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         */
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         */

        /*
         * libthai.c - main source for libthai
         * Created: 2008-12-23
         * Author: Theppitak Karoonboonyanan
         */

        /**
         * @mainpage
         *
         * LibThai is a set of Thai language support routines aimed to ease
         * developers' tasks to incorporate Thai language support in their
         * applications. It includes important Thai-specific functions e.g. word
         * breaking, input and output methods as well as basic character and
         * string supports. LibThai is an Open Source and collaborative effort
         * initiated by Thai Linux Working Group and opened for all contributors.
         *
         * @section LibThaiFuncs LibThai Functions by Category
         *
         * LibThai provides functions to handle both tis-620 character
         * set (single-byte) and unicode (multi-byte). A function name which
         * includes `w', such as th_wbrk() is unicode version of th_brk() function.
         *
         * @subsection ThCType Functions for classifying characters
         *
         * th_istis(), th_isthai(), th_iseng(), th_isthcons(), th_isthvowel(),
         * th_isthtone(), th_isthdiac(), th_isthdigit(), th_isthpunct(),
         * th_istaillesscons(), th_isovershootcons(), th_isundershootcons(),
         * th_isundersplitcons(), th_isldvowel(), th_isflvowel(), th_isupvowel(),
         * th_isblvowel(), th_chlevel(), th_iscombchar(), th_wcistis(), th_wcisthai(),
         * th_wciseng(), th_wcisthcons(), th_wcisthvowel(), th_wcisthtone(),
         * th_wcisthdiac(), th_wcisthdigit(), th_wcisthpunct(), th_wcistaillesscons(),
         * th_wcisovershootcons(), th_wcisundershootcons(), th_wcisundersplitcons(),
         * th_wcisldvowel(), th_wcisflvowel(), th_wcisupvowel(), th_wcisblvowel(),
         * th_wcchlevel(), th_wciscombchar()
         *
         * @subsection ThBrk Functions for word segmentation
         *
         * th_brk_new(), th_brk_delete(),
         * th_brk_find_breaks(), th_brk_insert_breaks(),
         * th_brk_wc_find_breaks(), th_brk_wc_insert_breaks(),
         * th_brk(), th_brk_line(), th_wbrk(), th_wbrk_line()
         *
         * @subsection ThColl Functions for Thai string collation
         *
         * th_strcoll(), th_strxfrm(), th_wcstrcoll(), th_wcstrxfrm()
         *
         * @subsection ThStr Functions for correct the sequence of Thai string
         *
         * th_normalize(), th_wnormalize()
         *
         * @subsection ThCell Functions for Thai string cell operation
         *
         * th_next_cell(), th_prev_cell(), th_make_cells()
         *
         * @subsection ThInp Functions for Thai characters input

```
 *
 * th_isaccept(), th_validate(), th_validate_leveled()
 *
 * @subsection ThRend Functions for Thai string rendering
 *
 * th_render_cell_tis(), th_render_cell_win(), th_render_cell_mac(),
 * th_render_text_tis(), th_render_text_win(), th_render_text_mac()
 *
 * @subsection ThWChar Functions for converting between unicode and tis-620
 *
 * th_tis2uni(), th_tis2uni_line(), th_winthai2uni(), th_macthai2uni(),
 * th_uni2tis(), th_uni2tis_line(), th_uni2winthai(), th_uni2macthai()
 *
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Patents/Applications covered US-2008-0201137-A1
US-2010-0174535-A1
US-2010-0174534-A1
US-2010-0174547-A1
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US-2010-0174537-A1
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11-7-2012

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    d) If a facility in the modified Library refers to a function or a table of
    data to be supplied by an application program that uses the facility, other
    than as an argument passed when the facility is invoked, then you must make
    a good faith effort to ensure that, in the event an application does not
    supply such function or table, the facility still operates, and performs
    whatever part of its purpose remains meaningful.

    (For example, a function in a library to compute square roots has a purpose
    that is entirely well-defined independent of the application. Therefore,
    Subsection 2d requires that any application-supplied function or table used
    by this function must be optional: if the application does not supply it,
    the square root function must still compute square roots.)

    These requirements apply to the modified work as a whole. If identifiable
    sections of that work are not derived from the Library, and can be
    reasonably considered independent and separate works in themselves, then
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    sections as part of a whole which is a work based on the Library, the
    distribution of the whole must be on the terms of this License, whose
    permissions for other licensees extend to the entire whole, and thus to
    each and every part regardless of who wrote it.

    Thus, it is not the intent of this section to claim rights or contest your
    rights to work written entirely by you; rather, the intent is to exercise
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derivative works made from that copy.

This option is useful when you wish to copy part of the code of the Library into
a program that is not a library.

4. You may copy and distribute the Library (or a portion or derivative of it,
under Section 2) in object code or executable form under the terms of Sections 1
and 2 above provided that you accompany it with the complete corresponding
machine-readable source code, which must be distributed under the terms of
Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a
designated place, then offering equivalent access to copy the source code from
the same place satisfies the requirement to distribute the source code, even
though third parties are not compelled to copy the source along with the object
code.

5. A program that contains no derivative of any portion of the Library, but is
designed to work with the Library by being compiled or linked with it, is called
a "work that uses the Library". Such a work, in isolation, is not a derivative
work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an
executable that is a derivative of the Library (because it contains portions of
the Library), rather than a "work that uses the library". The executable is
therefore covered by this License. Section 6 states terms for distribution of
such executables.

When a "work that uses the Library" uses material from a header file that is part
of the Library, the object code for the work may be a derivative work of the
Library even though the source code is not. Whether this is true is especially
significant if the work can be linked without the Library, or if the work is
itself a library. The threshold for this to be true is not precisely defined by
law.

If such an object file uses only numerical parameters, data structure layouts and
accessors, and small macros and small inline functions (ten lines or less in
length), then the use of the object file is unrestricted, regardless of whether
it is legally a derivative work. (Executables containing this object code plus
portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the
object code for the work under the terms of Section 6. Any executables containing
that work also fall under Section 6, whether or not they are linked directly with
the Library itself.

6. As an exception to the Sections above, you may also combine or link a "work
that uses the Library" with the Library to produce a work containing portions of
the Library, and distribute that work under terms of your choice, provided that
the terms permit modification of the work for the customer's own use and reverse
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used in it and that the Library and its use are covered by this License. You must
supply a copy of this License. If the work during execution displays copyright
notices, you must include the copyright notice for the Library among them, as
well as a reference directing the user to the copy of this License. Also, you
must do one of these things:

    a) Accompany the work with the complete corresponding machine-readable
    source code for the Library including whatever changes were used in the
    work (which must be distributed under Sections 1 and 2 above); and, if the
    work is an executable linked with the Library, with the complete
    machine-readable "work that uses the Library", as object code and/or source
    code, so that the user can modify the Library and then relink to produce a
    modified executable containing the modified Library. (It is understood that
    the user who changes the contents of definitions files in the Library will
    not necessarily be able to recompile the application to use the modified
    definitions.)

    b) Use a suitable shared library mechanism for linking with the Library. A
    suitable mechanism is one that (1) uses at run time a copy of the library
    already present on the user's computer system, rather than copying library
    functions into the executable, and (2) will operate properly with a
    modified version of the library, if the user installs one, as long as the
    modified version is interface-compatible with the version that the work was
    made with.

    c) Accompany the work with a written offer, valid for at least three years,
    to give the same user the materials specified in Subsection 6a, above, for

a charge no more than the cost of performing this distribution.

    d) If distribution of the work is made by offering access to copy from a
    designated place, offer equivalent access to copy the above specified
    materials from the same place.

    e) Verify that the user has already received a copy of these materials or
    that you have already sent this user a copy.

For an executable, the required form of the "work that uses the Library" must
include any data and utility programs needed for reproducing the executable from
it. However, as a special exception, the materials to be distributed need not
include anything that is normally distributed (in either source or binary form)
with the major components (compiler, kernel, and so on) of the operating system
on which the executable runs, unless that component itself accompanies the
executable.

It may happen that this requirement contradicts the license restrictions of other
proprietary libraries that do not normally accompany the operating system. Such a
contradiction means you cannot use both them and the Library together in an
executable that you distribute.

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Version 2.1, February 1999

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We call this license the "Lesser" General Public License because it does Less to protect the user's freedom than the ordinary General Public License. It also provides other free software developers Less of an advantage over competing non-free programs. These disadvantages are the reason we use the ordinary General Public License for many libraries. However, the Lesser license provides advantages in certain special circumstances.

For example, on rare occasions, there may be a special need to encourage the widest possible use of a certain library, so that it becomes a de-facto standard. To achieve this, non-free programs must be allowed to use the library. A more frequent case is that a free library does the same job as widely used non-free libraries. In this case, there is little to gain by limiting the free library to free software only, so we use the Lesser General Public License.

In other cases, permission to use a particular library in non-free programs enables a greater number of people to use a large body of free software. For example, permission to use the GNU C Library in non-free programs enables many more people to use the whole GNU operating system, as well as its variant, the GNU/Linux operating system.

Although the Lesser General Public License is Less protective of the users' freedom, it does ensure that the user of a program that is linked with the Library has the freedom and the wherewithal to run that program using a modified version of the Library.

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A "library" means a collection of software functions and/or data prepared so as to be conveniently linked with application programs (which use some of those functions and data) to form executables.

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2. You may modify your copy or copies of the Library or any portion of it, thus forming a work based on the Library, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

    a) The modified work must itself be a software library.

    b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.

    c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.

    d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

    (For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

    These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

    Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

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Once this change is made in a given copy, it is irreversible for that copy, so the ordinary GNU General Public License applies to all subsequent copies and derivative works made from that copy.

This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or derivative of it,

under Section 2) in object code or executable form under the terms of Sections 1
and 2 above provided that you accompany it with the complete corresponding
machine-readable source code, which must be distributed under the terms of
Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a
designated place, then offering equivalent access to copy the source code from
the same place satisfies the requirement to distribute the source code, even
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However, linking a "work that uses the Library" with the Library creates an
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    work is an executable linked with the Library, with the complete
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    not necessarily be able to recompile the application to use the modified
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    b) Use a suitable shared library mechanism for linking with the Library. A
    suitable mechanism is one that (1) uses at run time a copy of the library
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    functions into the executable, and (2) will operate properly with a
    modified version of the library, if the user installs one, as long as the
    modified version is interface-compatible with the version that the work was
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