_0 + \beta_1 x + \beta_2 x^2 + \dots + \beta_p x^p + \varepsilon
32 \label{regression}
33 where \beta_0 is the intercept (''constant'' term), the
34 \beta_i's are the respective parameters of independent
35 variables,
36 and p is the number of parameters to be estimated in the linear
37 regression. Linear regression can be contrasted with nonlinear
38 regression.
39 \includegraphics[width=.7\linewidth]{figuur}
40
41 This method is called ''linear'' because the relation of the
42 response (the dependent variable Y) to the independent variables
43 is assumed to be a linear function of the parameters. It is often
44 erroneously thought that the reason the technique is called
45 ''regression'' is that the graph of  $Y = \beta_0 + \beta_1 x$  is a

```

Messages / Log File

File	Type	Line	Message
lin_regression.tex	Error	line 45	! Undefined control sequence. regression" is that th
lin_regression.tex	Wa...	line 1	Label(s) may have changed. Rerun to get cross-refer

! Undefined control sequence.

! 45 regression" is that the graph of $Y = \beta_0 + \beta_1 x$ is a

The control sequence at the end of the top line

of your error message was never defined. If you have



TeXworks

- > Cross-platform
- > Bare-bones
- > Included in TeX Live
- > Forward and backward search done right

artitest.tex - TeXworks

File Edit Search Format Typeset Window Help

pdfLaTeX

```
\documentclass{article}
\usepackage{mathpazo}
\usepackage{bibliography}{plain}
\begin{document}

\title{An Article}
\author{Siep Kroonenberg \\ Rijksuniversiteit Groningen}
\maketitle
\thispagestyle{empty}

\begin{abstract}
This document demonstrates the title page for the articles class.
\end{abstract}

\section{A section}
Now we start with the real content of the paper. The \texttt{mathpazo} package, which is loaded in the preamble of the file, selects the Palatino font family, with accompanying math fonts.

\subsection{Some mathematics}

The econometric model is confronted with observed data and the parameters are estimated by econometric techniques:
\begin{equation}
Y_t = g_1(Y, X, \hat{\Theta}, \hat{U})
\label{eq: ssm}
\end{equation}

To show how the system produces cyclical patterns, we partition the endogenous variables into  $y^*$ , a variable that represents the cycle, and the other endogenous variables  $\bar{y}$ , and solve (\ref{eq: ssm}) for  $y^*$  assuming identifying conditions are satisfied:
\begin{equation}
y_t = g_1(Y^+, \bar{y}_t, Y^-, X, \hat{\Theta}, \hat{U})
\label{eq: ssmsingle}
\end{equation}

We can characterize cycles in simultaneous equations models with Equation~(\ref{eq: smmsingle}). Impulses originate from changes in the exogenous variables  $\Delta X$  and the error terms  $\hat{U}$ . The impulses are propagated by the system by means of the lagged endogenous variables  $Y^-$ .


In this respect the situation has not changed since the \cite{adelmanadelman95} analysis of the \cite{kleingoldberger55} model.



Line 1 of 57; col 0



artitest.pdf - TeXworks



File Edit Search View Typeset Window Help



An Article



Siep Kroonenberg  
Rijksuniversiteit Groningen



May 23, 2009



Abstract



This document demonstrates the title page for the articles class.



## 1 A section



Now we start with the real content of the paper. The mathpazo package, which is loaded in the preamble of the file, selects the Palatino font family, with accompanying math fonts.



### 1.1 Some mathematics



The econometric model is confronted with observed data and the parameters are estimated by econometric techniques:


$$Y_t = G_1(Y, X, \hat{\Theta}, \hat{U}) \quad (1)$$


To show how the system produces cyclical patterns, we partition the endogenous variables into  $y^*$ , a variable that represents the cycle, and the other endogenous variables  $\bar{y}$ , and solve (1) for  $y^*$  assuming identifying conditions are satisfied:


$$y_t = g_1(Y^+, \bar{y}_t, Y^-, X, \hat{\Theta}, \hat{U}) \quad (2)$$


We can characterize cycles in simultaneous equations models with Equation~(2). Impulses originate from changes in the exogenous variables  $\Delta X$  and the error terms  $\hat{U}$ . The impulses are propagated by the system by means of the lagged endogenous variables  $Y^-$ .



In this respect the situation has not changed since the [1] analysis of the [2] model.



## References



[1] I. Adelman and F.L. Adelman. The dynamic properties of the Klein-Goldberger model. Econometrica, 27, 1995.



111.53% page 1 of 2


```

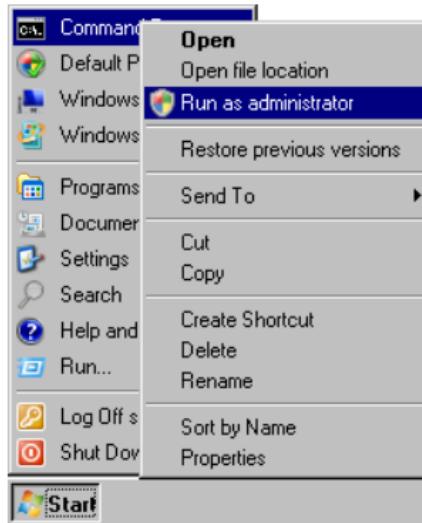


Vista



Vista UAC

Even an administrator has to ask for administrator privileges.





Privilege elevation





install.bat.manifest

```
<?xml version="1.0" encoding="UTF-8" standalone="yes"?>
<assembly xmlns="urn:schemas-microsoft-com:asm.v1" manifestVersion="1.0">
    <assemblyIdentity
        version="1.0.0.0"
        processorArchitecture="*"
        name="install"
        type="win32"/>
    <trustInfo xmlns="urn:schemas-microsoft-com:asm.v3">
        <security>
            <requestedPrivileges>
                <requestedExecutionLevel level="asInvoker"/>
            </requestedPrivileges>
        </security>
    </trustInfo>
</assembly>
```



Virtualization

Without admin privileges, Vista might decide to fake an admin install:

- > Write to
`%userprofile%/appdata/local/virtualstore/Program Files` instead of `Program Files`
- > Fake HKLM (system) registry entries with HKCU (user) registry entries

This is to be avoided at all cost!



- > LAN install: no Vista systems, therefore no problem
- > CD edition: manifest file
- > \TeX Live 2009: problems with \TeX Live Manager solved?