NAME
       im−config − set up input method configuration for X Window System

SYNOPSIS
       im−config [OPTION]

OPTIONS
       −a   List all; force to list all possible input methods in menu or STDOUT even if any associated pack-
                 ages are not installed on the system.

       −c   Use console dialogue.

       −x   Use X dialogue with zenity.

       −s   No action; perform a simulation of events that would occur but do not actually change configura-
                 tion files.

       −l   List all available input method configuration settings to STDOUT. Unless **−a** is used, list only
                 ones with associated packages installed.

       −m   List configuration values to STDOUT:
                 • active configuration (system)
                 • active configuration (user)
                 • automatic configuration for the current locale
                 • override configuration for the current locale
                 • automatic configuration for most locales
                 If the active configuration is **custom**, the user made a custom configuration and im-config should
                 not change it.

       −n   *<input method name>*

                 Set input method to *<input method name>*. This option is for other configuration tool to set the
                 input method. Since the default value of *<input method name>* is "auto", you usually do not
                 need to use this from other configuration script.

                 Specifying invalid *<input method name>* causes the error exit. Updating the configuration file
                 which was not updated by **im-config** also causes the error exit.

                 When this *<input method name>* is "REMOVE" then it always removes the configuration file
                 even if it was not updated by **im-config**.

       −o   *<input method name>*

                 Print the localized description of the input method *<input method name>* to STDOUT.

       The **-l**, **-m**, **-n**, and **-o** options are meant to be API for other programs to control the im-config.

DESCRIPTION
       This manual page very briefly documents **im−config** and the configuration of the input method.

       im−config provides the framework to configure the input method on X Window System with GTK GUI or
       console terminal dialogue. If this is invoked without option, this lists available input methods as its choice
       while marking automatic choice with trailing @-mark. The listing is ordered by the priority of the input
       method. The input method with the highest priority comes first. The availability of the input method is
       judged by the installation of any associated packages. After you make a choice for the input method, this
       displays a guidance for associated packages to be installed.

       If only a set of required input method packages along with the im−config package is installed, you do not
       need to use this command. Such a installation works well in its default and there is no need to use this
       command. When you wish to have multiple input method environments installed and wish to switch
       among them, you need to use this command.

       If you have no idea for what package to install, **im−config** invoked with both **−a** and **−s** is a good start.

This input method is the essential mechanism for Japanese, Chinese and Korean (CJK) languages to enter their non-ASCII native characters. This is also useful to support specialized keyboard bindings for other non-European languages such as Indic and other Asian languages.

Some input methods such as IBus, fcitx, and uim support not only one of these CJK languages but support almost all languages simultaneously by dynamically switching keyboard modes with GUI on the fly.

The im−config package installs a hook script **/etc/X11/Xsession.d/70im-config_launch**. When X starts, it sources this file as a POSIX shell code. Then this hook script tries to source the user configuration file **˜/.xinputrc**, if it exists. Otherwise, this hook script sources the system configuration file **/etc/X11/xinit/xinputrc**.

im−config invoked from a user account updates the user configuration file **˜/.xinputrc**. **im−config** invoked from the root account updates the system configuration file **˜/etc/X11/xinit/xinputrc**. The essential contents of generated files are:

run_im ‹*input method name*›

When these files are sourced, the **run_im** shell function instructs to source the initialization code for the corresponding input method. This initialization code is defined in the ‹*2 digits number*›_‹*input method name*›**.rc** file in **/usr/share/im-config/data**.

The im−config hook script, **/etc/X11/Xsession.d/70im-config_launch**, exports following variables to X programs: $XMODIFIERS, $GTK_IM_MODULE, $QT_IM_MODULE, $QT4_IM_MODULE, and $CLUTTER_IM_MODULE.

The im−config hook script, **/etc/X11/Xsession.d/70im-config_launch**, also set $STARTUP to use **/usr/bin/im-launch** for starting required daemons.

If you wish to create a custom configuration beyond what **im−config** can do for you, please copy one of these initialization code files into **˜/.xinputrc** or **/etc/X11/xinit/xinputrc** and edit it to suite your need. For example, **02_cjkv.rc** tells how input method can be customized for each locale. This script should be written to set environment variables if "$IM_CONFIG_PHASE" = 1 and to start daemon programs if "$IM_CONFIG_PHASE" = 2 .

Please note that this ‹*2 digits number*› part of these configuration files may change for every new releases of the im−config package.

When a user makes manual changes to **˜/.xinputrc** or **/etc/X11/xinit/xinputrc** without using **im−config**, **im−config** will detect it using a md5sum hush value embedded in the shell comment and will not overwrite such files. You must erase them manually if you wish to replace them with ones created by **im−config**.

The ‹*2 digits number*›_‹*input method name*›**.conf** files in **/usr/share/im-config/data** provide the UI data for **im−config** and the heuristic logic of selecting desirable input method under the auto mode. The smaller number of the ‹*2 digits number*› indicates the higher priority of ‹*input method name*›.

These ‹*2 digits number*›_‹*input method name*›**.conf** files define few variables and functions. The value of **IM_CONFIG_SHORT** is the short description of the input method for the menu. The value of **IM_CONFIG_LONG** is the long description of the input method explaining its package dependency. The **package_menu** shell function defines as a function to return true if any associated input method packages are installed to activate its menu entry. The **package_auto** shell function defines as a function to return true if the sufficient input method packages are installed for the auto mode. These definitions use the **package_status** shell function which takes package name as its argument and returns true if it is installed properly.

The menu lists input methods with the ‹*2 digits number*› between **00** and **89**. The auto mode considers its input method candidate from ‹*2 digits number*› between **10** and **79** in this order. The usage convention of ‹*2 digits number*› is:

00-09:   Input Method choice mode   (default/auto/cjkv/REMOVE)

10-49:   Input Method supporting multiple languages.(auto ready)

50-79:   Input Method supporting limited languages. (auto ready)

80-89:   Input Method (deprecated one) (not for auto)

90-99:   Used internally by **im−config** (not for auto)

This structure ensures to have different input methods to be installed side-by-side with minimal user configurations.

TROUBLESHOOT

If you have any problem, see the first part of **˜/.xsession-errors** and look for the cause. If you are running **im−config** while Debian (sid) system is undergoing a major library transition, you may need to manually set up **˜/.xinputrc** with adjusted library version number etc. Please file a bug report to the im−config package using reportbug(1) describing your resolution experience.

SEE ALSO

/usr/share/doc/im−config/README.Debian.gz

AUTHOR

This manual page was written by Osamu Aoki <osamu@debian.org>, for the Debian GNU/Linux system (but may be used by others).