

External Libraries used by NMM

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This document lists all external libraries used by NMM. It also provides information on how to obtain and build these libraries for all platforms.

1. Precompiled External Libraries

Packages with precompiled binaries of most libraries are available for some platforms. We recommend using these packages because NMM is likely to work best with the provided versions of these libraries.

Table 1. Precompiled external library packages

Linux	(to be installed as part of used operating system)
Mac OS X	(to be installed as part of used operating system)
PS3	tar.gz (../../download/nmm-2.2.0-external-libs-ps3.tar.gz)
Windows	(installed automatically with NMM)

2. Used Libraries

The following external libraries are provided as precompiled binaries and source packages with NMM:

Table 2. External libraries

Name	Description
libxml2	XML parser
libiconv	Library required by libxml2
libltdl	Dynamic library support
getopt	getopt() implementation for Windows
pthread-win32	POSIX threads implementation for Windows
zlib	Library required by libxml2
ntp	NMM on Windows uses parts of the ntp package
loki	The NMM Singleton class is based on ideas and source code of The Loki Library

For each external library, the following information is given:

Table 3. Information about an External Library

Name	The original package name of the library
Description	A brief description of the library
Version	The version of the library which works with NMM. NMM may or may not be compatible with newer versions of the library. If a custom version of the library is required, then this is indicated here.
Homepage	The official project homepage of the external library

Source	Name of the package which contains the full source code of the external library as well as build files required for building the library on all supported platforms. The package is either an original source package of the library or a customized source package which is based on an original source package.
Binary	List of platforms for which precompiled binaries of the library are provided.
Licence	The type of licence under which the external library is available. For custom licences (i.e. licences other than the well-known GNU licences), the full licence text is provided in this documentation.
Build Instructions	Instructions for building the library from provided sources and build files the on all platforms

2.1. libxml2

Table 4. libxml2

Name	libxml2
Description	XML parser
Version	2.4.23
Homepage	http://xmlsoft.org/
Source	tar.gz (../..../download/libxml2-2.4.23.tar.gz)
Binary	Windows

Licence:

Except where otherwise noted in the source code (e.g. the files `hash.c`, `list.c` and the `trio` files, which are covered by a similar licence but with different Copyright notices) all the files are:

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Build Instructions:

```
tar xzf libxml2-2.4.23.tar.gz
cd libxml2-2.4.23
./configure --enable-shared --disable-static
make
make install
```

2.2. libiconv

Table 5. libiconv

Name	libiconv
Description	Library required by libxml2
Version	1.11
Homepage	http://www.gnu.org/software/libiconv/
Source	tar.gz (../..../download/libiconv-1.11.tar.gz)
Binary	Windows
Licence	GNU LIBRARY GENERAL PUBLIC LICENSE Version 2

Build Instructions:

```
tar xzf libiconv-1.11.tar.gz
```

```
cd libiconv-1.11
./configure --enable-shared --disable-static
make
make install
```

2.3. libltdl

Table 6. libltdl

Name	libltdl (part of libtool)
Description	Dynamic library support
Version	1.4.2
Homepage	http://www.gnu.org/software/libtool/
Source	tar.gz (../..../download/libtool-1.4.2.tar.gz)
Binary	PS3
Licence	GNU LESSER GENERAL PUBLIC LICENSE Version 2.1 (only for libltdl)

Build Instructions:

```
tar xzf libtool-1.4.2.tar.gz
cd libtool-1.4.2
./configure --enable-shared --disable-static
make
make install
```

2.4. getopt

Table 7. getopt

Name	libc
Description	getopt() implementation for Windows, taken from the GNU C library and compiled as an independent library
Version	?, with custom extensions by Motama GmbH
Homepage	http://www.gnu.org/software/libc/
Source	zip (../..../download/getopt.zip)

Binary	Windows
Licence	GNU LESSER GENERAL PUBLIC LICENSE Version 2.1

Build Instructions (Windows):

- Unpack the file `getopt.zip`. It will create a directory named `getopt`.
- Open the file `getopt/getopt.sln` in Microsoft Visual Studio 2005.
- Select `Release` in the configuration selector and choose "Build Solution" from the "Build" menu. This will create optimized versions of `getopt.dll` and `getopt.lib` in the directory `getopt/Release`.
- Select `WinXP_Debug` in the configuration selector and choose "Build Solution" from the "Build" menu. This will create optimized versions of `getopt.dll` and `getopt.lib`, which link against the debug versions of the runtime libraries, in the directory `getopt/WinXP_Debug`.
- Copy all LIB, DLL and header files to the location where the NMM project files expect them to be.

2.5. pthreads-win32

Table 8. pthreads-win32

Name	pthreads-win32
Description	POSIX threads implementation for Windows
Version	?, with build files provided by Motama GmbH
Homepage	http://sourceware.org/pthreads-win32/
Source	zip (<code>../../download/pthreads_2005_03_08.zip</code>)
Binary	Windows
Licence	GNU LESSER GENERAL PUBLIC LICENSE Version 2.1

Build Instructions (Windows):

- Unpack the file `pthreads_2005_03_08.zip`. It will create a directory named `pthreads_2005_03_08`.
- Open the file `pthreads_2005_03_08/pthread.sln` in Microsoft Visual Studio 2005.
- Select `Release` in the configuration selector and choose "Build Solution" from the "Build" menu. This will create optimized versions of `pthreadVC.dll` and `pthreadVC.lib` in the directory `pthreads_2005_03_08`.

- Select `WinXP_Debug` in the configuration selector and choose "Build Solution" from the "Build" menu. This will create optimized versions of `pthreadVC.dll` and `pthreadVC.lib`, which link against the debug versions of the runtime libraries, in the directory `pthreads_2005_03_08`.
- Copy all LIB, DLL and header files to the location where the NMM project files expect them to be. Rename `pthreadVC.lib` and `pthreadVC.dll` to `pthreadVC2.lib` and `pthreadVC2.dll` respectively.

2.6. zlib

Table 9. zlib

Name	zlib
Description	Library required by libxml2
Version	1.2.3
Homepage	http://www.zlib.net/
Source	tar.gz (../../download/zlib-1.2.3.tar.gz)
Binary	Windows, PS3

Licence:

```
/* zlib.h -- interface of the 'zlib' general purpose compression library
   version 1.2.3, July 18th, 2005
```

```
Copyright (C) 1995-2005 Jean-loup Gailly and Mark Adler
```

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```
Jean-loup Gailly jloup@gzip.org
Mark Adler madler@alumni.caltech.edu
```

```
*/
```

Build Instructions:

```
tar xzf zlib-1.2.3.tar.gz
cd zlib-1.2.3
./configure --enable-shared --disable-static
make
make install
```

2.7. ntp

Table 10. ogmtools

Name	ntp
Description	NMM on Windows uses parts of the ntp package
Version	unkown
Homepage	http://www.ntp.org
Source	undisclosed
Binary	Part of the Windows binary release

Licence:

```
*****
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*
*****
```

2.8. The Loki Library

Table 11. The Loki Library

Name	The Loki Library
Description	The NMM Singleton class is based on ideas and source code of The Loki Library
Version	unkown
Homepage	http://loki-lib.sourceforge.net/
Source	nmm/utls/Singleton.hpp
Binary	Part nmm_utils.so and nmm_utils.dll

Licence:

```

////////////////////////////////////
// The Loki Library
// Copyright (c) 2001 by Andrei Alexandrescu
// This code accompanies the book:
// Alexandrescu, Andrei. "Modern C++ Design: Generic Programming and Design
//   Patterns Applied". Copyright (c) 2001. Addison-Wesley.
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////////////////////////////////////

```