ITRANS53 Installation Notes with MiKTeX 2.9

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20130701

MiKTeX is a distribution of LaTeX for win32. It can be downloaded from `http://miktex.org/2.9/setup`.

1. Install the latest version of MiKTeX As of this writing the latest version of MiKTeX is 2.9. The default location into which MiKTeX is installed is:
   `C:\Program Files\MiKTeX 2.9`.
   If this is not the location to which you have installed MiKTeX then note the installation directory for use by the steps below.

2. Install all the font packages available through MiKTeX

   (a) Start → MiKTeX → MiKTeX Maintenance → MiKTeX Maintenance Settings.

   (b) Select the Packages tab from the MiKTeX Options dialog box.

   (c) Check the checkbox: Fonts, until the box has a simple check with no background color. A simple check indicates all MiKTeX options within that category will be selected. Installing all the fonts will cause the outline font packages: indic-type1 and devangari, to be installed.

3. Download itrans53-win32.zip from
   `http://www.aczoom.com/files/itrans/53/itrans53-win32.zip`

4. Extract the contents of itrans53-win32.zip to some temporary location such as: `c:\temp\itrans53`

5. Create a file named `install.bat` file within the temporary location: `c:\temp\itrans53` The contents of the `install.bat` batch file are listed below. If the installation of MiKTeX was not to the directory: `C:\Program Files\MiKTeX 2.9`, then change the value of `MiktexRoot` to reflect the actual location of the MiKTeX installation.

6. Open an MS-DOS command window which is running as administator. Many of the commands copy files and directories into the `c:\Program Files\` directory structure and this requires elevated privilege.

7. Change directory within the command window to the temporary location. the cammand for this is:
   `cd c:\temp\itrans53`

8. Excute the installation bacth file with the command: `install`

9. Close the MS-DOS command window

10. Create the environment variable, `ITRANSPATH`, used by the `itrans.exe` executable to find its fonts.

    (a) Right mouse click on Start → Computer
    (b) Select Properties from the context menu
    (c) Select Advanced system settings from the application entitled:
        `Control Panel\System and Security\System`
    (d) Click the Environment Variables button from the System Properties dialog box
    (e) Click the New button found below the group box entitled: System Variables
    (f) Enter `ITRANSPATH` as the name of the system variable
    (g) Enter `C:\Program Files\MiKTeX 2.9\tex\latex\itrans;`
        `C:\Program Files\MiKTeX 2.9\tex\latex\itrans\fonts`
        as the value of the system variable
    (h) Click the OK button
    (i) Click the OK button
    (j) Click the OK button
    (k) Close the application entitled:
        `Control Panel\System and Security\System`

    An experiment I have not tried is to set the value of `ITRANSPATH` to:
    `C:\Program Files\MiKTeX 2.9;C:\Program Files\MiKTeX 2.9\fonts`
    to see if itrans would then have access to all the fonts installed and managed by MiKTeX

11. Open an MS-DOS command window which is NOT running as administator.

12. Issue the command: `echo %ITRANSPATH%`. The result should be the the search path entered above.

13. Issue the `itrans` command:
    `itrans -i <filename>.itx -o <filename>.tex`
    This should run without error and create a `*.tex` file the (pdf)latex can then process into a DVI, PS, or PDF file.

14. Close the MS-DOS command window

The latest version of this document can be downloaded from `http://www.ece.umd.edu/~rgrover/`.

```
echo off

rem
set MiktexRoot=C:\Program Files\MiKTeX 2.9

rem copy itrans.exe to a directory already within the path environment
    variable
rem namely the path addustment made by the installer for MiKTeX
rem For 32-bit windows systems remove the x64 suffix
copy ".\bin\*.exe" "%MiktexRoot%\miktex\bin\x64\*.*" /Y /V

rem Create the directories within the MikTeX structure needed by the
    itrans package
mkdir "%MiktexRoot%\doc\itrans"
mkdir "%MiktexRoot%\doc\itrans\contrib"
mkdir "%MiktexRoot%\fonts\source\public\itrans"
mkdir "%MiktexRoot%\fonts\type1\public\itrans"
mkdir "%MiktexRoot%\fonts\tfm\public\itrans"
mkdir "%MiktexRoot%\fonts\afm\public\itrans"
mkdir "%MiktexRoot%\fonts\truetype\public\itrans"
mkdir "%MiktexRoot%\tex\latex\itrans"
mkdir "%MiktexRoot%\tex\latex\itrans\fonts"

rem
rem Copy itrans package files into the MiKTeX structure
rem used http:\\tex.stackexchange.com\questions\1754\tamil-tex-in-windows
rem and the installation script for Tamil-Omega as guides for the copy
    commands
rem Listed below
rem

rem Copy Documentation files
copy ".\doc\*.*" "%MiktexRoot%\doc\itrans\*.*" /Y /V
copy ".\contrib\*.*" "%MiktexRoot%\doc\itrans\contrib\*.*" /Y /V
rem copy Font Files
copy ".\lib\fonts\*.mf" "%MiktexRoot%\fonts\source\public\itrans\*.*" /Y
    /V
copy ".\lib\fonts\*.pfa" "%MiktexRoot%\fonts\type1\public\itrans\*.*" /Y
    /V
copy ".\lib\fonts\*.pfb" "%MiktexRoot%\fonts\type1\public\itrans\*.*" /Y
    /V
copy ".\lib\fonts\*.pfm" "%MiktexRoot%\fonts\type1\public\itrans\*.*" /Y
    /V
copy ".\lib\fonts\*.tfm" "%MiktexRoot%\fonts\tfm\public\itrans\*.*" /Y /V
copy ".\lib\fonts\*.afm" "%MiktexRoot%\fonts\afm\public\itrans\*.*" /Y /V
copy ".\lib\fonts\*.ttf" "%MiktexRoot%\fonts\truetype\public\itrans\*.*"
    /Y /V
rem copy all of the the ITRANS Lib structure into MiKTeX structure.
copy ".\lib\*.*" "%MiktexRoot%\tex\latex\itrans\*.*" /Y /V
```

```
copy ".\lib\fonts\*.*" "%MiktexRoot%\tex\latex\itrans\fonts\*.*" /Y /V

texhash
updmap
rem
rem With the above copies MikTeX can now find the ITRANS fonts and
    resolve references created by the preprocessor
rem to the itrans package
rem
rem But the preprocessor cannot be run from the command line because the
    itrans.exe is expecting to find the
rem structure somewhere on the disk via the environment variable:
    ITRANSPATH
rem instruct the user about this environment variable requirement
rem

echo "Set the environment variable: ITRANSPATH"
echo
    "ITRANSPATH=%MiktexRoot%\tex\latex\itrans;%MiktexRoot%\tex\latex\itrans\fonts"
```