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**Linux Standard Base Languages Specification**

LSB Languages

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# **Foreword**

ISO (the International Organization for Standardization) and IEC (the International Electrotechnical Commission) form the specialized system for worldwide standardization. National bodies that are members of ISO or IEC participate in the development of International Standards through technical committees established by the respective organization to deal with particular fields of technical activity. ISO and IEC technical committees collaborate in fields of mutual interest. Other international organizations, governmental and non-governmental, in liaison with ISO and IEC, also take part in the work. In the field of information technology, ISO and IEC have established a joint technical committee, ISO/IEC JTC 1.

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This document is a direct adoption of the Linux Standards Base (LSB) 5.0 Runtime Languages (Generic), issued by the Linux Foundation. The previous release of these standards, ISO/IEC 23360-1 through -8:2005 were international standards published under the ISO/IEC/JTC 1 Publicly Available Specification process. This document, and others in the series, are published under the GNU Free Documentation License (See Annex B).

This is version 1.0 of the Linux Standard Base Runtime Languages Specification. This standard replaces the Runtime Languages portion of ISO/IEC 23360-1 Linux Standard Base, which is cancelled and replaced by ISO/IEC 23360-1-1 through -1-5. Other (processor specific) parts of the original Linux Standards Base are also subdivided as follows

* the Intel 32 bit architecture in ISO/IEC 23360-2-2 and ISO/IEC 23360-2-3,
* the Intel 64 bit architecture in ISO/IEC 23360-3-2 and ISO/IEC 23360-3-3,
* the PowerPC 32 bit architecture in ISO/IEC 23360-4-2 and ISO/IEC 23360-4-2,
* the PowerPC 64 bit architecture in ISO/IEC 23360-5-2 and ISO/IEC 23360-5-3,
* the IBM S390 architecture in ISO/IEC 23360-6-2 and ISO/IEC 23360-7-3,
* the IBM S390X architecture in ISO/IEC 23360-7-2 and ISO/IEC 23360-7-3, and
* the AMD 64 bit architecture in ISO/IEC 23360-8-2 and ISO/IEC 23360-8-3

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# **Introduction**

The LSB defines a binary interface for application programs that are compiled and packaged for LSB-conforming implementations on many different hardware architectures. A binary specification must include information specific to the computer processor architecture for which it is intended. To avoid the complexity of conditional descriptions, the specification has instead been divided into generic parts which are augmented by one of several architecture-specific parts, depending on the target processor architecture; the generic part will indicate when reference must be made to the architecture part, and vice versa.

This document should be used in conjunction with the documents it references. This document enumerates the system components it includes, but descriptions of those components may be included entirely or partly in this document, partly in other documents, or entirely in other reference documents. For example, the section that describes system service routines includes a list of the system routines supported in this interface, formal declarations of the data structures they use that are visible to applications, and a pointer to the underlying referenced specification for information about the syntax and semantics of each call. Only those routines not described in standards referenced by this document, or extensions to those standards, are described in the detail. Information referenced in this way is as much a part of this document as is the information explicitly included here.

The specification carries a version number of either the form *x.y* or *x.y.z*. This version number carries the following meaning:

1. The first number (*x*) is the major version number. Versions sharing the same major version number shall be compatible in a backwards direction; that is, a newer version shall be compatible with an older version. Any deletion of a library results in a new major version number. Interfaces marked as deprecated may be removed from the specification at a major version change.

2. The second number (*y*) is the minor version number. Libraries and individual interfaces may be added, but not removed. Interfaces may be marked as deprecated at a minor version change. Other minor changes may be permitted at the discretion of the LSB workgroup.

3. The third number (*z*), if present, is the editorial level. Only editorial changes should be included in such versions.

Since this specification is a descriptive Application Binary Interface, and not a source level API specification, it is not possible to make a guarantee of 100% backward compatibility between major releases. However, it is the intent that those parts of the binary interface that are visible in the source level API will remain backward compatible from version to version, except where a feature marked as "Deprecated" in one release may be removed from a future release. Implementors are strongly encouraged to make use of symbol versioning to permit simultaneous support of applications conforming to different releases of this specification.

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# **I Introductory Elements**

# **1 Scope**

The LSB Languages specification defines components for runtime languages which are found on an LSB conforming system.

# **2 Normative References**

The specifications listed below are referenced in whole or in part by the LSB Languages specification. Such references may be normative or informative; a reference to specification shall only be considered normative if it is explicitly cited as such. The LSB Languages specification may make normative references to a portion of these specifications (that is, to define a specific function or group of functions); in such cases, only the explicitly referenced portion of the specification is to be considered normative.

**Table 2-1 Informative References**

| **Name** | **Title** | **URL** |
| --- | --- | --- |
| ISO C (1999) | ISO/IEC 9899:1999 - Programming Languages -- C |  |
| Perl Core Modules | Perl 5.8.8 Core Modules | http://perldoc.perl.org/5.8.8/index-modules-A.html |
| Perl Functions | Perl 5.8.8 Functions | http://perldoc.perl.org/5.8.8/perlfunc.html |
| Perl Language Reference | Perl 5.8.8 Language Reference | http://perldoc.perl.org/5.8.8/index-language.html |
| Perl Manual | Perl 5.8.8 Manual Page | http://perldoc.perl.org/5.8.8/perlrun.html |
| Perl Operators | Perl 5.8.8 Operators and Precedence | http://perldoc.perl.org/5.8.8/perlop.html |
| Perl Syntax | Perl 5.8.8 Syntax | http://perldoc.perl.org/5.8.8/perlsyn.html |
| Python Library Reference | Python Library Reference Release 2.4.2 | http://www.python.org/doc/2.4.2/lib/lib.html |
| Python Reference Manual | Python Reference Manual Release 2.4.2 | http://www.python.org/doc/2.4.2/ref/ref.html |
| Reference Manual for libxml2 | Reference Manual for libxml2 | http://xmlsoft.org/html/index.html |
| Reference Manual for libxslt | Reference Manual for libxslt | http://xmlsoft.org/xslt/html/index.html |

# **3 Requirements**

This specification describes runtime language interpreters which shall be found in specified locations. It also defines a number of runtime modules which shall be in an implementation-defined directory which the interpreters shall search by default.

## **3.1 Relevant Libraries**

The libraries listed in [Table 3-1](#ID_TBL_45_LIB_45_LANGUAGES) shall be available on a Linux Standard Base system, with the specified runtime names. This list may be supplemented or amended by the architecture-specific specification.

**Table 3-1 Standard Library Names**

| **Library** | **Runtime Name** |
| --- | --- |
| libxml2 | libxml2.so.2 |
| libxslt | libxslt.so.1 |

These libraries will be in an implementation-defined directory which the dynamic linker shall search by default.

# **4 Terms and Definitions**

For the purposes of this document, the terms given in *ISO/IEC Directives, Part 2, Annex H* and the following apply.

archLSB

  Some LSB specification documents have both a generic, architecture-neutral part and an architecture-specific part. The latter describes elements whose definitions may be unique to a particular processor architecture. The term archLSB may be used in the generic part to refer to the corresponding section of the architecture-specific part.

Binary Standard, ABI

  The total set of interfaces that are available to be used in the compiled binary code of a conforming application, including the run-time details such as calling conventions, binary format, C++ name mangling, etc.

Implementation-defined

  Describes a value or behavior that is not defined by this document but is selected by an implementor. The value or behavior may vary among implementations that conform to this document. An application should not rely on the existence of the value or behavior. An application that relies on such a value or behavior cannot be assured to be portable across conforming implementations. The implementor shall document such a value or behavior so that it can be used correctly by an application.

Shell Script

  A file that is read by an interpreter (e.g., awk). The first line of the shell script includes a reference to its interpreter binary.

Source Standard, API

  The total set of interfaces that are available to be used in the source code of a conforming application. Due to translations, the Binary Standard and the Source Standard may contain some different interfaces.

Undefined

  Describes the nature of a value or behavior not defined by this document which results from use of an invalid program construct or invalid data input. The value or behavior may vary among implementations that conform to this document. An application should not rely on the existence or validity of the value or behavior. An application that relies on any particular value or behavior cannot be assured to be portable across conforming implementations.

Unspecified

  Describes the nature of a value or behavior not specified by this document which results from use of a valid program construct or valid data input. The value or behavior may vary among implementations that conform to this document. An application should not rely on the existence or validity of the value or behavior. An application that relies on any particular value or behavior cannot be assured to be portable across conforming implementations.

In addition, for the portions of this specification which build on IEEE Std 1003.1-2001, the definitions given in *IEEE Std 1003.1-2001, Base Definitions, Chapter 3* apply.

# **5 Documentation Conventions**

Throughout this document, the following typographic conventions are used:

function()

  the name of a function

**command**

  the name of a command or utility

CONSTANT

  a constant value

*parameter*

  a parameter

variable

  a variable

Throughout this specification, several tables of interfaces are presented. Each entry in these tables has the following format:

name

  the name of the interface

(symver)

  An optional symbol version identifier, if required.

[*refno*]

  A reference number indexing the table of referenced specifications that follows this table.

For example,

|  |
| --- |
| forkpty(GLIBC\_2.0) [SUSv4] |

refers to the interface named forkpty() with symbol version GLIBC\_2.0 that is defined in the reference indicated by the tag SUSv4.

**Note:** For symbols with versions which differ between architectures, the symbol versions are defined in the architecture specific parts of of this module specification only. In the generic part, they will appear without symbol versions.

# **II Python Interpreter**

# **6 Python Interpreter**

## **6.1 Introduction**

The Python intrepreter API is described in the [Python Library Reference](#ID_STD_46_PYTHONLIB), with the following requirements for an LSB conforming runtime.

## **6.2 Python Interpreter Location**

The Python interpreter binary, or a link to the binary, shall exist at /usr/bin/python.

## **6.3 Python Interpreter Version**

The default installed Python version shall be 2.4.2 or greater.

## **6.4 Operators and Functions**

Core Python operators, subroutines, and built-in functions shall be present and shall operate as defined in [Python Reference Manual](#ID_STD_46_PYTHON).

## **6.5 Python Modules**

An LSB conforming implementation shall provide the Python modules as described in [Table 6-1](#ID_TBL_45_PYTHON_45_MODS) with at least the behavior described as mandatory in the referenced underlying specification. Some Python modules may be marked as deprecated, and applications should avoid using these as they may be withdrawn in future releases of this specification.

**Table 6-1 Python Modules**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| array [[1]](#ID_STD_45_MOD_45_133) | csv [[1]](#ID_STD_45_MOD_45_133) | imp [[1]](#ID_STD_45_MOD_45_133) | posix [[1]](#ID_STD_45_MOD_45_133) | sys [[1]](#ID_STD_45_MOD_45_133) |
| binascii [[1]](#ID_STD_45_MOD_45_133) | datetime [[1]](#ID_STD_45_MOD_45_133) | itertools [[1]](#ID_STD_45_MOD_45_133) | pwd [[1]](#ID_STD_45_MOD_45_133) | syslog [[1]](#ID_STD_45_MOD_45_133) |
| bisect [[1]](#ID_STD_45_MOD_45_133) | errno [[1]](#ID_STD_45_MOD_45_133) | locale [[1]](#ID_STD_45_MOD_45_133) | random [[1]](#ID_STD_45_MOD_45_133) | termios [[1]](#ID_STD_45_MOD_45_133) |
| cPickle [[1]](#ID_STD_45_MOD_45_133) | exceptions [[1]](#ID_STD_45_MOD_45_133) | marshal [[1]](#ID_STD_45_MOD_45_133) | re [[1]](#ID_STD_45_MOD_45_133) | thread [[1]](#ID_STD_45_MOD_45_133) |
| cStringIO [[1]](#ID_STD_45_MOD_45_133) | fcntl [[1]](#ID_STD_45_MOD_45_133) | mmap [[1]](#ID_STD_45_MOD_45_133) | resource [[1]](#ID_STD_45_MOD_45_133) | time [[1]](#ID_STD_45_MOD_45_133) |
| cmath [[1]](#ID_STD_45_MOD_45_133) | gc [[1]](#ID_STD_45_MOD_45_133) | operator [[1]](#ID_STD_45_MOD_45_133) | select [[1]](#ID_STD_45_MOD_45_133) | unicodedata [[1]](#ID_STD_45_MOD_45_133) |
| codecs [[1]](#ID_STD_45_MOD_45_133) | grp [[1]](#ID_STD_45_MOD_45_133) | os [[1]](#ID_STD_45_MOD_45_133) | signal [[1]](#ID_STD_45_MOD_45_133) | weakref [[1]](#ID_STD_45_MOD_45_133) |
| collections [[1]](#ID_STD_45_MOD_45_133) | heapq [[1]](#ID_STD_45_MOD_45_133) | ossaudiodev [[1]](#ID_STD_45_MOD_45_133) | socket [[1]](#ID_STD_45_MOD_45_133) | zipimport [[1]](#ID_STD_45_MOD_45_133) |
| crypt [[1]](#ID_STD_45_MOD_45_133) | hotshot [[1]](#ID_STD_45_MOD_45_133) | parser [[1]](#ID_STD_45_MOD_45_133) | string [[1]](#ID_STD_45_MOD_45_133) | zlib [[1]](#ID_STD_45_MOD_45_133) |

*Referenced Specification(s)*

**[1].** [Python Reference Manual](#ID_STD_46_PYTHON)

## **6.6 Python Interpreter Command**

This section contains a description of the **python** command.

#### PYTHON

##### Name

python — an interpreted, interactive, object-oriented programming language

##### Synopsis

**python** [-d ] [-E ] [-h ] [-i ] [ -m *module-name* ] [-O ] [ -Q *argument* ] [-S ] [-t ] [-u ] [-v ] [-V ] [ -W *argument* ] [-x ] [ -c *command* | *script* | - ] [*arguments*]

##### Description

Python is an interpreted, interactive, object-oriented programming language that combines remarkable power with very clear syntax. For an introduction to programming in Python you are referred to the Python Tutorial. The Python Library Reference documents built-in and standard types, constants, functions and modules. Finally, the Python Reference Manual describes the syntax and semantics of the core language in (perhaps too) much detail. (These documents may be located via the [INTERNET RESOURCES](#ID_PYINTERNET_45_RESOURCES) below; they may be installed on your system as well.)

Python's basic power can be extended with your own modules written in C or C++. On most systems such modules may be dynamically loaded. Python is also adaptable as an extension language for existing applications. See the internal documentation for hints.

Documentation for installed Python modules and packages can be viewed by running the *pydoc* program.

#### Command line options

-c *command*

  Specify the command to execute (see next section). This terminates the option list (following options are passed as arguments to the command).

-d

  Turn on parser debugging output (for wizards only, depending on compilation options).

-E

  Ignore environment variables like PYTHONPATH and PYTHONHOME that modify the behavior of the interpreter.

-h

  Prints the usage for the interpreter executable and exits.

-i

  When a script is passed as first argument or the -c option is used, enter interactive mode after executing the script or the command. It does not read the $PYTHONSTARTUP file. This can be useful to inspect global variables or a stack trace when a script raises an exception.

-m *module-name*

  Searches *sys.path* for the named module and runs the corresponding .py file as a script.

-O

  Turn on basic optimizations. This changes the filename extension for compiled (bytecode) files from .pyc to .pyo. Given twice, causes docstrings to be discarded.

-Q *argument*

  Division control; see PEP 238. The argument must be one of "old" (the default, int/int and long/long return an int or long), "new" (new division semantics, i.e. int/int and long/long returns a float), "warn" (old division semantics with a warning for int/int and long/long), or "warnall" (old division semantics with a warning for all use of the division operator). For a use of "warnall", see the Tools/scripts/fixdiv.py script.

-S

  Disable the import of the module *site* and the site-dependent manipulations of *sys.path* that it entails.

-t

  Issue a warning when a source file mixes tabs and spaces for indentation in a way that makes it depend on the worth of a tab expressed in spaces. Issue an error when the option is given twice.

-u

  Force stdin, stdout and stderr to be totally unbuffered. On systems where it matters, also put stdin, stdout and stderr in binary mode. Note that there is internal buffering in xreadlines(), readlines() and file-object iterators ("for line in sys.stdin") which is not influenced by this option. To work around this, you will want to use "sys.stdin.readline()" inside a "while 1:" loop.

-v

  Print a message each time a module is initialized, showing the place (filename or built-in module) from which it is loaded. When given twice, print a message for each file that is checked for when searching for a module. Also provides information on module cleanup at exit.

-V

  Prints the Python version number of the executable and exits.

-W *argument*

  Warning control. Python sometimes prints warning message to *sys.stderr*. A typical warning message has the following form: *file:line: category: message.* By default, each warning is printed once for each source line where it occurs. This option controls how often warnings are printed. Multiple -W options may be given; when a warning matches more than one option, the action for the last matching option is performed. Invalid -W options are ignored (a warning message is printed about invalid options when the first warning is issued). Warnings can also be controlled from within a Python program using the *warnings* module.

The simplest form of *argument* is one of the following *action* strings (or a unique abbreviation): *ignore* to ignore all warnings; *default* to explicitly request the default behavior (printing each warning once per source line); *all* to print a warning each time it occurs (this may generate many messages if a warning is triggered repeatedly for the same source line, such as inside a loop); *module* to print each warning only only the first time it occurs in each module; *once* to print each warning only the first time it occurs in the program; or *error* to raise an exception instead of printing a warning message.

The full form of *argument* is *action:message:category:module:line.* Here, *action* is as explained above but only applies to messages that match the remaining fields. Empty fields match all values; trailing empty fields may be omitted. The *message* field matches the start of the warning message printed; this match is case-insensitive. The *category* field matches the warning category. This must be a class name; the match test whether the actual warning category of the message is a subclass of the specified warning category. The full class name must be given. The *module* field matches the (fully-qualified) module name; this match is case-sensitive. The *line* field matches the line number, where zero matches all line numbers and is thus equivalent to an omitted line number.

-x

  Skip the first line of the source. This is intended for a DOS specific hack only. Warning: the line numbers in error messages will be off by one!

##### Interpreter Interface

The interpreter interface resembles that of the UNIX shell: when called with standard input connected to a tty device, it prompts for commands and executes them until an EOF is read; when called with a file name argument or with a file as standard input, it reads and executes a *script* from that file; when called with -c *command,* it executes the Python statement(s) given as *command.* Here *command* may contain multiple statements separated by newlines. Leading whitespace is significant in Python statements! In non-interactive mode, the entire input is parsed before it is executed.

If available, the script name and additional arguments thereafter are passed to the script in the Python variable *sys.argv ,* which is a list of strings (you must first *import sys* to be able to access it). If no script name is given, *sys.argv[0]* is an empty string; if -c is used, *sys.argv[0]* contains the string *'-c'.* Note that options interpreted by the Python interpreter itself are not placed in *sys.argv.*

In interactive mode, the primary prompt is >>>; the second prompt (which appears when a command is not complete) is .... The prompts can be changed by assignment to *sys.ps1* or *sys.ps2.* The interpreter quits when it reads an EOF at a prompt. When an unhandled exception occurs, a stack trace is printed and control returns to the primary prompt; in non-interactive mode, the interpreter exits after printing the stack trace. The interrupt signal raises the *Keyboard­Interrupt* exception; other UNIX signals are not caught (except that SIGPIPE is sometimes ignored, in favor of the *IOError* exception). Error messages are written to stderr.

##### Files and directories

These are subject to difference depending on local installation conventions; ${prefix} and ${exec\_prefix} are installation-dependent and should be interpreted as for GNU software; they may be the same. The default for both is /usr/local.

*${exec\_prefix}/bin/python*

  Recommended location of the interpreter.

*${prefix}/lib/python<version>* *${exec\_prefix}/lib/python<version>*

Recommended locations of the directories containing the standard modules.

*${prefix}/include/python<version>* *${exec\_prefix}/include/python<version>*

Recommended locations of the directories containing the include files needed for developing Python extensions and embedding the interpreter.

~/.pythonrc.py

  User-specific initialization file loaded by the *user* module; not used by default or by most applications.

##### Environment variables

PYTHONHOME

  Change the location of the standard Python libraries. By default, the libraries are searched in ${prefix}/lib/python<version> and ${exec\_prefix}/lib/python<version>, where ${prefix} and ${exec\_prefix} are installation-dependent directories, both defaulting to /usr/local. When $PYTHONHOME is set to a single directory, its value replaces both ${prefix} and ${exec\_prefix}. To specify different values for these, set $PYTHONHOME to ${prefix}:${exec\_prefix}.

PYTHONPATH

  Augments the default search path for module files. The format is the same as the shell's $PATH: one or more directory pathnames separated by colons. Non-existent directories are silently ignored. The default search path is installation dependent, but generally begins with ${prefix}/lib/python<version> (see PYTHONHOME above). The default search path is always appended to $PYTHONPATH. If a script argument is given, the directory containing the script is inserted in the path in front of $PYTHONPATH. The search path can be manipulated from within a Python program as the variable *sys.path .*

PYTHONSTARTUP

  If this is the name of a readable file, the Python commands in that file are executed before the first prompt is displayed in interactive mode. The file is executed in the same name space where interactive commands are executed so that objects defined or imported in it can be used without qualification in the interactive session. You can also change the prompts *sys.ps1* and *sys.ps2* in this file.

PYTHONY2K

  Set this to a non-empty string to cause the *time* module to require dates specified as strings to include 4-digit years, otherwise 2-digit years are converted based on rules described in the *time* module documentation.

PYTHONOPTIMIZE

  If this is set to a non-empty string it is equivalent to specifying the -O option. If set to an integer, it is equivalent to specifying -O multiple times.

PYTHONDEBUG

  If this is set to a non-empty string it is equivalent to specifying the -d option. If set to an integer, it is equivalent to specifying -d multiple times.

PYTHONINSPECT

  If this is set to a non-empty string it is equivalent to specifying the -i option.

PYTHONUNBUFFERED

  If this is set to a non-empty string it is equivalent to specifying the -u option.

PYTHONVERBOSE

  If this is set to a non-empty string it is equivalent to specifying the -v option. If set to an integer, it is equivalent to specifying -v multiple times.

##### Author

The Python Software Foundation: http://www.python.org/psf

##### Internet resources

Main website: http://www.python.org/ Documentation: http://docs.python.org/ Community website: http://starship.python.net/ Developer resources: http://www.python.org/dev/ FTP: ftp://ftp.python.org/pub/python/ Module repository: http://www.vex.net/parnassus/ Newsgroups: comp.lang.python, comp.lang.python.announce

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# **III Perl Interpreter**

# **7 Perl Interpreter**

## **7.1 Introduction**

The Perl intrepreter API is described in the [Perl Language Reference](#ID_STD_46_PERLLANG), with the following requirements for an LSB conforming runtime.

## **7.2 Perl Interpreter Location**

The Perl interpreter binary, or a link to the binary, shall exist at /usr/bin/perl.

## **7.3 Perl Interpreter Version**

The default installed Perl version shall be 5.8.8 or greater.

## **7.4 Perl Operators and Functions**

Core Perl operators, subroutines, and built-in functions shall be present and shall operate as defined in [Perl Syntax](#ID_STD_46_PERLSYN), [Perl Operators](#ID_STD_46_PERLOP) and [Perl Functions](#ID_STD_46_PERLFUN).

## **7.5 Perl Modules**

An LSB conforming implementation shall provide the Perl modules as described in [Table 7-1](#ID_TBL_45_PERL_45_MODS) with at least the behavior described as mandatory in the referenced underlying specification. Some Perl modules may be marked as deprecated, and applications should avoid using these as they may be withdrawn in future releases of this specification.

**Table 7-1 Perl Modules**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| AnyDBM\_File [[1]](#ID_STD_45_MOD_45_127) | Encode::JP [[1]](#ID_STD_45_MOD_45_127) | I18N::Collate [[1]](#ID_STD_45_MOD_45_127) | Net::Time [[1]](#ID_STD_45_MOD_45_127) | Test::More [[1]](#ID_STD_45_MOD_45_127) |
| Attribute::Handlers [[1]](#ID_STD_45_MOD_45_127) | Encode::JP::H2Z [[1]](#ID_STD_45_MOD_45_127) | I18N::LangTags [[1]](#ID_STD_45_MOD_45_127) | Net::hostent [[1]](#ID_STD_45_MOD_45_127) | Test::Simple [[1]](#ID_STD_45_MOD_45_127) |
| AutoLoader [[1]](#ID_STD_45_MOD_45_127) | Encode::JP::JIS7 [[1]](#ID_STD_45_MOD_45_127) | I18N::LangTags::Detect [[1]](#ID_STD_45_MOD_45_127) | Net::netent [[1]](#ID_STD_45_MOD_45_127) | Text::Abbrev [[1]](#ID_STD_45_MOD_45_127) |
| AutoSplit [[1]](#ID_STD_45_MOD_45_127) | Encode::KR [[1]](#ID_STD_45_MOD_45_127) | I18N::LangTags::List [[1]](#ID_STD_45_MOD_45_127) | Net::protoent [[1]](#ID_STD_45_MOD_45_127) | Text::Balanced [[1]](#ID_STD_45_MOD_45_127) |
| B::Concise [[1]](#ID_STD_45_MOD_45_127) | Encode::KR::2022\_KR [[1]](#ID_STD_45_MOD_45_127) | I18N::Langinfo [[1]](#ID_STD_45_MOD_45_127) | Net::servent [[1]](#ID_STD_45_MOD_45_127) | Text::ParseWords [[1]](#ID_STD_45_MOD_45_127) |
| B::Debug [[1]](#ID_STD_45_MOD_45_127) | Encode::MIME::Header [[1]](#ID_STD_45_MOD_45_127) | IO [[1]](#ID_STD_45_MOD_45_127) | O [[1]](#ID_STD_45_MOD_45_127) | Text::Soundex [[1]](#ID_STD_45_MOD_45_127) |
| B::Deparse [[1]](#ID_STD_45_MOD_45_127) | Encode::Symbol [[1]](#ID_STD_45_MOD_45_127) | IO::Dir [[1]](#ID_STD_45_MOD_45_127) | Opcode [[1]](#ID_STD_45_MOD_45_127) | Text::Tabs [[1]](#ID_STD_45_MOD_45_127) |
| B::Lint [[1]](#ID_STD_45_MOD_45_127) | Encode::TW [[1]](#ID_STD_45_MOD_45_127) | IO::File [[1]](#ID_STD_45_MOD_45_127) | POSIX [[1]](#ID_STD_45_MOD_45_127) | Text::Wrap [[1]](#ID_STD_45_MOD_45_127) |
| B::Showlex [[1]](#ID_STD_45_MOD_45_127) | Encode::Unicode [[1]](#ID_STD_45_MOD_45_127) | IO::Handle [[1]](#ID_STD_45_MOD_45_127) | PerlIO [[1]](#ID_STD_45_MOD_45_127) | Tie::Array [[1]](#ID_STD_45_MOD_45_127) |
| B::Terse [[1]](#ID_STD_45_MOD_45_127) | Encode::Unicode::UTF7 [[1]](#ID_STD_45_MOD_45_127) | IO::Pipe [[1]](#ID_STD_45_MOD_45_127) | PerlIO::encoding [[1]](#ID_STD_45_MOD_45_127) | Tie::File [[1]](#ID_STD_45_MOD_45_127) |
| B::Xref [[1]](#ID_STD_45_MOD_45_127) | English [[1]](#ID_STD_45_MOD_45_127) | IO::Poll [[1]](#ID_STD_45_MOD_45_127) | PerlIO::scalar [[1]](#ID_STD_45_MOD_45_127) | Tie::Handle [[1]](#ID_STD_45_MOD_45_127) |
| Benchmark [[1]](#ID_STD_45_MOD_45_127) | Env [[1]](#ID_STD_45_MOD_45_127) | IO::Seekable [[1]](#ID_STD_45_MOD_45_127) | PerlIO::via [[1]](#ID_STD_45_MOD_45_127) | Tie::Hash [[1]](#ID_STD_45_MOD_45_127) |
| CGI [[1]](#ID_STD_45_MOD_45_127) | Exporter [[1]](#ID_STD_45_MOD_45_127) | IO::Select [[1]](#ID_STD_45_MOD_45_127) | PerlIO::via::QuotedPrint [[1]](#ID_STD_45_MOD_45_127) | Tie::Memoize [[1]](#ID_STD_45_MOD_45_127) |
| CGI::Apache [[1]](#ID_STD_45_MOD_45_127) | Exporter::Heavy [[1]](#ID_STD_45_MOD_45_127) | IO::Socket [[1]](#ID_STD_45_MOD_45_127) | Pod::Checker [[1]](#ID_STD_45_MOD_45_127) | Tie::RefHash [[1]](#ID_STD_45_MOD_45_127) |
| CGI::Carp [[1]](#ID_STD_45_MOD_45_127) | ExtUtils::Command [[1]](#ID_STD_45_MOD_45_127) | IO::Socket::INET [[1]](#ID_STD_45_MOD_45_127) | Pod::Find [[1]](#ID_STD_45_MOD_45_127) | Tie::Scalar [[1]](#ID_STD_45_MOD_45_127) |
| CGI::Cookie [[1]](#ID_STD_45_MOD_45_127) | ExtUtils::Command::MM [[1]](#ID_STD_45_MOD_45_127) | IO::Socket::UNIX [[1]](#ID_STD_45_MOD_45_127) | Pod::Functions [[1]](#ID_STD_45_MOD_45_127) | Tie::SubstrHash [[1]](#ID_STD_45_MOD_45_127) |
| CGI::Pretty [[1]](#ID_STD_45_MOD_45_127) | ExtUtils::Install [[1]](#ID_STD_45_MOD_45_127) | IPC::Msg [[1]](#ID_STD_45_MOD_45_127) | Pod::Html [[1]](#ID_STD_45_MOD_45_127) | Time::HiRes [[1]](#ID_STD_45_MOD_45_127) |
| CGI::Push [[1]](#ID_STD_45_MOD_45_127) | ExtUtils::Installed [[1]](#ID_STD_45_MOD_45_127) | IPC::Open2 [[1]](#ID_STD_45_MOD_45_127) | Pod::InputObjects [[1]](#ID_STD_45_MOD_45_127) | Time::Local [[1]](#ID_STD_45_MOD_45_127) |
| CGI::Util [[1]](#ID_STD_45_MOD_45_127) | ExtUtils::Liblist [[1]](#ID_STD_45_MOD_45_127) | IPC::Open3 [[1]](#ID_STD_45_MOD_45_127) | Pod::LaTeX [[1]](#ID_STD_45_MOD_45_127) | Time::gmtime [[1]](#ID_STD_45_MOD_45_127) |
| CPAN [[1]](#ID_STD_45_MOD_45_127) | ExtUtils::Liblist::Kid [[1]](#ID_STD_45_MOD_45_127) | IPC::Semaphore [[1]](#ID_STD_45_MOD_45_127) | Pod::Man [[1]](#ID_STD_45_MOD_45_127) | Time::localtime [[1]](#ID_STD_45_MOD_45_127) |
| CPAN::FirstTime [[1]](#ID_STD_45_MOD_45_127) | ExtUtils::MM\_Unix [[1]](#ID_STD_45_MOD_45_127) | IPC::SysV [[1]](#ID_STD_45_MOD_45_127) | Pod::ParseLink [[1]](#ID_STD_45_MOD_45_127) | Time::tm [[1]](#ID_STD_45_MOD_45_127) |
| CPAN::Nox [[1]](#ID_STD_45_MOD_45_127) | ExtUtils::MY [[1]](#ID_STD_45_MOD_45_127) | List::Util [[1]](#ID_STD_45_MOD_45_127) | Pod::ParseUtils [[1]](#ID_STD_45_MOD_45_127) | Unicode::Collate [[1]](#ID_STD_45_MOD_45_127) |
| Carp [[1]](#ID_STD_45_MOD_45_127) | ExtUtils::MakeMaker [[1]](#ID_STD_45_MOD_45_127) | Locale::Country [[1]](#ID_STD_45_MOD_45_127) | Pod::Parser [[1]](#ID_STD_45_MOD_45_127) | Unicode::Normalize [[1]](#ID_STD_45_MOD_45_127) |
| Carp::Heavy [[1]](#ID_STD_45_MOD_45_127) | ExtUtils::MakeMaker::Config [[1]](#ID_STD_45_MOD_45_127) | Locale::Currency [[1]](#ID_STD_45_MOD_45_127) | Pod::Perldoc::ToChecker [[1]](#ID_STD_45_MOD_45_127) | Unicode::UCD [[1]](#ID_STD_45_MOD_45_127) |
| Class::Struct [[1]](#ID_STD_45_MOD_45_127) | ExtUtils::Manifest [[1]](#ID_STD_45_MOD_45_127) | Locale::Language [[1]](#ID_STD_45_MOD_45_127) | Pod::Perldoc::ToMan [[1]](#ID_STD_45_MOD_45_127) | User::grent [[1]](#ID_STD_45_MOD_45_127) |
| Cwd [[1]](#ID_STD_45_MOD_45_127) | ExtUtils::Mkbootstrap [[1]](#ID_STD_45_MOD_45_127) | Locale::Maketext [[1]](#ID_STD_45_MOD_45_127) | Pod::Perldoc::ToNroff [[1]](#ID_STD_45_MOD_45_127) | User::pwent [[1]](#ID_STD_45_MOD_45_127) |
| DB [[1]](#ID_STD_45_MOD_45_127) | ExtUtils::Mksymlists [[1]](#ID_STD_45_MOD_45_127) | Locale::Script [[1]](#ID_STD_45_MOD_45_127) | Pod::Perldoc::ToPod [[1]](#ID_STD_45_MOD_45_127) | attributes [[1]](#ID_STD_45_MOD_45_127) |
| DBM\_Filter [[1]](#ID_STD_45_MOD_45_127) | ExtUtils::Packlist [[1]](#ID_STD_45_MOD_45_127) | MIME::Base64 [[1]](#ID_STD_45_MOD_45_127) | Pod::Perldoc::ToText [[1]](#ID_STD_45_MOD_45_127) | autouse [[1]](#ID_STD_45_MOD_45_127) |
| DBM\_Filter::encode [[1]](#ID_STD_45_MOD_45_127) | ExtUtils::testlib [[1]](#ID_STD_45_MOD_45_127) | MIME::QuotedPrint [[1]](#ID_STD_45_MOD_45_127) | Pod::PlainText [[1]](#ID_STD_45_MOD_45_127) | base [[1]](#ID_STD_45_MOD_45_127) |
| DBM\_Filter::int32 [[1]](#ID_STD_45_MOD_45_127) | Fatal [[1]](#ID_STD_45_MOD_45_127) | Math::BigFloat [[1]](#ID_STD_45_MOD_45_127) | Pod::Select [[1]](#ID_STD_45_MOD_45_127) | bigint [[1]](#ID_STD_45_MOD_45_127) |
| DBM\_Filter::null [[1]](#ID_STD_45_MOD_45_127) | Fcntl [[1]](#ID_STD_45_MOD_45_127) | Math::BigInt [[1]](#ID_STD_45_MOD_45_127) | Pod::Text [[1]](#ID_STD_45_MOD_45_127) | bignum [[1]](#ID_STD_45_MOD_45_127) |
| DBM\_Filter::utf8 [[1]](#ID_STD_45_MOD_45_127) | File::Basename [[1]](#ID_STD_45_MOD_45_127) | Math::BigInt::Calc [[1]](#ID_STD_45_MOD_45_127) | Pod::Text::Color [[1]](#ID_STD_45_MOD_45_127) | bigrat [[1]](#ID_STD_45_MOD_45_127) |
| Data::Dumper [[1]](#ID_STD_45_MOD_45_127) | File::CheckTree [[1]](#ID_STD_45_MOD_45_127) | Math::BigInt::CalcEmu [[1]](#ID_STD_45_MOD_45_127) | Pod::Text::Overstrike [[1]](#ID_STD_45_MOD_45_127) | blib [[1]](#ID_STD_45_MOD_45_127) |
| Devel::PPPort [[1]](#ID_STD_45_MOD_45_127) | File::Compare [[1]](#ID_STD_45_MOD_45_127) | Math::BigRat [[1]](#ID_STD_45_MOD_45_127) | Pod::Text::Termcap [[1]](#ID_STD_45_MOD_45_127) | bytes [[1]](#ID_STD_45_MOD_45_127) |
| Devel::Peek [[1]](#ID_STD_45_MOD_45_127) | File::Copy [[1]](#ID_STD_45_MOD_45_127) | Math::Complex [[1]](#ID_STD_45_MOD_45_127) | Pod::Usage [[1]](#ID_STD_45_MOD_45_127) | charnames [[1]](#ID_STD_45_MOD_45_127) |
| Devel::SelfStubber [[1]](#ID_STD_45_MOD_45_127) | File::DosGlob [[1]](#ID_STD_45_MOD_45_127) | Math::Trig [[1]](#ID_STD_45_MOD_45_127) | SDBM\_File [[1]](#ID_STD_45_MOD_45_127) | constant [[1]](#ID_STD_45_MOD_45_127) |
| Digest [[1]](#ID_STD_45_MOD_45_127) | File::Find [[1]](#ID_STD_45_MOD_45_127) | Memoize [[1]](#ID_STD_45_MOD_45_127) | Safe [[1]](#ID_STD_45_MOD_45_127) | diagnostics [[1]](#ID_STD_45_MOD_45_127) |
| Digest::MD5 [[1]](#ID_STD_45_MOD_45_127) | File::Glob [[1]](#ID_STD_45_MOD_45_127) | Memoize::AnyDBM\_File [[1]](#ID_STD_45_MOD_45_127) | Scalar::Util [[1]](#ID_STD_45_MOD_45_127) | fields [[1]](#ID_STD_45_MOD_45_127) |
| Digest::base [[1]](#ID_STD_45_MOD_45_127) | File::Path [[1]](#ID_STD_45_MOD_45_127) | Memoize::Expire [[1]](#ID_STD_45_MOD_45_127) | Search::Dict [[1]](#ID_STD_45_MOD_45_127) | filetest [[1]](#ID_STD_45_MOD_45_127) |
| Digest::file [[1]](#ID_STD_45_MOD_45_127) | File::Spec [[1]](#ID_STD_45_MOD_45_127) | Memoize::ExpireFile [[1]](#ID_STD_45_MOD_45_127) | SelectSaver [[1]](#ID_STD_45_MOD_45_127) | if [[1]](#ID_STD_45_MOD_45_127) |
| DirHandle [[1]](#ID_STD_45_MOD_45_127) | File::Spec::Functions [[1]](#ID_STD_45_MOD_45_127) | Memoize::ExpireTest [[1]](#ID_STD_45_MOD_45_127) | SelfLoader [[1]](#ID_STD_45_MOD_45_127) | integer [[1]](#ID_STD_45_MOD_45_127) |
| Dumpvalue [[1]](#ID_STD_45_MOD_45_127) | File::Spec::Unix [[1]](#ID_STD_45_MOD_45_127) | Memoize::SDBM\_File [[1]](#ID_STD_45_MOD_45_127) | Socket [[1]](#ID_STD_45_MOD_45_127) | less [[1]](#ID_STD_45_MOD_45_127) |
| Encode [[1]](#ID_STD_45_MOD_45_127) | File::Temp [[1]](#ID_STD_45_MOD_45_127) | Memoize::Storable [[1]](#ID_STD_45_MOD_45_127) | Storable [[1]](#ID_STD_45_MOD_45_127) | locale [[1]](#ID_STD_45_MOD_45_127) |
| Encode::Alias [[1]](#ID_STD_45_MOD_45_127) | File::stat [[1]](#ID_STD_45_MOD_45_127) | NEXT [[1]](#ID_STD_45_MOD_45_127) | Sys::Hostname [[1]](#ID_STD_45_MOD_45_127) | open [[1]](#ID_STD_45_MOD_45_127) |
| Encode::Byte [[1]](#ID_STD_45_MOD_45_127) | FileCache [[1]](#ID_STD_45_MOD_45_127) | Net::Cmd [[1]](#ID_STD_45_MOD_45_127) | Sys::Syslog [[1]](#ID_STD_45_MOD_45_127) | overload [[1]](#ID_STD_45_MOD_45_127) |
| Encode::CJKConstants [[1]](#ID_STD_45_MOD_45_127) | FileHandle [[1]](#ID_STD_45_MOD_45_127) | Net::Config [[1]](#ID_STD_45_MOD_45_127) | Term::ANSIColor [[1]](#ID_STD_45_MOD_45_127) | re [[1]](#ID_STD_45_MOD_45_127) |
| Encode::CN [[1]](#ID_STD_45_MOD_45_127) | Filter::Simple [[1]](#ID_STD_45_MOD_45_127) | Net::Domain [[1]](#ID_STD_45_MOD_45_127) | Term::Complete [[1]](#ID_STD_45_MOD_45_127) | sigtrap [[1]](#ID_STD_45_MOD_45_127) |
| Encode::CN::HZ [[1]](#ID_STD_45_MOD_45_127) | Filter::Util::Call [[1]](#ID_STD_45_MOD_45_127) | Net::FTP [[1]](#ID_STD_45_MOD_45_127) | Term::ReadLine [[1]](#ID_STD_45_MOD_45_127) | sort [[1]](#ID_STD_45_MOD_45_127) |
| Encode::Config [[1]](#ID_STD_45_MOD_45_127) | FindBin [[1]](#ID_STD_45_MOD_45_127) | Net::NNTP [[1]](#ID_STD_45_MOD_45_127) | Test::Builder [[1]](#ID_STD_45_MOD_45_127) | strict [[1]](#ID_STD_45_MOD_45_127) |
| Encode::EBCDIC [[1]](#ID_STD_45_MOD_45_127) | GDBM\_File [[1]](#ID_STD_45_MOD_45_127) | Net::Netrc [[1]](#ID_STD_45_MOD_45_127) | Test::Builder::Module [[1]](#ID_STD_45_MOD_45_127) | subs [[1]](#ID_STD_45_MOD_45_127) |
| Encode::Encoder [[1]](#ID_STD_45_MOD_45_127) | Getopt::Long [[1]](#ID_STD_45_MOD_45_127) | Net::POP3 [[1]](#ID_STD_45_MOD_45_127) | Test::Builder::Tester [[1]](#ID_STD_45_MOD_45_127) | utf8 [[1]](#ID_STD_45_MOD_45_127) |
| Encode::Encoding [[1]](#ID_STD_45_MOD_45_127) | Getopt::Std [[1]](#ID_STD_45_MOD_45_127) | Net::Ping [[1]](#ID_STD_45_MOD_45_127) | Test::Builder::Tester::Color [[1]](#ID_STD_45_MOD_45_127) | warnings [[1]](#ID_STD_45_MOD_45_127) |
| Encode::Guess [[1]](#ID_STD_45_MOD_45_127) | Hash::Util [[1]](#ID_STD_45_MOD_45_127) | Net::SMTP [[1]](#ID_STD_45_MOD_45_127) | Test::Harness [[1]](#ID_STD_45_MOD_45_127) | warnings::register [[1]](#ID_STD_45_MOD_45_127) |

*Referenced Specification(s)*

**[1].** [Perl Language Reference](#ID_STD_46_PERLLANG)

## **7.6 Perl Interpreter Command**

The **perl** command is described in [Perl Manual](#ID_STD_46_PERLMAN).

# **IV XML2 library**

# **8 Libraries**

## **8.1 Interfaces for libxml2**

[Table 8-1](#ID_LIB_45_LIBXML2_45_DEF) defines the library name and shared object name for the libxml2 library

**Table 8-1 libxml2 Definition**

|  |  |
| --- | --- |
| Library: | libxml2 |
| SONAME: | libxml2.so.2 |

The behavior of the interfaces in this library is specified by the following specifications:

|  |
| --- |
| [libXML2] [Reference Manual for libxml2](#ID_STD_46_LIBXML2) |

### **8.1.1 The XML C parser and toolkit for XML processing**

#### 8.1.1.1 Interfaces for The XML C parser and toolkit for XML processing

An LSB conforming implementation shall provide the generic functions for The XML C parser and toolkit for XML processing specified in [Table 8-2](#ID_TBL_45_LIBXML2_45_THE_45_X_45_INTS), with the full mandatory functionality as described in the referenced underlying specification.

**Table 8-2 libxml2 - The XML C parser and toolkit for XML processing Function Interfaces**

|  |  |  |
| --- | --- | --- |
| UTF8ToHtml(LIBXML2\_2.4.30) [[libXML2]](#ID_REFSTD_46_LIBXML2_46_1) | UTF8Toisolat1(LIBXML2\_2.4.30) [[libXML2]](#ID_REFSTD_46_LIBXML2_46_1) | \_\_docbDefaultSAXHandler [[libXML2]](#ID_REFSTD_46_LIBXML2_46_1) |
| \_\_htmlDefaultSAXHandler [[libXML2]](#ID_REFSTD_46_LIBXML2_46_1) | \_\_oldXMLWDcompatibility [[libXML2]](#ID_REFSTD_46_LIBXML2_46_1) | \_\_xmlBufferAllocScheme [[libXML2]](#ID_REFSTD_46_LIBXML2_46_1) |
| \_\_xmlDefaultBufferSize [[libXML2]](#ID_REFSTD_46_LIBXML2_46_1) | \_\_xmlDefaultSAXHandler [[libXML2]](#ID_REFSTD_46_LIBXML2_46_1) | \_\_xmlDefaultSAXLocator [[libXML2]](#ID_REFSTD_46_LIBXML2_46_1) |
| \_\_xmlDeregisterNodeDefaultValue [[libXML2]](#ID_REFSTD_46_LIBXML2_46_1) | \_\_xmlDoValidityCheckingDefaultValue [[libXML2]](#ID_REFSTD_46_LIBXML2_46_1) | \_\_xmlGenericError [[libXML2]](#ID_REFSTD_46_LIBXML2_46_1) |
| \_\_xmlGenericErrorContext [[libXML2]](#ID_REFSTD_46_LIBXML2_46_1) | \_\_xmlGetWarningsDefaultValue [[libXML2]](#ID_REFSTD_46_LIBXML2_46_1) | \_\_xmlIndentTreeOutput [[libXML2]](#ID_REFSTD_46_LIBXML2_46_1) |
| \_\_xmlKeepBlanksDefaultValue [[libXML2]](#ID_REFSTD_46_LIBXML2_46_1) | \_\_xmlLastError [[libXML2]](#ID_REFSTD_46_LIBXML2_46_1) | \_\_xmlLineNumbersDefaultValue [[libXML2]](#ID_REFSTD_46_LIBXML2_46_1) |
| \_\_xmlLoadExtDtdDefaultValue [[libXML2]](#ID_REFSTD_46_LIBXML2_46_1) | \_\_xmlOutputBufferCreateFilenameValue [[libXML2]](#ID_REFSTD_46_LIBXML2_46_1) | \_\_xmlParserDebugEntities [[libXML2]](#ID_REFSTD_46_LIBXML2_46_1) |
| \_\_xmlParserInputBufferCreateFilenameValue [[libXML2]](#ID_REFSTD_46_LIBXML2_46_1) | \_\_xmlParserVersion [[libXML2]](#ID_REFSTD_46_LIBXML2_46_1) | \_\_xmlPedanticParserDefaultValue [[libXML2]](#ID_REFSTD_46_LIBXML2_46_1) |
| \_\_xmlRegisterNodeDefaultValue [[libXML2]](#ID_REFSTD_46_LIBXML2_46_1) | \_\_xmlSaveNoEmptyTags [[libXML2]](#ID_REFSTD_46_LIBXML2_46_1) | \_\_xmlStructuredError [[libXML2]](#ID_REFSTD_46_LIBXML2_46_1) |
| \_\_xmlSubstituteEntitiesDefaultValue [[libXML2]](#ID_REFSTD_46_LIBXML2_46_1) | \_\_xmlTreeIndentString [[libXML2]](#ID_REFSTD_46_LIBXML2_46_1) | docbDefaultSAXHandlerInit(LIBXML2\_2.4.30) [[libXML2]](#ID_REFSTD_46_LIBXML2_46_1) |
| htmlAttrAllowed(LIBXML2\_2.5.2) [[libXML2]](#ID_REFSTD_46_LIBXML2_46_1) | htmlAutoCloseTag(LIBXML2\_2.4.30) [[libXML2]](#ID_REFSTD_46_LIBXML2_46_1) | htmlCreateFileParserCtxt(LIBXML2\_2.4.30) [[libXML2]](#ID_REFSTD_46_LIBXML2_46_1) |
| htmlCreateMemoryParserCtxt(LIBXML2\_2.5.7) [[libXML2]](#ID_REFSTD_46_LIBXML2_46_1) | htmlCreatePushParserCtxt(LIBXML2\_2.4.30) [[libXML2]](#ID_REFSTD_46_LIBXML2_46_1) | htmlCtxtReadDoc(LIBXML2\_2.6.0) [[libXML2]](#ID_REFSTD_46_LIBXML2_46_1) |
| htmlCtxtReadFd(LIBXML2\_2.6.0) [[libXML2]](#ID_REFSTD_46_LIBXML2_46_1) | htmlCtxtReadFile(LIBXML2\_2.6.0) [[libXML2]](#ID_REFSTD_46_LIBXML2_46_1) | htmlCtxtReadIO(LIBXML2\_2.6.0) [[libXML2]](#ID_REFSTD_46_LIBXML2_46_1) |
| htmlCtxtReadMemory(LIBXML2\_2.6.0) [[libXML2]](#ID_REFSTD_46_LIBXML2_46_1) | htmlCtxtReset(LIBXML2\_2.6.0) [[libXML2]](#ID_REFSTD_46_LIBXML2_46_1) | htmlCtxtUseOptions(LIBXML2\_2.6.0) [[libXML2]](#ID_REFSTD_46_LIBXML2_46_1) |
| htmlDefaultSAXHandlerInit(LIBXML2\_2.4.30) [[libXML2]](#ID_REFSTD_46_LIBXML2_46_1) | htmlDocContentDumpFormatOutput(LIBXML2\_2.4.30) [[libXML2]](#ID_REFSTD_46_LIBXML2_46_1) | htmlDocContentDumpOutput(LIBXML2\_2.4.30) [[libXML2]](#ID_REFSTD_46_LIBXML2_46_1) |
| htmlDocDump(LIBXML2\_2.4.30) [[libXML2]](#ID_REFSTD_46_LIBXML2_46_1) | htmlDocDumpMemory(LIBXML2\_2.4.30) [[libXML2]](#ID_REFSTD_46_LIBXML2_46_1) | htmlElementAllowedHere(LIBXML2\_2.5.2) [[libXML2]](#ID_REFSTD_46_LIBXML2_46_1) |
| htmlElementStatusHere(LIBXML2\_2.5.2) [[libXML2]](#ID_REFSTD_46_LIBXML2_46_1) | htmlEncodeEntities(LIBXML2\_2.4.30) [[libXML2]](#ID_REFSTD_46_LIBXML2_46_1) | htmlEntityLookup(LIBXML2\_2.4.30) [[libXML2]](#ID_REFSTD_46_LIBXML2_46_1) |
| htmlEntityValueLookup(LIBXML2\_2.4.30) [[libXML2]](#ID_REFSTD_46_LIBXML2_46_1) | htmlFreeParserCtxt(LIBXML2\_2.4.30) [[libXML2]](#ID_REFSTD_46_LIBXML2_46_1) | htmlGetMetaEncoding(LIBXML2\_2.4.30) [[libXML2]](#ID_REFSTD_46_LIBXML2_46_1) |
| htmlHandleOmittedElem(LIBXML2\_2.4.30) [[libXML2]](#ID_REFSTD_46_LIBXML2_46_1) | htmlInitAutoClose(LIBXML2\_2.4.30) [[libXML2]](#ID_REFSTD_46_LIBXML2_46_1) | htmlIsAutoClosed(LIBXML2\_2.4.30) [[libXML2]](#ID_REFSTD_46_LIBXML2_46_1) |
| htmlIsBooleanAttr(LIBXML2\_2.4.30) [[libXML2]](#ID_REFSTD_46_LIBXML2_46_1) | htmlIsScriptAttribute(LIBXML2\_2.4.30) [[libXML2]](#ID_REFSTD_46_LIBXML2_46_1) | htmlNewDoc(LIBXML2\_2.4.30) [[libXML2]](#ID_REFSTD_46_LIBXML2_46_1) |
| htmlNewDocNoDtD(LIBXML2\_2.4.30) [[libXML2]](#ID_REFSTD_46_LIBXML2_46_1) | htmlNodeDump(LIBXML2\_2.4.30) [[libXML2]](#ID_REFSTD_46_LIBXML2_46_1) | htmlNodeDumpFile(LIBXML2\_2.4.30) [[libXML2]](#ID_REFSTD_46_LIBXML2_46_1) |
| htmlNodeDumpFileFormat(LIBXML2\_2.4.30) [[libXML2]](#ID_REFSTD_46_LIBXML2_46_1) | htmlNodeDumpFormatOutput(LIBXML2\_2.4.30) [[libXML2]](#ID_REFSTD_46_LIBXML2_46_1) | htmlNodeDumpOutput(LIBXML2\_2.4.30) [[libXML2]](#ID_REFSTD_46_LIBXML2_46_1) |
| htmlParseCharRef(LIBXML2\_2.4.30) [[libXML2]](#ID_REFSTD_46_LIBXML2_46_1) | htmlParseChunk(LIBXML2\_2.4.30) [[libXML2]](#ID_REFSTD_46_LIBXML2_46_1) | htmlParseDoc(LIBXML2\_2.4.30) [[libXML2]](#ID_REFSTD_46_LIBXML2_46_1) |
| htmlParseDocument(LIBXML2\_2.4.30) [[libXML2]](#ID_REFSTD_46_LIBXML2_46_1) | htmlParseElement(LIBXML2\_2.4.30) [[libXML2]](#ID_REFSTD_46_LIBXML2_46_1) | htmlParseEntityRef(LIBXML2\_2.4.30) [[libXML2]](#ID_REFSTD_46_LIBXML2_46_1) |
| htmlParseFile(LIBXML2\_2.4.30) [[libXML2]](#ID_REFSTD_46_LIBXML2_46_1) | htmlReadDoc(LIBXML2\_2.6.0) [[libXML2]](#ID_REFSTD_46_LIBXML2_46_1) | htmlReadFd(LIBXML2\_2.6.0) [[libXML2]](#ID_REFSTD_46_LIBXML2_46_1) |
| htmlReadFile(LIBXML2\_2.6.0) [[libXML2]](#ID_REFSTD_46_LIBXML2_46_1) | htmlReadIO(LIBXML2\_2.6.0) [[libXML2]](#ID_REFSTD_46_LIBXML2_46_1) | htmlReadMemory(LIBXML2\_2.6.0) [[libXML2]](#ID_REFSTD_46_LIBXML2_46_1) |
| htmlSAXParseDoc(LIBXML2\_2.4.30) [[libXML2]](#ID_REFSTD_46_LIBXML2_46_1) | htmlSAXParseFile(LIBXML2\_2.4.30) [[libXML2]](#ID_REFSTD_46_LIBXML2_46_1) | htmlSaveFile(LIBXML2\_2.4.30) [[libXML2]](#ID_REFSTD_46_LIBXML2_46_1) |
| htmlSaveFileEnc(LIBXML2\_2.4.30) [[libXML2]](#ID_REFSTD_46_LIBXML2_46_1) | htmlSaveFileFormat(LIBXML2\_2.4.30) [[libXML2]](#ID_REFSTD_46_LIBXML2_46_1) | htmlSetMetaEncoding(LIBXML2\_2.4.30) [[libXML2]](#ID_REFSTD_46_LIBXML2_46_1) |
| htmlTagLookup(LIBXML2\_2.4.30) [[libXML2]](#ID_REFSTD_46_LIBXML2_46_1) | initGenericErrorDefaultFunc(LIBXML2\_2.4.30) [[libXML2]](#ID_REFSTD_46_LIBXML2_46_1) | inputPop(LIBXML2\_2.4.30) [[libXML2]](#ID_REFSTD_46_LIBXML2_46_1) |
| inputPush(LIBXML2\_2.4.30) [[libXML2]](#ID_REFSTD_46_LIBXML2_46_1) | isolat1ToUTF8(LIBXML2\_2.4.30) [[libXML2]](#ID_REFSTD_46_LIBXML2_46_1) | namePop(LIBXML2\_2.4.30) [[libXML2]](#ID_REFSTD_46_LIBXML2_46_1) |
| namePush(LIBXML2\_2.4.30) [[libXML2]](#ID_REFSTD_46_LIBXML2_46_1) | nodePop(LIBXML2\_2.4.30) [[libXML2]](#ID_REFSTD_46_LIBXML2_46_1) | nodePush(LIBXML2\_2.4.30) [[libXML2]](#ID_REFSTD_46_LIBXML2_46_1) |
| valuePop(LIBXML2\_2.4.30) [[libXML2]](#ID_REFSTD_46_LIBXML2_46_1) | valuePush(LIBXML2\_2.4.30) [[libXML2]](#ID_REFSTD_46_LIBXML2_46_1) | xmlACatalogAdd(LIBXML2\_2.4.30) [[libXML2]](#ID_REFSTD_46_LIBXML2_46_1) |
| xmlACatalogDump(LIBXML2\_2.4.30) [[libXML2]](#ID_REFSTD_46_LIBXML2_46_1) | xmlACatalogRemove(LIBXML2\_2.4.30) [[libXML2]](#ID_REFSTD_46_LIBXML2_46_1) | xmlACatalogResolve(LIBXML2\_2.4.30) [[libXML2]](#ID_REFSTD_46_LIBXML2_46_1) |
| xmlACatalogResolvePublic(LIBXML2\_2.4.30) [[libXML2]](#ID_REFSTD_46_LIBXML2_46_1) | xmlACatalogResolveSystem(LIBXML2\_2.4.30) [[libXML2]](#ID_REFSTD_46_LIBXML2_46_1) | xmlACatalogResolveURI(LIBXML2\_2.4.30) [[libXML2]](#ID_REFSTD_46_LIBXML2_46_1) |
| xmlAddAttributeDecl(LIBXML2\_2.4.30) [[libXML2]](#ID_REFSTD_46_LIBXML2_46_1) | xmlAddChild(LIBXML2\_2.4.30) [[libXML2]](#ID_REFSTD_46_LIBXML2_46_1) | xmlAddChildList(LIBXML2\_2.4.30) [[libXML2]](#ID_REFSTD_46_LIBXML2_46_1) |
| xmlAddDocEntity(LIBXML2\_2.4.30) [[libXML2]](#ID_REFSTD_46_LIBXML2_46_1) | xmlAddDtdEntity(LIBXML2\_2.4.30) [[libXML2]](#ID_REFSTD_46_LIBXML2_46_1) | xmlAddElementDecl(LIBXML2\_2.4.30) [[libXML2]](#ID_REFSTD_46_LIBXML2_46_1) |
| xmlAddEncodingAlias(LIBXML2\_2.4.30) [[libXML2]](#ID_REFSTD_46_LIBXML2_46_1) | xmlAddID(LIBXML2\_2.4.30) [[libXML2]](#ID_REFSTD_46_LIBXML2_46_1) | xmlAddNextSibling(LIBXML2\_2.4.30) [[libXML2]](#ID_REFSTD_46_LIBXML2_46_1) |
| xmlAddNotationDecl(LIBXML2\_2.4.30) [[libXML2]](#ID_REFSTD_46_LIBXML2_46_1) | xmlAddPrevSibling(LIBXML2\_2.4.30) [[libXML2]](#ID_REFSTD_46_LIBXML2_46_1) | xmlAddRef(LIBXML2\_2.4.30) [[libXML2]](#ID_REFSTD_46_LIBXML2_46_1) |
| xmlAddSibling(LIBXML2\_2.4.30) [[libXML2]](#ID_REFSTD_46_LIBXML2_46_1) | xmlAllocOutputBuffer(LIBXML2\_2.4.30) [[libXML2]](#ID_REFSTD_46_LIBXML2_46_1) | xmlAllocParserInputBuffer(LIBXML2\_2.4.30) [[libXML2]](#ID_REFSTD_46_LIBXML2_46_1) |
| xmlAttrSerializeTxtContent(LIBXML2\_2.6.6) [[libXML2]](#ID_REFSTD_46_LIBXML2_46_1) | xmlAutomataCompile(LIBXML2\_2.4.30) [[libXML2]](#ID_REFSTD_46_LIBXML2_46_1) | xmlAutomataGetInitState(LIBXML2\_2.4.30) [[libXML2]](#ID_REFSTD_46_LIBXML2_46_1) |
| xmlAutomataIsDeterminist(LIBXML2\_2.4.30) [[libXML2]](#ID_REFSTD_46_LIBXML2_46_1) | xmlAutomataNewAllTrans(LIBXML2\_2.4.30) [[libXML2]](#ID_REFSTD_46_LIBXML2_46_1) | xmlAutomataNewCountTrans(LIBXML2\_2.4.30) [[libXML2]](#ID_REFSTD_46_LIBXML2_46_1) |
| xmlAutomataNewCountTrans2(LIBXML2\_2.6.14) [[libXML2]](#ID_REFSTD_46_LIBXML2_46_1) | xmlAutomataNewCountedTrans(LIBXML2\_2.4.30) [[libXML2]](#ID_REFSTD_46_LIBXML2_46_1) | xmlAutomataNewCounter(LIBXML2\_2.4.30) [[libXML2]](#ID_REFSTD_46_LIBXML2_46_1) |
| xmlAutomataNewCounterTrans(LIBXML2\_2.4.30) [[libXML2]](#ID_REFSTD_46_LIBXML2_46_1) | xmlAutomataNewEpsilon(LIBXML2\_2.4.30) [[libXML2]](#ID_REFSTD_46_LIBXML2_46_1) | xmlAutomataNewNegTrans(LIBXML2\_2.6.21) [[libXML2]](#ID_REFSTD_46_LIBXML2_46_1) |
| xmlAutomataNewOnceTrans(LIBXML2\_2.4.30) [[libXML2]](#ID_REFSTD_46_LIBXML2_46_1) | xmlAutomataNewOnceTrans2(LIBXML2\_2.6.14) [[libXML2]](#ID_REFSTD_46_LIBXML2_46_1) | xmlAutomataNewState(LIBXML2\_2.4.30) [[libXML2]](#ID_REFSTD_46_LIBXML2_46_1) |
| xmlAutomataNewTransition(LIBXML2\_2.4.30) [[libXML2]](#ID_REFSTD_46_LIBXML2_46_1) | xmlAutomataNewTransition2(LIBXML2\_2.5.7) [[libXML2]](#ID_REFSTD_46_LIBXML2_46_1) | xmlAutomataSetFinalState(LIBXML2\_2.4.30) [[libXML2]](#ID_REFSTD_46_LIBXML2_46_1) |
| xmlBoolToText(LIBXML2\_2.4.30) [[libXML2]](#ID_REFSTD_46_LIBXML2_46_1) | xmlBufferAdd(LIBXML2\_2.4.30) [[libXML2]](#ID_REFSTD_46_LIBXML2_46_1) | xmlBufferAddHead(LIBXML2\_2.4.30) [[libXML2]](#ID_REFSTD_46_LIBXML2_46_1) |
| xmlBufferCCat(LIBXML2\_2.4.30) [[libXML2]](#ID_REFSTD_46_LIBXML2_46_1) | xmlBufferCat(LIBXML2\_2.4.30) [[libXML2]](#ID_REFSTD_46_LIBXML2_46_1) | xmlBufferContent(LIBXML2\_2.4.30) [[libXML2]](#ID_REFSTD_46_LIBXML2_46_1) |
| xmlBufferCreate(LIBXML2\_2.4.30) [[libXML2]](#ID_REFSTD_46_LIBXML2_46_1) | xmlBufferCreateSize(LIBXML2\_2.4.30) [[libXML2]](#ID_REFSTD_46_LIBXML2_46_1) | xmlBufferCreateStatic(LIBXML2\_2.6.0) [[libXML2]](#ID_REFSTD_46_LIBXML2_46_1) |
| xmlBufferDump(LIBXML2\_2.4.30) [[libXML2]](#ID_REFSTD_46_LIBXML2_46_1) | xmlBufferEmpty(LIBXML2\_2.4.30) [[libXML2]](#ID_REFSTD_46_LIBXML2_46_1) | xmlBufferFree(LIBXML2\_2.4.30) [[libXML2]](#ID_REFSTD_46_LIBXML2_46_1) |
| xmlBufferGrow(LIBXML2\_2.4.30) [[libXML2]](#ID_REFSTD_46_LIBXML2_46_1) | xmlBufferLength(LIBXML2\_2.4.30) [[libXML2]](#ID_REFSTD_46_LIBXML2_46_1) | xmlBufferResize(LIBXML2\_2.4.30) [[libXML2]](#ID_REFSTD_46_LIBXML2_46_1) |
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| xmlXPathFreeCompExpr(LIBXML2\_2.4.30) [[libXML2]](#ID_REFSTD_46_LIBXML2_46_1) | xmlXPathFreeContext(LIBXML2\_2.4.30) [[libXML2]](#ID_REFSTD_46_LIBXML2_46_1) | xmlXPathFreeNodeSet(LIBXML2\_2.4.30) [[libXML2]](#ID_REFSTD_46_LIBXML2_46_1) |
| xmlXPathFreeNodeSetList(LIBXML2\_2.4.30) [[libXML2]](#ID_REFSTD_46_LIBXML2_46_1) | xmlXPathFreeObject(LIBXML2\_2.4.30) [[libXML2]](#ID_REFSTD_46_LIBXML2_46_1) | xmlXPathFreeParserContext(LIBXML2\_2.4.30) [[libXML2]](#ID_REFSTD_46_LIBXML2_46_1) |
| xmlXPathFunctionLookup(LIBXML2\_2.4.30) [[libXML2]](#ID_REFSTD_46_LIBXML2_46_1) | xmlXPathFunctionLookupNS(LIBXML2\_2.4.30) [[libXML2]](#ID_REFSTD_46_LIBXML2_46_1) | xmlXPathHasSameNodes(LIBXML2\_2.4.30) [[libXML2]](#ID_REFSTD_46_LIBXML2_46_1) |
| xmlXPathIdFunction(LIBXML2\_2.4.30) [[libXML2]](#ID_REFSTD_46_LIBXML2_46_1) | xmlXPathInit(LIBXML2\_2.4.30) [[libXML2]](#ID_REFSTD_46_LIBXML2_46_1) | xmlXPathIntersection(LIBXML2\_2.4.30) [[libXML2]](#ID_REFSTD_46_LIBXML2_46_1) |
| xmlXPathIsInf(LIBXML2\_2.4.30) [[libXML2]](#ID_REFSTD_46_LIBXML2_46_1) | xmlXPathIsNaN(LIBXML2\_2.4.30) [[libXML2]](#ID_REFSTD_46_LIBXML2_46_1) | xmlXPathIsNodeType(LIBXML2\_2.4.30) [[libXML2]](#ID_REFSTD_46_LIBXML2_46_1) |
| xmlXPathLangFunction(LIBXML2\_2.4.30) [[libXML2]](#ID_REFSTD_46_LIBXML2_46_1) | xmlXPathLastFunction(LIBXML2\_2.4.30) [[libXML2]](#ID_REFSTD_46_LIBXML2_46_1) | xmlXPathLeading(LIBXML2\_2.4.30) [[libXML2]](#ID_REFSTD_46_LIBXML2_46_1) |
| xmlXPathLeadingSorted(LIBXML2\_2.4.30) [[libXML2]](#ID_REFSTD_46_LIBXML2_46_1) | xmlXPathLocalNameFunction(LIBXML2\_2.4.30) [[libXML2]](#ID_REFSTD_46_LIBXML2_46_1) | xmlXPathModValues(LIBXML2\_2.4.30) [[libXML2]](#ID_REFSTD_46_LIBXML2_46_1) |
| xmlXPathMultValues(LIBXML2\_2.4.30) [[libXML2]](#ID_REFSTD_46_LIBXML2_46_1) | xmlXPathNamespaceURIFunction(LIBXML2\_2.4.30) [[libXML2]](#ID_REFSTD_46_LIBXML2_46_1) | xmlXPathNewBoolean(LIBXML2\_2.4.30) [[libXML2]](#ID_REFSTD_46_LIBXML2_46_1) |
| xmlXPathNewCString(LIBXML2\_2.4.30) [[libXML2]](#ID_REFSTD_46_LIBXML2_46_1) | xmlXPathNewContext(LIBXML2\_2.4.30) [[libXML2]](#ID_REFSTD_46_LIBXML2_46_1) | xmlXPathNewFloat(LIBXML2\_2.4.30) [[libXML2]](#ID_REFSTD_46_LIBXML2_46_1) |
| xmlXPathNewNodeSet(LIBXML2\_2.4.30) [[libXML2]](#ID_REFSTD_46_LIBXML2_46_1) | xmlXPathNewNodeSetList(LIBXML2\_2.4.30) [[libXML2]](#ID_REFSTD_46_LIBXML2_46_1) | xmlXPathNewParserContext(LIBXML2\_2.4.30) [[libXML2]](#ID_REFSTD_46_LIBXML2_46_1) |
| xmlXPathNewString(LIBXML2\_2.4.30) [[libXML2]](#ID_REFSTD_46_LIBXML2_46_1) | xmlXPathNewValueTree(LIBXML2\_2.4.30) [[libXML2]](#ID_REFSTD_46_LIBXML2_46_1) | xmlXPathNextAncestor(LIBXML2\_2.4.30) [[libXML2]](#ID_REFSTD_46_LIBXML2_46_1) |
| xmlXPathNextAncestorOrSelf(LIBXML2\_2.4.30) [[libXML2]](#ID_REFSTD_46_LIBXML2_46_1) | xmlXPathNextAttribute(LIBXML2\_2.4.30) [[libXML2]](#ID_REFSTD_46_LIBXML2_46_1) | xmlXPathNextChild(LIBXML2\_2.4.30) [[libXML2]](#ID_REFSTD_46_LIBXML2_46_1) |
| xmlXPathNextDescendant(LIBXML2\_2.4.30) [[libXML2]](#ID_REFSTD_46_LIBXML2_46_1) | xmlXPathNextDescendantOrSelf(LIBXML2\_2.4.30) [[libXML2]](#ID_REFSTD_46_LIBXML2_46_1) | xmlXPathNextFollowing(LIBXML2\_2.4.30) [[libXML2]](#ID_REFSTD_46_LIBXML2_46_1) |
| xmlXPathNextFollowingSibling(LIBXML2\_2.4.30) [[libXML2]](#ID_REFSTD_46_LIBXML2_46_1) | xmlXPathNextNamespace(LIBXML2\_2.4.30) [[libXML2]](#ID_REFSTD_46_LIBXML2_46_1) | xmlXPathNextParent(LIBXML2\_2.4.30) [[libXML2]](#ID_REFSTD_46_LIBXML2_46_1) |
| xmlXPathNextPreceding(LIBXML2\_2.4.30) [[libXML2]](#ID_REFSTD_46_LIBXML2_46_1) | xmlXPathNextPrecedingSibling(LIBXML2\_2.4.30) [[libXML2]](#ID_REFSTD_46_LIBXML2_46_1) | xmlXPathNextSelf(LIBXML2\_2.4.30) [[libXML2]](#ID_REFSTD_46_LIBXML2_46_1) |
| xmlXPathNodeLeading(LIBXML2\_2.4.30) [[libXML2]](#ID_REFSTD_46_LIBXML2_46_1) | xmlXPathNodeLeadingSorted(LIBXML2\_2.4.30) [[libXML2]](#ID_REFSTD_46_LIBXML2_46_1) | xmlXPathNodeSetAdd(LIBXML2\_2.4.30) [[libXML2]](#ID_REFSTD_46_LIBXML2_46_1) |
| xmlXPathNodeSetAddNs(LIBXML2\_2.4.30) [[libXML2]](#ID_REFSTD_46_LIBXML2_46_1) | xmlXPathNodeSetAddUnique(LIBXML2\_2.4.30) [[libXML2]](#ID_REFSTD_46_LIBXML2_46_1) | xmlXPathNodeSetContains(LIBXML2\_2.4.30) [[libXML2]](#ID_REFSTD_46_LIBXML2_46_1) |
| xmlXPathNodeSetCreate(LIBXML2\_2.4.30) [[libXML2]](#ID_REFSTD_46_LIBXML2_46_1) | xmlXPathNodeSetDel(LIBXML2\_2.4.30) [[libXML2]](#ID_REFSTD_46_LIBXML2_46_1) | xmlXPathNodeSetFreeNs(LIBXML2\_2.4.30) [[libXML2]](#ID_REFSTD_46_LIBXML2_46_1) |
| xmlXPathNodeSetMerge(LIBXML2\_2.4.30) [[libXML2]](#ID_REFSTD_46_LIBXML2_46_1) | xmlXPathNodeSetRemove(LIBXML2\_2.4.30) [[libXML2]](#ID_REFSTD_46_LIBXML2_46_1) | xmlXPathNodeSetSort(LIBXML2\_2.4.30) [[libXML2]](#ID_REFSTD_46_LIBXML2_46_1) |
| xmlXPathNodeTrailing(LIBXML2\_2.4.30) [[libXML2]](#ID_REFSTD_46_LIBXML2_46_1) | xmlXPathNodeTrailingSorted(LIBXML2\_2.4.30) [[libXML2]](#ID_REFSTD_46_LIBXML2_46_1) | xmlXPathNormalizeFunction(LIBXML2\_2.4.30) [[libXML2]](#ID_REFSTD_46_LIBXML2_46_1) |
| xmlXPathNotEqualValues(LIBXML2\_2.4.30) [[libXML2]](#ID_REFSTD_46_LIBXML2_46_1) | xmlXPathNotFunction(LIBXML2\_2.4.30) [[libXML2]](#ID_REFSTD_46_LIBXML2_46_1) | xmlXPathNsLookup(LIBXML2\_2.4.30) [[libXML2]](#ID_REFSTD_46_LIBXML2_46_1) |
| xmlXPathNumberFunction(LIBXML2\_2.4.30) [[libXML2]](#ID_REFSTD_46_LIBXML2_46_1) | xmlXPathObjectCopy(LIBXML2\_2.4.30) [[libXML2]](#ID_REFSTD_46_LIBXML2_46_1) | xmlXPathOrderDocElems(LIBXML2\_2.5.6) [[libXML2]](#ID_REFSTD_46_LIBXML2_46_1) |
| xmlXPathParseNCName(LIBXML2\_2.4.30) [[libXML2]](#ID_REFSTD_46_LIBXML2_46_1) | xmlXPathParseName(LIBXML2\_2.4.30) [[libXML2]](#ID_REFSTD_46_LIBXML2_46_1) | xmlXPathPopBoolean(LIBXML2\_2.4.30) [[libXML2]](#ID_REFSTD_46_LIBXML2_46_1) |
| xmlXPathPopExternal(LIBXML2\_2.4.30) [[libXML2]](#ID_REFSTD_46_LIBXML2_46_1) | xmlXPathPopNodeSet(LIBXML2\_2.4.30) [[libXML2]](#ID_REFSTD_46_LIBXML2_46_1) | xmlXPathPopNumber(LIBXML2\_2.4.30) [[libXML2]](#ID_REFSTD_46_LIBXML2_46_1) |
| xmlXPathPopString(LIBXML2\_2.4.30) [[libXML2]](#ID_REFSTD_46_LIBXML2_46_1) | xmlXPathPositionFunction(LIBXML2\_2.4.30) [[libXML2]](#ID_REFSTD_46_LIBXML2_46_1) | xmlXPathRegisterAllFunctions(LIBXML2\_2.4.30) [[libXML2]](#ID_REFSTD_46_LIBXML2_46_1) |
| xmlXPathRegisterFunc(LIBXML2\_2.4.30) [[libXML2]](#ID_REFSTD_46_LIBXML2_46_1) | xmlXPathRegisterFuncLookup(LIBXML2\_2.4.30) [[libXML2]](#ID_REFSTD_46_LIBXML2_46_1) | xmlXPathRegisterFuncNS(LIBXML2\_2.4.30) [[libXML2]](#ID_REFSTD_46_LIBXML2_46_1) |
| xmlXPathRegisterNs(LIBXML2\_2.4.30) [[libXML2]](#ID_REFSTD_46_LIBXML2_46_1) | xmlXPathRegisterVariable(LIBXML2\_2.4.30) [[libXML2]](#ID_REFSTD_46_LIBXML2_46_1) | xmlXPathRegisterVariableLookup(LIBXML2\_2.4.30) [[libXML2]](#ID_REFSTD_46_LIBXML2_46_1) |
| xmlXPathRegisterVariableNS(LIBXML2\_2.4.30) [[libXML2]](#ID_REFSTD_46_LIBXML2_46_1) | xmlXPathRegisteredFuncsCleanup(LIBXML2\_2.4.30) [[libXML2]](#ID_REFSTD_46_LIBXML2_46_1) | xmlXPathRegisteredNsCleanup(LIBXML2\_2.4.30) [[libXML2]](#ID_REFSTD_46_LIBXML2_46_1) |
| xmlXPathRegisteredVariablesCleanup(LIBXML2\_2.4.30) [[libXML2]](#ID_REFSTD_46_LIBXML2_46_1) | xmlXPathRoot(LIBXML2\_2.4.30) [[libXML2]](#ID_REFSTD_46_LIBXML2_46_1) | xmlXPathRoundFunction(LIBXML2\_2.4.30) [[libXML2]](#ID_REFSTD_46_LIBXML2_46_1) |
| xmlXPathStartsWithFunction(LIBXML2\_2.4.30) [[libXML2]](#ID_REFSTD_46_LIBXML2_46_1) | xmlXPathStringEvalNumber(LIBXML2\_2.4.30) [[libXML2]](#ID_REFSTD_46_LIBXML2_46_1) | xmlXPathStringFunction(LIBXML2\_2.4.30) [[libXML2]](#ID_REFSTD_46_LIBXML2_46_1) |
| xmlXPathStringLengthFunction(LIBXML2\_2.4.30) [[libXML2]](#ID_REFSTD_46_LIBXML2_46_1) | xmlXPathSubValues(LIBXML2\_2.4.30) [[libXML2]](#ID_REFSTD_46_LIBXML2_46_1) | xmlXPathSubstringAfterFunction(LIBXML2\_2.4.30) [[libXML2]](#ID_REFSTD_46_LIBXML2_46_1) |
| xmlXPathSubstringBeforeFunction(LIBXML2\_2.4.30) [[libXML2]](#ID_REFSTD_46_LIBXML2_46_1) | xmlXPathSubstringFunction(LIBXML2\_2.4.30) [[libXML2]](#ID_REFSTD_46_LIBXML2_46_1) | xmlXPathSumFunction(LIBXML2\_2.4.30) [[libXML2]](#ID_REFSTD_46_LIBXML2_46_1) |
| xmlXPathTrailing(LIBXML2\_2.4.30) [[libXML2]](#ID_REFSTD_46_LIBXML2_46_1) | xmlXPathTrailingSorted(LIBXML2\_2.4.30) [[libXML2]](#ID_REFSTD_46_LIBXML2_46_1) | xmlXPathTranslateFunction(LIBXML2\_2.4.30) [[libXML2]](#ID_REFSTD_46_LIBXML2_46_1) |
| xmlXPathTrueFunction(LIBXML2\_2.4.30) [[libXML2]](#ID_REFSTD_46_LIBXML2_46_1) | xmlXPathValueFlipSign(LIBXML2\_2.4.30) [[libXML2]](#ID_REFSTD_46_LIBXML2_46_1) | xmlXPathVariableLookup(LIBXML2\_2.4.30) [[libXML2]](#ID_REFSTD_46_LIBXML2_46_1) |
| xmlXPathVariableLookupNS(LIBXML2\_2.4.30) [[libXML2]](#ID_REFSTD_46_LIBXML2_46_1) | xmlXPathWrapCString(LIBXML2\_2.4.30) [[libXML2]](#ID_REFSTD_46_LIBXML2_46_1) | xmlXPathWrapExternal(LIBXML2\_2.4.30) [[libXML2]](#ID_REFSTD_46_LIBXML2_46_1) |
| xmlXPathWrapNodeSet(LIBXML2\_2.4.30) [[libXML2]](#ID_REFSTD_46_LIBXML2_46_1) | xmlXPathWrapString(LIBXML2\_2.4.30) [[libXML2]](#ID_REFSTD_46_LIBXML2_46_1) | xmlXPatherror(LIBXML2\_2.4.30) [[libXML2]](#ID_REFSTD_46_LIBXML2_46_1) |
| xmlXPtrBuildNodeList(LIBXML2\_2.4.30) [[libXML2]](#ID_REFSTD_46_LIBXML2_46_1) | xmlXPtrEval(LIBXML2\_2.4.30) [[libXML2]](#ID_REFSTD_46_LIBXML2_46_1) | xmlXPtrEvalRangePredicate(LIBXML2\_2.4.30) [[libXML2]](#ID_REFSTD_46_LIBXML2_46_1) |
| xmlXPtrFreeLocationSet(LIBXML2\_2.4.30) [[libXML2]](#ID_REFSTD_46_LIBXML2_46_1) | xmlXPtrLocationSetAdd(LIBXML2\_2.4.30) [[libXML2]](#ID_REFSTD_46_LIBXML2_46_1) | xmlXPtrLocationSetCreate(LIBXML2\_2.4.30) [[libXML2]](#ID_REFSTD_46_LIBXML2_46_1) |
| xmlXPtrLocationSetDel(LIBXML2\_2.4.30) [[libXML2]](#ID_REFSTD_46_LIBXML2_46_1) | xmlXPtrLocationSetMerge(LIBXML2\_2.4.30) [[libXML2]](#ID_REFSTD_46_LIBXML2_46_1) | xmlXPtrLocationSetRemove(LIBXML2\_2.4.30) [[libXML2]](#ID_REFSTD_46_LIBXML2_46_1) |
| xmlXPtrNewCollapsedRange(LIBXML2\_2.4.30) [[libXML2]](#ID_REFSTD_46_LIBXML2_46_1) | xmlXPtrNewContext(LIBXML2\_2.4.30) [[libXML2]](#ID_REFSTD_46_LIBXML2_46_1) | xmlXPtrNewLocationSetNodeSet(LIBXML2\_2.4.30) [[libXML2]](#ID_REFSTD_46_LIBXML2_46_1) |
| xmlXPtrNewLocationSetNodes(LIBXML2\_2.4.30) [[libXML2]](#ID_REFSTD_46_LIBXML2_46_1) | xmlXPtrNewRange(LIBXML2\_2.4.30) [[libXML2]](#ID_REFSTD_46_LIBXML2_46_1) | xmlXPtrNewRangeNodeObject(LIBXML2\_2.4.30) [[libXML2]](#ID_REFSTD_46_LIBXML2_46_1) |
| xmlXPtrNewRangeNodePoint(LIBXML2\_2.4.30) [[libXML2]](#ID_REFSTD_46_LIBXML2_46_1) | xmlXPtrNewRangeNodes(LIBXML2\_2.4.30) [[libXML2]](#ID_REFSTD_46_LIBXML2_46_1) | xmlXPtrNewRangePointNode(LIBXML2\_2.4.30) [[libXML2]](#ID_REFSTD_46_LIBXML2_46_1) |
| xmlXPtrNewRangePoints(LIBXML2\_2.4.30) [[libXML2]](#ID_REFSTD_46_LIBXML2_46_1) | xmlXPtrRangeToFunction(LIBXML2\_2.4.30) [[libXML2]](#ID_REFSTD_46_LIBXML2_46_1) | xmlXPtrWrapLocationSet(LIBXML2\_2.4.30) [[libXML2]](#ID_REFSTD_46_LIBXML2_46_1) |

An LSB conforming implementation shall provide the generic deprecated functions for The XML C parser and toolkit for XML processing specified in [Table 8-3](#ID_TBL_45_LIBXML2_45_THE_45_X_45_DEPINTS), with the full mandatory functionality as described in the referenced underlying specification.

**Note:** These interfaces are deprecated, and applications should avoid using them. These interfaces may be withdrawn in future releases of this specification.

**Table 8-3 libxml2 - The XML C parser and toolkit for XML processing Deprecated Function Interfaces**

|  |  |  |
| --- | --- | --- |
| xmlParserInputRead [[libXML2]](#ID_REFSTD_46_LIBXML2_46_1) | xmlParserInputRead(LIBXML2\_2.4.30) [[libXML2]](#ID_REFSTD_46_LIBXML2_46_1) |  |

An LSB conforming implementation shall provide the generic data interfaces for The XML C parser and toolkit for XML processing specified in [Table 8-4](#ID_TBL_45_LIBXML2_45_THE_45_X_45_DATA), with the full mandatory functionality as described in the referenced underlying specification.

**Table 8-4 libxml2 - The XML C parser and toolkit for XML processing Data Interfaces**

|  |  |  |
| --- | --- | --- |
| emptyExp(LIBXML2\_2.6.21) [[libXML2]](#ID_REFSTD_46_LIBXML2_46_1) | forbiddenExp(LIBXML2\_2.6.21) [[libXML2]](#ID_REFSTD_46_LIBXML2_46_1) | xmlFree(LIBXML2\_2.4.30) [[libXML2]](#ID_REFSTD_46_LIBXML2_46_1) |
| xmlMalloc(LIBXML2\_2.4.30) [[libXML2]](#ID_REFSTD_46_LIBXML2_46_1) | xmlMallocAtomic(LIBXML2\_2.5.7) [[libXML2]](#ID_REFSTD_46_LIBXML2_46_1) | xmlMemStrdup(LIBXML2\_2.4.30) [[libXML2]](#ID_REFSTD_46_LIBXML2_46_1) |
| xmlParserMaxDepth(LIBXML2\_2.6.0) [[libXML2]](#ID_REFSTD_46_LIBXML2_46_1) | xmlRealloc(LIBXML2\_2.4.30) [[libXML2]](#ID_REFSTD_46_LIBXML2_46_1) | xmlStringComment(LIBXML2\_2.4.30) [[libXML2]](#ID_REFSTD_46_LIBXML2_46_1) |
| xmlStringText(LIBXML2\_2.4.30) [[libXML2]](#ID_REFSTD_46_LIBXML2_46_1) | xmlStringTextNoenc(LIBXML2\_2.4.30) [[libXML2]](#ID_REFSTD_46_LIBXML2_46_1) | xmlXPathNAN(LIBXML2\_2.4.30) [[libXML2]](#ID_REFSTD_46_LIBXML2_46_1) |
| xmlXPathNINF(LIBXML2\_2.4.30) [[libXML2]](#ID_REFSTD_46_LIBXML2_46_1) | xmlXPathPINF(LIBXML2\_2.4.30) [[libXML2]](#ID_REFSTD_46_LIBXML2_46_1) |  |

## **8.2 Data Definitions for libxml2**

This section defines global identifiers and their values that are associated with interfaces contained in libxml2. These definitions are organized into groups that correspond to system headers. This convention is used as a convenience for the reader, and does not imply the existence of these headers, or their content. Where an interface is defined as requiring a particular system header file all of the data definitions for that system header file presented here shall be in effect.

This section gives data definitions to promote binary application portability, not to repeat source interface definitions available elsewhere. System providers and application developers should use this ABI to supplement - not to replace - source interface definition specifications.

This specification uses the [ISO C (1999)](#ID_STD_46_ISOC99) C Language as the reference programming language, and data definitions are specified in ISO C format. The C language is used here as a convenient notation. Using a C language description of these data objects does not preclude their use by other programming languages.

### **8.2.1 libxml2/libxml/HTMLparser.h**

#define htmlElementAllowedHereDesc(parent,elt) \

htmlElementAllowedHere((parent), (elt)->name)

#define htmlRequiredAttrs(elt) (elt)->attrs\_req

#define htmlDefaultSubelement(elt) elt->defaultsubelt

typedef enum {

HTML\_NA = 0,

HTML\_INVALID = 1,

HTML\_DEPRECATED = 2,

HTML\_VALID = 4,

HTML\_REQUIRED = 12

} htmlStatus;

typedef struct \_htmlElemDesc {

const char \*name;

char startTag;

char endTag;

char saveEndTag;

char empty;

char depr;

char dtd;

char isinline;

const char \*desc;

const char \*\*subelts;

const char \*defaultsubelt;

const char \*\*attrs\_opt;

const char \*\*attrs\_depr;

const char \*\*attrs\_req;

} htmlElemDesc;

typedef xmlDocPtr htmlDocPtr;

typedef xmlSAXHandlerPtr htmlSAXHandlerPtr;

typedef xmlParserCtxtPtr htmlParserCtxtPtr;

typedef struct \_htmlEntityDesc {

unsigned int value;

const char \*name;

const char \*desc;

} htmlEntityDesc;

typedef xmlNodePtr htmlNodePtr;

typedef enum {

HTML\_PARSE\_RECOVER = 1 << 0,

HTML\_PARSE\_NOERROR = 1 << 5,

HTML\_PARSE\_NOWARNING = 1 << 6,

HTML\_PARSE\_PEDANTIC = 1 << 7,

HTML\_PARSE\_NOBLANKS = 1 << 8,

HTML\_PARSE\_NONET = 1 << 11,

HTML\_PARSE\_COMPACT = 1 << 16

} htmlParserOption;

typedef xmlParserInputPtr htmlParserInputPtr;

typedef htmlElemDesc \*htmlElemDescPtr;

typedef htmlEntityDesc \*htmlEntityDescPtr;

typedef xmlParserInput htmlParserInput;

typedef xmlSAXHandler htmlSAXHandler;

extern int UTF8ToHtml(unsigned char \*out, int \*outlen,

const unsigned char \*in, int \*inlen);

extern htmlStatus htmlAttrAllowed(const htmlElemDesc \*, const xmlChar \*,

int);

extern int htmlAutoCloseTag(htmlDocPtr doc, const xmlChar \* name,

htmlNodePtr elem);

extern htmlParserCtxtPtr htmlCreateMemoryParserCtxt(const char \*buffer,

int size);

extern htmlParserCtxtPtr htmlCreatePushParserCtxt(htmlSAXHandlerPtr sax,

void \*user\_data,

const char \*chunk,

int size,

const char \*filename,

xmlCharEncoding enc);

extern htmlDocPtr htmlCtxtReadDoc(htmlParserCtxtPtr ctxt,

const xmlChar \* cur, const char \*URL,

const char \*encoding, int options);

extern htmlDocPtr htmlCtxtReadFd(htmlParserCtxtPtr ctxt, int fd,

const char \*URL, const char \*encoding,

int options);

extern htmlDocPtr htmlCtxtReadFile(htmlParserCtxtPtr ctxt,

const char \*filename,

const char \*encoding, int options);

extern htmlDocPtr htmlCtxtReadIO(htmlParserCtxtPtr ctxt,

xmlInputReadCallback ioread,

xmlInputCloseCallback ioclose,

void \*ioctx, const char \*URL,

const char \*encoding, int options);

extern htmlDocPtr htmlCtxtReadMemory(htmlParserCtxtPtr ctxt,

const char \*buffer, int size,

const char \*URL, const char \*encoding,

int options);

extern void htmlCtxtReset(htmlParserCtxtPtr ctxt);

extern int htmlCtxtUseOptions(htmlParserCtxtPtr ctxt, int options);

extern int htmlElementAllowedHere(const htmlElemDesc \*, const xmlChar \*);

extern htmlStatus htmlElementStatusHere(const htmlElemDesc \*,

const htmlElemDesc \*);

extern int htmlEncodeEntities(unsigned char \*out, int \*outlen,

const unsigned char \*in, int \*inlen,

int quoteChar);

extern const htmlEntityDesc \*htmlEntityLookup(const xmlChar \* name);

extern const htmlEntityDesc \*htmlEntityValueLookup(unsigned int value);

extern void htmlFreeParserCtxt(htmlParserCtxtPtr ctxt);

extern int htmlHandleOmittedElem(int val);

extern int htmlIsAutoClosed(htmlDocPtr doc, htmlNodePtr elem);

extern int htmlIsScriptAttribute(const xmlChar \* name);

extern int htmlParseCharRef(htmlParserCtxtPtr ctxt);

extern int htmlParseChunk(htmlParserCtxtPtr ctxt, const char \*chunk,

int size, int terminate);

extern htmlDocPtr htmlParseDoc(xmlChar \* cur, const char \*encoding);

extern int htmlParseDocument(htmlParserCtxtPtr ctxt);

extern void htmlParseElement(htmlParserCtxtPtr ctxt);

extern const htmlEntityDesc \*htmlParseEntityRef(htmlParserCtxtPtr ctxt,

const xmlChar \* \*str);

extern htmlDocPtr htmlParseFile(const char \*filename,

const char \*encoding);

extern htmlDocPtr htmlReadDoc(const xmlChar \* cur, const char \*URL,

const char \*encoding, int options);

extern htmlDocPtr htmlReadFd(int fd, const char \*URL, const char \*encoding,

int options);

extern htmlDocPtr htmlReadFile(const char \*URL, const char \*encoding,

int options);

extern htmlDocPtr htmlReadIO(xmlInputReadCallback ioread,

xmlInputCloseCallback ioclose, void \*ioctx,

const char \*URL, const char \*encoding,

int options);

extern htmlDocPtr htmlReadMemory(const char \*buffer, int size,

const char \*URL, const char \*encoding,

int options);

extern htmlDocPtr htmlSAXParseDoc(xmlChar \* cur, const char \*encoding,

htmlSAXHandlerPtr sax, void \*userData);

extern htmlDocPtr htmlSAXParseFile(const char \*filename,

const char \*encoding,

htmlSAXHandlerPtr sax, void \*userData);

extern const htmlElemDesc \*htmlTagLookup(const xmlChar \* tag);

### **8.2.2 libxml2/libxml/HTMLtree.h**

#define HTML\_PRESERVE\_NODE XML\_CDATA\_SECTION\_NODE

#define HTML\_COMMENT\_NODE XML\_COMMENT\_NODE

#define HTML\_ENTITY\_REF\_NODE XML\_ENTITY\_REF\_NODE

#define HTML\_PI\_NODE XML\_PI\_NODE

#define HTML\_TEXT\_NODE XML\_TEXT\_NODE

extern void htmlDocContentDumpFormatOutput(xmlOutputBufferPtr buf,

xmlDocPtr cur,

const char \*encoding,

int format);

extern void htmlDocContentDumpOutput(xmlOutputBufferPtr buf, xmlDocPtr cur,

const char \*encoding);

extern int htmlDocDump(FILE \* f, xmlDocPtr cur);

extern void htmlDocDumpMemory(xmlDocPtr cur, xmlChar \* \*mem, int \*size);

extern const xmlChar \*htmlGetMetaEncoding(htmlDocPtr doc);

extern int htmlIsBooleanAttr(const xmlChar \* name);

extern htmlDocPtr htmlNewDoc(const xmlChar \* URI,

const xmlChar \* ExternalID);

extern htmlDocPtr htmlNewDocNoDtD(const xmlChar \* URI,

const xmlChar \* ExternalID);

extern int htmlNodeDump(xmlBufferPtr buf, xmlDocPtr doc, xmlNodePtr cur);

extern void htmlNodeDumpFile(FILE \* out, xmlDocPtr doc, xmlNodePtr cur);

extern int htmlNodeDumpFileFormat(FILE \* out, xmlDocPtr doc,

xmlNodePtr cur, const char \*encoding,

int format);

extern void htmlNodeDumpFormatOutput(xmlOutputBufferPtr buf, xmlDocPtr doc,

xmlNodePtr cur, const char \*encoding,

int format);

extern void htmlNodeDumpOutput(xmlOutputBufferPtr buf, xmlDocPtr doc,

xmlNodePtr cur, const char \*encoding);

extern int htmlSaveFile(const char \*filename, xmlDocPtr cur);

extern int htmlSaveFileEnc(const char \*filename, xmlDocPtr cur,

const char \*encoding);

extern int htmlSaveFileFormat(const char \*filename, xmlDocPtr cur,

const char \*encoding, int format);

extern int htmlSetMetaEncoding(htmlDocPtr doc, const xmlChar \* encoding);

### **8.2.3 libxml2/libxml/SAX2.h**

typedef void (\*internalSubsetSAXFunc) (void \*, const xmlChar \*,

const xmlChar \*, const xmlChar \*);

typedef int (\*isStandaloneSAXFunc) (void \*);

typedef int (\*hasInternalSubsetSAXFunc) (void \*);

typedef int (\*hasExternalSubsetSAXFunc) (void \*);

typedef xmlParserInputPtr(\*resolveEntitySAXFunc) (void \*, const xmlChar \*,

const xmlChar \*);

typedef xmlEntityPtr(\*getEntitySAXFunc) (void \*, const xmlChar \*);

typedef void (\*entityDeclSAXFunc) (void \*, const xmlChar \*, int,

const xmlChar \*, const xmlChar \*,

xmlChar \*);

typedef void (\*notationDeclSAXFunc) (void \*, const xmlChar \*,

const xmlChar \*, const xmlChar \*);

typedef struct \_xmlEnumeration {

struct \_xmlEnumeration \*next;

const xmlChar \*name;

} xmlEnumeration;

typedef xmlEnumeration \*xmlEnumerationPtr;

typedef void (\*attributeDeclSAXFunc) (void \*, const xmlChar \*,

const xmlChar \*, int, int,

const xmlChar \*, xmlEnumerationPtr);

typedef enum {

XML\_ELEMENT\_CONTENT\_PCDATA = 1,

XML\_ELEMENT\_CONTENT\_ELEMENT = 2,

XML\_ELEMENT\_CONTENT\_SEQ = 3,

XML\_ELEMENT\_CONTENT\_OR = 4

} xmlElementContentType;

typedef enum {

XML\_ELEMENT\_CONTENT\_ONCE = 1,

XML\_ELEMENT\_CONTENT\_OPT = 2,

XML\_ELEMENT\_CONTENT\_MULT = 3,

XML\_ELEMENT\_CONTENT\_PLUS = 4

} xmlElementContentOccur;

typedef struct \_xmlElementContent {

xmlElementContentType type;

xmlElementContentOccur ocur;

const xmlChar \*name;

struct \_xmlElementContent \*c1;

struct \_xmlElementContent \*c2;

struct \_xmlElementContent \*parent;

const xmlChar \*prefix;

} xmlElementContent;

typedef xmlElementContent \*xmlElementContentPtr;

typedef void (\*elementDeclSAXFunc) (void \*, const xmlChar \*, int,

xmlElementContentPtr);

typedef void (\*unparsedEntityDeclSAXFunc) (void \*, const xmlChar \*,

const xmlChar \*,

const xmlChar \*,

const xmlChar \*);

typedef struct \_xmlSAXLocator {

const xmlChar \*(\*getPublicId) (void \*);

const xmlChar \*(\*getSystemId) (void \*);

int (\*getLineNumber) (void \*);

int (\*getColumnNumber) (void \*);

} xmlSAXLocator;

typedef xmlSAXLocator \*xmlSAXLocatorPtr;

typedef void (\*setDocumentLocatorSAXFunc) (void \*, xmlSAXLocatorPtr);

typedef void (\*startDocumentSAXFunc) (void \*);

typedef void (\*endDocumentSAXFunc) (void \*);

typedef void (\*startElementSAXFunc) (void \*, const xmlChar \*,

const xmlChar \* \*);

typedef void (\*endElementSAXFunc) (void \*, const xmlChar \*);

typedef void (\*referenceSAXFunc) (void \*, const xmlChar \*);

typedef void (\*charactersSAXFunc) (void \*, const xmlChar \*, int);

typedef void (\*ignorableWhitespaceSAXFunc) (void \*, const xmlChar \*, int);

typedef void (\*processingInstructionSAXFunc) (void \*, const xmlChar \*,

const xmlChar \*);

typedef void (\*commentSAXFunc) (void \*, const xmlChar \*);

typedef void (\*warningSAXFunc) (void \*, const char \*, ...);

typedef void (\*errorSAXFunc) (void \*, const char \*, ...);

typedef void (\*fatalErrorSAXFunc) (void \*, const char \*, ...);

typedef xmlEntityPtr(\*getParameterEntitySAXFunc) (void \*, const xmlChar \*);

typedef void (\*cdataBlockSAXFunc) (void \*, const xmlChar \*, int);

typedef void (\*externalSubsetSAXFunc) (void \*, const xmlChar \*,

const xmlChar \*, const xmlChar \*);

typedef void (\*startElementNsSAX2Func) (void \*, const xmlChar \*,

const xmlChar \*, const xmlChar \*,

int, const xmlChar \* \*, int, int,

const xmlChar \* \*);

typedef void (\*endElementNsSAX2Func) (void \*, const xmlChar \*,

const xmlChar \*, const xmlChar \*);

typedef struct \_xmlSAXHandler {

internalSubsetSAXFunc internalSubset;

isStandaloneSAXFunc isStandalone;

hasInternalSubsetSAXFunc hasInternalSubset;

hasExternalSubsetSAXFunc hasExternalSubset;

resolveEntitySAXFunc resolveEntity;

getEntitySAXFunc getEntity;

entityDeclSAXFunc entityDecl;

notationDeclSAXFunc notationDecl;

attributeDeclSAXFunc attributeDecl;

elementDeclSAXFunc elementDecl;

unparsedEntityDeclSAXFunc unparsedEntityDecl;

setDocumentLocatorSAXFunc setDocumentLocator;

startDocumentSAXFunc startDocument;

endDocumentSAXFunc endDocument;

startElementSAXFunc startElement;

endElementSAXFunc endElement;

referenceSAXFunc reference;

charactersSAXFunc characters;

ignorableWhitespaceSAXFunc ignorableWhitespace;

processingInstructionSAXFunc processingInstruction;

commentSAXFunc comment;

warningSAXFunc warning;

errorSAXFunc error;

fatalErrorSAXFunc fatalError;

getParameterEntitySAXFunc getParameterEntity;

cdataBlockSAXFunc cdataBlock;

externalSubsetSAXFunc externalSubset;

unsigned int initialized;

void \*\_private;

startElementNsSAX2Func startElementNs;

endElementNsSAX2Func endElementNs;

xmlStructuredErrorFunc serror;

} xmlSAXHandler;

extern void docbDefaultSAXHandlerInit(void);

extern void htmlDefaultSAXHandlerInit(void);

extern void xmlDefaultSAXHandlerInit(void);

extern void xmlSAX2AttributeDecl(void \*ctx, const xmlChar \* elem,

const xmlChar \* fullname, int type,

int def, const xmlChar \* defaultValue,

xmlEnumerationPtr tree);

extern void xmlSAX2CDataBlock(void \*ctx, const xmlChar \* value, int len);

extern void xmlSAX2Characters(void \*ctx, const xmlChar \* ch, int len);

extern void xmlSAX2Comment(void \*ctx, const xmlChar \* value);

extern void xmlSAX2ElementDecl(void \*ctx, const xmlChar \* name, int type,

xmlElementContentPtr content);

extern void xmlSAX2EndDocument(void \*ctx);

extern void xmlSAX2EndElement(void \*ctx, const xmlChar \* name);

extern void xmlSAX2EndElementNs(void \*ctx, const xmlChar \* localname,

const xmlChar \* prefix,

const xmlChar \* URI);

extern void xmlSAX2EntityDecl(void \*ctx, const xmlChar \* name, int type,

const xmlChar \* publicId,

const xmlChar \* systemId, xmlChar \* content);

extern void xmlSAX2ExternalSubset(void \*ctx, const xmlChar \* name,

const xmlChar \* ExternalID,

const xmlChar \* SystemID);

extern int xmlSAX2GetColumnNumber(void \*ctx);

extern xmlEntityPtr xmlSAX2GetEntity(void \*ctx, const xmlChar \* name);

extern int xmlSAX2GetLineNumber(void \*ctx);

extern xmlEntityPtr xmlSAX2GetParameterEntity(void \*ctx,

const xmlChar \* name);

extern const xmlChar \*xmlSAX2GetPublicId(void \*ctx);

extern const xmlChar \*xmlSAX2GetSystemId(void \*ctx);

extern int xmlSAX2HasExternalSubset(void \*ctx);

extern int xmlSAX2HasInternalSubset(void \*ctx);

extern void xmlSAX2IgnorableWhitespace(void \*ctx, const xmlChar \* ch,

int len);

extern void xmlSAX2InitDefaultSAXHandler(xmlSAXHandler \* hdlr,

int warning);

extern void xmlSAX2InitDocbDefaultSAXHandler(xmlSAXHandler \* hdlr);

extern void xmlSAX2InitHtmlDefaultSAXHandler(xmlSAXHandler \* hdlr);

extern void xmlSAX2InternalSubset(void \*ctx, const xmlChar \* name,

const xmlChar \* ExternalID,

const xmlChar \* SystemID);

extern int xmlSAX2IsStandalone(void \*ctx);

extern void xmlSAX2NotationDecl(void \*ctx, const xmlChar \* name,

const xmlChar \* publicId,

const xmlChar \* systemId);

extern void xmlSAX2ProcessingInstruction(void \*ctx, const xmlChar \* target,

const xmlChar \* data);

extern void xmlSAX2Reference(void \*ctx, const xmlChar \* name);

extern xmlParserInputPtr xmlSAX2ResolveEntity(void \*ctx,

const xmlChar \* publicId,

const xmlChar \* systemId);

extern void xmlSAX2SetDocumentLocator(void \*ctx, xmlSAXLocatorPtr loc);

extern void xmlSAX2StartDocument(void \*ctx);

extern void xmlSAX2StartElement(void \*ctx, const xmlChar \* fullname,

const xmlChar \* \*atts);

extern void xmlSAX2StartElementNs(void \*ctx, const xmlChar \* localname,

const xmlChar \* prefix,

const xmlChar \* URI, int nb\_namespaces,

const xmlChar \* \*namespaces,

int nb\_attributes, int nb\_defaulted,

const xmlChar \* \*attributes);

extern void xmlSAX2UnparsedEntityDecl(void \*ctx, const xmlChar \* name,

const xmlChar \* publicId,

const xmlChar \* systemId,

const xmlChar \* notationName);

extern int xmlSAXDefaultVersion(int version);

extern int xmlSAXVersion(xmlSAXHandler \* hdlr, int version);

### **8.2.4 libxml2/libxml/c14n.h**

typedef int (\*xmlC14NIsVisibleCallback) (void \*, xmlNodePtr, xmlNodePtr);

extern int xmlC14NDocDumpMemory(xmlDocPtr, xmlNodeSetPtr, int, xmlChar \* \*,

int, xmlChar \* \*);

extern int xmlC14NDocSave(xmlDocPtr, xmlNodeSetPtr, int, xmlChar \* \*, int,

const char \*, int);

extern int xmlC14NDocSaveTo(xmlDocPtr, xmlNodeSetPtr, int, xmlChar \* \*,

int, xmlOutputBufferPtr);

extern int xmlC14NExecute(xmlDocPtr, xmlC14NIsVisibleCallback, void \*, int,

xmlChar \* \*, int, xmlOutputBufferPtr);

### **8.2.5 libxml2/libxml/catalog.h**

#define XML\_CATALOGS\_NAMESPACE \

(const xmlChar \*) "urn:oasis:names:tc:entity:xmlns:xml:catalog"

#define XML\_CATALOG\_PI (const xmlChar \*) "oasis-xml-catalog"

typedef enum {

XML\_CATA\_ALLOW\_NONE = 0,

XML\_CATA\_ALLOW\_GLOBAL = 1,

XML\_CATA\_ALLOW\_DOCUMENT = 2,

XML\_CATA\_ALLOW\_ALL = 3

} xmlCatalogAllow;

typedef struct \_xmlCatalog xmlCatalog;

typedef xmlCatalog \*xmlCatalogPtr;

typedef enum {

XML\_CATA\_PREFER\_NONE = 0,

XML\_CATA\_PREFER\_PUBLIC = 1,

XML\_CATA\_PREFER\_SYSTEM = 2

} xmlCatalogPrefer;

extern int xmlACatalogAdd(xmlCatalogPtr catal, const xmlChar \* type,

const xmlChar \* orig, const xmlChar \* replace);

extern void xmlACatalogDump(xmlCatalogPtr catal, FILE \* out);

extern int xmlACatalogRemove(xmlCatalogPtr catal, const xmlChar \* value);

extern xmlChar \*xmlACatalogResolve(xmlCatalogPtr catal,

const xmlChar \* pubID,

const xmlChar \* sysID);

extern xmlChar \*xmlACatalogResolvePublic(xmlCatalogPtr catal,

const xmlChar \* pubID);

extern xmlChar \*xmlACatalogResolveSystem(xmlCatalogPtr catal,

const xmlChar \* sysID);

extern xmlChar \*xmlACatalogResolveURI(xmlCatalogPtr catal,

const xmlChar \* URI);

extern int xmlCatalogAdd(const xmlChar \* type, const xmlChar \* orig,

const xmlChar \* replace);

extern void \*xmlCatalogAddLocal(void \*catalogs, const xmlChar \* URL);

extern void xmlCatalogCleanup(void);

extern int xmlCatalogConvert(void);

extern void xmlCatalogDump(FILE \* out);

extern void xmlCatalogFreeLocal(void \*catalogs);

extern xmlCatalogAllow xmlCatalogGetDefaults(void);

extern int xmlCatalogIsEmpty(xmlCatalogPtr catal);

extern xmlChar \*xmlCatalogLocalResolve(void \*catalogs,

const xmlChar \* pubID,

const xmlChar \* sysID);

extern xmlChar \*xmlCatalogLocalResolveURI(void \*catalogs,

const xmlChar \* URI);

extern int xmlCatalogRemove(const xmlChar \* value);

extern xmlChar \*xmlCatalogResolve(const xmlChar \* pubID,

const xmlChar \* sysID);

extern xmlChar \*xmlCatalogResolvePublic(const xmlChar \* pubID);

extern xmlChar \*xmlCatalogResolveSystem(const xmlChar \* sysID);

extern xmlChar \*xmlCatalogResolveURI(const xmlChar \* URI);

extern int xmlCatalogSetDebug(int level);

extern xmlCatalogPrefer xmlCatalogSetDefaultPrefer(xmlCatalogPrefer

prefer);

extern void xmlCatalogSetDefaults(xmlCatalogAllow allow);

extern int xmlConvertSGMLCatalog(xmlCatalogPtr catal);

extern void xmlFreeCatalog(xmlCatalogPtr catal);

extern void xmlInitializeCatalog(void);

extern xmlCatalogPtr xmlLoadACatalog(const char \*filename);

extern int xmlLoadCatalog(const char \*filename);

extern void xmlLoadCatalogs(const char \*paths);

extern xmlCatalogPtr xmlLoadSGMLSuperCatalog(const char \*filename);

extern xmlCatalogPtr xmlNewCatalog(int sgml);

extern xmlDocPtr xmlParseCatalogFile(const char \*filename);

### **8.2.6 libxml2/libxml/debugXML.h**

typedef char \*(\*xmlShellReadlineFunc) (char \*);

typedef struct \_xmlShellCtxt {

char \*filename;

xmlDocPtr doc;

xmlNodePtr node;

xmlXPathContextPtr pctxt;

int loaded;

FILE \*output;

xmlShellReadlineFunc input;

} xmlShellCtxt;

typedef xmlShellCtxt \*xmlShellCtxtPtr;

typedef int (\*xmlShellCmd) (xmlShellCtxtPtr, char \*, xmlNodePtr,

xmlNodePtr);

extern const char \*xmlBoolToText(int boolval);

extern int xmlDebugCheckDocument(FILE \* output, xmlDocPtr doc);

extern void xmlDebugDumpAttr(FILE \* output, xmlAttrPtr attr, int depth);

extern void xmlDebugDumpAttrList(FILE \* output, xmlAttrPtr attr,

int depth);

extern void xmlDebugDumpDTD(FILE \* output, xmlDtdPtr dtd);

extern void xmlDebugDumpDocument(FILE \* output, xmlDocPtr doc);

extern void xmlDebugDumpDocumentHead(FILE \* output, xmlDocPtr doc);

extern void xmlDebugDumpEntities(FILE \* output, xmlDocPtr doc);

extern void xmlDebugDumpNode(FILE \* output, xmlNodePtr node, int depth);

extern void xmlDebugDumpNodeList(FILE \* output, xmlNodePtr node,

int depth);

extern void xmlDebugDumpOneNode(FILE \* output, xmlNodePtr node, int depth);

extern void xmlDebugDumpString(FILE \* output, const xmlChar \* str);

extern int xmlLsCountNode(xmlNodePtr node);

extern void xmlLsOneNode(FILE \* output, xmlNodePtr node);

extern void xmlShell(xmlDocPtr doc, char \*filename,

xmlShellReadlineFunc input, FILE \* output);

extern int xmlShellBase(xmlShellCtxtPtr ctxt, char \*arg, xmlNodePtr node,

xmlNodePtr node2);

extern int xmlShellCat(xmlShellCtxtPtr ctxt, char \*arg, xmlNodePtr node,

xmlNodePtr node2);

extern int xmlShellDir(xmlShellCtxtPtr ctxt, char \*arg, xmlNodePtr node,

xmlNodePtr node2);

extern int xmlShellDu(xmlShellCtxtPtr ctxt, char \*arg, xmlNodePtr tree,

xmlNodePtr node2);

extern int xmlShellList(xmlShellCtxtPtr ctxt, char \*arg, xmlNodePtr node,

xmlNodePtr node2);

extern int xmlShellLoad(xmlShellCtxtPtr ctxt, char \*filename,

xmlNodePtr node, xmlNodePtr node2);

extern void xmlShellPrintNode(xmlNodePtr node);

extern void xmlShellPrintXPathError(int errorType, const char \*arg);

extern void xmlShellPrintXPathResult(xmlXPathObjectPtr list);

extern int xmlShellPwd(xmlShellCtxtPtr ctxt, char \*buffer, xmlNodePtr node,

xmlNodePtr node2);

extern int xmlShellSave(xmlShellCtxtPtr ctxt, char \*filename,

xmlNodePtr node, xmlNodePtr node2);

extern int xmlShellValidate(xmlShellCtxtPtr ctxt, char \*dtd,

xmlNodePtr node, xmlNodePtr node2);

extern int xmlShellWrite(xmlShellCtxtPtr ctxt, char \*filename,

xmlNodePtr node, xmlNodePtr node2);

### **8.2.7 libxml2/libxml/dict.h**

typedef struct \_xmlDict xmlDict;

typedef xmlDict \*xmlDictPtr;

extern void xmlDictCleanup(void);

extern xmlDictPtr xmlDictCreate(void);

extern xmlDictPtr xmlDictCreateSub(xmlDictPtr);

extern const xmlChar \*xmlDictExists(xmlDictPtr, const xmlChar \*, int);

extern void xmlDictFree(xmlDictPtr);

extern const xmlChar \*xmlDictLookup(xmlDictPtr, const xmlChar \*, int);

extern int xmlDictOwns(xmlDictPtr, const xmlChar \*);

extern const xmlChar \*xmlDictQLookup(xmlDictPtr, const xmlChar \*,

const xmlChar \*);

extern int xmlDictReference(xmlDictPtr);

extern int xmlDictSize(xmlDictPtr);

### **8.2.8 libxml2/libxml/encoding.h**

typedef enum {

XML\_CHAR\_ENCODING\_ERROR = -1,

XML\_CHAR\_ENCODING\_NONE = 0,

XML\_CHAR\_ENCODING\_UTF8 = 1,

XML\_CHAR\_ENCODING\_UTF16LE = 2,

XML\_CHAR\_ENCODING\_UTF16BE = 3,

XML\_CHAR\_ENCODING\_UCS4LE = 4,

XML\_CHAR\_ENCODING\_UCS4BE = 5,

XML\_CHAR\_ENCODING\_EBCDIC = 6,

XML\_CHAR\_ENCODING\_UCS4\_2143 = 7,

XML\_CHAR\_ENCODING\_UCS4\_3412 = 8,

XML\_CHAR\_ENCODING\_UCS2 = 9,

XML\_CHAR\_ENCODING\_8859\_1 = 10,

XML\_CHAR\_ENCODING\_8859\_2 = 11,

XML\_CHAR\_ENCODING\_8859\_3 = 12,

XML\_CHAR\_ENCODING\_8859\_4 = 13,

XML\_CHAR\_ENCODING\_8859\_5 = 14,

XML\_CHAR\_ENCODING\_8859\_6 = 15,

XML\_CHAR\_ENCODING\_8859\_7 = 16,

XML\_CHAR\_ENCODING\_8859\_8 = 17,

XML\_CHAR\_ENCODING\_8859\_9 = 18,

XML\_CHAR\_ENCODING\_2022\_JP = 19,

XML\_CHAR\_ENCODING\_SHIFT\_JIS = 20,

XML\_CHAR\_ENCODING\_EUC\_JP = 21,

XML\_CHAR\_ENCODING\_ASCII = 22

} xmlCharEncoding;

extern int UTF8Toisolat1(unsigned char \*out, int \*outlen,

const unsigned char \*in, int \*inlen);

extern int isolat1ToUTF8(unsigned char \*out, int \*outlen,

const unsigned char \*in, int \*inlen);

extern int xmlAddEncodingAlias(const char \*name, const char \*alias);

extern int xmlCharEncCloseFunc(xmlCharEncodingHandler \* handler);

extern int xmlCharEncFirstLine(xmlCharEncodingHandler \* handler,

xmlBufferPtr out, xmlBufferPtr in);

extern int xmlCharEncInFunc(xmlCharEncodingHandler \* handler,

xmlBufferPtr out, xmlBufferPtr in);

extern int xmlCharEncOutFunc(xmlCharEncodingHandler \* handler,

xmlBufferPtr out, xmlBufferPtr in);

extern void xmlCleanupCharEncodingHandlers(void);

extern void xmlCleanupEncodingAliases(void);

extern int xmlDelEncodingAlias(const char \*alias);

extern xmlCharEncoding xmlDetectCharEncoding(const unsigned char \*in,

int len);

extern xmlCharEncodingHandlerPtr xmlFindCharEncodingHandler(const char

\*name);

extern xmlCharEncodingHandlerPtr xmlGetCharEncodingHandler(xmlCharEncoding

enc);

extern const char \*xmlGetCharEncodingName(xmlCharEncoding enc);

extern const char \*xmlGetEncodingAlias(const char \*alias);

extern void xmlInitCharEncodingHandlers(void);

extern xmlCharEncodingHandlerPtr xmlNewCharEncodingHandler(const char

\*name,

xmlCharEncodingInputFunc

input,

xmlCharEncodingOutputFunc

output);

extern xmlCharEncoding xmlParseCharEncoding(const char \*name);

extern void xmlRegisterCharEncodingHandler(xmlCharEncodingHandlerPtr

handler);

### **8.2.9 libxml2/libxml/entities.h**

typedef enum {

XML\_INTERNAL\_GENERAL\_ENTITY = 1,

XML\_EXTERNAL\_GENERAL\_PARSED\_ENTITY = 2,

XML\_EXTERNAL\_GENERAL\_UNPARSED\_ENTITY = 3,

XML\_INTERNAL\_PARAMETER\_ENTITY = 4,

XML\_EXTERNAL\_PARAMETER\_ENTITY = 5,

XML\_INTERNAL\_PREDEFINED\_ENTITY = 6

} xmlEntityType;

typedef struct \_xmlEntity {

void \*\_private;

xmlElementType type;

const xmlChar \*name;

struct \_xmlNode \*children;

struct \_xmlNode \*last;

struct \_xmlDtd \*parent;

struct \_xmlNode \*next;

struct \_xmlNode \*prev;

struct \_xmlDoc \*doc;

xmlChar \*orig;

xmlChar \*content;

int length;

xmlEntityType etype;

const xmlChar \*ExternalID;

const xmlChar \*SystemID;

struct \_xmlEntity \*nexte;

const xmlChar \*URI;

int owner;

} xmlEntity;

typedef xmlEntity \*xmlEntityPtr;

typedef struct \_xmlHashTable xmlEntitiesTable;

typedef xmlEntitiesTable \*xmlEntitiesTablePtr;

extern xmlEntityPtr xmlAddDocEntity(xmlDocPtr doc, const xmlChar \* name,

int type, const xmlChar \* ExternalID,

const xmlChar \* SystemID,

const xmlChar \* content);

extern xmlEntityPtr xmlAddDtdEntity(xmlDocPtr doc, const xmlChar \* name,

int type, const xmlChar \* ExternalID,

const xmlChar \* SystemID,

const xmlChar \* content);

extern xmlEntitiesTablePtr xmlCopyEntitiesTable(xmlEntitiesTablePtr table);

extern void xmlDumpEntitiesTable(xmlBufferPtr buf,

xmlEntitiesTablePtr table);

extern void xmlDumpEntityDecl(xmlBufferPtr buf, xmlEntityPtr ent);

extern xmlChar \*xmlEncodeEntitiesReentrant(xmlDocPtr doc,

const xmlChar \* input);

extern xmlChar \*xmlEncodeSpecialChars(xmlDocPtr doc,

const xmlChar \* input);

extern void xmlFreeEntitiesTable(xmlEntitiesTablePtr table);

extern xmlEntityPtr xmlGetDocEntity(xmlDocPtr doc, const xmlChar \* name);

extern xmlEntityPtr xmlGetDtdEntity(xmlDocPtr doc, const xmlChar \* name);

extern xmlEntityPtr xmlGetParameterEntity(xmlDocPtr doc,

const xmlChar \* name);

extern xmlEntityPtr xmlGetPredefinedEntity(const xmlChar \* name);

### **8.2.10 libxml2/libxml/globals.h**

#define xmlDeregisterNodeDefaultValue \

(\*(\_\_xmlDeregisterNodeDefaultValue()))

#define xmlDoValidityCheckingDefaultValue \

(\*(\_\_xmlDoValidityCheckingDefaultValue()))

#define xmlOutputBufferCreateFilenameValue \

(\*(\_\_xmlOutputBufferCreateFilenameValue()))

#define xmlParserInputBufferCreateFilenameValue \

(\*(\_\_xmlParserInputBufferCreateFilenameValue()))

#define xmlPedanticParserDefaultValue \

(\*(\_\_xmlPedanticParserDefaultValue()))

#define xmlSubstituteEntitiesDefaultValue \

(\*(\_\_xmlSubstituteEntitiesDefaultValue()))

#define docbDefaultSAXHandler (\*(\_\_docbDefaultSAXHandler()))

#define htmlDefaultSAXHandler (\*(\_\_htmlDefaultSAXHandler()))

#define oldXMLWDcompatibility (\*(\_\_oldXMLWDcompatibility()))

#define xmlBufferAllocScheme (\*(\_\_xmlBufferAllocScheme()))

#define xmlDefaultBufferSize (\*(\_\_xmlDefaultBufferSize()))

#define xmlDefaultSAXHandler (\*(\_\_xmlDefaultSAXHandler()))

#define xmlDefaultSAXLocator (\*(\_\_xmlDefaultSAXLocator()))

#define xmlGenericError (\*(\_\_xmlGenericError()))

#define xmlGenericErrorContext (\*(\_\_xmlGenericErrorContext()))

#define xmlGetWarningsDefaultValue (\*(\_\_xmlGetWarningsDefaultValue()))

#define xmlIndentTreeOutput (\*(\_\_xmlIndentTreeOutput()))

#define xmlKeepBlanksDefaultValue (\*(\_\_xmlKeepBlanksDefaultValue()))

#define xmlLastError (\*(\_\_xmlLastError()))

#define xmlLineNumbersDefaultValue (\*(\_\_xmlLineNumbersDefaultValue()))

#define xmlLoadExtDtdDefaultValue (\*(\_\_xmlLoadExtDtdDefaultValue()))

#define xmlParserDebugEntities (\*(\_\_xmlParserDebugEntities()))

#define xmlParserVersion (\*(\_\_xmlParserVersion()))

#define xmlRegisterNodeDefaultValue (\*(\_\_xmlRegisterNodeDefaultValue()))

#define xmlSaveNoEmptyTags (\*(\_\_xmlSaveNoEmptyTags()))

#define xmlStructuredError (\*(\_\_xmlStructuredError()))

#define xmlTreeIndentString (\*(\_\_xmlTreeIndentString()))

typedef xmlOutputBufferPtr(\*xmlOutputBufferCreateFilenameFunc) (const char

\*,

xmlCharEncodingHandlerPtr,

int);

typedef void (\*xmlRegisterNodeFunc) (xmlNodePtr);

typedef

xmlParserInputBufferPtr(\*xmlParserInputBufferCreateFilenameFunc) (const

char \*,

xmlCharEncoding);

typedef struct \_xmlSAXHandlerV1 {

internalSubsetSAXFunc internalSubset;

isStandaloneSAXFunc isStandalone;

hasInternalSubsetSAXFunc hasInternalSubset;

hasExternalSubsetSAXFunc hasExternalSubset;

resolveEntitySAXFunc resolveEntity;

getEntitySAXFunc getEntity;

entityDeclSAXFunc entityDecl;

notationDeclSAXFunc notationDecl;

attributeDeclSAXFunc attributeDecl;

elementDeclSAXFunc elementDecl;

unparsedEntityDeclSAXFunc unparsedEntityDecl;

setDocumentLocatorSAXFunc setDocumentLocator;

startDocumentSAXFunc startDocument;

endDocumentSAXFunc endDocument;

startElementSAXFunc startElement;

endElementSAXFunc endElement;

referenceSAXFunc reference;

charactersSAXFunc characters;

ignorableWhitespaceSAXFunc ignorableWhitespace;

processingInstructionSAXFunc processingInstruction;

commentSAXFunc comment;

warningSAXFunc warning;

errorSAXFunc error;

fatalErrorSAXFunc fatalError;

getParameterEntitySAXFunc getParameterEntity;

cdataBlockSAXFunc cdataBlock;

externalSubsetSAXFunc externalSubset;

unsigned int initialized;

} xmlSAXHandlerV1;

typedef void (\*xmlDeregisterNodeFunc) (xmlNodePtr);

typedef struct \_xmlGlobalState xmlGlobalState;

typedef xmlGlobalState \*xmlGlobalStatePtr;

extern xmlSAXHandlerV1 \*\_\_docbDefaultSAXHandler(void);

extern xmlSAXHandlerV1 \*\_\_htmlDefaultSAXHandler(void);

extern int \*\_\_oldXMLWDcompatibility(void);

extern xmlBufferAllocationScheme \*\_\_xmlBufferAllocScheme(void);

extern int \*\_\_xmlDefaultBufferSize(void);

extern xmlSAXHandlerV1 \*\_\_xmlDefaultSAXHandler(void);

extern xmlSAXLocator \*\_\_xmlDefaultSAXLocator(void);

extern xmlDeregisterNodeFunc \*\_\_xmlDeregisterNodeDefaultValue(void);

extern int \*\_\_xmlDoValidityCheckingDefaultValue(void);

extern xmlGenericErrorFunc \*\_\_xmlGenericError(void);

extern void \*\*\_\_xmlGenericErrorContext(void);

extern int \*\_\_xmlGetWarningsDefaultValue(void);

extern int \*\_\_xmlIndentTreeOutput(void);

extern int \*\_\_xmlKeepBlanksDefaultValue(void);

extern xmlError \*\_\_xmlLastError(void);

extern int \*\_\_xmlLineNumbersDefaultValue(void);

extern int \*\_\_xmlLoadExtDtdDefaultValue(void);

extern xmlOutputBufferCreateFilenameFunc

\*\_\_xmlOutputBufferCreateFilenameValue(void);

extern int \*\_\_xmlParserDebugEntities(void);

extern xmlParserInputBufferCreateFilenameFunc

\*\_\_xmlParserInputBufferCreateFilenameValue(void);

extern const char \*\*\_\_xmlParserVersion(void);

extern int \*\_\_xmlPedanticParserDefaultValue(void);

extern xmlRegisterNodeFunc \*\_\_xmlRegisterNodeDefaultValue(void);

extern int \*\_\_xmlSaveNoEmptyTags(void);

extern xmlStructuredErrorFunc \*\_\_xmlStructuredError(void);

extern int \*\_\_xmlSubstituteEntitiesDefaultValue(void);

extern const char \*\*\_\_xmlTreeIndentString(void);

extern void xmlCleanupGlobals(void);

extern xmlDeregisterNodeFunc xmlDeregisterNodeDefault(xmlDeregisterNodeFunc

func);

extern xmlFreeFunc xmlFree;

extern void xmlInitGlobals(void);

extern void xmlInitializeGlobalState(xmlGlobalStatePtr gs);

extern xmlMallocFunc xmlMalloc;

extern xmlMallocFunc xmlMallocAtomic;

extern xmlStrdupFunc xmlMemStrdup;

extern xmlOutputBufferCreateFilenameFunc

xmlOutputBufferCreateFilenameDefault(xmlOutputBufferCreateFilenameFunc

func);

extern xmlParserInputBufferPtr xmlParserInputBufferCreateFilename(const

char

\*URI,

xmlCharEncoding

enc);

extern xmlParserInputBufferCreateFilenameFunc

xmlParserInputBufferCreateFilenameDefault

(xmlParserInputBufferCreateFilenameFunc func);

extern xmlReallocFunc xmlRealloc;

extern xmlRegisterNodeFunc xmlRegisterNodeDefault(xmlRegisterNodeFunc

func);

extern xmlBufferAllocationScheme

xmlThrDefBufferAllocScheme(xmlBufferAllocationScheme v);

extern int xmlThrDefDefaultBufferSize(int v);

extern xmlDeregisterNodeFunc

xmlThrDefDeregisterNodeDefault(xmlDeregisterNodeFunc func);

extern int xmlThrDefDoValidityCheckingDefaultValue(int v);

extern int xmlThrDefGetWarningsDefaultValue(int v);

extern int xmlThrDefIndentTreeOutput(int v);

extern int xmlThrDefKeepBlanksDefaultValue(int v);

extern int xmlThrDefLineNumbersDefaultValue(int v);

extern int xmlThrDefLoadExtDtdDefaultValue(int v);

extern xmlOutputBufferCreateFilenameFunc

xmlThrDefOutputBufferCreateFilenameDefault

(xmlOutputBufferCreateFilenameFunc func);

extern int xmlThrDefParserDebugEntities(int v);

extern xmlParserInputBufferCreateFilenameFunc

xmlThrDefParserInputBufferCreateFilenameDefault

(xmlParserInputBufferCreateFilenameFunc func);

extern int xmlThrDefPedanticParserDefaultValue(int v);

extern xmlRegisterNodeFunc xmlThrDefRegisterNodeDefault(xmlRegisterNodeFunc

func);

extern int xmlThrDefSaveNoEmptyTags(int v);

extern void xmlThrDefSetGenericErrorFunc(void \*ctx,

xmlGenericErrorFunc handler);

extern void xmlThrDefSetStructuredErrorFunc(void \*ctx,

xmlStructuredErrorFunc

handler);

extern int xmlThrDefSubstituteEntitiesDefaultValue(int v);

extern const char \*xmlThrDefTreeIndentString(const char \*v);

### **8.2.11 libxml2/libxml/hash.h**

#define XML\_CAST\_FPTR(fptr) fptr

typedef struct \_xmlHashTable xmlHashTable;

typedef xmlHashTable \*xmlHashTablePtr;

typedef void (\*xmlHashDeallocator) (void \*, xmlChar \*);

typedef void (\*xmlHashScannerFull) (void \*, void \*, const xmlChar \*,

const xmlChar \*, const xmlChar \*);

typedef void \*(\*xmlHashCopier) (void \*, xmlChar \*);

typedef void (\*xmlHashScanner) (void \*, void \*, xmlChar \*);

extern int xmlHashAddEntry(xmlHashTablePtr table, const xmlChar \* name,

void \*userdata);

extern int xmlHashAddEntry2(xmlHashTablePtr table, const xmlChar \* name,

const xmlChar \* name2, void \*userdata);

extern int xmlHashAddEntry3(xmlHashTablePtr table, const xmlChar \* name,

const xmlChar \* name2, const xmlChar \* name3,

void \*userdata);

extern xmlHashTablePtr xmlHashCopy(xmlHashTablePtr table, xmlHashCopier f);

extern xmlHashTablePtr xmlHashCreate(int size);

extern xmlHashTablePtr xmlHashCreateDict(int size, xmlDictPtr dict);

extern void xmlHashFree(xmlHashTablePtr table, xmlHashDeallocator f);

extern void \*xmlHashLookup(xmlHashTablePtr table, const xmlChar \* name);

extern void \*xmlHashLookup2(xmlHashTablePtr table, const xmlChar \* name,

const xmlChar \* name2);

extern void \*xmlHashLookup3(xmlHashTablePtr table, const xmlChar \* name,

const xmlChar \* name2, const xmlChar \* name3);

extern void \*xmlHashQLookup(xmlHashTablePtr table, const xmlChar \* name,

const xmlChar \* prefix);

extern void \*xmlHashQLookup2(xmlHashTablePtr table, const xmlChar \* name,

const xmlChar \* prefix, const xmlChar \* name2,

const xmlChar \* prefix2);

extern void \*xmlHashQLookup3(xmlHashTablePtr table, const xmlChar \* name,

const xmlChar \* prefix, const xmlChar \* name2,

const xmlChar \* prefix2,

const xmlChar \* name3,

const xmlChar \* prefix3);

extern int xmlHashRemoveEntry(xmlHashTablePtr table, const xmlChar \* name,

xmlHashDeallocator f);

extern int xmlHashRemoveEntry2(xmlHashTablePtr table, const xmlChar \* name,

const xmlChar \* name2,

xmlHashDeallocator f);

extern int xmlHashRemoveEntry3(xmlHashTablePtr table, const xmlChar \* name,

const xmlChar \* name2,

const xmlChar \* name3,

xmlHashDeallocator f);

extern void xmlHashScan(xmlHashTablePtr table, xmlHashScanner f,

void \*data);

extern void xmlHashScan3(xmlHashTablePtr table, const xmlChar \* name,

const xmlChar \* name2, const xmlChar \* name3,

xmlHashScanner f, void \*data);

extern void xmlHashScanFull(xmlHashTablePtr table, xmlHashScannerFull f,

void \*data);

extern void xmlHashScanFull3(xmlHashTablePtr table, const xmlChar \* name,

const xmlChar \* name2, const xmlChar \* name3,

xmlHashScannerFull f, void \*data);

extern int xmlHashSize(xmlHashTablePtr table);

extern int xmlHashUpdateEntry(xmlHashTablePtr table, const xmlChar \* name,

void \*userdata, xmlHashDeallocator f);

extern int xmlHashUpdateEntry2(xmlHashTablePtr table, const xmlChar \* name,

const xmlChar \* name2, void \*userdata,

xmlHashDeallocator f);

extern int xmlHashUpdateEntry3(xmlHashTablePtr table, const xmlChar \* name,

const xmlChar \* name2,

const xmlChar \* name3, void \*userdata,

xmlHashDeallocator f);

### **8.2.12 libxml2/libxml/list.h**

typedef struct \_xmlList xmlList;

typedef xmlList \*xmlListPtr;

typedef struct \_xmlLink xmlLink;

typedef xmlLink \*xmlLinkPtr;

typedef int (\*xmlListWalker) (const void \*, const void \*);

typedef void (\*xmlListDeallocator) (xmlLinkPtr);

typedef int (\*xmlListDataCompare) (const void \*, const void \*);

extern void \*xmlLinkGetData(xmlLinkPtr lk);

extern int xmlListAppend(xmlListPtr l, void \*data);

extern void xmlListClear(xmlListPtr l);

extern int xmlListCopy(xmlListPtr cur, const xmlListPtr old);

extern xmlListPtr xmlListCreate(xmlListDeallocator deallocator,

xmlListDataCompare compare);

extern void xmlListDelete(xmlListPtr l);

extern xmlListPtr xmlListDup(const xmlListPtr old);

extern int xmlListEmpty(xmlListPtr l);

extern xmlLinkPtr xmlListEnd(xmlListPtr l);

extern xmlLinkPtr xmlListFront(xmlListPtr l);

extern int xmlListInsert(xmlListPtr l, void \*data);

extern void xmlListMerge(xmlListPtr l1, xmlListPtr l2);

extern void xmlListPopBack(xmlListPtr l);

extern void xmlListPopFront(xmlListPtr l);

extern int xmlListPushBack(xmlListPtr l, void \*data);

extern int xmlListPushFront(xmlListPtr l, void \*data);

extern int xmlListRemoveAll(xmlListPtr l, void \*data);

extern int xmlListRemoveFirst(xmlListPtr l, void \*data);

extern int xmlListRemoveLast(xmlListPtr l, void \*data);

extern void xmlListReverse(xmlListPtr l);

extern void \*xmlListReverseSearch(xmlListPtr l, void \*data);

extern void xmlListReverseWalk(xmlListPtr l, xmlListWalker walker,

const void \*user);

extern void \*xmlListSearch(xmlListPtr l, void \*data);

extern int xmlListSize(xmlListPtr l);

extern void xmlListSort(xmlListPtr l);

extern void xmlListWalk(xmlListPtr l, xmlListWalker walker,

const void \*user);

### **8.2.13 libxml2/libxml/parser.h**

#define XML\_DEFAULT\_VERSION "1.0"

#define XML\_SAX2\_MAGIC 0xDEEDBEAF

#define XML\_DETECT\_IDS 2

#define XML\_COMPLETE\_ATTRS 4

#define XML\_SKIP\_IDS 8

typedef xmlSAXHandler \*xmlSAXHandlerPtr;

typedef xmlParserNodeInfoSeq \*xmlParserNodeInfoSeqPtr;

typedef xmlParserInputPtr(\*xmlExternalEntityLoader) (const char \*,

const char \*,

xmlParserCtxtPtr);

typedef xmlParserNodeInfo \*xmlParserNodeInfoPtr;

typedef enum {

XML\_WITH\_THREAD = 1,

XML\_WITH\_TREE = 2,

XML\_WITH\_OUTPUT = 3,

XML\_WITH\_PUSH = 4,

XML\_WITH\_READER = 5,

XML\_WITH\_PATTERN = 6,

XML\_WITH\_WRITER = 7,

XML\_WITH\_SAX1 = 8,

XML\_WITH\_FTP = 9,

XML\_WITH\_HTTP = 10,

XML\_WITH\_VALID = 11,

XML\_WITH\_HTML = 12,

XML\_WITH\_LEGACY = 13,

XML\_WITH\_C14N = 14,

XML\_WITH\_CATALOG = 15,

XML\_WITH\_XPATH = 16,

XML\_WITH\_XPTR = 17,

XML\_WITH\_XINCLUDE = 18,

XML\_WITH\_ICONV = 19,

XML\_WITH\_ISO8859X = 20,

XML\_WITH\_UNICODE = 21,

XML\_WITH\_REGEXP = 22,

XML\_WITH\_AUTOMATA = 23,

XML\_WITH\_EXPR = 24,

XML\_WITH\_SCHEMAS = 25,

XML\_WITH\_SCHEMATRON = 26,

XML\_WITH\_MODULES = 27,

XML\_WITH\_DEBUG = 28,

XML\_WITH\_DEBUG\_MEM = 29,

XML\_WITH\_DEBUG\_RUN = 30,

XML\_WITH\_NONE = 99999

} xmlFeature;

typedef enum {

XML\_PARSE\_RECOVER = 1 << 0,

XML\_PARSE\_NOENT = 1 << 1,

XML\_PARSE\_DTDLOAD = 1 << 2,

XML\_PARSE\_DTDATTR = 1 << 3,

XML\_PARSE\_DTDVALID = 1 << 4,

XML\_PARSE\_NOERROR = 1 << 5,

XML\_PARSE\_NOWARNING = 1 << 6,

XML\_PARSE\_PEDANTIC = 1 << 7,

XML\_PARSE\_NOBLANKS = 1 << 8,

XML\_PARSE\_SAX1 = 1 << 9,

XML\_PARSE\_XINCLUDE = 1 << 10,

XML\_PARSE\_NONET = 1 << 11,

XML\_PARSE\_NODICT = 1 << 12,

XML\_PARSE\_NSCLEAN = 1 << 13,

XML\_PARSE\_NOCDATA = 1 << 14,

XML\_PARSE\_NOXINCNODE = 1 << 15,

XML\_PARSE\_COMPACT = 1 << 16

} xmlParserOption;

extern long int xmlByteConsumed(xmlParserCtxtPtr ctxt);

extern void xmlCleanupParser(void);

extern void xmlClearNodeInfoSeq(xmlParserNodeInfoSeqPtr seq);

extern void xmlClearParserCtxt(xmlParserCtxtPtr ctxt);

extern xmlParserCtxtPtr xmlCreateDocParserCtxt(const xmlChar \* cur);

extern xmlParserCtxtPtr xmlCreateIOParserCtxt(xmlSAXHandlerPtr sax,

void \*user\_data,

xmlInputReadCallback ioread,

xmlInputCloseCallback

ioclose, void \*ioctx,

xmlCharEncoding enc);

extern xmlParserCtxtPtr xmlCreatePushParserCtxt(xmlSAXHandlerPtr sax,

void \*user\_data,

const char \*chunk,

int size,

const char \*filename);

extern xmlDocPtr xmlCtxtReadDoc(xmlParserCtxtPtr ctxt, const xmlChar \* cur,

const char \*URL, const char \*encoding,

int options);

extern xmlDocPtr xmlCtxtReadFd(xmlParserCtxtPtr ctxt, int fd,

const char \*URL, const char \*encoding,

int options);

extern xmlDocPtr xmlCtxtReadFile(xmlParserCtxtPtr ctxt,

const char \*filename,

const char \*encoding, int options);

extern xmlDocPtr xmlCtxtReadIO(xmlParserCtxtPtr ctxt,

xmlInputReadCallback ioread,

xmlInputCloseCallback ioclose, void \*ioctx,

const char \*URL, const char \*encoding,

int options);

extern xmlDocPtr xmlCtxtReadMemory(xmlParserCtxtPtr ctxt,

const char \*buffer, int size,

const char \*URL, const char \*encoding,

int options);

extern void xmlCtxtReset(xmlParserCtxtPtr ctxt);

extern int xmlCtxtResetPush(xmlParserCtxtPtr ctxt, const char \*chunk,

int size, const char \*filename,

const char \*encoding);

extern int xmlCtxtUseOptions(xmlParserCtxtPtr ctxt, int options);

extern void xmlFreeParserCtxt(xmlParserCtxtPtr ctxt);

extern xmlExternalEntityLoader xmlGetExternalEntityLoader(void);

extern int xmlHasFeature(xmlFeature feature);

extern xmlDtdPtr xmlIOParseDTD(xmlSAXHandlerPtr sax,

xmlParserInputBufferPtr input,

xmlCharEncoding enc);

extern void xmlInitNodeInfoSeq(xmlParserNodeInfoSeqPtr seq);

extern void xmlInitParser(void);

extern int xmlInitParserCtxt(xmlParserCtxtPtr ctxt);

extern int xmlKeepBlanksDefault(int val);

extern int xmlLineNumbersDefault(int val);

extern xmlParserInputPtr xmlLoadExternalEntity(const char \*URL,

const char \*ID,

xmlParserCtxtPtr ctxt);

extern xmlParserInputPtr xmlNewIOInputStream(xmlParserCtxtPtr ctxt,

xmlParserInputBufferPtr input,

xmlCharEncoding enc);

extern xmlParserCtxtPtr xmlNewParserCtxt(void);

extern int xmlParseBalancedChunkMemory(xmlDocPtr doc, xmlSAXHandlerPtr sax,

void \*user\_data, int depth,

const xmlChar \* string,

xmlNodePtr \* lst);

extern int xmlParseBalancedChunkMemoryRecover(xmlDocPtr doc,

xmlSAXHandlerPtr sax,

void \*user\_data, int depth,

const xmlChar \* string,

xmlNodePtr \* lst,

int recover);

extern int xmlParseChunk(xmlParserCtxtPtr ctxt, const char \*chunk,

int size, int terminate);

extern int xmlParseCtxtExternalEntity(xmlParserCtxtPtr ctx,

const xmlChar \* URL,

const xmlChar \* ID,

xmlNodePtr \* lst);

extern xmlDtdPtr xmlParseDTD(const xmlChar \* ExternalID,

const xmlChar \* SystemID);

extern xmlDocPtr xmlParseDoc(const xmlChar \* cur);

extern int xmlParseDocument(xmlParserCtxtPtr ctxt);

extern xmlDocPtr xmlParseEntity(const char \*filename);

extern int xmlParseExtParsedEnt(xmlParserCtxtPtr ctxt);

extern int xmlParseExternalEntity(xmlDocPtr doc, xmlSAXHandlerPtr sax,

void \*user\_data, int depth,

const xmlChar \* URL, const xmlChar \* ID,

xmlNodePtr \* lst);

extern xmlDocPtr xmlParseFile(const char \*filename);

extern xmlParserErrors xmlParseInNodeContext(xmlNodePtr node,

const char \*data, int datalen,

int options,

xmlNodePtr \* lst);

extern xmlDocPtr xmlParseMemory(const char \*buffer, int size);

extern void xmlParserAddNodeInfo(xmlParserCtxtPtr ctxt,

const xmlParserNodeInfoPtr info);

extern const xmlParserNodeInfo \*xmlParserFindNodeInfo(const

xmlParserCtxtPtr

ctxt,

const xmlNodePtr

node);

extern long unsigned int xmlParserFindNodeInfoIndex(const

xmlParserNodeInfoSeqPtr

seq,

const xmlNodePtr node);

extern int xmlParserInputGrow(xmlParserInputPtr in, int len);

extern int xmlParserInputRead(xmlParserInputPtr in, int len);

extern int xmlPedanticParserDefault(int val);

extern xmlDocPtr xmlReadDoc(const xmlChar \* cur, const char \*URL,

const char \*encoding, int options);

extern xmlDocPtr xmlReadFd(int fd, const char \*URL, const char \*encoding,

int options);

extern xmlDocPtr xmlReadFile(const char \*URL, const char \*encoding,

int options);

extern xmlDocPtr xmlReadIO(xmlInputReadCallback ioread,

xmlInputCloseCallback ioclose, void \*ioctx,

const char \*URL, const char \*encoding,

int options);

extern xmlDocPtr xmlReadMemory(const char \*buffer, int size,

const char \*URL, const char \*encoding,

int options);

extern xmlDocPtr xmlRecoverDoc(const xmlChar \* cur);

extern xmlDocPtr xmlRecoverFile(const char \*filename);

extern xmlDocPtr xmlRecoverMemory(const char \*buffer, int size);

extern xmlDtdPtr xmlSAXParseDTD(xmlSAXHandlerPtr sax,

const xmlChar \* ExternalID,

const xmlChar \* SystemID);

extern xmlDocPtr xmlSAXParseDoc(xmlSAXHandlerPtr sax, const xmlChar \* cur,

int recovery);

extern xmlDocPtr xmlSAXParseEntity(xmlSAXHandlerPtr sax,

const char \*filename);

extern xmlDocPtr xmlSAXParseFile(xmlSAXHandlerPtr sax,

const char \*filename, int recovery);

extern xmlDocPtr xmlSAXParseFileWithData(xmlSAXHandlerPtr sax,

const char \*filename,

int recovery, void \*data);

extern xmlDocPtr xmlSAXParseMemory(xmlSAXHandlerPtr sax,

const char \*buffer, int size,

int recovery);

extern xmlDocPtr xmlSAXParseMemoryWithData(xmlSAXHandlerPtr sax,

const char \*buffer, int size,

int recovery, void \*data);

extern int xmlSAXUserParseFile(xmlSAXHandlerPtr sax, void \*user\_data,

const char \*filename);

extern int xmlSAXUserParseMemory(xmlSAXHandlerPtr sax, void \*user\_data,

const char \*buffer, int size);

extern void xmlSetExternalEntityLoader(xmlExternalEntityLoader f);

extern void xmlSetupParserForBuffer(xmlParserCtxtPtr ctxt,

const xmlChar \* buffer,

const char \*filename);

extern void xmlStopParser(xmlParserCtxtPtr ctxt);

extern int xmlSubstituteEntitiesDefault(int val);

### **8.2.14 libxml2/libxml/parserInternals.h**

#define IS\_ASCII\_LETTER(c) \

(((0x41 <= (c)) && ((c) <= 0x5a)) || ((0x61 <= (c)) && ((c) <= \

0x7a)))

#define SKIP\_EOL(p) \

if (\*(p) == 0x13) { p++ ; if (\*(p) == 0x10) p++; } if (\*(p) == 0x10) \

{ p++ ; if (\*(p) == 0x13) p++; }

#define IS\_ASCII\_DIGIT(c) ((0x30 <= (c)) && ((c) <= 0x39))

#define IS\_LETTER(c) (IS\_BASECHAR(c) || IS\_IDEOGRAPHIC(c))

#define IS\_COMBINING\_CH(c) 0

#define XML\_SUBSTITUTE\_NONE 0

#define XML\_SUBSTITUTE\_REF 1

#define XML\_MAX\_NAMELEN 100

#define XML\_SUBSTITUTE\_PEREF 2

#define INPUT\_CHUNK 250

#define XML\_SUBSTITUTE\_BOTH 3

#define MOVETO\_STARTTAG(p) while ((\*p) && (\*(p) != '<')) (p)++

#define MOVETO\_ENDTAG(p) while ((\*p) && (\*(p) != '>')) (p)++

#define IS\_BASECHAR(c) xmlIsBaseCharQ(c)

#define IS\_LETTER\_CH(c) xmlIsBaseChar\_ch(c)

#define IS\_BLANK(c) xmlIsBlankQ(c)

#define IS\_BLANK\_CH(c) xmlIsBlank\_ch(c)

#define IS\_CHAR(c) xmlIsCharQ(c)

#define IS\_BYTE\_CHAR(c) xmlIsChar\_ch(c)

#define IS\_CHAR\_CH(c) xmlIsChar\_ch(c)

#define IS\_COMBINING(c) xmlIsCombiningQ(c)

#define IS\_DIGIT(c) xmlIsDigitQ(c)

#define IS\_DIGIT\_CH(c) xmlIsDigit\_ch(c)

#define IS\_EXTENDER(c) xmlIsExtenderQ(c)

#define IS\_EXTENDER\_CH(c) xmlIsExtender\_ch(c)

#define IS\_IDEOGRAPHIC(c) xmlIsIdeographicQ(c)

#define IS\_PUBIDCHAR(c) xmlIsPubidCharQ(c)

#define IS\_PUBIDCHAR\_CH(c) xmlIsPubidChar\_ch(c)

typedef void (\*xmlEntityReferenceFunc) (xmlEntityPtr, xmlNodePtr,

xmlNodePtr);

extern htmlParserCtxtPtr htmlCreateFileParserCtxt(const char \*filename,

const char \*encoding);

extern void htmlInitAutoClose(void);

extern xmlParserInputPtr inputPop(xmlParserCtxtPtr ctxt);

extern int inputPush(xmlParserCtxtPtr ctxt, xmlParserInputPtr value);

extern const xmlChar \*namePop(xmlParserCtxtPtr ctxt);

extern int namePush(xmlParserCtxtPtr ctxt, const xmlChar \* value);

extern xmlNodePtr nodePop(xmlParserCtxtPtr ctxt);

extern int nodePush(xmlParserCtxtPtr ctxt, xmlNodePtr value);

extern int xmlCopyChar(int len, xmlChar \* out, int val);

extern int xmlCopyCharMultiByte(xmlChar \* out, int val);

extern xmlParserCtxtPtr xmlCreateEntityParserCtxt(const xmlChar \* URL,

const xmlChar \* ID,

const xmlChar \* base);

extern xmlParserCtxtPtr xmlCreateFileParserCtxt(const char \*filename);

extern xmlParserCtxtPtr xmlCreateMemoryParserCtxt(const char \*buffer,

int size);

extern xmlParserCtxtPtr xmlCreateURLParserCtxt(const char \*filename,

int options);

extern int xmlCurrentChar(xmlParserCtxtPtr ctxt, int \*len);

extern void xmlFreeInputStream(xmlParserInputPtr input);

extern int xmlIsLetter(int c);

extern xmlParserInputPtr xmlNewEntityInputStream(xmlParserCtxtPtr ctxt,

xmlEntityPtr entity);

extern xmlParserInputPtr xmlNewInputFromFile(xmlParserCtxtPtr ctxt,

const char \*filename);

extern xmlParserInputPtr xmlNewInputStream(xmlParserCtxtPtr ctxt);

extern xmlParserInputPtr xmlNewStringInputStream(xmlParserCtxtPtr ctxt,

const xmlChar \* buffer);

extern void xmlNextChar(xmlParserCtxtPtr ctxt);

extern xmlChar \*xmlParseAttValue(xmlParserCtxtPtr ctxt);

extern const xmlChar \*xmlParseAttribute(xmlParserCtxtPtr ctxt,

xmlChar \* \*value);

extern void xmlParseAttributeListDecl(xmlParserCtxtPtr ctxt);

extern int xmlParseAttributeType(xmlParserCtxtPtr ctxt,

xmlEnumerationPtr \* tree);

extern void xmlParseCDSect(xmlParserCtxtPtr ctxt);

extern void xmlParseCharData(xmlParserCtxtPtr ctxt, int cdata);

extern int xmlParseCharRef(xmlParserCtxtPtr ctxt);

extern void xmlParseComment(xmlParserCtxtPtr ctxt);

extern void xmlParseContent(xmlParserCtxtPtr ctxt);

extern int xmlParseDefaultDecl(xmlParserCtxtPtr ctxt, xmlChar \* \*value);

extern void xmlParseDocTypeDecl(xmlParserCtxtPtr ctxt);

extern void xmlParseElement(xmlParserCtxtPtr ctxt);

extern xmlElementContentPtr

xmlParseElementChildrenContentDecl(xmlParserCtxtPtr ctxt, int inputchk);

extern int xmlParseElementContentDecl(xmlParserCtxtPtr ctxt,

const xmlChar \* name,

xmlElementContentPtr \* result);

extern int xmlParseElementDecl(xmlParserCtxtPtr ctxt);

extern xmlElementContentPtr

xmlParseElementMixedContentDecl(xmlParserCtxtPtr ctxt, int inputchk);

extern xmlChar \*xmlParseEncName(xmlParserCtxtPtr ctxt);

extern const xmlChar \*xmlParseEncodingDecl(xmlParserCtxtPtr ctxt);

extern void xmlParseEndTag(xmlParserCtxtPtr ctxt);

extern void xmlParseEntityDecl(xmlParserCtxtPtr ctxt);

extern xmlEntityPtr xmlParseEntityRef(xmlParserCtxtPtr ctxt);

extern xmlChar \*xmlParseEntityValue(xmlParserCtxtPtr ctxt,

xmlChar \* \*orig);

extern int xmlParseEnumeratedType(xmlParserCtxtPtr ctxt,

xmlEnumerationPtr \* tree);

extern xmlEnumerationPtr xmlParseEnumerationType(xmlParserCtxtPtr ctxt);

extern xmlChar \*xmlParseExternalID(xmlParserCtxtPtr ctxt,

xmlChar \* \*publicID, int strict);

extern void xmlParseExternalSubset(xmlParserCtxtPtr ctxt,

const xmlChar \* ExternalID,

const xmlChar \* SystemID);

extern void xmlParseMarkupDecl(xmlParserCtxtPtr ctxt);

extern void xmlParseMisc(xmlParserCtxtPtr ctxt);

extern const xmlChar \*xmlParseName(xmlParserCtxtPtr ctxt);

extern xmlChar \*xmlParseNmtoken(xmlParserCtxtPtr ctxt);

extern void xmlParseNotationDecl(xmlParserCtxtPtr ctxt);

extern xmlEnumerationPtr xmlParseNotationType(xmlParserCtxtPtr ctxt);

extern void xmlParsePEReference(xmlParserCtxtPtr ctxt);

extern void xmlParsePI(xmlParserCtxtPtr ctxt);

extern const xmlChar \*xmlParsePITarget(xmlParserCtxtPtr ctxt);

extern xmlChar \*xmlParsePubidLiteral(xmlParserCtxtPtr ctxt);

extern void xmlParseReference(xmlParserCtxtPtr ctxt);

extern int xmlParseSDDecl(xmlParserCtxtPtr ctxt);

extern const xmlChar \*xmlParseStartTag(xmlParserCtxtPtr ctxt);

extern xmlChar \*xmlParseSystemLiteral(xmlParserCtxtPtr ctxt);

extern void xmlParseTextDecl(xmlParserCtxtPtr ctxt);

extern xmlChar \*xmlParseVersionInfo(xmlParserCtxtPtr ctxt);

extern xmlChar \*xmlParseVersionNum(xmlParserCtxtPtr ctxt);

extern void xmlParseXMLDecl(xmlParserCtxtPtr ctxt);

extern void xmlParserHandlePEReference(xmlParserCtxtPtr ctxt);

extern void xmlParserInputShrink(xmlParserInputPtr in);

extern unsigned int xmlParserMaxDepth;

extern xmlChar xmlPopInput(xmlParserCtxtPtr ctxt);

extern int xmlPushInput(xmlParserCtxtPtr ctxt, xmlParserInputPtr input);

extern void xmlSetEntityReferenceFunc(xmlEntityReferenceFunc func);

extern int xmlSkipBlankChars(xmlParserCtxtPtr ctxt);

extern xmlChar \*xmlSplitQName(xmlParserCtxtPtr ctxt, const xmlChar \* name,

xmlChar \* \*prefix);

extern const xmlChar const xmlStringComment[];

extern int xmlStringCurrentChar(xmlParserCtxtPtr ctxt, const xmlChar \* cur,

int \*len);

extern xmlChar \*xmlStringDecodeEntities(xmlParserCtxtPtr ctxt,

const xmlChar \* str, int what,

xmlChar end, xmlChar end2,

xmlChar end3);

extern xmlChar \*xmlStringLenDecodeEntities(xmlParserCtxtPtr ctxt,

const xmlChar \* str, int len,

int what, xmlChar end,

xmlChar end2, xmlChar end3);

extern const xmlChar const xmlStringText[];

extern const xmlChar const xmlStringTextNoenc[];

extern int xmlSwitchEncoding(xmlParserCtxtPtr ctxt, xmlCharEncoding enc);

extern int xmlSwitchInputEncoding(xmlParserCtxtPtr ctxt,

xmlParserInputPtr input,

xmlCharEncodingHandlerPtr handler);

extern int xmlSwitchToEncoding(xmlParserCtxtPtr ctxt,

xmlCharEncodingHandlerPtr handler);

### **8.2.15 libxml2/libxml/pattern.h**

typedef struct \_xmlStreamCtxt xmlStreamCtxt;

typedef xmlStreamCtxt \*xmlStreamCtxtPtr;

typedef struct \_xmlPattern xmlPattern;

typedef xmlPattern \*xmlPatternPtr;

typedef enum {

XML\_PATTERN\_DEFAULT = 0,

XML\_PATTERN\_XPATH = 1 << 0,

XML\_PATTERN\_XSSEL = 1 << 1,

XML\_PATTERN\_XSFIELD = 1 << 2

} xmlPatternFlags;

extern void xmlFreePattern(xmlPatternPtr comp);

extern void xmlFreePatternList(xmlPatternPtr comp);

extern void xmlFreeStreamCtxt(xmlStreamCtxtPtr stream);

extern int xmlPatternFromRoot(xmlPatternPtr comp);

extern xmlStreamCtxtPtr xmlPatternGetStreamCtxt(xmlPatternPtr comp);

extern int xmlPatternMatch(xmlPatternPtr comp, xmlNodePtr node);

extern int xmlPatternMaxDepth(xmlPatternPtr comp);

extern int xmlPatternMinDepth(xmlPatternPtr comp);

extern int xmlPatternStreamable(xmlPatternPtr comp);

extern xmlPatternPtr xmlPatterncompile(const xmlChar \* pattern,

xmlDict \* dict, int flags,

const xmlChar \* \*namespaces);

extern int xmlStreamPop(xmlStreamCtxtPtr stream);

extern int xmlStreamPush(xmlStreamCtxtPtr stream, const xmlChar \* name,

const xmlChar \* ns);

extern int xmlStreamPushAttr(xmlStreamCtxtPtr stream, const xmlChar \* name,

const xmlChar \* ns);

### **8.2.16 libxml2/libxml/relaxng.h**

typedef struct \_xmlRelaxNGParserCtxt xmlRelaxNGParserCtxt;

typedef xmlRelaxNGParserCtxt \*xmlRelaxNGParserCtxtPtr;

typedef struct \_xmlRelaxNGValidCtxt xmlRelaxNGValidCtxt;

typedef xmlRelaxNGValidCtxt \*xmlRelaxNGValidCtxtPtr;

typedef struct \_xmlRelaxNG xmlRelaxNG;

typedef xmlRelaxNG \*xmlRelaxNGPtr;

typedef void (\*xmlRelaxNGValidityErrorFunc) (void \*, const char \*, ...);

typedef void (\*xmlRelaxNGValidityWarningFunc) (void \*, const char \*, ...);

typedef enum {

XML\_RELAXNG\_OK = 0,

XML\_RELAXNG\_ERR\_MEMORY,

XML\_RELAXNG\_ERR\_TYPE,

XML\_RELAXNG\_ERR\_TYPEVAL,

XML\_RELAXNG\_ERR\_DUPID,

XML\_RELAXNG\_ERR\_TYPECMP,

XML\_RELAXNG\_ERR\_NOSTATE,

XML\_RELAXNG\_ERR\_NODEFINE,

XML\_RELAXNG\_ERR\_LISTEXTRA,

XML\_RELAXNG\_ERR\_LISTEMPTY,

XML\_RELAXNG\_ERR\_INTERNODATA,

XML\_RELAXNG\_ERR\_INTERSEQ,

XML\_RELAXNG\_ERR\_INTEREXTRA,

XML\_RELAXNG\_ERR\_ELEMNAME,

XML\_RELAXNG\_ERR\_ATTRNAME,

XML\_RELAXNG\_ERR\_ELEMNONS,

XML\_RELAXNG\_ERR\_ATTRNONS,

XML\_RELAXNG\_ERR\_ELEMWRONGNS,

XML\_RELAXNG\_ERR\_ATTRWRONGNS,

XML\_RELAXNG\_ERR\_ELEMEXTRANS,

XML\_RELAXNG\_ERR\_ATTREXTRANS,

XML\_RELAXNG\_ERR\_ELEMNOTEMPTY,

XML\_RELAXNG\_ERR\_NOELEM,

XML\_RELAXNG\_ERR\_NOTELEM,

XML\_RELAXNG\_ERR\_ATTRVALID,

XML\_RELAXNG\_ERR\_CONTENTVALID,

XML\_RELAXNG\_ERR\_EXTRACONTENT,

XML\_RELAXNG\_ERR\_INVALIDATTR,

XML\_RELAXNG\_ERR\_DATAELEM,

XML\_RELAXNG\_ERR\_VALELEM,

XML\_RELAXNG\_ERR\_LISTELEM,

XML\_RELAXNG\_ERR\_DATATYPE,

XML\_RELAXNG\_ERR\_VALUE,

XML\_RELAXNG\_ERR\_LIST,

XML\_RELAXNG\_ERR\_NOGRAMMAR,

XML\_RELAXNG\_ERR\_EXTRADATA,

XML\_RELAXNG\_ERR\_LACKDATA,

XML\_RELAXNG\_ERR\_INTERNAL,

XML\_RELAXNG\_ERR\_ELEMWRONG,

XML\_RELAXNG\_ERR\_TEXTWRONG

} xmlRelaxNGValidErr;

typedef enum {

XML\_RELAXNGP\_NONE = 0,

XML\_RELAXNGP\_FREE\_DOC = 1,

XML\_RELAXNGP\_CRNG = 2

} xmlRelaxNGParserFlag;

extern void xmlRelaxNGCleanupTypes(void);

extern void xmlRelaxNGDump(FILE \* output, xmlRelaxNGPtr schema);

extern void xmlRelaxNGDumpTree(FILE \* output, xmlRelaxNGPtr schema);

extern void xmlRelaxNGFree(xmlRelaxNGPtr schema);

extern void xmlRelaxNGFreeParserCtxt(xmlRelaxNGParserCtxtPtr ctxt);

extern void xmlRelaxNGFreeValidCtxt(xmlRelaxNGValidCtxtPtr ctxt);

extern int xmlRelaxNGGetParserErrors(xmlRelaxNGParserCtxtPtr ctxt,

xmlRelaxNGValidityErrorFunc \* err,

xmlRelaxNGValidityWarningFunc \* warn,

void \*\*ctx);

extern int xmlRelaxNGGetValidErrors(xmlRelaxNGValidCtxtPtr ctxt,

xmlRelaxNGValidityErrorFunc \* err,

xmlRelaxNGValidityWarningFunc \* warn,

void \*\*ctx);

extern int xmlRelaxNGInitTypes(void);

extern xmlRelaxNGParserCtxtPtr xmlRelaxNGNewDocParserCtxt(xmlDocPtr doc);

extern xmlRelaxNGParserCtxtPtr xmlRelaxNGNewMemParserCtxt(const char

\*buffer,

int size);

extern xmlRelaxNGParserCtxtPtr xmlRelaxNGNewParserCtxt(const char \*URL);

extern xmlRelaxNGValidCtxtPtr xmlRelaxNGNewValidCtxt(xmlRelaxNGPtr schema);

extern xmlRelaxNGPtr xmlRelaxNGParse(xmlRelaxNGParserCtxtPtr ctxt);

extern void xmlRelaxNGSetParserErrors(xmlRelaxNGParserCtxtPtr ctxt,

xmlRelaxNGValidityErrorFunc err,

xmlRelaxNGValidityWarningFunc warn,

void \*ctx);

extern void xmlRelaxNGSetValidErrors(xmlRelaxNGValidCtxtPtr ctxt,

xmlRelaxNGValidityErrorFunc err,

xmlRelaxNGValidityWarningFunc warn,

void \*ctx);

extern void xmlRelaxNGSetValidStructuredErrors(xmlRelaxNGValidCtxtPtr ctxt,

xmlStructuredErrorFunc

serror, void \*ctx);

extern int xmlRelaxNGValidateDoc(xmlRelaxNGValidCtxtPtr ctxt,

xmlDocPtr doc);

extern int xmlRelaxNGValidateFullElement(xmlRelaxNGValidCtxtPtr ctxt,

xmlDocPtr doc, xmlNodePtr elem);

extern int xmlRelaxNGValidatePopElement(xmlRelaxNGValidCtxtPtr ctxt,

xmlDocPtr doc, xmlNodePtr elem);

extern int xmlRelaxNGValidatePushCData(xmlRelaxNGValidCtxtPtr ctxt,

const xmlChar \* data, int len);

extern int xmlRelaxNGValidatePushElement(xmlRelaxNGValidCtxtPtr ctxt,

xmlDocPtr doc, xmlNodePtr elem);

extern int xmlRelaxParserSetFlag(xmlRelaxNGParserCtxtPtr ctxt, int flag);

### **8.2.17 libxml2/libxml/schematron.h**

typedef struct \_xmlSchematronValidCtxt xmlSchematronValidCtxt;

typedef xmlSchematronValidCtxt \*xmlSchematronValidCtxtPtr;

typedef struct \_xmlSchematron xmlSchematron;

typedef xmlSchematron \*xmlSchematronPtr;

typedef struct \_xmlSchematronParserCtxt xmlSchematronParserCtxt;

typedef xmlSchematronParserCtxt \*xmlSchematronParserCtxtPtr;

typedef enum {

XML\_SCHEMATRON\_OUT\_QUIET = 1 << 0,

XML\_SCHEMATRON\_OUT\_TEXT = 1 << 1,

XML\_SCHEMATRON\_OUT\_XML = 1 << 2,

XML\_SCHEMATRON\_OUT\_FILE = 1 << 8,

XML\_SCHEMATRON\_OUT\_BUFFER = 1 << 9,

XML\_SCHEMATRON\_OUT\_IO = 1 << 10

} xmlSchematronValidOptions;

extern void xmlSchematronFree(xmlSchematronPtr schema);

extern void xmlSchematronFreeParserCtxt(xmlSchematronParserCtxtPtr ctxt);

extern void xmlSchematronFreeValidCtxt(xmlSchematronValidCtxtPtr ctxt);

extern xmlSchematronParserCtxtPtr xmlSchematronNewDocParserCtxt(xmlDocPtr

doc);

extern xmlSchematronParserCtxtPtr xmlSchematronNewMemParserCtxt(const char

\*buffer,

int size);

extern xmlSchematronParserCtxtPtr xmlSchematronNewParserCtxt(const char

\*URL);

extern xmlSchematronValidCtxtPtr xmlSchematronNewValidCtxt(xmlSchematronPtr

schema,

int options);

extern xmlSchematronPtr xmlSchematronParse(xmlSchematronParserCtxtPtr

ctxt);

extern int xmlSchematronValidateDoc(xmlSchematronValidCtxtPtr ctxt,

xmlDocPtr instance);

### **8.2.18 libxml2/libxml/threads.h**

typedef struct \_xmlRMutex xmlRMutex;

typedef xmlRMutex \*xmlRMutexPtr;

typedef struct \_xmlMutex xmlMutex;

typedef xmlMutex \*xmlMutexPtr;

extern void xmlCleanupThreads(void);

extern void xmlFreeMutex(xmlMutexPtr tok);

extern void xmlFreeRMutex(xmlRMutexPtr tok);

extern xmlGlobalStatePtr xmlGetGlobalState(void);

extern int xmlGetThreadId(void);

extern void xmlInitThreads(void);

extern int xmlIsMainThread(void);

extern void xmlLockLibrary(void);

extern void xmlMutexLock(xmlMutexPtr tok);

extern void xmlMutexUnlock(xmlMutexPtr tok);

extern xmlMutexPtr xmlNewMutex(void);

extern xmlRMutexPtr xmlNewRMutex(void);

extern void xmlRMutexLock(xmlRMutexPtr tok);

extern void xmlRMutexUnlock(xmlRMutexPtr tok);

extern void xmlUnlockLibrary(void);

### **8.2.19 libxml2/libxml/tree.h**

#define XML\_GET\_CONTENT(n) \

((n)->type == XML\_ELEMENT\_NODE ? NULL : (n)->content)

#define XML\_XML\_NAMESPACE \

(const xmlChar \*) "http://www.w3.org/XML/1998/namespace"

#define XML\_XML\_ID (const xmlChar \*) "xml:id"

#define XML\_GET\_LINE(n) (xmlGetLineNo(n))

#define BASE\_BUFFER\_SIZE 4096

#define xmlChildrenNode children

#define xmlRootNode children

#define XML\_LOCAL\_NAMESPACE XML\_NAMESPACE\_DECL

typedef enum {

XML\_BUFFER\_ALLOC\_DOUBLEIT = 0,

XML\_BUFFER\_ALLOC\_EXACT = 1,

XML\_BUFFER\_ALLOC\_IMMUTABLE = 2

} xmlBufferAllocationScheme;

typedef struct \_xmlBuffer {

xmlChar \*content;

unsigned int use;

unsigned int size;

xmlBufferAllocationScheme alloc;

} xmlBuffer;

typedef xmlBuffer \*xmlBufferPtr;

typedef enum {

XML\_ELEMENT\_NODE = 1,

XML\_ATTRIBUTE\_NODE = 2,

XML\_TEXT\_NODE = 3,

XML\_CDATA\_SECTION\_NODE = 4,

XML\_ENTITY\_REF\_NODE = 5,

XML\_ENTITY\_NODE = 6,

XML\_PI\_NODE = 7,

XML\_COMMENT\_NODE = 8,

XML\_DOCUMENT\_NODE = 9,

XML\_DOCUMENT\_TYPE\_NODE = 10,

XML\_DOCUMENT\_FRAG\_NODE = 11,

XML\_NOTATION\_NODE = 12,

XML\_HTML\_DOCUMENT\_NODE = 13,

XML\_DTD\_NODE = 14,

XML\_ELEMENT\_DECL = 15,

XML\_ATTRIBUTE\_DECL = 16,

XML\_ENTITY\_DECL = 17,

XML\_NAMESPACE\_DECL = 18,

XML\_XINCLUDE\_START = 19,

XML\_XINCLUDE\_END = 20,

XML\_DOCB\_DOCUMENT\_NODE = 21

} xmlElementType;

typedef xmlElementType xmlNsType;

typedef struct \_xmlNs {

struct \_xmlNs \*next;

xmlNsType type;

const xmlChar \*href;

const xmlChar \*prefix;

void \*\_private;

} xmlNs;

typedef enum {

XML\_ATTRIBUTE\_CDATA = 1,

XML\_ATTRIBUTE\_ID = 2,

XML\_ATTRIBUTE\_IDREF = 3,

XML\_ATTRIBUTE\_IDREFS = 4,

XML\_ATTRIBUTE\_ENTITY = 5,

XML\_ATTRIBUTE\_ENTITIES = 6,

XML\_ATTRIBUTE\_NMTOKEN = 7,

XML\_ATTRIBUTE\_NMTOKENS = 8,

XML\_ATTRIBUTE\_ENUMERATION = 9,

XML\_ATTRIBUTE\_NOTATION = 10

} xmlAttributeType;

typedef struct \_xmlNode {

void \*\_private;

xmlElementType type;

const xmlChar \*name;

struct \_xmlNode \*children;

struct \_xmlNode \*last;

struct \_xmlNode \*parent;

struct \_xmlNode \*next;

struct \_xmlNode \*prev;

struct \_xmlDoc \*doc;

xmlNs \*ns;

xmlChar \*content;

struct \_xmlAttr \*properties;

xmlNs \*nsDef;

void \*psvi;

unsigned short line;

unsigned short extra;

} xmlNode;

typedef xmlNode \*xmlNodePtr;

typedef struct \_xmlDoc {

void \*\_private;

xmlElementType type;

char \*name;

struct \_xmlNode \*children;

struct \_xmlNode \*last;

struct \_xmlNode \*parent;

struct \_xmlNode \*next;

struct \_xmlNode \*prev;

struct \_xmlDoc \*doc;

int compression;

int standalone;

struct \_xmlDtd \*intSubset;

struct \_xmlDtd \*extSubset;

struct \_xmlNs \*oldNs;

const xmlChar \*version;

const xmlChar \*encoding;

void \*ids;

void \*refs;

const xmlChar \*URL;

int charset;

struct \_xmlDict \*dict;

void \*psvi;

} xmlDoc;

typedef xmlDoc \*xmlDocPtr;

typedef xmlNs \*xmlNsPtr;

typedef struct \_xmlDtd {

void \*\_private;

xmlElementType type;

const xmlChar \*name;

struct \_xmlNode \*children;

struct \_xmlNode \*last;

struct \_xmlDoc \*parent;

struct \_xmlNode \*next;

struct \_xmlNode \*prev;

struct \_xmlDoc \*doc;

void \*notations;

void \*elements;

void \*attributes;

void \*entities;

const xmlChar \*ExternalID;

const xmlChar \*SystemID;

void \*pentities;

} xmlDtd;

typedef xmlDtd \*xmlDtdPtr;

typedef struct \_xmlDOMWrapCtxt {

void \*\_private;

} xmlDOMWrapCtxt;

typedef xmlDOMWrapCtxt \*xmlDOMWrapCtxtPtr;

typedef struct \_xmlAttr {

void \*\_private;

xmlElementType type;

const xmlChar \*name;

struct \_xmlNode \*children;

struct \_xmlNode \*last;

struct \_xmlNode \*parent;

struct \_xmlAttr \*next;

struct \_xmlAttr \*prev;

struct \_xmlDoc \*doc;

xmlNs \*ns;

xmlAttributeType atype;

void \*psvi;

} xmlAttr;

typedef xmlAttr \*xmlAttrPtr;

typedef int (\*xmlOutputWriteCallback) (void \*, const char \*, int);

typedef int (\*xmlOutputCloseCallback) (void \*);

typedef int (\*xmlCharEncodingInputFunc) (unsigned char \*, int \*,

const unsigned char \*, int \*);

typedef int (\*xmlCharEncodingOutputFunc) (unsigned char \*, int \*,

const unsigned char \*, int \*);

typedef struct \_xmlCharEncodingHandler {

char \*name;

xmlCharEncodingInputFunc input;

xmlCharEncodingOutputFunc output;

iconv\_t iconv\_in;

iconv\_t iconv\_out;

} xmlCharEncodingHandler;

typedef xmlCharEncodingHandler \*xmlCharEncodingHandlerPtr;

typedef struct \_xmlOutputBuffer {

void \*context;

xmlOutputWriteCallback writecallback;

xmlOutputCloseCallback closecallback;

xmlCharEncodingHandlerPtr encoder;

xmlBufferPtr buffer;

xmlBufferPtr conv;

int written;

int error;

} xmlOutputBuffer;

typedef xmlOutputBuffer \*xmlOutputBufferPtr;

extern xmlNodePtr xmlAddChild(xmlNodePtr parent, xmlNodePtr cur);

extern xmlNodePtr xmlAddChildList(xmlNodePtr parent, xmlNodePtr cur);

extern xmlNodePtr xmlAddNextSibling(xmlNodePtr cur, xmlNodePtr elem);

extern xmlNodePtr xmlAddPrevSibling(xmlNodePtr cur, xmlNodePtr elem);

extern xmlNodePtr xmlAddSibling(xmlNodePtr cur, xmlNodePtr elem);

extern void xmlAttrSerializeTxtContent(xmlBufferPtr buf, xmlDocPtr doc,

xmlAttrPtr attr,

const xmlChar \* string);

extern int xmlBufferAdd(xmlBufferPtr buf, const xmlChar \* str, int len);

extern int xmlBufferAddHead(xmlBufferPtr buf, const xmlChar \* str,

int len);

extern int xmlBufferCCat(xmlBufferPtr buf, const char \*str);

extern int xmlBufferCat(xmlBufferPtr buf, const xmlChar \* str);

extern const xmlChar \*xmlBufferContent(const xmlBufferPtr buf);

extern xmlBufferPtr xmlBufferCreate(void);

extern xmlBufferPtr xmlBufferCreateSize(size\_t size);

extern xmlBufferPtr xmlBufferCreateStatic(void \*mem, size\_t size);

extern int xmlBufferDump(FILE \* file, xmlBufferPtr buf);

extern void xmlBufferEmpty(xmlBufferPtr buf);

extern void xmlBufferFree(xmlBufferPtr buf);

extern int xmlBufferGrow(xmlBufferPtr buf, unsigned int len);

extern int xmlBufferLength(const xmlBufferPtr buf);

extern int xmlBufferResize(xmlBufferPtr buf, unsigned int size);

extern void xmlBufferSetAllocationScheme(xmlBufferPtr buf,

xmlBufferAllocationScheme scheme);

extern int xmlBufferShrink(xmlBufferPtr buf, unsigned int len);

extern void xmlBufferWriteCHAR(xmlBufferPtr buf, const xmlChar \* string);

extern void xmlBufferWriteChar(xmlBufferPtr buf, const char \*string);

extern void xmlBufferWriteQuotedString(xmlBufferPtr buf,

const xmlChar \* string);

extern xmlChar \*xmlBuildQName(const xmlChar \* ncname,

const xmlChar \* prefix, xmlChar \* memory,

int len);

extern xmlDocPtr xmlCopyDoc(xmlDocPtr doc, int recursive);

extern xmlDtdPtr xmlCopyDtd(xmlDtdPtr dtd);

extern xmlNsPtr xmlCopyNamespace(xmlNsPtr cur);

extern xmlNsPtr xmlCopyNamespaceList(xmlNsPtr cur);

extern xmlNodePtr xmlCopyNode(const xmlNodePtr node, int recursive);

extern xmlNodePtr xmlCopyNodeList(const xmlNodePtr node);

extern xmlAttrPtr xmlCopyProp(xmlNodePtr target, xmlAttrPtr cur);

extern xmlAttrPtr xmlCopyPropList(xmlNodePtr target, xmlAttrPtr cur);

extern xmlDtdPtr xmlCreateIntSubset(xmlDocPtr doc, const xmlChar \* name,

const xmlChar \* ExternalID,

const xmlChar \* SystemID);

extern void xmlDOMWrapFreeCtxt(xmlDOMWrapCtxtPtr ctxt);

extern xmlDOMWrapCtxtPtr xmlDOMWrapNewCtxt(void);

extern xmlNodePtr xmlDocCopyNode(const xmlNodePtr node, xmlDocPtr doc,

int recursive);

extern xmlNodePtr xmlDocCopyNodeList(xmlDocPtr doc, const xmlNodePtr node);

extern int xmlDocDump(FILE \* f, xmlDocPtr cur);

extern void xmlDocDumpFormatMemory(xmlDocPtr cur, xmlChar \* \*mem,

int \*size, int format);

extern void xmlDocDumpFormatMemoryEnc(xmlDocPtr out\_doc,

xmlChar \* \*doc\_txt\_ptr,

int \*doc\_txt\_len,

const char \*txt\_encoding,

int format);

extern void xmlDocDumpMemory(xmlDocPtr cur, xmlChar \* \*mem, int \*size);

extern void xmlDocDumpMemoryEnc(xmlDocPtr out\_doc, xmlChar \* \*doc\_txt\_ptr,

int \*doc\_txt\_len,

const char \*txt\_encoding);

extern int xmlDocFormatDump(FILE \* f, xmlDocPtr cur, int format);

extern xmlNodePtr xmlDocGetRootElement(xmlDocPtr doc);

extern xmlNodePtr xmlDocSetRootElement(xmlDocPtr doc, xmlNodePtr root);

extern void xmlElemDump(FILE \* f, xmlDocPtr doc, xmlNodePtr cur);

extern void xmlFreeDoc(xmlDocPtr cur);

extern void xmlFreeDtd(xmlDtdPtr cur);

extern void xmlFreeNode(xmlNodePtr cur);

extern void xmlFreeNodeList(xmlNodePtr cur);

extern void xmlFreeNs(xmlNsPtr cur);

extern void xmlFreeNsList(xmlNsPtr cur);

extern void xmlFreeProp(xmlAttrPtr cur);

extern void xmlFreePropList(xmlAttrPtr cur);

extern xmlBufferAllocationScheme xmlGetBufferAllocationScheme(void);

extern int xmlGetCompressMode(void);

extern int xmlGetDocCompressMode(xmlDocPtr doc);

extern xmlDtdPtr xmlGetIntSubset(xmlDocPtr doc);

extern xmlNodePtr xmlGetLastChild(xmlNodePtr parent);

extern long int xmlGetLineNo(xmlNodePtr node);

extern xmlChar \*xmlGetNoNsProp(xmlNodePtr node, const xmlChar \* name);

extern xmlChar \*xmlGetNodePath(xmlNodePtr node);

extern xmlNsPtr \*xmlGetNsList(xmlDocPtr doc, xmlNodePtr node);

extern xmlChar \*xmlGetNsProp(xmlNodePtr node, const xmlChar \* name,

const xmlChar \* nameSpace);

extern xmlChar \*xmlGetProp(xmlNodePtr node, const xmlChar \* name);

extern xmlAttrPtr xmlHasNsProp(xmlNodePtr node, const xmlChar \* name,

const xmlChar \* nameSpace);

extern xmlAttrPtr xmlHasProp(xmlNodePtr node, const xmlChar \* name);

extern int xmlIsBlankNode(xmlNodePtr node);

extern int xmlIsXHTML(const xmlChar \* systemID, const xmlChar \* publicID);

extern xmlNodePtr xmlNewCDataBlock(xmlDocPtr doc, const xmlChar \* content,

int len);

extern xmlNodePtr xmlNewCharRef(xmlDocPtr doc, const xmlChar \* name);

extern xmlNodePtr xmlNewChild(xmlNodePtr parent, xmlNsPtr ns,

const xmlChar \* name,

const xmlChar \* content);

extern xmlNodePtr xmlNewComment(const xmlChar \* content);

extern xmlDocPtr xmlNewDoc(const xmlChar \* version);

extern xmlNodePtr xmlNewDocComment(xmlDocPtr doc, const xmlChar \* content);

extern xmlNodePtr xmlNewDocFragment(xmlDocPtr doc);

extern xmlNodePtr xmlNewDocNode(xmlDocPtr doc, xmlNsPtr ns,

const xmlChar \* name,

const xmlChar \* content);

extern xmlNodePtr xmlNewDocNodeEatName(xmlDocPtr doc, xmlNsPtr ns,

xmlChar \* name,

const xmlChar \* content);

extern xmlNodePtr xmlNewDocPI(xmlDocPtr doc, const xmlChar \* name,

const xmlChar \* content);

extern xmlAttrPtr xmlNewDocProp(xmlDocPtr doc, const xmlChar \* name,

const xmlChar \* value);

extern xmlNodePtr xmlNewDocRawNode(xmlDocPtr doc, xmlNsPtr ns,

const xmlChar \* name,

const xmlChar \* content);

extern xmlNodePtr xmlNewDocText(xmlDocPtr doc, const xmlChar \* content);

extern xmlNodePtr xmlNewDocTextLen(xmlDocPtr doc, const xmlChar \* content,

int len);

extern xmlDtdPtr xmlNewDtd(xmlDocPtr doc, const xmlChar \* name,

const xmlChar \* ExternalID,

const xmlChar \* SystemID);

extern xmlNodePtr xmlNewNode(xmlNsPtr ns, const xmlChar \* name);

extern xmlNodePtr xmlNewNodeEatName(xmlNsPtr ns, xmlChar \* name);

extern xmlNsPtr xmlNewNs(xmlNodePtr node, const xmlChar \* href,

const xmlChar \* prefix);

extern xmlAttrPtr xmlNewNsProp(xmlNodePtr node, xmlNsPtr ns,

const xmlChar \* name,

const xmlChar \* value);

extern xmlAttrPtr xmlNewNsPropEatName(xmlNodePtr node, xmlNsPtr ns,

xmlChar \* name,

const xmlChar \* value);

extern xmlNodePtr xmlNewPI(const xmlChar \* name, const xmlChar \* content);

extern xmlAttrPtr xmlNewProp(xmlNodePtr node, const xmlChar \* name,

const xmlChar \* value);

extern xmlNodePtr xmlNewReference(xmlDocPtr doc, const xmlChar \* name);

extern xmlNodePtr xmlNewText(const xmlChar \* content);

extern xmlNodePtr xmlNewTextChild(xmlNodePtr parent, xmlNsPtr ns,

const xmlChar \* name,

const xmlChar \* content);

extern xmlNodePtr xmlNewTextLen(const xmlChar \* content, int len);

extern void xmlNodeAddContent(xmlNodePtr cur, const xmlChar \* content);

extern void xmlNodeAddContentLen(xmlNodePtr cur, const xmlChar \* content,

int len);

extern int xmlNodeBufGetContent(xmlBufferPtr buffer, xmlNodePtr cur);

extern int xmlNodeDump(xmlBufferPtr buf, xmlDocPtr doc, xmlNodePtr cur,

int level, int format);

extern void xmlNodeDumpOutput(xmlOutputBufferPtr buf, xmlDocPtr doc,

xmlNodePtr cur, int level, int format,

const char \*encoding);

extern xmlChar \*xmlNodeGetBase(xmlDocPtr doc, xmlNodePtr cur);

extern xmlChar \*xmlNodeGetContent(xmlNodePtr cur);

extern xmlChar \*xmlNodeGetLang(xmlNodePtr cur);

extern int xmlNodeGetSpacePreserve(xmlNodePtr cur);

extern int xmlNodeIsText(xmlNodePtr node);

extern xmlChar \*xmlNodeListGetRawString(xmlDocPtr doc, xmlNodePtr list,

int inLine);

extern xmlChar \*xmlNodeListGetString(xmlDocPtr doc, xmlNodePtr list,

int inLine);

extern void xmlNodeSetBase(xmlNodePtr cur, const xmlChar \* uri);

extern void xmlNodeSetContent(xmlNodePtr cur, const xmlChar \* content);

extern void xmlNodeSetContentLen(xmlNodePtr cur, const xmlChar \* content,

int len);

extern void xmlNodeSetLang(xmlNodePtr cur, const xmlChar \* lang);

extern void xmlNodeSetName(xmlNodePtr cur, const xmlChar \* name);

extern void xmlNodeSetSpacePreserve(xmlNodePtr cur, int val);

extern int xmlReconciliateNs(xmlDocPtr doc, xmlNodePtr tree);

extern int xmlRemoveProp(xmlAttrPtr cur);

extern xmlNodePtr xmlReplaceNode(xmlNodePtr old, xmlNodePtr cur);

extern int xmlSaveFile(const char \*filename, xmlDocPtr cur);

extern int xmlSaveFileEnc(const char \*filename, xmlDocPtr cur,

const char \*encoding);

extern int xmlSaveFileTo(xmlOutputBufferPtr buf, xmlDocPtr cur,

const char \*encoding);

extern int xmlSaveFormatFile(const char \*filename, xmlDocPtr cur,

int format);

extern int xmlSaveFormatFileEnc(const char \*filename, xmlDocPtr cur,

const char \*encoding, int format);

extern int xmlSaveFormatFileTo(xmlOutputBufferPtr buf, xmlDocPtr cur,

const char \*encoding, int format);

extern xmlNsPtr xmlSearchNs(xmlDocPtr doc, xmlNodePtr node,

const xmlChar \* nameSpace);

extern xmlNsPtr xmlSearchNsByHref(xmlDocPtr doc, xmlNodePtr node,

const xmlChar \* href);

extern void xmlSetBufferAllocationScheme(xmlBufferAllocationScheme scheme);

extern void xmlSetCompressMode(int mode);

extern void xmlSetDocCompressMode(xmlDocPtr doc, int mode);

extern void xmlSetListDoc(xmlNodePtr list, xmlDocPtr doc);

extern void xmlSetNs(xmlNodePtr node, xmlNsPtr ns);

extern xmlAttrPtr xmlSetNsProp(xmlNodePtr node, xmlNsPtr ns,

const xmlChar \* name,

const xmlChar \* value);

extern xmlAttrPtr xmlSetProp(xmlNodePtr node, const xmlChar \* name,

const xmlChar \* value);

extern void xmlSetTreeDoc(xmlNodePtr tree, xmlDocPtr doc);

extern xmlChar \*xmlSplitQName2(const xmlChar \* name, xmlChar \* \*prefix);

extern const xmlChar \*xmlSplitQName3(const xmlChar \* name, int \*len);

extern xmlNodePtr xmlStringGetNodeList(xmlDocPtr doc,

const xmlChar \* value);

extern xmlNodePtr xmlStringLenGetNodeList(xmlDocPtr doc,

const xmlChar \* value, int len);

extern int xmlTextConcat(xmlNodePtr node, const xmlChar \* content,

int len);

extern xmlNodePtr xmlTextMerge(xmlNodePtr first, xmlNodePtr second);

extern void xmlUnlinkNode(xmlNodePtr cur);

extern int xmlUnsetNsProp(xmlNodePtr node, xmlNsPtr ns,

const xmlChar \* name);

extern int xmlUnsetProp(xmlNodePtr node, const xmlChar \* name);

extern int xmlValidateNCName(const xmlChar \* value, int space);

extern int xmlValidateNMToken(const xmlChar \* value, int space);

extern int xmlValidateName(const xmlChar \* value, int space);

extern int xmlValidateQName(const xmlChar \* value, int space);

### **8.2.20 libxml2/libxml/uri.h**

typedef struct \_xmlURI {

char \*scheme;

char \*opaque;

char \*authority;

char \*server;

char \*user;

int port;

char \*path;

char \*query;

char \*fragment;

int cleanup;

} xmlURI;

typedef xmlURI \*xmlURIPtr;

extern xmlChar \*xmlBuildRelativeURI(const xmlChar \* URI,

const xmlChar \* base);

extern xmlChar \*xmlBuildURI(const xmlChar \* URI, const xmlChar \* base);

extern xmlChar \*xmlCanonicPath(const xmlChar \* path);

extern xmlURIPtr xmlCreateURI(void);

extern void xmlFreeURI(xmlURIPtr uri);

extern int xmlNormalizeURIPath(char \*path);

extern xmlURIPtr xmlParseURI(const char \*str);

extern xmlURIPtr xmlParseURIRaw(const char \*str, int raw);

extern int xmlParseURIReference(xmlURIPtr uri, const char \*str);

extern void xmlPrintURI(FILE \* stream, xmlURIPtr uri);

extern xmlChar \*xmlSaveUri(xmlURIPtr uri);

extern xmlChar \*xmlURIEscape(const xmlChar \* str);

extern xmlChar \*xmlURIEscapeStr(const xmlChar \* str, const xmlChar \* list);

extern char \*xmlURIUnescapeString(const char \*str, int len, char \*target);

### **8.2.21 libxml2/libxml/valid.h**

typedef xmlValidCtxt \*xmlValidCtxtPtr;

typedef struct \_xmlHashTable xmlAttributeTable;

typedef xmlAttributeTable \*xmlAttributeTablePtr;

typedef enum {

XML\_ELEMENT\_TYPE\_UNDEFINED = 0,

XML\_ELEMENT\_TYPE\_EMPTY = 1,

XML\_ELEMENT\_TYPE\_ANY = 2,

XML\_ELEMENT\_TYPE\_MIXED = 3,

XML\_ELEMENT\_TYPE\_ELEMENT = 4

} xmlElementTypeVal;

typedef enum {

XML\_ATTRIBUTE\_NONE = 1,

XML\_ATTRIBUTE\_REQUIRED = 2,

XML\_ATTRIBUTE\_IMPLIED = 3,

XML\_ATTRIBUTE\_FIXED = 4

} xmlAttributeDefault;

typedef struct \_xmlAttribute {

void \*\_private;

xmlElementType type;

const xmlChar \*name;

struct \_xmlNode \*children;

struct \_xmlNode \*last;

struct \_xmlDtd \*parent;

struct \_xmlNode \*next;

struct \_xmlNode \*prev;

struct \_xmlDoc \*doc;

struct \_xmlAttribute \*nexth;

xmlAttributeType atype;

xmlAttributeDefault def;

const xmlChar \*defaultValue;

xmlEnumerationPtr tree;

const xmlChar \*prefix;

const xmlChar \*elem;

} xmlAttribute;

typedef xmlAttribute \*xmlAttributePtr;

typedef struct \_xmlElement {

void \*\_private;

xmlElementType type;

const xmlChar \*name;

struct \_xmlNode \*children;

struct \_xmlNode \*last;

struct \_xmlDtd \*parent;

struct \_xmlNode \*next;

struct \_xmlNode \*prev;

struct \_xmlDoc \*doc;

xmlElementTypeVal etype;

xmlElementContentPtr content;

xmlAttributePtr attributes;

const xmlChar \*prefix;

xmlRegexpPtr contModel;

} xmlElement;

typedef xmlElement \*xmlElementPtr;

typedef struct \_xmlHashTable xmlNotationTable;

typedef xmlNotationTable \*xmlNotationTablePtr;

typedef struct \_xmlNotation {

const xmlChar \*name;

const xmlChar \*PublicID;

const xmlChar \*SystemID;

} xmlNotation;

typedef xmlNotation \*xmlNotationPtr;

typedef struct \_xmlID {

struct \_xmlID \*next;

const xmlChar \*value;

xmlAttrPtr attr;

const xmlChar \*name;

int lineno;

struct \_xmlDoc \*doc;

} xmlID;

typedef xmlID \*xmlIDPtr;

typedef struct \_xmlRef {

struct \_xmlRef \*next;

const xmlChar \*value;

xmlAttrPtr attr;

const xmlChar \*name;

int lineno;

} xmlRef;

typedef xmlRef \*xmlRefPtr;

typedef struct \_xmlHashTable xmlElementTable;

typedef xmlElementTable \*xmlElementTablePtr;

typedef struct \_xmlHashTable xmlIDTable;

typedef xmlIDTable \*xmlIDTablePtr;

typedef struct \_xmlHashTable xmlRefTable;

typedef xmlRefTable \*xmlRefTablePtr;

extern xmlAttributePtr xmlAddAttributeDecl(xmlValidCtxtPtr, xmlDtdPtr,

const xmlChar \*,

const xmlChar \*,

const xmlChar \*,

xmlAttributeType,

xmlAttributeDefault,

const xmlChar \*,

xmlEnumerationPtr);

extern xmlElementPtr xmlAddElementDecl(xmlValidCtxtPtr, xmlDtdPtr,

const xmlChar \*, xmlElementTypeVal,

xmlElementContentPtr);

extern xmlIDPtr xmlAddID(xmlValidCtxtPtr, xmlDocPtr, const xmlChar \*,

xmlAttrPtr);

extern xmlNotationPtr xmlAddNotationDecl(xmlValidCtxtPtr, xmlDtdPtr,

const xmlChar \*, const xmlChar \*,

const xmlChar \*);

extern xmlRefPtr xmlAddRef(xmlValidCtxtPtr, xmlDocPtr, const xmlChar \*,

xmlAttrPtr);

extern xmlAttributeTablePtr xmlCopyAttributeTable(xmlAttributeTablePtr);

extern xmlElementContentPtr xmlCopyDocElementContent(xmlDocPtr,

xmlElementContentPtr);

extern xmlElementTablePtr xmlCopyElementTable(xmlElementTablePtr);

extern xmlEnumerationPtr xmlCopyEnumeration(xmlEnumerationPtr);

extern xmlNotationTablePtr xmlCopyNotationTable(xmlNotationTablePtr);

extern xmlEnumerationPtr xmlCreateEnumeration(const xmlChar \*);

extern void xmlDumpAttributeDecl(xmlBufferPtr, xmlAttributePtr);

extern void xmlDumpAttributeTable(xmlBufferPtr, xmlAttributeTablePtr);

extern void xmlDumpElementDecl(xmlBufferPtr, xmlElementPtr);

extern void xmlDumpElementTable(xmlBufferPtr, xmlElementTablePtr);

extern void xmlDumpNotationDecl(xmlBufferPtr, xmlNotationPtr);

extern void xmlDumpNotationTable(xmlBufferPtr, xmlNotationTablePtr);

extern void xmlFreeAttributeTable(xmlAttributeTablePtr);

extern void xmlFreeDocElementContent(xmlDocPtr, xmlElementContentPtr);

extern void xmlFreeElementTable(xmlElementTablePtr);

extern void xmlFreeEnumeration(xmlEnumerationPtr);

extern void xmlFreeIDTable(xmlIDTablePtr);

extern void xmlFreeNotationTable(xmlNotationTablePtr);

extern void xmlFreeRefTable(xmlRefTablePtr);

extern void xmlFreeValidCtxt(xmlValidCtxtPtr);

extern xmlAttributePtr xmlGetDtdAttrDesc(xmlDtdPtr, const xmlChar \*,

const xmlChar \*);

extern xmlElementPtr xmlGetDtdElementDesc(xmlDtdPtr, const xmlChar \*);

extern xmlNotationPtr xmlGetDtdNotationDesc(xmlDtdPtr, const xmlChar \*);

extern xmlAttributePtr xmlGetDtdQAttrDesc(xmlDtdPtr, const xmlChar \*,

const xmlChar \*,

const xmlChar \*);

extern xmlElementPtr xmlGetDtdQElementDesc(xmlDtdPtr, const xmlChar \*,

const xmlChar \*);

extern xmlAttrPtr xmlGetID(xmlDocPtr, const xmlChar \*);

extern xmlListPtr xmlGetRefs(xmlDocPtr, const xmlChar \*);

extern int xmlIsID(xmlDocPtr, xmlNodePtr, xmlAttrPtr);

extern int xmlIsMixedElement(xmlDocPtr, const xmlChar \*);

extern int xmlIsRef(xmlDocPtr, xmlNodePtr, xmlAttrPtr);

extern xmlElementContentPtr xmlNewDocElementContent(xmlDocPtr,

const xmlChar \*,

xmlElementContentType);

extern xmlValidCtxtPtr xmlNewValidCtxt(void);

extern int xmlRemoveID(xmlDocPtr, xmlAttrPtr);

extern int xmlRemoveRef(xmlDocPtr, xmlAttrPtr);

extern void xmlSnprintfElementContent(char \*, int, xmlElementContentPtr,

int);

extern int xmlValidBuildContentModel(xmlValidCtxtPtr, xmlElementPtr);

extern xmlChar \*xmlValidCtxtNormalizeAttributeValue(xmlValidCtxtPtr,

xmlDocPtr, xmlNodePtr,

const xmlChar \*,

const xmlChar \*);

extern int xmlValidGetPotentialChildren(xmlElementContent \*,

const xmlChar \* \*, int \*, int);

extern int xmlValidGetValidElements(xmlNode \*, xmlNode \*,

const xmlChar \* \*, int);

extern xmlChar \*xmlValidNormalizeAttributeValue(xmlDocPtr, xmlNodePtr,

const xmlChar \*,

const xmlChar \*);

extern int xmlValidateAttributeDecl(xmlValidCtxtPtr, xmlDocPtr,

xmlAttributePtr);

extern int xmlValidateAttributeValue(xmlAttributeType, const xmlChar \*);

extern int xmlValidateDocument(xmlValidCtxtPtr, xmlDocPtr);

extern int xmlValidateDocumentFinal(xmlValidCtxtPtr, xmlDocPtr);

extern int xmlValidateDtd(xmlValidCtxtPtr, xmlDocPtr, xmlDtdPtr);

extern int xmlValidateDtdFinal(xmlValidCtxtPtr, xmlDocPtr);

extern int xmlValidateElement(xmlValidCtxtPtr, xmlDocPtr, xmlNodePtr);

extern int xmlValidateElementDecl(xmlValidCtxtPtr, xmlDocPtr,

xmlElementPtr);

extern int xmlValidateNameValue(const xmlChar \*);

extern int xmlValidateNamesValue(const xmlChar \*);

extern int xmlValidateNmtokenValue(const xmlChar \*);

extern int xmlValidateNmtokensValue(const xmlChar \*);

extern int xmlValidateNotationDecl(xmlValidCtxtPtr, xmlDocPtr,

xmlNotationPtr);

extern int xmlValidateNotationUse(xmlValidCtxtPtr, xmlDocPtr,

const xmlChar \*);

extern int xmlValidateOneAttribute(xmlValidCtxtPtr, xmlDocPtr, xmlNodePtr,

xmlAttrPtr, const xmlChar \*);

extern int xmlValidateOneElement(xmlValidCtxtPtr, xmlDocPtr, xmlNodePtr);

extern int xmlValidateOneNamespace(xmlValidCtxtPtr, xmlDocPtr, xmlNodePtr,

const xmlChar \*, xmlNsPtr,

const xmlChar \*);

extern int xmlValidatePopElement(xmlValidCtxtPtr, xmlDocPtr, xmlNodePtr,

const xmlChar \*);

extern int xmlValidatePushCData(xmlValidCtxtPtr, const xmlChar \*, int);

extern int xmlValidatePushElement(xmlValidCtxtPtr, xmlDocPtr, xmlNodePtr,

const xmlChar \*);

extern int xmlValidateRoot(xmlValidCtxtPtr, xmlDocPtr);

### **8.2.22 libxml2/libxml/xinclude.h**

#define XINCLUDE\_PARSE\_ENCODING (const xmlChar \*) "encoding"

#define XINCLUDE\_FALLBACK (const xmlChar \*) "fallback"

#define XINCLUDE\_HREF (const xmlChar \*) "href"

#define XINCLUDE\_OLD\_NS (const xmlChar \*) "http://www.w3.org/2001/XInclude"

#define XINCLUDE\_NS (const xmlChar \*) "http://www.w3.org/2003/XInclude"

#define XINCLUDE\_NODE (const xmlChar \*) "include"

#define XINCLUDE\_PARSE (const xmlChar \*) "parse"

#define XINCLUDE\_PARSE\_TEXT (const xmlChar \*) "text"

#define XINCLUDE\_PARSE\_XML (const xmlChar \*) "xml"

#define XINCLUDE\_PARSE\_XPOINTER (const xmlChar \*) "xpointer"

typedef struct \_xmlXIncludeCtxt xmlXIncludeCtxt;

typedef xmlXIncludeCtxt \*xmlXIncludeCtxtPtr;

extern void xmlXIncludeFreeContext(xmlXIncludeCtxtPtr ctxt);

extern xmlXIncludeCtxtPtr xmlXIncludeNewContext(xmlDocPtr doc);

extern int xmlXIncludeProcess(xmlDocPtr doc);

extern int xmlXIncludeProcessFlags(xmlDocPtr doc, int flags);

extern int xmlXIncludeProcessNode(xmlXIncludeCtxtPtr ctxt,

xmlNodePtr tree);

extern int xmlXIncludeProcessTree(xmlNodePtr tree);

extern int xmlXIncludeProcessTreeFlags(xmlNodePtr tree, int flags);

extern int xmlXIncludeSetFlags(xmlXIncludeCtxtPtr ctxt, int flags);

### **8.2.23 libxml2/libxml/xmlIO.h**

typedef int (\*xmlOutputMatchCallback) (const char \*);

typedef void \*(\*xmlOutputOpenCallback) (const char \*);

typedef struct \_xmlParserNodeInfo {

const struct \_xmlNode \*node;

long unsigned int begin\_pos;

long unsigned int begin\_line;

long unsigned int end\_pos;

long unsigned int end\_line;

} xmlParserNodeInfo;

typedef struct \_xmlParserNodeInfoSeq {

long unsigned int maximum;

long unsigned int length;

xmlParserNodeInfo \*buffer;

} xmlParserNodeInfoSeq;

typedef void (\*xmlValidityErrorFunc) (void \*, const char \*, ...);

typedef void (\*xmlValidityWarningFunc) (void \*, const char \*, ...);

typedef struct \_xmlValidState xmlValidState;

typedef struct \_xmlValidCtxt {

void \*userData;

xmlValidityErrorFunc error;

xmlValidityWarningFunc warning;

xmlNodePtr node;

int nodeNr;

int nodeMax;

xmlNodePtr \*nodeTab;

unsigned int finishDtd;

xmlDocPtr doc;

int valid;

xmlValidState \*vstate;

int vstateNr;

int vstateMax;

xmlValidState \*vstateTab;

xmlAutomataPtr am;

xmlAutomataStatePtr state;

} xmlValidCtxt;

typedef enum {

XML\_PARSER\_EOF = -1,

XML\_PARSER\_START = 0,

XML\_PARSER\_MISC = 1,

XML\_PARSER\_PI = 2,

XML\_PARSER\_DTD = 3,

XML\_PARSER\_PROLOG = 4,

XML\_PARSER\_COMMENT = 5,

XML\_PARSER\_START\_TAG = 6,

XML\_PARSER\_CONTENT = 7,

XML\_PARSER\_CDATA\_SECTION = 8,

XML\_PARSER\_END\_TAG = 9,

XML\_PARSER\_ENTITY\_DECL = 10,

XML\_PARSER\_ENTITY\_VALUE = 11,

XML\_PARSER\_ATTRIBUTE\_VALUE = 12,

XML\_PARSER\_SYSTEM\_LITERAL = 13,

XML\_PARSER\_EPILOG = 14,

XML\_PARSER\_IGNORE = 15,

XML\_PARSER\_PUBLIC\_LITERAL = 16

} xmlParserInputState;

typedef enum {

XML\_PARSE\_UNKNOWN = 0,

XML\_PARSE\_DOM = 1,

XML\_PARSE\_SAX = 2,

XML\_PARSE\_PUSH\_DOM = 3,

XML\_PARSE\_PUSH\_SAX = 4,

XML\_PARSE\_READER = 5

} xmlParserMode;

typedef struct \_xmlParserCtxt {

struct \_xmlSAXHandler \*sax;

void \*userData;

xmlDocPtr myDoc;

int wellFormed;

int replaceEntities;

const xmlChar \*version;

const xmlChar \*encoding;

int standalone;

int html;

xmlParserInputPtr input;

int inputNr;

int inputMax;

xmlParserInputPtr \*inputTab;

xmlNodePtr node;

int nodeNr;

int nodeMax;

xmlNodePtr \*nodeTab;

int record\_info;

xmlParserNodeInfoSeq node\_seq;

int errNo;

int hasExternalSubset;

int hasPErefs;

int external;

int valid;

int validate;

xmlValidCtxt vctxt;

xmlParserInputState instate;

int token;

char \*directory;

const xmlChar \*name;

int nameNr;

int nameMax;

const xmlChar \*\*nameTab;

long int nbChars;

long int checkIndex;

int keepBlanks;

int disableSAX;

int inSubset;

const xmlChar \*intSubName;

xmlChar \*extSubURI;

xmlChar \*extSubSystem;

int \*space;

int spaceNr;

int spaceMax;

int \*spaceTab;

int depth;

xmlParserInputPtr entity;

int charset;

int nodelen;

int nodemem;

int pedantic;

void \*\_private;

int loadsubset;

int linenumbers;

void \*catalogs;

int recovery;

int progressive;

xmlDictPtr dict;

const xmlChar \*\*atts;

int maxatts;

int docdict;

const xmlChar \*str\_xml;

const xmlChar \*str\_xmlns;

const xmlChar \*str\_xml\_ns;

int sax2;

int nsNr;

int nsMax;

const xmlChar \*\*nsTab;

int \*attallocs;

void \*\*pushTab;

xmlHashTablePtr attsDefault;

xmlHashTablePtr attsSpecial;

int nsWellFormed;

int options;

int dictNames;

int freeElemsNr;

xmlNodePtr freeElems;

int freeAttrsNr;

xmlAttrPtr freeAttrs;

xmlError lastError;

xmlParserMode parseMode;

} xmlParserCtxt;

typedef xmlParserCtxt \*xmlParserCtxtPtr;

typedef int (\*xmlInputMatchCallback) (const char \*);

typedef void \*(\*xmlInputOpenCallback) (const char \*);

extern xmlOutputBufferPtr xmlAllocOutputBuffer(xmlCharEncodingHandlerPtr

encoder);

extern xmlParserInputBufferPtr xmlAllocParserInputBuffer(xmlCharEncoding

enc);

extern int xmlCheckFilename(const char \*path);

extern xmlParserInputPtr xmlCheckHTTPInput(xmlParserCtxtPtr ctxt,

xmlParserInputPtr ret);

extern void xmlCleanupInputCallbacks(void);

extern void xmlCleanupOutputCallbacks(void);

extern int xmlFileClose(void \*context);

extern int xmlFileMatch(const char \*filename);

extern void \*xmlFileOpen(const char \*filename);

extern int xmlFileRead(void \*context, char \*buffer, int len);

extern void xmlFreeParserInputBuffer(xmlParserInputBufferPtr in);

extern int xmlIOFTPClose(void \*context);

extern int xmlIOFTPMatch(const char \*filename);

extern void \*xmlIOFTPOpen(const char \*filename);

extern int xmlIOFTPRead(void \*context, char \*buffer, int len);

extern int xmlIOHTTPClose(void \*context);

extern int xmlIOHTTPMatch(const char \*filename);

extern void \*xmlIOHTTPOpen(const char \*filename);

extern void \*xmlIOHTTPOpenW(const char \*post\_uri, int compression);

extern int xmlIOHTTPRead(void \*context, char \*buffer, int len);

extern xmlParserInputPtr xmlNoNetExternalEntityLoader(const char \*URL,

const char \*ID,

xmlParserCtxtPtr

ctxt);

extern xmlChar \*xmlNormalizeWindowsPath(const xmlChar \* path);

extern int xmlOutputBufferClose(xmlOutputBufferPtr out);

extern xmlOutputBufferPtr xmlOutputBufferCreateFd(int fd,

xmlCharEncodingHandlerPtr

encoder);

extern xmlOutputBufferPtr xmlOutputBufferCreateFile(FILE \* file,

xmlCharEncodingHandlerPtr

encoder);

extern xmlOutputBufferPtr xmlOutputBufferCreateFilename(const char \*URI,

xmlCharEncodingHandlerPtr

encoder,

int compression);

extern xmlOutputBufferPtr xmlOutputBufferCreateIO(xmlOutputWriteCallback

iowrite,

xmlOutputCloseCallback

ioclose, void \*ioctx,

xmlCharEncodingHandlerPtr

encoder);

extern int xmlOutputBufferFlush(xmlOutputBufferPtr out);

extern int xmlOutputBufferWrite(xmlOutputBufferPtr out, int len,

const char \*buf);

extern int xmlOutputBufferWriteEscape(xmlOutputBufferPtr out,

const xmlChar \* str,

xmlCharEncodingOutputFunc escaping);

extern int xmlOutputBufferWriteString(xmlOutputBufferPtr out,

const char \*str);

extern char \*xmlParserGetDirectory(const char \*filename);

extern xmlParserInputBufferPtr xmlParserInputBufferCreateFd(int fd,

xmlCharEncoding

enc);

extern xmlParserInputBufferPtr xmlParserInputBufferCreateFile(FILE \* file,

xmlCharEncoding

enc);

extern xmlParserInputBufferPtr

xmlParserInputBufferCreateIO(xmlInputReadCallback ioread,

xmlInputCloseCallback ioclose, void \*ioctx,

xmlCharEncoding enc);

extern xmlParserInputBufferPtr xmlParserInputBufferCreateMem(const char

\*mem,

int size,

xmlCharEncoding

enc);

extern xmlParserInputBufferPtr xmlParserInputBufferCreateStatic(const char

\*mem,

int size,

xmlCharEncoding

enc);

extern int xmlParserInputBufferGrow(xmlParserInputBufferPtr in, int len);

extern int xmlParserInputBufferPush(xmlParserInputBufferPtr in, int len,

const char \*buf);

extern int xmlParserInputBufferRead(xmlParserInputBufferPtr in, int len);

extern int xmlPopInputCallbacks(void);

extern void xmlRegisterDefaultInputCallbacks(void);

extern void xmlRegisterDefaultOutputCallbacks(void);

extern void xmlRegisterHTTPPostCallbacks(void);

extern int xmlRegisterInputCallbacks(xmlInputMatchCallback matchFunc,

xmlInputOpenCallback openFunc,

xmlInputReadCallback readFunc,

xmlInputCloseCallback closeFunc);

extern int xmlRegisterOutputCallbacks(xmlOutputMatchCallback matchFunc,

xmlOutputOpenCallback openFunc,

xmlOutputWriteCallback writeFunc,

xmlOutputCloseCallback closeFunc);

### **8.2.24 libxml2/libxml/xmlautomata.h**

typedef struct \_xmlAutomataState xmlAutomataState;

typedef xmlAutomataState \*xmlAutomataStatePtr;

typedef struct \_xmlAutomata xmlAutomata;

typedef xmlAutomata \*xmlAutomataPtr;

extern xmlRegexpPtr xmlAutomataCompile(xmlAutomataPtr);

extern xmlAutomataStatePtr xmlAutomataGetInitState(xmlAutomataPtr);

extern int xmlAutomataIsDeterminist(xmlAutomataPtr);

extern xmlAutomataStatePtr xmlAutomataNewAllTrans(xmlAutomataPtr,

xmlAutomataStatePtr,

xmlAutomataStatePtr,

int);

extern xmlAutomataStatePtr xmlAutomataNewCountTrans(xmlAutomataPtr,

xmlAutomataStatePtr,

xmlAutomataStatePtr,

const xmlChar \*, int,

int, void \*);

extern xmlAutomataStatePtr xmlAutomataNewCountTrans2(xmlAutomataPtr,

xmlAutomataStatePtr,

xmlAutomataStatePtr,

const xmlChar \*,

const xmlChar \*, int,

int, void \*);

extern xmlAutomataStatePtr xmlAutomataNewCountedTrans(xmlAutomataPtr,

xmlAutomataStatePtr,

xmlAutomataStatePtr,

int);

extern int xmlAutomataNewCounter(xmlAutomataPtr, int, int);

extern xmlAutomataStatePtr xmlAutomataNewCounterTrans(xmlAutomataPtr,

xmlAutomataStatePtr,

xmlAutomataStatePtr,

int);

extern xmlAutomataStatePtr xmlAutomataNewEpsilon(xmlAutomataPtr,

xmlAutomataStatePtr,

xmlAutomataStatePtr);

extern xmlAutomataStatePtr xmlAutomataNewNegTrans(xmlAutomataPtr,

xmlAutomataStatePtr,

xmlAutomataStatePtr,

const xmlChar \*,

const xmlChar \*, void \*);

extern xmlAutomataStatePtr xmlAutomataNewOnceTrans(xmlAutomataPtr,

xmlAutomataStatePtr,

xmlAutomataStatePtr,

const xmlChar \*, int,

int, void \*);

extern xmlAutomataStatePtr xmlAutomataNewOnceTrans2(xmlAutomataPtr,

xmlAutomataStatePtr,

xmlAutomataStatePtr,

const xmlChar \*,

const xmlChar \*, int,

int, void \*);

extern xmlAutomataStatePtr xmlAutomataNewState(xmlAutomataPtr);

extern xmlAutomataStatePtr xmlAutomataNewTransition(xmlAutomataPtr,

xmlAutomataStatePtr,

xmlAutomataStatePtr,

const xmlChar \*,

void \*);

extern xmlAutomataStatePtr xmlAutomataNewTransition2(xmlAutomataPtr,

xmlAutomataStatePtr,

xmlAutomataStatePtr,

const xmlChar \*,

const xmlChar \*,

void \*);

extern int xmlAutomataSetFinalState(xmlAutomataPtr, xmlAutomataStatePtr);

extern void xmlFreeAutomata(xmlAutomataPtr);

extern xmlAutomataPtr xmlNewAutomata(void);

### **8.2.25 libxml2/libxml/xmlerror.h**

typedef int (\*xmlInputReadCallback) (void \*, char \*, int);

typedef int (\*xmlInputCloseCallback) (void \*);

typedef struct \_xmlParserInputBuffer {

void \*context;

xmlInputReadCallback readcallback;

xmlInputCloseCallback closecallback;

xmlCharEncodingHandlerPtr encoder;

xmlBufferPtr buffer;

xmlBufferPtr raw;

int compressed;

int error;

long unsigned int rawconsumed;

} xmlParserInputBuffer;

typedef xmlParserInputBuffer \*xmlParserInputBufferPtr;

typedef void (\*xmlParserInputDeallocate) (xmlChar \*);

typedef struct \_xmlParserInput {

xmlParserInputBufferPtr buf;

const char \*filename;

const char \*directory;

const xmlChar \*base;

const xmlChar \*cur;

const xmlChar \*end;

int length;

int line;

int col;

long unsigned int consumed;

xmlParserInputDeallocate free;

const xmlChar \*encoding;

const xmlChar \*version;

int standalone;

int id;

} xmlParserInput;

typedef xmlParserInput \*xmlParserInputPtr;

typedef void (\*xmlGenericErrorFunc) (void \*, const char \*, ...);

typedef enum {

XML\_ERR\_NONE = 0,

XML\_ERR\_WARNING = 1,

XML\_ERR\_ERROR = 2,

XML\_ERR\_FATAL = 3

} xmlErrorLevel;

typedef struct \_xmlError {

int domain;

int code;

char \*message;

xmlErrorLevel level;

char \*file;

int line;

char \*str1;

char \*str2;

char \*str3;

int int1;

int int2;

void \*ctxt;

void \*node;

} xmlError;

typedef xmlError \*xmlErrorPtr;

typedef void (\*xmlStructuredErrorFunc) (void \*, xmlErrorPtr);

typedef enum {

XML\_FROM\_NONE = 0,

XML\_FROM\_PARSER,

XML\_FROM\_TREE,

XML\_FROM\_NAMESPACE,

XML\_FROM\_DTD,

XML\_FROM\_HTML,

XML\_FROM\_MEMORY,

XML\_FROM\_OUTPUT,

XML\_FROM\_IO,

XML\_FROM\_FTP,

XML\_FROM\_HTTP,

XML\_FROM\_XINCLUDE,

XML\_FROM\_XPATH,

XML\_FROM\_XPOINTER,

XML\_FROM\_REGEXP,

XML\_FROM\_DATATYPE,

XML\_FROM\_SCHEMASP,

XML\_FROM\_SCHEMASV,

XML\_FROM\_RELAXNGP,

XML\_FROM\_RELAXNGV,

XML\_FROM\_CATALOG,

XML\_FROM\_C14N,

XML\_FROM\_XSLT,

XML\_FROM\_VALID,

XML\_FROM\_CHECK,

XML\_FROM\_WRITER,

XML\_FROM\_MODULE,

XML\_FROM\_I18N

} xmlErrorDomain;

typedef enum {

XML\_ERR\_OK = 0,

XML\_ERR\_INTERNAL\_ERROR,

XML\_ERR\_NO\_MEMORY,

XML\_ERR\_DOCUMENT\_START,

XML\_ERR\_DOCUMENT\_EMPTY,

XML\_ERR\_DOCUMENT\_END,

XML\_ERR\_INVALID\_HEX\_CHARREF,

XML\_ERR\_INVALID\_DEC\_CHARREF,

XML\_ERR\_INVALID\_CHARREF,

XML\_ERR\_INVALID\_CHAR,

XML\_ERR\_CHARREF\_AT\_EOF,

XML\_ERR\_CHARREF\_IN\_PROLOG,

XML\_ERR\_CHARREF\_IN\_EPILOG,

XML\_ERR\_CHARREF\_IN\_DTD,

XML\_ERR\_ENTITYREF\_AT\_EOF,

XML\_ERR\_ENTITYREF\_IN\_PROLOG,

XML\_ERR\_ENTITYREF\_IN\_EPILOG,

XML\_ERR\_ENTITYREF\_IN\_DTD,

XML\_ERR\_PEREF\_AT\_EOF,

XML\_ERR\_PEREF\_IN\_PROLOG,

XML\_ERR\_PEREF\_IN\_EPILOG,

XML\_ERR\_PEREF\_IN\_INT\_SUBSET,

XML\_ERR\_ENTITYREF\_NO\_NAME,

XML\_ERR\_ENTITYREF\_SEMICOL\_MISSING,

XML\_ERR\_PEREF\_NO\_NAME,

XML\_ERR\_PEREF\_SEMICOL\_MISSING,

XML\_ERR\_UNDECLARED\_ENTITY,

XML\_WAR\_UNDECLARED\_ENTITY,

XML\_ERR\_UNPARSED\_ENTITY,

XML\_ERR\_ENTITY\_IS\_EXTERNAL,

XML\_ERR\_ENTITY\_IS\_PARAMETER,

XML\_ERR\_UNKNOWN\_ENCODING,

XML\_ERR\_UNSUPPORTED\_ENCODING,

XML\_ERR\_STRING\_NOT\_STARTED,

XML\_ERR\_STRING\_NOT\_CLOSED,

XML\_ERR\_NS\_DECL\_ERROR,

XML\_ERR\_ENTITY\_NOT\_STARTED,

XML\_ERR\_ENTITY\_NOT\_FINISHED,

XML\_ERR\_LT\_IN\_ATTRIBUTE,

XML\_ERR\_ATTRIBUTE\_NOT\_STARTED,

XML\_ERR\_ATTRIBUTE\_NOT\_FINISHED,

XML\_ERR\_ATTRIBUTE\_WITHOUT\_VALUE,

XML\_ERR\_ATTRIBUTE\_REDEFINED,

XML\_ERR\_LITERAL\_NOT\_STARTED,

XML\_ERR\_LITERAL\_NOT\_FINISHED,

XML\_ERR\_COMMENT\_NOT\_FINISHED,

XML\_ERR\_PI\_NOT\_STARTED,

XML\_ERR\_PI\_NOT\_FINISHED,

XML\_ERR\_NOTATION\_NOT\_STARTED,

XML\_ERR\_NOTATION\_NOT\_FINISHED,

XML\_ERR\_ATTLIST\_NOT\_STARTED,

XML\_ERR\_ATTLIST\_NOT\_FINISHED,

XML\_ERR\_MIXED\_NOT\_STARTED,

XML\_ERR\_MIXED\_NOT\_FINISHED,

XML\_ERR\_ELEMCONTENT\_NOT\_STARTED,

XML\_ERR\_ELEMCONTENT\_NOT\_FINISHED,

XML\_ERR\_XMLDECL\_NOT\_STARTED,

XML\_ERR\_XMLDECL\_NOT\_FINISHED,

XML\_ERR\_CONDSEC\_NOT\_STARTED,

XML\_ERR\_CONDSEC\_NOT\_FINISHED,

XML\_ERR\_EXT\_SUBSET\_NOT\_FINISHED,

XML\_ERR\_DOCTYPE\_NOT\_FINISHED,

XML\_ERR\_MISPLACED\_CDATA\_END,

XML\_ERR\_CDATA\_NOT\_FINISHED,

XML\_ERR\_RESERVED\_XML\_NAME,

XML\_ERR\_SPACE\_REQUIRED,

XML\_ERR\_SEPARATOR\_REQUIRED,

XML\_ERR\_NMTOKEN\_REQUIRED,

XML\_ERR\_NAME\_REQUIRED,

XML\_ERR\_PCDATA\_REQUIRED,

XML\_ERR\_URI\_REQUIRED,

XML\_ERR\_PUBID\_REQUIRED,

XML\_ERR\_LT\_REQUIRED,

XML\_ERR\_GT\_REQUIRED,

XML\_ERR\_LTSLASH\_REQUIRED,

XML\_ERR\_EQUAL\_REQUIRED,

XML\_ERR\_TAG\_NAME\_MISMATCH,

XML\_ERR\_TAG\_NOT\_FINISHED,

XML\_ERR\_STANDALONE\_VALUE,

XML\_ERR\_ENCODING\_NAME,

XML\_ERR\_HYPHEN\_IN\_COMMENT,

XML\_ERR\_INVALID\_ENCODING,

XML\_ERR\_EXT\_ENTITY\_STANDALONE,

XML\_ERR\_CONDSEC\_INVALID,

XML\_ERR\_VALUE\_REQUIRED,

XML\_ERR\_NOT\_WELL\_BALANCED,

XML\_ERR\_EXTRA\_CONTENT,

XML\_ERR\_ENTITY\_CHAR\_ERROR,

XML\_ERR\_ENTITY\_PE\_INTERNAL,

XML\_ERR\_ENTITY\_LOOP,

XML\_ERR\_ENTITY\_BOUNDARY,

XML\_ERR\_INVALID\_URI,

XML\_ERR\_URI\_FRAGMENT,

XML\_WAR\_CATALOG\_PI,

XML\_ERR\_NO\_DTD,

XML\_ERR\_CONDSEC\_INVALID\_KEYWORD,

XML\_ERR\_VERSION\_MISSING,

XML\_WAR\_UNKNOWN\_VERSION,

XML\_WAR\_LANG\_VALUE,

XML\_WAR\_NS\_URI,

XML\_WAR\_NS\_URI\_RELATIVE,

XML\_ERR\_MISSING\_ENCODING,

XML\_WAR\_SPACE\_VALUE,

XML\_ERR\_NOT\_STANDALONE,

XML\_ERR\_ENTITY\_PROCESSING,

XML\_ERR\_NOTATION\_PROCESSING,

XML\_WAR\_NS\_COLUMN,

XML\_WAR\_ENTITY\_REDEFINED,

XML\_NS\_ERR\_XML\_NAMESPACE = 200,

XML\_NS\_ERR\_UNDEFINED\_NAMESPACE,

XML\_NS\_ERR\_QNAME,

XML\_NS\_ERR\_ATTRIBUTE\_REDEFINED,

XML\_NS\_ERR\_EMPTY,

XML\_DTD\_ATTRIBUTE\_DEFAULT = 500,

XML\_DTD\_ATTRIBUTE\_REDEFINED,

XML\_DTD\_ATTRIBUTE\_VALUE,

XML\_DTD\_CONTENT\_ERROR,

XML\_DTD\_CONTENT\_MODEL,

XML\_DTD\_CONTENT\_NOT\_DETERMINIST,

XML\_DTD\_DIFFERENT\_PREFIX,

XML\_DTD\_ELEM\_DEFAULT\_NAMESPACE,

XML\_DTD\_ELEM\_NAMESPACE,

XML\_DTD\_ELEM\_REDEFINED,

XML\_DTD\_EMPTY\_NOTATION,

XML\_DTD\_ENTITY\_TYPE,

XML\_DTD\_ID\_FIXED,

XML\_DTD\_ID\_REDEFINED,

XML\_DTD\_ID\_SUBSET,

XML\_DTD\_INVALID\_CHILD,

XML\_DTD\_INVALID\_DEFAULT,

XML\_DTD\_LOAD\_ERROR,

XML\_DTD\_MISSING\_ATTRIBUTE,

XML\_DTD\_MIXED\_CORRUPT,

XML\_DTD\_MULTIPLE\_ID,

XML\_DTD\_NO\_DOC,

XML\_DTD\_NO\_DTD,

XML\_DTD\_NO\_ELEM\_NAME,

XML\_DTD\_NO\_PREFIX,

XML\_DTD\_NO\_ROOT,

XML\_DTD\_NOTATION\_REDEFINED,

XML\_DTD\_NOTATION\_VALUE,

XML\_DTD\_NOT\_EMPTY,

XML\_DTD\_NOT\_PCDATA,

XML\_DTD\_NOT\_STANDALONE,

XML\_DTD\_ROOT\_NAME,

XML\_DTD\_STANDALONE\_WHITE\_SPACE,

XML\_DTD\_UNKNOWN\_ATTRIBUTE,

XML\_DTD\_UNKNOWN\_ELEM,

XML\_DTD\_UNKNOWN\_ENTITY,

XML\_DTD\_UNKNOWN\_ID,

XML\_DTD\_UNKNOWN\_NOTATION,

XML\_DTD\_STANDALONE\_DEFAULTED,

XML\_DTD\_XMLID\_VALUE,

XML\_DTD\_XMLID\_TYPE,

XML\_HTML\_STRUCURE\_ERROR = 800,

XML\_HTML\_UNKNOWN\_TAG,

XML\_RNGP\_ANYNAME\_ATTR\_ANCESTOR = 1000,

XML\_RNGP\_ATTR\_CONFLICT,

XML\_RNGP\_ATTRIBUTE\_CHILDREN,

XML\_RNGP\_ATTRIBUTE\_CONTENT,

XML\_RNGP\_ATTRIBUTE\_EMPTY,

XML\_RNGP\_ATTRIBUTE\_NOOP,

XML\_RNGP\_CHOICE\_CONTENT,

XML\_RNGP\_CHOICE\_EMPTY,

XML\_RNGP\_CREATE\_FAILURE,

XML\_RNGP\_DATA\_CONTENT,

XML\_RNGP\_DEF\_CHOICE\_AND\_INTERLEAVE,

XML\_RNGP\_DEFINE\_CREATE\_FAILED,

XML\_RNGP\_DEFINE\_EMPTY,

XML\_RNGP\_DEFINE\_MISSING,

XML\_RNGP\_DEFINE\_NAME\_MISSING,

XML\_RNGP\_ELEM\_CONTENT\_EMPTY,

XML\_RNGP\_ELEM\_CONTENT\_ERROR,

XML\_RNGP\_ELEMENT\_EMPTY,

XML\_RNGP\_ELEMENT\_CONTENT,

XML\_RNGP\_ELEMENT\_NAME,

XML\_RNGP\_ELEMENT\_NO\_CONTENT,

XML\_RNGP\_ELEM\_TEXT\_CONFLICT,

XML\_RNGP\_EMPTY,

XML\_RNGP\_EMPTY\_CONSTRUCT,

XML\_RNGP\_EMPTY\_CONTENT,

XML\_RNGP\_EMPTY\_NOT\_EMPTY,

XML\_RNGP\_ERROR\_TYPE\_LIB,

XML\_RNGP\_EXCEPT\_EMPTY,

XML\_RNGP\_EXCEPT\_MISSING,

XML\_RNGP\_EXCEPT\_MULTIPLE,

XML\_RNGP\_EXCEPT\_NO\_CONTENT,

XML\_RNGP\_EXTERNALREF\_EMTPY,

XML\_RNGP\_EXTERNAL\_REF\_FAILURE,

XML\_RNGP\_EXTERNALREF\_RECURSE,

XML\_RNGP\_FORBIDDEN\_ATTRIBUTE,

XML\_RNGP\_FOREIGN\_ELEMENT,

XML\_RNGP\_GRAMMAR\_CONTENT,

XML\_RNGP\_GRAMMAR\_EMPTY,

XML\_RNGP\_GRAMMAR\_MISSING,

XML\_RNGP\_GRAMMAR\_NO\_START,

XML\_RNGP\_GROUP\_ATTR\_CONFLICT,

XML\_RNGP\_HREF\_ERROR,

XML\_RNGP\_INCLUDE\_EMPTY,

XML\_RNGP\_INCLUDE\_FAILURE,

XML\_RNGP\_INCLUDE\_RECURSE,

XML\_RNGP\_INTERLEAVE\_ADD,

XML\_RNGP\_INTERLEAVE\_CREATE\_FAILED,

XML\_RNGP\_INTERLEAVE\_EMPTY,

XML\_RNGP\_INTERLEAVE\_NO\_CONTENT,

XML\_RNGP\_INVALID\_DEFINE\_NAME,

XML\_RNGP\_INVALID\_URI,

XML\_RNGP\_INVALID\_VALUE,

XML\_RNGP\_MISSING\_HREF,

XML\_RNGP\_NAME\_MISSING,

XML\_RNGP\_NEED\_COMBINE,

XML\_RNGP\_NOTALLOWED\_NOT\_EMPTY,

XML\_RNGP\_NSNAME\_ATTR\_ANCESTOR,

XML\_RNGP\_NSNAME\_NO\_NS,

XML\_RNGP\_PARAM\_FORBIDDEN,

XML\_RNGP\_PARAM\_NAME\_MISSING,

XML\_RNGP\_PARENTREF\_CREATE\_FAILED,

XML\_RNGP\_PARENTREF\_NAME\_INVALID,

XML\_RNGP\_PARENTREF\_NO\_NAME,

XML\_RNGP\_PARENTREF\_NO\_PARENT,

XML\_RNGP\_PARENTREF\_NOT\_EMPTY,

XML\_RNGP\_PARSE\_ERROR,

XML\_RNGP\_PAT\_ANYNAME\_EXCEPT\_ANYNAME,

XML\_RNGP\_PAT\_ATTR\_ATTR,

XML\_RNGP\_PAT\_ATTR\_ELEM,

XML\_RNGP\_PAT\_DATA\_EXCEPT\_ATTR,

XML\_RNGP\_PAT\_DATA\_EXCEPT\_ELEM,

XML\_RNGP\_PAT\_DATA\_EXCEPT\_EMPTY,

XML\_RNGP\_PAT\_DATA\_EXCEPT\_GROUP,

XML\_RNGP\_PAT\_DATA\_EXCEPT\_INTERLEAVE,

XML\_RNGP\_PAT\_DATA\_EXCEPT\_LIST,

XML\_RNGP\_PAT\_DATA\_EXCEPT\_ONEMORE,

XML\_RNGP\_PAT\_DATA\_EXCEPT\_REF,

XML\_RNGP\_PAT\_DATA\_EXCEPT\_TEXT,

XML\_RNGP\_PAT\_LIST\_ATTR,

XML\_RNGP\_PAT\_LIST\_ELEM,

XML\_RNGP\_PAT\_LIST\_INTERLEAVE,

XML\_RNGP\_PAT\_LIST\_LIST,

XML\_RNGP\_PAT\_LIST\_REF,

XML\_RNGP\_PAT\_LIST\_TEXT,

XML\_RNGP\_PAT\_NSNAME\_EXCEPT\_ANYNAME,

XML\_RNGP\_PAT\_NSNAME\_EXCEPT\_NSNAME,

XML\_RNGP\_PAT\_ONEMORE\_GROUP\_ATTR,

XML\_RNGP\_PAT\_ONEMORE\_INTERLEAVE\_ATTR,

XML\_RNGP\_PAT\_START\_ATTR,

XML\_RNGP\_PAT\_START\_DATA,

XML\_RNGP\_PAT\_START\_EMPTY,

XML\_RNGP\_PAT\_START\_GROUP,

XML\_RNGP\_PAT\_START\_INTERLEAVE,

XML\_RNGP\_PAT\_START\_LIST,

XML\_RNGP\_PAT\_START\_ONEMORE,

XML\_RNGP\_PAT\_START\_TEXT,

XML\_RNGP\_PAT\_START\_VALUE,

XML\_RNGP\_PREFIX\_UNDEFINED,

XML\_RNGP\_REF\_CREATE\_FAILED,

XML\_RNGP\_REF\_CYCLE,

XML\_RNGP\_REF\_NAME\_INVALID,

XML\_RNGP\_REF\_NO\_DEF,

XML\_RNGP\_REF\_NO\_NAME,

XML\_RNGP\_REF\_NOT\_EMPTY,

XML\_RNGP\_START\_CHOICE\_AND\_INTERLEAVE,

XML\_RNGP\_START\_CONTENT,

XML\_RNGP\_START\_EMPTY,

XML\_RNGP\_START\_MISSING,

XML\_RNGP\_TEXT\_EXPECTED,

XML\_RNGP\_TEXT\_HAS\_CHILD,

XML\_RNGP\_TYPE\_MISSING,

XML\_RNGP\_TYPE\_NOT\_FOUND,

XML\_RNGP\_TYPE\_VALUE,

XML\_RNGP\_UNKNOWN\_ATTRIBUTE,

XML\_RNGP\_UNKNOWN\_COMBINE,

XML\_RNGP\_UNKNOWN\_CONSTRUCT,

XML\_RNGP\_UNKNOWN\_TYPE\_LIB,

XML\_RNGP\_URI\_FRAGMENT,

XML\_RNGP\_URI\_NOT\_ABSOLUTE,

XML\_RNGP\_VALUE\_EMPTY,

XML\_RNGP\_VALUE\_NO\_CONTENT,

XML\_RNGP\_XMLNS\_NAME,

XML\_RNGP\_XML\_NS,

XML\_XPATH\_EXPRESSION\_OK = 1200,

XML\_XPATH\_NUMBER\_ERROR,

XML\_XPATH\_UNFINISHED\_LITERAL\_ERROR,

XML\_XPATH\_START\_LITERAL\_ERROR,

XML\_XPATH\_VARIABLE\_REF\_ERROR,

XML\_XPATH\_UNDEF\_VARIABLE\_ERROR,

XML\_XPATH\_INVALID\_PREDICATE\_ERROR,

XML\_XPATH\_EXPR\_ERROR,

XML\_XPATH\_UNCLOSED\_ERROR,

XML\_XPATH\_UNKNOWN\_FUNC\_ERROR,

XML\_XPATH\_INVALID\_OPERAND,

XML\_XPATH\_INVALID\_TYPE,

XML\_XPATH\_INVALID\_ARITY,

XML\_XPATH\_INVALID\_CTXT\_SIZE,

XML\_XPATH\_INVALID\_CTXT\_POSITION,

XML\_XPATH\_MEMORY\_ERROR,

XML\_XPTR\_SYNTAX\_ERROR,

XML\_XPTR\_RESOURCE\_ERROR,

XML\_XPTR\_SUB\_RESOURCE\_ERROR,

XML\_XPATH\_UNDEF\_PREFIX\_ERROR,

XML\_XPATH\_ENCODING\_ERROR,

XML\_XPATH\_INVALID\_CHAR\_ERROR,

XML\_TREE\_INVALID\_HEX = 1300,

XML\_TREE\_INVALID\_DEC,

XML\_TREE\_UNTERMINATED\_ENTITY,

XML\_SAVE\_NOT\_UTF8 = 1400,

XML\_SAVE\_CHAR\_INVALID,

XML\_SAVE\_NO\_DOCTYPE,

XML\_SAVE\_UNKNOWN\_ENCODING,

XML\_REGEXP\_COMPILE\_ERROR = 1450,

XML\_IO\_UNKNOWN = 1500,

XML\_IO\_EACCES,

XML\_IO\_EAGAIN,

XML\_IO\_EBADF,

XML\_IO\_EBADMSG,

XML\_IO\_EBUSY,

XML\_IO\_ECANCELED,

XML\_IO\_ECHILD,

XML\_IO\_EDEADLK,

XML\_IO\_EDOM,

XML\_IO\_EEXIST,

XML\_IO\_EFAULT,

XML\_IO\_EFBIG,

XML\_IO\_EINPROGRESS,

XML\_IO\_EINTR,

XML\_IO\_EINVAL,

XML\_IO\_EIO,

XML\_IO\_EISDIR,

XML\_IO\_EMFILE,

XML\_IO\_EMLINK,

XML\_IO\_EMSGSIZE,

XML\_IO\_ENAMETOOLONG,

XML\_IO\_ENFILE,

XML\_IO\_ENODEV,

XML\_IO\_ENOENT,

XML\_IO\_ENOEXEC,

XML\_IO\_ENOLCK,

XML\_IO\_ENOMEM,

XML\_IO\_ENOSPC,

XML\_IO\_ENOSYS,

XML\_IO\_ENOTDIR,

XML\_IO\_ENOTEMPTY,

XML\_IO\_ENOTSUP,

XML\_IO\_ENOTTY,

XML\_IO\_ENXIO,

XML\_IO\_EPERM,

XML\_IO\_EPIPE,

XML\_IO\_ERANGE,

XML\_IO\_EROFS,

XML\_IO\_ESPIPE,

XML\_IO\_ESRCH,

XML\_IO\_ETIMEDOUT,

XML\_IO\_EXDEV,

XML\_IO\_NETWORK\_ATTEMPT,

XML\_IO\_ENCODER,

XML\_IO\_FLUSH,

XML\_IO\_WRITE,

XML\_IO\_NO\_INPUT,

XML\_IO\_BUFFER\_FULL,

XML\_IO\_LOAD\_ERROR,

XML\_IO\_ENOTSOCK,

XML\_IO\_EISCONN,

XML\_IO\_ECONNREFUSED,

XML\_IO\_ENETUNREACH,

XML\_IO\_EADDRINUSE,

XML\_IO\_EALREADY,

XML\_IO\_EAFNOSUPPORT,

XML\_XINCLUDE\_RECURSION = 1600,

XML\_XINCLUDE\_PARSE\_VALUE,

XML\_XINCLUDE\_ENTITY\_DEF\_MISMATCH,

XML\_XINCLUDE\_NO\_HREF,

XML\_XINCLUDE\_NO\_FALLBACK,

XML\_XINCLUDE\_HREF\_URI,

XML\_XINCLUDE\_TEXT\_FRAGMENT,

XML\_XINCLUDE\_TEXT\_DOCUMENT,

XML\_XINCLUDE\_INVALID\_CHAR,

XML\_XINCLUDE\_BUILD\_FAILED,

XML\_XINCLUDE\_UNKNOWN\_ENCODING,

XML\_XINCLUDE\_MULTIPLE\_ROOT,

XML\_XINCLUDE\_XPTR\_FAILED,

XML\_XINCLUDE\_XPTR\_RESULT,

XML\_XINCLUDE\_INCLUDE\_IN\_INCLUDE,

XML\_XINCLUDE\_FALLBACKS\_IN\_INCLUDE,

XML\_XINCLUDE\_FALLBACK\_NOT\_IN\_INCLUDE,

XML\_XINCLUDE\_DEPRECATED\_NS,

XML\_XINCLUDE\_FRAGMENT\_ID,

XML\_CATALOG\_MISSING\_ATTR = 1650,

XML\_CATALOG\_ENTRY\_BROKEN,

XML\_CATALOG\_PREFER\_VALUE,

XML\_CATALOG\_NOT\_CATALOG,

XML\_CATALOG\_RECURSION,

XML\_SCHEMAP\_PREFIX\_UNDEFINED = 1700,

XML\_SCHEMAP\_ATTRFORMDEFAULT\_VALUE,

XML\_SCHEMAP\_ATTRGRP\_NONAME\_NOREF,

XML\_SCHEMAP\_ATTR\_NONAME\_NOREF,

XML\_SCHEMAP\_COMPLEXTYPE\_NONAME\_NOREF,

XML\_SCHEMAP\_ELEMFORMDEFAULT\_VALUE,

XML\_SCHEMAP\_ELEM\_NONAME\_NOREF,

XML\_SCHEMAP\_EXTENSION\_NO\_BASE,

XML\_SCHEMAP\_FACET\_NO\_VALUE,

XML\_SCHEMAP\_FAILED\_BUILD\_IMPORT,

XML\_SCHEMAP\_GROUP\_NONAME\_NOREF,

XML\_SCHEMAP\_IMPORT\_NAMESPACE\_NOT\_URI,

XML\_SCHEMAP\_IMPORT\_REDEFINE\_NSNAME,

XML\_SCHEMAP\_IMPORT\_SCHEMA\_NOT\_URI,

XML\_SCHEMAP\_INVALID\_BOOLEAN,

XML\_SCHEMAP\_INVALID\_ENUM,

XML\_SCHEMAP\_INVALID\_FACET,

XML\_SCHEMAP\_INVALID\_FACET\_VALUE,

XML\_SCHEMAP\_INVALID\_MAXOCCURS,

XML\_SCHEMAP\_INVALID\_MINOCCURS,

XML\_SCHEMAP\_INVALID\_REF\_AND\_SUBTYPE,

XML\_SCHEMAP\_INVALID\_WHITE\_SPACE,

XML\_SCHEMAP\_NOATTR\_NOREF,

XML\_SCHEMAP\_NOTATION\_NO\_NAME,

XML\_SCHEMAP\_NOTYPE\_NOREF,

XML\_SCHEMAP\_REF\_AND\_SUBTYPE,

XML\_SCHEMAP\_RESTRICTION\_NONAME\_NOREF,

XML\_SCHEMAP\_SIMPLETYPE\_NONAME,

XML\_SCHEMAP\_TYPE\_AND\_SUBTYPE,

XML\_SCHEMAP\_UNKNOWN\_ALL\_CHILD,

XML\_SCHEMAP\_UNKNOWN\_ANYATTRIBUTE\_CHILD,

XML\_SCHEMAP\_UNKNOWN\_ATTR\_CHILD,

XML\_SCHEMAP\_UNKNOWN\_ATTRGRP\_CHILD,

XML\_SCHEMAP\_UNKNOWN\_ATTRIBUTE\_GROUP,

XML\_SCHEMAP\_UNKNOWN\_BASE\_TYPE,

XML\_SCHEMAP\_UNKNOWN\_CHOICE\_CHILD,

XML\_SCHEMAP\_UNKNOWN\_COMPLEXCONTENT\_CHILD,

XML\_SCHEMAP\_UNKNOWN\_COMPLEXTYPE\_CHILD,

XML\_SCHEMAP\_UNKNOWN\_ELEM\_CHILD,

XML\_SCHEMAP\_UNKNOWN\_EXTENSION\_CHILD,

XML\_SCHEMAP\_UNKNOWN\_FACET\_CHILD,

XML\_SCHEMAP\_UNKNOWN\_FACET\_TYPE,

XML\_SCHEMAP\_UNKNOWN\_GROUP\_CHILD,

XML\_SCHEMAP\_UNKNOWN\_IMPORT\_CHILD,

XML\_SCHEMAP\_UNKNOWN\_LIST\_CHILD,

XML\_SCHEMAP\_UNKNOWN\_NOTATION\_CHILD,

XML\_SCHEMAP\_UNKNOWN\_PROCESSCONTENT\_CHILD,

XML\_SCHEMAP\_UNKNOWN\_REF,

XML\_SCHEMAP\_UNKNOWN\_RESTRICTION\_CHILD,

XML\_SCHEMAP\_UNKNOWN\_SCHEMAS\_CHILD,

XML\_SCHEMAP\_UNKNOWN\_SEQUENCE\_CHILD,

XML\_SCHEMAP\_UNKNOWN\_SIMPLECONTENT\_CHILD,

XML\_SCHEMAP\_UNKNOWN\_SIMPLETYPE\_CHILD,

XML\_SCHEMAP\_UNKNOWN\_TYPE,

XML\_SCHEMAP\_UNKNOWN\_UNION\_CHILD,

XML\_SCHEMAP\_ELEM\_DEFAULT\_FIXED,

XML\_SCHEMAP\_REGEXP\_INVALID,

XML\_SCHEMAP\_FAILED\_LOAD,

XML\_SCHEMAP\_NOTHING\_TO\_PARSE,

XML\_SCHEMAP\_NOROOT,

XML\_SCHEMAP\_REDEFINED\_GROUP,

XML\_SCHEMAP\_REDEFINED\_TYPE,

XML\_SCHEMAP\_REDEFINED\_ELEMENT,

XML\_SCHEMAP\_REDEFINED\_ATTRGROUP,

XML\_SCHEMAP\_REDEFINED\_ATTR,

XML\_SCHEMAP\_REDEFINED\_NOTATION,

XML\_SCHEMAP\_FAILED\_PARSE,

XML\_SCHEMAP\_UNKNOWN\_PREFIX,

XML\_SCHEMAP\_DEF\_AND\_PREFIX,

XML\_SCHEMAP\_UNKNOWN\_INCLUDE\_CHILD,

XML\_SCHEMAP\_INCLUDE\_SCHEMA\_NOT\_URI,

XML\_SCHEMAP\_INCLUDE\_SCHEMA\_NO\_URI,

XML\_SCHEMAP\_NOT\_SCHEMA,

XML\_SCHEMAP\_UNKNOWN\_MEMBER\_TYPE,

XML\_SCHEMAP\_INVALID\_ATTR\_USE,

XML\_SCHEMAP\_RECURSIVE,

XML\_SCHEMAP\_SUPERNUMEROUS\_LIST\_ITEM\_TYPE,

XML\_SCHEMAP\_INVALID\_ATTR\_COMBINATION,

XML\_SCHEMAP\_INVALID\_ATTR\_INLINE\_COMBINATION,

XML\_SCHEMAP\_MISSING\_SIMPLETYPE\_CHILD,

XML\_SCHEMAP\_INVALID\_ATTR\_NAME,

XML\_SCHEMAP\_REF\_AND\_CONTENT,

XML\_SCHEMAP\_CT\_PROPS\_CORRECT\_1,

XML\_SCHEMAP\_CT\_PROPS\_CORRECT\_2,

XML\_SCHEMAP\_CT\_PROPS\_CORRECT\_3,

XML\_SCHEMAP\_CT\_PROPS\_CORRECT\_4,

XML\_SCHEMAP\_CT\_PROPS\_CORRECT\_5,

XML\_SCHEMAP\_DERIVATION\_OK\_RESTRICTION\_1,

XML\_SCHEMAP\_DERIVATION\_OK\_RESTRICTION\_2\_1\_1,

XML\_SCHEMAP\_DERIVATION\_OK\_RESTRICTION\_2\_1\_2,

XML\_SCHEMAP\_DERIVATION\_OK\_RESTRICTION\_2\_2,

XML\_SCHEMAP\_DERIVATION\_OK\_RESTRICTION\_3,

XML\_SCHEMAP\_WILDCARD\_INVALID\_NS\_MEMBER,

XML\_SCHEMAP\_INTERSECTION\_NOT\_EXPRESSIBLE,

XML\_SCHEMAP\_UNION\_NOT\_EXPRESSIBLE,

XML\_SCHEMAP\_SRC\_IMPORT\_3\_1,

XML\_SCHEMAP\_SRC\_IMPORT\_3\_2,

XML\_SCHEMAP\_DERIVATION\_OK\_RESTRICTION\_4\_1,

XML\_SCHEMAP\_DERIVATION\_OK\_RESTRICTION\_4\_2,

XML\_SCHEMAP\_DERIVATION\_OK\_RESTRICTION\_4\_3,

XML\_SCHEMAP\_COS\_CT\_EXTENDS\_1\_3,

XML\_SCHEMAV\_NOROOT = 1801,

XML\_SCHEMAV\_UNDECLAREDELEM,

XML\_SCHEMAV\_NOTTOPLEVEL,

XML\_SCHEMAV\_MISSING,

XML\_SCHEMAV\_WRONGELEM,

XML\_SCHEMAV\_NOTYPE,

XML\_SCHEMAV\_NOROLLBACK,

XML\_SCHEMAV\_ISABSTRACT,

XML\_SCHEMAV\_NOTEMPTY,

XML\_SCHEMAV\_ELEMCONT,

XML\_SCHEMAV\_HAVEDEFAULT,

XML\_SCHEMAV\_NOTNILLABLE,

XML\_SCHEMAV\_EXTRACONTENT,

XML\_SCHEMAV\_INVALIDATTR,

XML\_SCHEMAV\_INVALIDELEM,

XML\_SCHEMAV\_NOTDETERMINIST,

XML\_SCHEMAV\_CONSTRUCT,

XML\_SCHEMAV\_INTERNAL,

XML\_SCHEMAV\_NOTSIMPLE,

XML\_SCHEMAV\_ATTRUNKNOWN,

XML\_SCHEMAV\_ATTRINVALID,

XML\_SCHEMAV\_VALUE,

XML\_SCHEMAV\_FACET,

XML\_SCHEMAV\_CVC\_DATATYPE\_VALID\_1\_2\_1,

XML\_SCHEMAV\_CVC\_DATATYPE\_VALID\_1\_2\_2,

XML\_SCHEMAV\_CVC\_DATATYPE\_VALID\_1\_2\_3,

XML\_SCHEMAV\_CVC\_TYPE\_3\_1\_1,

XML\_SCHEMAV\_CVC\_TYPE\_3\_1\_2,

XML\_SCHEMAV\_CVC\_FACET\_VALID,

XML\_SCHEMAV\_CVC\_LENGTH\_VALID,

XML\_SCHEMAV\_CVC\_MINLENGTH\_VALID,

XML\_SCHEMAV\_CVC\_MAXLENGTH\_VALID,

XML\_SCHEMAV\_CVC\_MININCLUSIVE\_VALID,

XML\_SCHEMAV\_CVC\_MAXINCLUSIVE\_VALID,

XML\_SCHEMAV\_CVC\_MINEXCLUSIVE\_VALID,

XML\_SCHEMAV\_CVC\_MAXEXCLUSIVE\_VALID,

XML\_SCHEMAV\_CVC\_TOTALDIGITS\_VALID,

XML\_SCHEMAV\_CVC\_FRACTIONDIGITS\_VALID,

XML\_SCHEMAV\_CVC\_PATTERN\_VALID,

XML\_SCHEMAV\_CVC\_ENUMERATION\_VALID,

XML\_SCHEMAV\_CVC\_COMPLEX\_TYPE\_2\_1,

XML\_SCHEMAV\_CVC\_COMPLEX\_TYPE\_2\_2,

XML\_SCHEMAV\_CVC\_COMPLEX\_TYPE\_2\_3,

XML\_SCHEMAV\_CVC\_COMPLEX\_TYPE\_2\_4,

XML\_SCHEMAV\_CVC\_ELT\_1,

XML\_SCHEMAV\_CVC\_ELT\_2,

XML\_SCHEMAV\_CVC\_ELT\_3\_1,

XML\_SCHEMAV\_CVC\_ELT\_3\_2\_1,

XML\_SCHEMAV\_CVC\_ELT\_3\_2\_2,

XML\_SCHEMAV\_CVC\_ELT\_4\_1,

XML\_SCHEMAV\_CVC\_ELT\_4\_2,

XML\_SCHEMAV\_CVC\_ELT\_4\_3,

XML\_SCHEMAV\_CVC\_ELT\_5\_1\_1,

XML\_SCHEMAV\_CVC\_ELT\_5\_1\_2,

XML\_SCHEMAV\_CVC\_ELT\_5\_2\_1,

XML\_SCHEMAV\_CVC\_ELT\_5\_2\_2\_1,

XML\_SCHEMAV\_CVC\_ELT\_5\_2\_2\_2\_1,

XML\_SCHEMAV\_CVC\_ELT\_5\_2\_2\_2\_2,

XML\_SCHEMAV\_CVC\_ELT\_6,

XML\_SCHEMAV\_CVC\_ELT\_7,

XML\_SCHEMAV\_CVC\_ATTRIBUTE\_1,

XML\_SCHEMAV\_CVC\_ATTRIBUTE\_2,

XML\_SCHEMAV\_CVC\_ATTRIBUTE\_3,

XML\_SCHEMAV\_CVC\_ATTRIBUTE\_4,

XML\_SCHEMAV\_CVC\_COMPLEX\_TYPE\_3\_1,

XML\_SCHEMAV\_CVC\_COMPLEX\_TYPE\_3\_2\_1,

XML\_SCHEMAV\_CVC\_COMPLEX\_TYPE\_3\_2\_2,

XML\_SCHEMAV\_CVC\_COMPLEX\_TYPE\_4,

XML\_SCHEMAV\_CVC\_COMPLEX\_TYPE\_5\_1,

XML\_SCHEMAV\_CVC\_COMPLEX\_TYPE\_5\_2,

XML\_SCHEMAV\_ELEMENT\_CONTENT,

XML\_SCHEMAV\_DOCUMENT\_ELEMENT\_MISSING,

XML\_SCHEMAV\_CVC\_COMPLEX\_TYPE\_1,

XML\_SCHEMAV\_CVC\_AU,

XML\_SCHEMAV\_CVC\_TYPE\_1,

XML\_SCHEMAV\_CVC\_TYPE\_2,

XML\_SCHEMAV\_CVC\_IDC,

XML\_SCHEMAV\_CVC\_WILDCARD,

XML\_XPTR\_UNKNOWN\_SCHEME = 1900,

XML\_XPTR\_CHILDSEQ\_START,

XML\_XPTR\_EVAL\_FAILED,

XML\_XPTR\_EXTRA\_OBJECTS,

XML\_C14N\_CREATE\_CTXT = 1950,

XML\_C14N\_REQUIRES\_UTF8,

XML\_C14N\_CREATE\_STACK,

XML\_C14N\_INVALID\_NODE,

XML\_C14N\_UNKNOW\_NODE,

XML\_C14N\_RELATIVE\_NAMESPACE,

XML\_FTP\_PASV\_ANSWER = 2000,

XML\_FTP\_EPSV\_ANSWER,

XML\_FTP\_ACCNT,

XML\_FTP\_URL\_SYNTAX,

XML\_HTTP\_URL\_SYNTAX = 2020,

XML\_HTTP\_USE\_IP,

XML\_HTTP\_UNKNOWN\_HOST,

XML\_SCHEMAP\_SRC\_SIMPLE\_TYPE\_1 = 3000,

XML\_SCHEMAP\_SRC\_SIMPLE\_TYPE\_2,

XML\_SCHEMAP\_SRC\_SIMPLE\_TYPE\_3,

XML\_SCHEMAP\_SRC\_SIMPLE\_TYPE\_4,

XML\_SCHEMAP\_SRC\_RESOLVE,

XML\_SCHEMAP\_SRC\_RESTRICTION\_BASE\_OR\_SIMPLETYPE,

XML\_SCHEMAP\_SRC\_LIST\_ITEMTYPE\_OR\_SIMPLETYPE,

XML\_SCHEMAP\_SRC\_UNION\_MEMBERTYPES\_OR\_SIMPLETYPES,

XML\_SCHEMAP\_ST\_PROPS\_CORRECT\_1,

XML\_SCHEMAP\_ST\_PROPS\_CORRECT\_2,

XML\_SCHEMAP\_ST\_PROPS\_CORRECT\_3,

XML\_SCHEMAP\_COS\_ST\_RESTRICTS\_1\_1,

XML\_SCHEMAP\_COS\_ST\_RESTRICTS\_1\_2,

XML\_SCHEMAP\_COS\_ST\_RESTRICTS\_1\_3\_1,

XML\_SCHEMAP\_COS\_ST\_RESTRICTS\_1\_3\_2,

XML\_SCHEMAP\_COS\_ST\_RESTRICTS\_2\_1,

XML\_SCHEMAP\_COS\_ST\_RESTRICTS\_2\_3\_1\_1,

XML\_SCHEMAP\_COS\_ST\_RESTRICTS\_2\_3\_1\_2,

XML\_SCHEMAP\_COS\_ST\_RESTRICTS\_2\_3\_2\_1,

XML\_SCHEMAP\_COS\_ST\_RESTRICTS\_2\_3\_2\_2,

XML\_SCHEMAP\_COS\_ST\_RESTRICTS\_2\_3\_2\_3,

XML\_SCHEMAP\_COS\_ST\_RESTRICTS\_2\_3\_2\_4,

XML\_SCHEMAP\_COS\_ST\_RESTRICTS\_2\_3\_2\_5,

XML\_SCHEMAP\_COS\_ST\_RESTRICTS\_3\_1,

XML\_SCHEMAP\_COS\_ST\_RESTRICTS\_3\_3\_1,

XML\_SCHEMAP\_COS\_ST\_RESTRICTS\_3\_3\_1\_2,

XML\_SCHEMAP\_COS\_ST\_RESTRICTS\_3\_3\_2\_2,

XML\_SCHEMAP\_COS\_ST\_RESTRICTS\_3\_3\_2\_1,

XML\_SCHEMAP\_COS\_ST\_RESTRICTS\_3\_3\_2\_3,

XML\_SCHEMAP\_COS\_ST\_RESTRICTS\_3\_3\_2\_4,

XML\_SCHEMAP\_COS\_ST\_RESTRICTS\_3\_3\_2\_5,

XML\_SCHEMAP\_COS\_ST\_DERIVED\_OK\_2\_1,

XML\_SCHEMAP\_COS\_ST\_DERIVED\_OK\_2\_2,

XML\_SCHEMAP\_S4S\_ELEM\_NOT\_ALLOWED,

XML\_SCHEMAP\_S4S\_ELEM\_MISSING,

XML\_SCHEMAP\_S4S\_ATTR\_NOT\_ALLOWED,

XML\_SCHEMAP\_S4S\_ATTR\_MISSING,

XML\_SCHEMAP\_S4S\_ATTR\_INVALID\_VALUE,

XML\_SCHEMAP\_SRC\_ELEMENT\_1,

XML\_SCHEMAP\_SRC\_ELEMENT\_2\_1,

XML\_SCHEMAP\_SRC\_ELEMENT\_2\_2,

XML\_SCHEMAP\_SRC\_ELEMENT\_3,

XML\_SCHEMAP\_P\_PROPS\_CORRECT\_1,

XML\_SCHEMAP\_P\_PROPS\_CORRECT\_2\_1,

XML\_SCHEMAP\_P\_PROPS\_CORRECT\_2\_2,

XML\_SCHEMAP\_E\_PROPS\_CORRECT\_2,

XML\_SCHEMAP\_E\_PROPS\_CORRECT\_3,

XML\_SCHEMAP\_E\_PROPS\_CORRECT\_4,

XML\_SCHEMAP\_E\_PROPS\_CORRECT\_5,

XML\_SCHEMAP\_E\_PROPS\_CORRECT\_6,

XML\_SCHEMAP\_SRC\_INCLUDE,

XML\_SCHEMAP\_SRC\_ATTRIBUTE\_1,

XML\_SCHEMAP\_SRC\_ATTRIBUTE\_2,

XML\_SCHEMAP\_SRC\_ATTRIBUTE\_3\_1,

XML\_SCHEMAP\_SRC\_ATTRIBUTE\_3\_2,

XML\_SCHEMAP\_SRC\_ATTRIBUTE\_4,

XML\_SCHEMAP\_NO\_XMLNS,

XML\_SCHEMAP\_NO\_XSI,

XML\_SCHEMAP\_COS\_VALID\_DEFAULT\_1,

XML\_SCHEMAP\_COS\_VALID\_DEFAULT\_2\_1,

XML\_SCHEMAP\_COS\_VALID\_DEFAULT\_2\_2\_1,

XML\_SCHEMAP\_COS\_VALID\_DEFAULT\_2\_2\_2,

XML\_SCHEMAP\_CVC\_SIMPLE\_TYPE,

XML\_SCHEMAP\_COS\_CT\_EXTENDS\_1\_1,

XML\_SCHEMAP\_SRC\_IMPORT\_1\_1,

XML\_SCHEMAP\_SRC\_IMPORT\_1\_2,

XML\_SCHEMAP\_SRC\_IMPORT\_2,

XML\_SCHEMAP\_SRC\_IMPORT\_2\_1,

XML\_SCHEMAP\_SRC\_IMPORT\_2\_2,

XML\_SCHEMAP\_INTERNAL,

XML\_SCHEMAP\_NOT\_DETERMINISTIC,

XML\_SCHEMAP\_SRC\_ATTRIBUTE\_GROUP\_1,

XML\_SCHEMAP\_SRC\_ATTRIBUTE\_GROUP\_2,

XML\_SCHEMAP\_SRC\_ATTRIBUTE\_GROUP\_3,

XML\_SCHEMAP\_MG\_PROPS\_CORRECT\_1,

XML\_SCHEMAP\_MG\_PROPS\_CORRECT\_2,

XML\_SCHEMAP\_SRC\_CT\_1,

XML\_SCHEMAP\_DERIVATION\_OK\_RESTRICTION\_2\_1\_3,

XML\_SCHEMAP\_AU\_PROPS\_CORRECT\_2,

XML\_SCHEMAP\_A\_PROPS\_CORRECT\_2,

XML\_SCHEMAP\_C\_PROPS\_CORRECT,

XML\_SCHEMAP\_SRC\_REDEFINE,

XML\_SCHEMAP\_SRC\_IMPORT,

XML\_SCHEMAP\_WARN\_SKIP\_SCHEMA,

XML\_SCHEMAP\_WARN\_UNLOCATED\_SCHEMA,

XML\_SCHEMAP\_WARN\_ATTR\_REDECL\_PROH,

XML\_SCHEMAP\_WARN\_ATTR\_POINTLESS\_PROH,

XML\_MODULE\_OPEN = 4900,

XML\_MODULE\_CLOSE,

XML\_CHECK\_FOUND\_ELEMENT = 5000,

XML\_CHECK\_FOUND\_ATTRIBUTE,

XML\_CHECK\_FOUND\_TEXT,

XML\_CHECK\_FOUND\_CDATA,

XML\_CHECK\_FOUND\_ENTITYREF,

XML\_CHECK\_FOUND\_ENTITY,

XML\_CHECK\_FOUND\_PI,

XML\_CHECK\_FOUND\_COMMENT,

XML\_CHECK\_FOUND\_DOCTYPE,

XML\_CHECK\_FOUND\_FRAGMENT,

XML\_CHECK\_FOUND\_NOTATION,

XML\_CHECK\_UNKNOWN\_NODE,

XML\_CHECK\_ENTITY\_TYPE,

XML\_CHECK\_NO\_PARENT,

XML\_CHECK\_NO\_DOC,

XML\_CHECK\_NO\_NAME,

XML\_CHECK\_NO\_ELEM,

XML\_CHECK\_WRONG\_DOC,

XML\_CHECK\_NO\_PREV,

XML\_CHECK\_WRONG\_PREV,

XML\_CHECK\_NO\_NEXT,

XML\_CHECK\_WRONG\_NEXT,

XML\_CHECK\_NOT\_DTD,

XML\_CHECK\_NOT\_ATTR,

XML\_CHECK\_NOT\_ATTR\_DECL,

XML\_CHECK\_NOT\_ELEM\_DECL,

XML\_CHECK\_NOT\_ENTITY\_DECL,

XML\_CHECK\_NOT\_NS\_DECL,

XML\_CHECK\_NO\_HREF,

XML\_CHECK\_WRONG\_PARENT,

XML\_CHECK\_NS\_SCOPE,

XML\_CHECK\_NS\_ANCESTOR,

XML\_CHECK\_NOT\_UTF8,

XML\_CHECK\_NO\_DICT,

XML\_CHECK\_NOT\_NCNAME,

XML\_CHECK\_OUTSIDE\_DICT,

XML\_CHECK\_WRONG\_NAME,

XML\_CHECK\_NAME\_NOT\_NULL,

XML\_I18N\_NO\_NAME = 6000,

XML\_I18N\_NO\_HANDLER,

XML\_I18N\_EXCESS\_HANDLER,

XML\_I18N\_CONV\_FAILED,

XML\_I18N\_NO\_OUTPUT

} xmlParserErrors;

extern void initGenericErrorDefaultFunc(xmlGenericErrorFunc \* handler);

extern int xmlCopyError(xmlErrorPtr from, xmlErrorPtr to);

extern xmlErrorPtr xmlCtxtGetLastError(void \*ctx);

extern void xmlCtxtResetLastError(void \*ctx);

extern xmlErrorPtr xmlGetLastError(void);

extern void xmlParserError(void \*ctx, const char \*msg, ...);

extern void xmlParserPrintFileContext(xmlParserInputPtr input);

extern void xmlParserPrintFileInfo(xmlParserInputPtr input);

extern void xmlParserValidityError(void \*ctx, const char \*msg, ...);

extern void xmlParserValidityWarning(void \*ctx, const char \*msg, ...);

extern void xmlParserWarning(void \*ctx, const char \*msg, ...);

extern void xmlResetError(xmlErrorPtr err);

extern void xmlResetLastError(void);

extern void xmlSetGenericErrorFunc(void \*ctx, xmlGenericErrorFunc handler);

extern void xmlSetStructuredErrorFunc(void \*ctx,

xmlStructuredErrorFunc handler);

### **8.2.26 libxml2/libxml/xmlexports.h**

#define XMLCALL

#define XMLCDECL

#define XMLPUBFUN

#define XMLPUBVAR extern

#define LIBXML\_DLL\_IMPORT XMLPUBVAR

### **8.2.27 libxml2/libxml/xmlmemory.h**

typedef void (\*xmlFreeFunc) (void \*);

typedef void \*(\*xmlMallocFunc) (size\_t);

typedef void \*(\*xmlReallocFunc) (void \*, size\_t);

typedef char \*(\*xmlStrdupFunc) (const char \*);

extern void xmlCleanupMemory(void);

extern int xmlGcMemGet(xmlFreeFunc \* freeFunc, xmlMallocFunc \* mallocFunc,

xmlMallocFunc \* mallocAtomicFunc,

xmlReallocFunc \* reallocFunc,

xmlStrdupFunc \* strdupFunc);

extern int xmlGcMemSetup(xmlFreeFunc freeFunc, xmlMallocFunc mallocFunc,

xmlMallocFunc mallocAtomicFunc,

xmlReallocFunc reallocFunc,

xmlStrdupFunc strdupFunc);

extern int xmlInitMemory(void);

extern void \*xmlMallocAtomicLoc(size\_t size, const char \*file, int line);

extern void \*xmlMallocLoc(size\_t size, const char \*file, int line);

extern int xmlMemBlocks(void);

extern void xmlMemDisplay(FILE \* fp);

extern void xmlMemFree(void \*ptr);

extern int xmlMemGet(xmlFreeFunc \* freeFunc, xmlMallocFunc \* mallocFunc,

xmlReallocFunc \* reallocFunc,

xmlStrdupFunc \* strdupFunc);

extern void \*xmlMemMalloc(size\_t size);

extern void \*xmlMemRealloc(void \*ptr, size\_t size);

extern int xmlMemSetup(xmlFreeFunc freeFunc, xmlMallocFunc mallocFunc,

xmlReallocFunc reallocFunc,

xmlStrdupFunc strdupFunc);

extern void xmlMemShow(FILE \* fp, int nr);

extern char \*xmlMemStrdupLoc(const char \*str, const char \*file, int line);

extern int xmlMemUsed(void);

extern void xmlMemoryDump(void);

extern char \*xmlMemoryStrdup(const char \*str);

extern void \*xmlReallocLoc(void \*ptr, size\_t size, const char \*file,

int line);

### **8.2.28 libxml2/libxml/xmlmodule.h**

typedef struct \_xmlModule xmlModule;

typedef xmlModule \*xmlModulePtr;

typedef enum {

XML\_MODULE\_LAZY = 1,

XML\_MODULE\_LOCAL = 2

} xmlModuleOption;

extern int xmlModuleClose(xmlModulePtr module);

extern int xmlModuleFree(xmlModulePtr module);

extern xmlModulePtr xmlModuleOpen(const char \*filename, int options);

extern int xmlModuleSymbol(xmlModulePtr module, const char \*name,

void \*\*result);

### **8.2.29 libxml2/libxml/xmlreader.h**

typedef struct \_xmlTextReader xmlTextReader;

typedef xmlTextReader \*xmlTextReaderPtr;

typedef enum {

XML\_PARSER\_SEVERITY\_VALIDITY\_WARNING = 1,

XML\_PARSER\_SEVERITY\_VALIDITY\_ERROR = 2,

XML\_PARSER\_SEVERITY\_WARNING = 3,

XML\_PARSER\_SEVERITY\_ERROR = 4

} xmlParserSeverities;

typedef void \*xmlTextReaderLocatorPtr;

typedef void (\*xmlTextReaderErrorFunc) (void \*, const char \*,

xmlParserSeverities,

xmlTextReaderLocatorPtr);

typedef enum {

XML\_PARSER\_LOADDTD = 1,

XML\_PARSER\_DEFAULTATTRS = 2,

XML\_PARSER\_VALIDATE = 3,

XML\_PARSER\_SUBST\_ENTITIES = 4

} xmlParserProperties;

typedef enum {

XML\_READER\_TYPE\_NONE = 0,

XML\_READER\_TYPE\_ELEMENT = 1,

XML\_READER\_TYPE\_ATTRIBUTE = 2,

XML\_READER\_TYPE\_TEXT = 3,

XML\_READER\_TYPE\_CDATA = 4,

XML\_READER\_TYPE\_ENTITY\_REFERENCE = 5,

XML\_READER\_TYPE\_ENTITY = 6,

XML\_READER\_TYPE\_PROCESSING\_INSTRUCTION = 7,

XML\_READER\_TYPE\_COMMENT = 8,

XML\_READER\_TYPE\_DOCUMENT = 9,

XML\_READER\_TYPE\_DOCUMENT\_TYPE = 10,

XML\_READER\_TYPE\_DOCUMENT\_FRAGMENT = 11,

XML\_READER\_TYPE\_NOTATION = 12,

XML\_READER\_TYPE\_WHITESPACE = 13,

XML\_READER\_TYPE\_SIGNIFICANT\_WHITESPACE = 14,

XML\_READER\_TYPE\_END\_ELEMENT = 15,

XML\_READER\_TYPE\_END\_ENTITY = 16,

XML\_READER\_TYPE\_XML\_DECLARATION = 17

} xmlReaderTypes;

typedef enum {

XML\_TEXTREADER\_MODE\_INITIAL = 0,

XML\_TEXTREADER\_MODE\_INTERACTIVE = 1,

XML\_TEXTREADER\_MODE\_ERROR = 2,

XML\_TEXTREADER\_MODE\_EOF = 3,

XML\_TEXTREADER\_MODE\_CLOSED = 4,

XML\_TEXTREADER\_MODE\_READING = 5

} xmlTextReaderMode;

extern void xmlFreeTextReader(xmlTextReaderPtr reader);

extern xmlTextReaderPtr xmlNewTextReader(xmlParserInputBufferPtr input,

const char \*URI);

extern xmlTextReaderPtr xmlNewTextReaderFilename(const char \*URI);

extern xmlTextReaderPtr xmlReaderForDoc(const xmlChar \* cur,

const char \*URL,

const char \*encoding, int options);

extern xmlTextReaderPtr xmlReaderForFd(int fd, const char \*URL,

const char \*encoding, int options);

extern xmlTextReaderPtr xmlReaderForFile(const char \*filename,

const char \*encoding,

int options);

extern xmlTextReaderPtr xmlReaderForIO(xmlInputReadCallback ioread,

xmlInputCloseCallback ioclose,

void \*ioctx, const char \*URL,

const char \*encoding, int options);

extern xmlTextReaderPtr xmlReaderForMemory(const char \*buffer, int size,

const char \*URL,

const char \*encoding,

int options);

extern int xmlReaderNewDoc(xmlTextReaderPtr reader, const xmlChar \* cur,

const char \*URL, const char \*encoding,

int options);

extern int xmlReaderNewFd(xmlTextReaderPtr reader, int fd, const char \*URL,

const char \*encoding, int options);

extern int xmlReaderNewFile(xmlTextReaderPtr reader, const char \*filename,

const char \*encoding, int options);

extern int xmlReaderNewIO(xmlTextReaderPtr reader,

xmlInputReadCallback ioread,

xmlInputCloseCallback ioclose, void \*ioctx,

const char \*URL, const char \*encoding,

int options);

extern int xmlReaderNewMemory(xmlTextReaderPtr reader, const char \*buffer,

int size, const char \*URL,

const char \*encoding, int options);

extern int xmlReaderNewWalker(xmlTextReaderPtr reader, xmlDocPtr doc);

extern xmlTextReaderPtr xmlReaderWalker(xmlDocPtr doc);

extern int xmlTextReaderAttributeCount(xmlTextReaderPtr reader);

extern xmlChar \*xmlTextReaderBaseUri(xmlTextReaderPtr reader);

extern long int xmlTextReaderByteConsumed(xmlTextReaderPtr reader);

extern int xmlTextReaderClose(xmlTextReaderPtr reader);

extern const xmlChar \*xmlTextReaderConstBaseUri(xmlTextReaderPtr reader);

extern const xmlChar \*xmlTextReaderConstEncoding(xmlTextReaderPtr reader);

extern const xmlChar \*xmlTextReaderConstLocalName(xmlTextReaderPtr reader);

extern const xmlChar \*xmlTextReaderConstName(xmlTextReaderPtr reader);

extern const xmlChar \*xmlTextReaderConstNamespaceUri(xmlTextReaderPtr

reader);

extern const xmlChar \*xmlTextReaderConstPrefix(xmlTextReaderPtr reader);

extern const xmlChar \*xmlTextReaderConstString(xmlTextReaderPtr reader,

const xmlChar \* str);

extern const xmlChar \*xmlTextReaderConstValue(xmlTextReaderPtr reader);

extern const xmlChar \*xmlTextReaderConstXmlLang(xmlTextReaderPtr reader);

extern const xmlChar \*xmlTextReaderConstXmlVersion(xmlTextReaderPtr

reader);

extern xmlDocPtr xmlTextReaderCurrentDoc(xmlTextReaderPtr reader);

extern xmlNodePtr xmlTextReaderCurrentNode(xmlTextReaderPtr reader);

extern int xmlTextReaderDepth(xmlTextReaderPtr reader);

extern xmlNodePtr xmlTextReaderExpand(xmlTextReaderPtr reader);

extern xmlChar \*xmlTextReaderGetAttribute(xmlTextReaderPtr reader,

const xmlChar \* name);

extern xmlChar \*xmlTextReaderGetAttributeNo(xmlTextReaderPtr reader,

int no);

extern xmlChar \*xmlTextReaderGetAttributeNs(xmlTextReaderPtr reader,

const xmlChar \* localName,

const xmlChar \* namespaceURI);

extern void xmlTextReaderGetErrorHandler(xmlTextReaderPtr reader,

xmlTextReaderErrorFunc \* f,

void \*\*arg);

extern int xmlTextReaderGetParserColumnNumber(xmlTextReaderPtr reader);

extern int xmlTextReaderGetParserLineNumber(xmlTextReaderPtr reader);

extern int xmlTextReaderGetParserProp(xmlTextReaderPtr reader, int prop);

extern xmlParserInputBufferPtr xmlTextReaderGetRemainder(xmlTextReaderPtr

reader);

extern int xmlTextReaderHasAttributes(xmlTextReaderPtr reader);

extern int xmlTextReaderHasValue(xmlTextReaderPtr reader);

extern int xmlTextReaderIsDefault(xmlTextReaderPtr reader);

extern int xmlTextReaderIsEmptyElement(xmlTextReaderPtr reader);

extern int xmlTextReaderIsNamespaceDecl(xmlTextReaderPtr reader);

extern int xmlTextReaderIsValid(xmlTextReaderPtr reader);

extern xmlChar \*xmlTextReaderLocalName(xmlTextReaderPtr reader);

extern xmlChar \*xmlTextReaderLocatorBaseURI(xmlTextReaderLocatorPtr

locator);

extern int xmlTextReaderLocatorLineNumber(xmlTextReaderLocatorPtr locator);

extern xmlChar \*xmlTextReaderLookupNamespace(xmlTextReaderPtr reader,

const xmlChar \* prefix);

extern int xmlTextReaderMoveToAttribute(xmlTextReaderPtr reader,

const xmlChar \* name);

extern int xmlTextReaderMoveToAttributeNo(xmlTextReaderPtr reader, int no);

extern int xmlTextReaderMoveToAttributeNs(xmlTextReaderPtr reader,

const xmlChar \* localName,

const xmlChar \* namespaceURI);

extern int xmlTextReaderMoveToElement(xmlTextReaderPtr reader);

extern int xmlTextReaderMoveToFirstAttribute(xmlTextReaderPtr reader);

extern int xmlTextReaderMoveToNextAttribute(xmlTextReaderPtr reader);

extern xmlChar \*xmlTextReaderName(xmlTextReaderPtr reader);

extern xmlChar \*xmlTextReaderNamespaceUri(xmlTextReaderPtr reader);

extern int xmlTextReaderNext(xmlTextReaderPtr reader);

extern int xmlTextReaderNextSibling(xmlTextReaderPtr reader);

extern int xmlTextReaderNodeType(xmlTextReaderPtr reader);

extern int xmlTextReaderNormalization(xmlTextReaderPtr reader);

extern xmlChar \*xmlTextReaderPrefix(xmlTextReaderPtr reader);

extern xmlNodePtr xmlTextReaderPreserve(xmlTextReaderPtr reader);

extern int xmlTextReaderPreservePattern(xmlTextReaderPtr reader,

const xmlChar \* pattern,

const xmlChar \* \*namespaces);

extern int xmlTextReaderQuoteChar(xmlTextReaderPtr reader);

extern int xmlTextReaderRead(xmlTextReaderPtr reader);

extern int xmlTextReaderReadAttributeValue(xmlTextReaderPtr reader);

extern xmlChar \*xmlTextReaderReadInnerXml(xmlTextReaderPtr reader);

extern xmlChar \*xmlTextReaderReadOuterXml(xmlTextReaderPtr reader);

extern int xmlTextReaderReadState(xmlTextReaderPtr reader);

extern xmlChar \*xmlTextReaderReadString(xmlTextReaderPtr reader);

extern int xmlTextReaderRelaxNGSetSchema(xmlTextReaderPtr reader,

xmlRelaxNGPtr schema);

extern int xmlTextReaderRelaxNGValidate(xmlTextReaderPtr reader,

const char \*rng);

extern int xmlTextReaderSchemaValidate(xmlTextReaderPtr reader,

const char \*xsd);

extern void xmlTextReaderSetErrorHandler(xmlTextReaderPtr reader,

xmlTextReaderErrorFunc f,

void \*arg);

extern int xmlTextReaderSetParserProp(xmlTextReaderPtr reader, int prop,

int value);

extern int xmlTextReaderSetSchema(xmlTextReaderPtr reader,

xmlSchemaPtr schema);

extern void xmlTextReaderSetStructuredErrorHandler(xmlTextReaderPtr reader,

xmlStructuredErrorFunc

f, void \*arg);

extern int xmlTextReaderStandalone(xmlTextReaderPtr reader);

extern xmlChar \*xmlTextReaderValue(xmlTextReaderPtr reader);

extern xmlChar \*xmlTextReaderXmlLang(xmlTextReaderPtr reader);

### **8.2.30 libxml2/libxml/xmlregexp.h**

typedef struct \_xmlRegexp xmlRegexp;

typedef xmlRegexp \*xmlRegexpPtr;

typedef struct \_xmlRegExecCtxt xmlRegExecCtxt;

typedef xmlRegExecCtxt \*xmlRegExecCtxtPtr;

typedef struct \_xmlExpNode xmlExpNode;

typedef xmlExpNode \*xmlExpNodePtr;

typedef void (\*xmlRegExecCallbacks) (xmlRegExecCtxtPtr, const xmlChar \*,

void \*, void \*);

typedef struct \_xmlExpCtxt xmlExpCtxt;

typedef xmlExpCtxt \*xmlExpCtxtPtr;

typedef enum {

XML\_EXP\_EMPTY = 0,

XML\_EXP\_FORBID = 1,

XML\_EXP\_ATOM = 2,

XML\_EXP\_SEQ = 3,

XML\_EXP\_OR = 4,

XML\_EXP\_COUNT = 5

} xmlExpNodeType;

extern xmlExpNodePtr emptyExp;

extern xmlExpNodePtr forbiddenExp;

extern int xmlExpCtxtNbCons(xmlExpCtxtPtr ctxt);

extern int xmlExpCtxtNbNodes(xmlExpCtxtPtr ctxt);

extern void xmlExpDump(xmlBufferPtr buf, xmlExpNodePtr expr);

extern xmlExpNodePtr xmlExpExpDerive(xmlExpCtxtPtr ctxt,

xmlExpNodePtr expr,

xmlExpNodePtr sub);

extern void xmlExpFree(xmlExpCtxtPtr ctxt, xmlExpNodePtr expr);

extern void xmlExpFreeCtxt(xmlExpCtxtPtr ctxt);

extern int xmlExpGetLanguage(xmlExpCtxtPtr ctxt, xmlExpNodePtr expr,

const xmlChar \* \*langList, int len);

extern int xmlExpGetStart(xmlExpCtxtPtr ctxt, xmlExpNodePtr expr,

const xmlChar \* \*tokList, int len);

extern int xmlExpIsNillable(xmlExpNodePtr expr);

extern int xmlExpMaxToken(xmlExpNodePtr expr);

extern xmlExpNodePtr xmlExpNewAtom(xmlExpCtxtPtr ctxt,

const xmlChar \* name, int len);

extern xmlExpCtxtPtr xmlExpNewCtxt(int maxNodes, xmlDictPtr dict);

extern xmlExpNodePtr xmlExpNewOr(xmlExpCtxtPtr ctxt, xmlExpNodePtr left,

xmlExpNodePtr right);

extern xmlExpNodePtr xmlExpNewRange(xmlExpCtxtPtr ctxt,

xmlExpNodePtr subset, int min,

int max);

extern xmlExpNodePtr xmlExpNewSeq(xmlExpCtxtPtr ctxt, xmlExpNodePtr left,

xmlExpNodePtr right);

extern xmlExpNodePtr xmlExpParse(xmlExpCtxtPtr ctxt, const char \*expr);

extern void xmlExpRef(xmlExpNodePtr expr);

extern xmlExpNodePtr xmlExpStringDerive(xmlExpCtxtPtr ctxt,

xmlExpNodePtr expr,

const xmlChar \* str, int len);

extern int xmlExpSubsume(xmlExpCtxtPtr ctxt, xmlExpNodePtr expr,

xmlExpNodePtr sub);

extern int xmlRegExecErrInfo(xmlRegExecCtxtPtr exec,

const xmlChar \* \*string, int \*nbval,

int \*nbneg, xmlChar \* \*values, int \*terminal);

extern int xmlRegExecNextValues(xmlRegExecCtxtPtr exec, int \*nbval,

int \*nbneg, xmlChar \* \*values,

int \*terminal);

extern int xmlRegExecPushString(xmlRegExecCtxtPtr exec,

const xmlChar \* value, void \*data);

extern int xmlRegExecPushString2(xmlRegExecCtxtPtr exec,

const xmlChar \* value,

const xmlChar \* value2, void \*data);

extern void xmlRegFreeExecCtxt(xmlRegExecCtxtPtr exec);

extern void xmlRegFreeRegexp(xmlRegexpPtr regexp);

extern xmlRegExecCtxtPtr xmlRegNewExecCtxt(xmlRegexpPtr comp,

xmlRegExecCallbacks callback,

void \*data);

extern xmlRegexpPtr xmlRegexpCompile(const xmlChar \* regexp);

extern int xmlRegexpExec(xmlRegexpPtr comp, const xmlChar \* value);

extern int xmlRegexpIsDeterminist(xmlRegexpPtr comp);

extern void xmlRegexpPrint(FILE \* output, xmlRegexpPtr regexp);

### **8.2.31 libxml2/libxml/xmlsave.h**

typedef struct \_xmlSaveCtxt xmlSaveCtxt;

typedef xmlSaveCtxt \*xmlSaveCtxtPtr;

typedef enum {

XML\_SAVE\_FORMAT = 1 << 0,

XML\_SAVE\_NO\_DECL = 1 << 1,

XML\_SAVE\_NO\_EMPTY = 1 << 2,

XML\_SAVE\_NO\_XHTML = 1 << 3

} xmlSaveOption;

extern int xmlSaveClose(xmlSaveCtxtPtr ctxt);

extern long int xmlSaveDoc(xmlSaveCtxtPtr ctxt, xmlDocPtr doc);

extern int xmlSaveFlush(xmlSaveCtxtPtr ctxt);

extern int xmlSaveSetAttrEscape(xmlSaveCtxtPtr ctxt,

xmlCharEncodingOutputFunc escape);

extern int xmlSaveSetEscape(xmlSaveCtxtPtr ctxt,

xmlCharEncodingOutputFunc escape);

extern xmlSaveCtxtPtr xmlSaveToFd(int fd, const char \*encoding,

int options);

extern xmlSaveCtxtPtr xmlSaveToFilename(const char \*filename,

const char \*encoding, int options);

extern xmlSaveCtxtPtr xmlSaveToIO(xmlOutputWriteCallback iowrite,

xmlOutputCloseCallback ioclose,

void \*ioctx, const char \*encoding,

int options);

extern long int xmlSaveTree(xmlSaveCtxtPtr ctxt, xmlNodePtr node);

### **8.2.32 libxml2/libxml/xmlschemas.h**

typedef struct \_xmlSchemaValidCtxt xmlSchemaValidCtxt;

typedef xmlSchemaValidCtxt \*xmlSchemaValidCtxtPtr;

typedef struct \_xmlSchemaSAXPlug xmlSchemaSAXPlugStruct;

typedef xmlSchemaSAXPlugStruct \*xmlSchemaSAXPlugPtr;

typedef struct \_xmlSchemaParserCtxt xmlSchemaParserCtxt;

typedef xmlSchemaParserCtxt \*xmlSchemaParserCtxtPtr;

typedef void (\*xmlSchemaValidityErrorFunc) (void \*, const char \*, ...);

typedef void (\*xmlSchemaValidityWarningFunc) (void \*, const char \*, ...);

typedef struct \_xmlSchema xmlSchema;

typedef xmlSchema \*xmlSchemaPtr;

typedef enum {

XML\_SCHEMA\_VAL\_VC\_I\_CREATE = 1 << 0

} xmlSchemaValidOption;

extern void xmlSchemaDump(FILE \* output, xmlSchemaPtr schema);

extern void xmlSchemaFree(xmlSchemaPtr schema);

extern void xmlSchemaFreeParserCtxt(xmlSchemaParserCtxtPtr ctxt);

extern void xmlSchemaFreeValidCtxt(xmlSchemaValidCtxtPtr ctxt);

extern int xmlSchemaGetParserErrors(xmlSchemaParserCtxtPtr ctxt,

xmlSchemaValidityErrorFunc \* err,

xmlSchemaValidityWarningFunc \* warn,

void \*\*ctx);

extern int xmlSchemaGetValidErrors(xmlSchemaValidCtxtPtr ctxt,

xmlSchemaValidityErrorFunc \* err,

xmlSchemaValidityWarningFunc \* warn,

void \*\*ctx);

extern int xmlSchemaIsValid(xmlSchemaValidCtxtPtr ctxt);

extern xmlSchemaParserCtxtPtr xmlSchemaNewDocParserCtxt(xmlDocPtr doc);

extern xmlSchemaParserCtxtPtr xmlSchemaNewMemParserCtxt(const char \*buffer,

int size);

extern xmlSchemaParserCtxtPtr xmlSchemaNewParserCtxt(const char \*URL);

extern xmlSchemaValidCtxtPtr xmlSchemaNewValidCtxt(xmlSchemaPtr schema);

extern xmlSchemaPtr xmlSchemaParse(xmlSchemaParserCtxtPtr ctxt);

extern xmlSchemaSAXPlugPtr xmlSchemaSAXPlug(xmlSchemaValidCtxtPtr ctxt,

xmlSAXHandlerPtr \* sax,

void \*\*user\_data);

extern int xmlSchemaSAXUnplug(xmlSchemaSAXPlugPtr plug);

extern void xmlSchemaSetParserErrors(xmlSchemaParserCtxtPtr ctxt,

xmlSchemaValidityErrorFunc err,

xmlSchemaValidityWarningFunc warn,

void \*ctx);

extern void xmlSchemaSetValidErrors(xmlSchemaValidCtxtPtr ctxt,

xmlSchemaValidityErrorFunc err,

xmlSchemaValidityWarningFunc warn,

void \*ctx);

extern int xmlSchemaSetValidOptions(xmlSchemaValidCtxtPtr ctxt,

int options);

extern void xmlSchemaSetValidStructuredErrors(xmlSchemaValidCtxtPtr ctxt,

xmlStructuredErrorFunc

serror, void \*ctx);

extern int xmlSchemaValidCtxtGetOptions(xmlSchemaValidCtxtPtr ctxt);

extern int xmlSchemaValidateDoc(xmlSchemaValidCtxtPtr ctxt,

xmlDocPtr instance);

extern int xmlSchemaValidateFile(xmlSchemaValidCtxtPtr ctxt,

const char \*filename, int options);

extern int xmlSchemaValidateOneElement(xmlSchemaValidCtxtPtr ctxt,

xmlNodePtr elem);

extern int xmlSchemaValidateStream(xmlSchemaValidCtxtPtr ctxt,

xmlParserInputBufferPtr input,

xmlCharEncoding enc,

xmlSAXHandlerPtr sax, void \*user\_data);

### **8.2.33 libxml2/libxml/xmlschemastypes.h**

typedef struct \_xmlSchemaType xmlSchemaType;

typedef xmlSchemaType \*xmlSchemaTypePtr;

typedef struct \_xmlSchemaVal xmlSchemaVal;

typedef xmlSchemaVal \*xmlSchemaValPtr;

typedef enum {

XML\_SCHEMAS\_UNKNOWN = 0,

XML\_SCHEMAS\_STRING = 1,

XML\_SCHEMAS\_NORMSTRING = 2,

XML\_SCHEMAS\_DECIMAL = 3,

XML\_SCHEMAS\_TIME = 4,

XML\_SCHEMAS\_GDAY = 5,

XML\_SCHEMAS\_GMONTH = 6,

XML\_SCHEMAS\_GMONTHDAY = 7,

XML\_SCHEMAS\_GYEAR = 8,

XML\_SCHEMAS\_GYEARMONTH = 9,

XML\_SCHEMAS\_DATE = 10,

XML\_SCHEMAS\_DATETIME = 11,

XML\_SCHEMAS\_DURATION = 12,

XML\_SCHEMAS\_FLOAT = 13,

XML\_SCHEMAS\_DOUBLE = 14,

XML\_SCHEMAS\_BOOLEAN = 15,

XML\_SCHEMAS\_TOKEN = 16,

XML\_SCHEMAS\_LANGUAGE = 17,

XML\_SCHEMAS\_NMTOKEN = 18,

XML\_SCHEMAS\_NMTOKENS = 19,

XML\_SCHEMAS\_NAME = 20,

XML\_SCHEMAS\_QNAME = 21,

XML\_SCHEMAS\_NCNAME = 22,

XML\_SCHEMAS\_ID = 23,

XML\_SCHEMAS\_IDREF = 24,

XML\_SCHEMAS\_IDREFS = 25,

XML\_SCHEMAS\_ENTITY = 26,

XML\_SCHEMAS\_ENTITIES = 27,

XML\_SCHEMAS\_NOTATION = 28,

XML\_SCHEMAS\_ANYURI = 29,

XML\_SCHEMAS\_INTEGER = 30,

XML\_SCHEMAS\_NPINTEGER = 31,

XML\_SCHEMAS\_NINTEGER = 32,

XML\_SCHEMAS\_NNINTEGER = 33,

XML\_SCHEMAS\_PINTEGER = 34,

XML\_SCHEMAS\_INT = 35,

XML\_SCHEMAS\_UINT = 36,

XML\_SCHEMAS\_LONG = 37,

XML\_SCHEMAS\_ULONG = 38,

XML\_SCHEMAS\_SHORT = 39,

XML\_SCHEMAS\_USHORT = 40,

XML\_SCHEMAS\_BYTE = 41,

XML\_SCHEMAS\_UBYTE = 42,

XML\_SCHEMAS\_HEXBINARY = 43,

XML\_SCHEMAS\_BASE64BINARY = 44,

XML\_SCHEMAS\_ANYTYPE = 45,

XML\_SCHEMAS\_ANYSIMPLETYPE = 46

} xmlSchemaValType;

extern void xmlSchemaCleanupTypes(void);

extern xmlChar \*xmlSchemaCollapseString(const xmlChar \* value);

extern int xmlSchemaCompareValues(xmlSchemaValPtr x, xmlSchemaValPtr y);

extern void xmlSchemaFreeValue(xmlSchemaValPtr val);

extern xmlSchemaTypePtr xmlSchemaGetBuiltInType(xmlSchemaValType type);

extern int xmlSchemaGetCanonValue(xmlSchemaValPtr val,

const xmlChar \* \*retValue);

extern xmlSchemaValType xmlSchemaGetValType(xmlSchemaValPtr val);

extern void xmlSchemaInitTypes(void);

extern int xmlSchemaValPredefTypeNode(xmlSchemaTypePtr type,

const xmlChar \* value,

xmlSchemaValPtr \* val,

xmlNodePtr node);

### **8.2.34 libxml2/libxml/xmlstring.h**

#define BAD\_CAST (xmlChar \*)

typedef unsigned char xmlChar;

extern xmlChar \*xmlCharStrdup(const char \*cur);

extern xmlChar \*xmlCharStrndup(const char \*cur, int len);

extern int xmlCheckUTF8(const unsigned char \*utf);

extern int xmlGetUTF8Char(const unsigned char \*utf, int \*len);

extern int xmlStrEqual(const xmlChar \* str1, const xmlChar \* str2);

extern int xmlStrPrintf(xmlChar \* buf, int len, const xmlChar \* msg, ...);

extern int xmlStrQEqual(const xmlChar \* pref, const xmlChar \* name,

const xmlChar \* str);

extern int xmlStrVPrintf(xmlChar \* buf, int len, const xmlChar \* msg,

va\_list ap);

extern int xmlStrcasecmp(const xmlChar \* str1, const xmlChar \* str2);

extern const xmlChar \*xmlStrcasestr(const xmlChar \* str,

const xmlChar \* val);

extern xmlChar \*xmlStrcat(xmlChar \* cur, const xmlChar \* add);

extern const xmlChar \*xmlStrchr(const xmlChar \* str, xmlChar val);

extern int xmlStrcmp(const xmlChar \* str1, const xmlChar \* str2);

extern xmlChar \*xmlStrdup(const xmlChar \* cur);

extern int xmlStrlen(const xmlChar \* str);

extern int xmlStrncasecmp(const xmlChar \* str1, const xmlChar \* str2,

int len);

extern xmlChar \*xmlStrncat(xmlChar \* cur, const xmlChar \* add, int len);

extern xmlChar \*xmlStrncatNew(const xmlChar \* str1, const xmlChar \* str2,

int len);

extern int xmlStrncmp(const xmlChar \* str1, const xmlChar \* str2, int len);

extern xmlChar \*xmlStrndup(const xmlChar \* cur, int len);

extern const xmlChar \*xmlStrstr(const xmlChar \* str, const xmlChar \* val);

extern xmlChar \*xmlStrsub(const xmlChar \* str, int start, int len);

extern int xmlUTF8Charcmp(const xmlChar \* utf1, const xmlChar \* utf2);

extern int xmlUTF8Size(const xmlChar \* utf);

extern int xmlUTF8Strlen(const xmlChar \* utf);

extern int xmlUTF8Strloc(const xmlChar \* utf, const xmlChar \* utfchar);

extern xmlChar \*xmlUTF8Strndup(const xmlChar \* utf, int len);

extern const xmlChar \*xmlUTF8Strpos(const xmlChar \* utf, int pos);

extern int xmlUTF8Strsize(const xmlChar \* utf, int len);

extern xmlChar \*xmlUTF8Strsub(const xmlChar \* utf, int start, int len);

### **8.2.35 libxml2/libxml/xmlversion.h**

#define LIBXML\_AUTOMATA\_ENABLED

#define LIBXML\_C14N\_ENABLED

#define LIBXML\_CATALOG\_ENABLED

#define LIBXML\_DEBUG\_ENABLED

#define LIBXML\_DOCB\_ENABLED

#define LIBXML\_EXPR\_ENABLED

#define LIBXML\_FTP\_ENABLED

#define LIBXML\_HTML\_ENABLED

#define LIBXML\_HTTP\_ENABLED

#define LIBXML\_ICONV\_ENABLED

#define LIBXML\_ISO8859X\_ENABLED

#define LIBXML\_LEGACY\_ENABLED

#define LIBXML\_MODULES\_ENABLED

#define LIBXML\_OUTPUT\_ENABLED

#define LIBXML\_PATTERN\_ENABLED

#define LIBXML\_PUSH\_ENABLED

#define LIBXML\_READER\_ENABLED

#define LIBXML\_REGEXP\_ENABLED

#define LIBXML\_SAX1\_ENABLED

#define LIBXML\_SCHEMAS\_ENABLED

#define LIBXML\_SCHEMATRON\_ENABLED

#define LIBXML\_THREAD\_ENABLED

#define LIBXML\_TREE\_ENABLED

#define LIBXML\_UNICODE\_ENABLED

#define LIBXML\_VALID\_ENABLED

#define LIBXML\_VERSION\_EXTRA ""

#define LIBXML\_WRITER\_ENABLED

#define LIBXML\_XINCLUDE\_ENABLED

#define LIBXML\_XPATH\_ENABLED

#define LIBXML\_XPTR\_ENABLED

#define WITHOUT\_TRIO

#define LIBXML\_DOTTED\_VERSION "2.6.22"

#define LIBXML\_VERSION\_STRING "20622"

#define LIBXML\_MODULE\_EXTENSION ".so"

#define LIBXML\_VERSION 20622

#define LIBXML\_TEST\_VERSION xmlCheckVersion(20622);

#define ATTRIBUTE\_UNUSED \_\_attribute\_\_((unused))

extern void xmlCheckVersion(int version);

### **8.2.36 libxml2/libxml/xmlwriter.h**

#define xmlTextWriterWriteDocType xmlTextWriterWriteDTD

#define xmlTextWriterWriteProcessingInstruction xmlTextWriterWritePI

typedef struct \_xmlTextWriter xmlTextWriter;

typedef xmlTextWriter \*xmlTextWriterPtr;

extern void xmlFreeTextWriter(xmlTextWriterPtr writer);

extern xmlTextWriterPtr xmlNewTextWriter(xmlOutputBufferPtr out);

extern xmlTextWriterPtr xmlNewTextWriterDoc(xmlDocPtr \* doc,

int compression);

extern xmlTextWriterPtr xmlNewTextWriterFilename(const char \*uri,

int compression);

extern xmlTextWriterPtr xmlNewTextWriterMemory(xmlBufferPtr buf,

int compression);

extern xmlTextWriterPtr xmlNewTextWriterPushParser(xmlParserCtxtPtr ctxt,

int compression);

extern xmlTextWriterPtr xmlNewTextWriterTree(xmlDocPtr doc,

xmlNodePtr node,

int compression);

extern int xmlTextWriterEndAttribute(xmlTextWriterPtr writer);

extern int xmlTextWriterEndCDATA(xmlTextWriterPtr writer);

extern int xmlTextWriterEndComment(xmlTextWriterPtr writer);

extern int xmlTextWriterEndDTD(xmlTextWriterPtr writer);

extern int xmlTextWriterEndDTDAttlist(xmlTextWriterPtr writer);

extern int xmlTextWriterEndDTDElement(xmlTextWriterPtr writer);

extern int xmlTextWriterEndDTDEntity(xmlTextWriterPtr writer);

extern int xmlTextWriterEndDocument(xmlTextWriterPtr writer);

extern int xmlTextWriterEndElement(xmlTextWriterPtr writer);

extern int xmlTextWriterEndPI(xmlTextWriterPtr writer);

extern int xmlTextWriterFlush(xmlTextWriterPtr writer);

extern int xmlTextWriterFullEndElement(xmlTextWriterPtr writer);

extern int xmlTextWriterSetIndent(xmlTextWriterPtr writer, int indent);

extern int xmlTextWriterSetIndentString(xmlTextWriterPtr writer,

const xmlChar \* str);

extern int xmlTextWriterStartAttribute(xmlTextWriterPtr writer,

const xmlChar \* name);

extern int xmlTextWriterStartAttributeNS(xmlTextWriterPtr writer,

const xmlChar \* prefix,

const xmlChar \* name,

const xmlChar \* namespaceURI);

extern int xmlTextWriterStartCDATA(xmlTextWriterPtr writer);

extern int xmlTextWriterStartComment(xmlTextWriterPtr writer);

extern int xmlTextWriterStartDTD(xmlTextWriterPtr writer,

const xmlChar \* name,

const xmlChar \* pubid,

const xmlChar \* sysid);

extern int xmlTextWriterStartDTDAttlist(xmlTextWriterPtr writer,

const xmlChar \* name);

extern int xmlTextWriterStartDTDElement(xmlTextWriterPtr writer,

const xmlChar \* name);

extern int xmlTextWriterStartDTDEntity(xmlTextWriterPtr writer, int pe,

const xmlChar \* name);

extern int xmlTextWriterStartDocument(xmlTextWriterPtr writer,

const char \*version,

const char \*encoding,

const char \*standalone);

extern int xmlTextWriterStartElement(xmlTextWriterPtr writer,

const xmlChar \* name);

extern int xmlTextWriterStartElementNS(xmlTextWriterPtr writer,

const xmlChar \* prefix,

const xmlChar \* name,

const xmlChar \* namespaceURI);

extern int xmlTextWriterStartPI(xmlTextWriterPtr writer,

const xmlChar \* target);

extern int xmlTextWriterWriteAttribute(xmlTextWriterPtr writer,

const xmlChar \* name,

const xmlChar \* content);

extern int xmlTextWriterWriteAttributeNS(xmlTextWriterPtr writer,

const xmlChar \* prefix,

const xmlChar \* name,

const xmlChar \* namespaceURI,

const xmlChar \* content);

extern int xmlTextWriterWriteBase64(xmlTextWriterPtr writer,

const char \*data, int start, int len);

extern int xmlTextWriterWriteBinHex(xmlTextWriterPtr writer,

const char \*data, int start, int len);

extern int xmlTextWriterWriteCDATA(xmlTextWriterPtr writer,

const xmlChar \* content);

extern int xmlTextWriterWriteComment(xmlTextWriterPtr writer,

const xmlChar \* content);

extern int xmlTextWriterWriteDTD(xmlTextWriterPtr writer,

const xmlChar \* name,

const xmlChar \* pubid,

const xmlChar \* sysid,

const xmlChar \* subset);

extern int xmlTextWriterWriteDTDAttlist(xmlTextWriterPtr writer,

const xmlChar \* name,

const xmlChar \* content);

extern int xmlTextWriterWriteDTDElement(xmlTextWriterPtr writer,

const xmlChar \* name,

const xmlChar \* content);

extern int xmlTextWriterWriteDTDEntity(xmlTextWriterPtr writer, int pe,

const xmlChar \* name,

const xmlChar \* pubid,

const xmlChar \* sysid,

const xmlChar \* ndataid,

const xmlChar \* content);

extern int xmlTextWriterWriteDTDExternalEntity(xmlTextWriterPtr writer,

int pe,

const xmlChar \* name,

const xmlChar \* pubid,

const xmlChar \* sysid,

const xmlChar \* ndataid);

extern int xmlTextWriterWriteDTDExternalEntityContents(xmlTextWriterPtr

writer,

const xmlChar \*

pubid,

const xmlChar \*

sysid,

const xmlChar \*

ndataid);

extern int xmlTextWriterWriteDTDInternalEntity(xmlTextWriterPtr writer,

int pe,

const xmlChar \* name,

const xmlChar \* content);

extern int xmlTextWriterWriteDTDNotation(xmlTextWriterPtr writer,

const xmlChar \* name,

const xmlChar \* pubid,

const xmlChar \* sysid);

extern int xmlTextWriterWriteElement(xmlTextWriterPtr writer,

const xmlChar \* name,

const xmlChar \* content);

extern int xmlTextWriterWriteElementNS(xmlTextWriterPtr writer,

const xmlChar \* prefix,

const xmlChar \* name,

const xmlChar \* namespaceURI,

const xmlChar \* content);

extern int xmlTextWriterWriteFormatAttribute(xmlTextWriterPtr writer,

const xmlChar \* name,

const char \*format, ...);

extern int xmlTextWriterWriteFormatAttributeNS(xmlTextWriterPtr writer,

const xmlChar \* prefix,

const xmlChar \* name,

const xmlChar \*

namespaceURI,

const char \*format, ...);

extern int xmlTextWriterWriteFormatCDATA(xmlTextWriterPtr writer,

const char \*format, ...);

extern int xmlTextWriterWriteFormatComment(xmlTextWriterPtr writer,

const char \*format, ...);

extern int xmlTextWriterWriteFormatDTD(xmlTextWriterPtr writer,

const xmlChar \* name,

const xmlChar \* pubid,

const xmlChar \* sysid,

const char \*format, ...);

extern int xmlTextWriterWriteFormatDTDAttlist(xmlTextWriterPtr writer,

const xmlChar \* name,

const char \*format, ...);

extern int xmlTextWriterWriteFormatDTDElement(xmlTextWriterPtr writer,

const xmlChar \* name,

const char \*format, ...);

extern int xmlTextWriterWriteFormatDTDInternalEntity(xmlTextWriterPtr

writer, int pe,

const xmlChar \* name,

const char \*format,

...);

extern int xmlTextWriterWriteFormatElement(xmlTextWriterPtr writer,

const xmlChar \* name,

const char \*format, ...);

extern int xmlTextWriterWriteFormatElementNS(xmlTextWriterPtr writer,

const xmlChar \* prefix,

const xmlChar \* name,

const xmlChar \* namespaceURI,

const char \*format, ...);

extern int xmlTextWriterWriteFormatPI(xmlTextWriterPtr writer,

const xmlChar \* target,

const char \*format, ...);

extern int xmlTextWriterWriteFormatRaw(xmlTextWriterPtr writer,

const char \*format, ...);

extern int xmlTextWriterWriteFormatString(xmlTextWriterPtr writer,

const char \*format, ...);

extern int xmlTextWriterWritePI(xmlTextWriterPtr writer,

const xmlChar \* target,

const xmlChar \* content);

extern int xmlTextWriterWriteRaw(xmlTextWriterPtr writer,

const xmlChar \* content);

extern int xmlTextWriterWriteRawLen(xmlTextWriterPtr writer,

const xmlChar \* content, int len);

extern int xmlTextWriterWriteString(xmlTextWriterPtr writer,

const xmlChar \* content);

extern int xmlTextWriterWriteVFormatAttribute(xmlTextWriterPtr writer,

const xmlChar \* name,

const char \*format,

va\_list argptr);

extern int xmlTextWriterWriteVFormatAttributeNS(xmlTextWriterPtr writer,

const xmlChar \* prefix,

const xmlChar \* name,

const xmlChar \*

namespaceURI,

const char \*format,

va\_list argptr);

extern int xmlTextWriterWriteVFormatCDATA(xmlTextWriterPtr writer,

const char \*format,

va\_list argptr);

extern int xmlTextWriterWriteVFormatComment(xmlTextWriterPtr writer,

const char \*format,

va\_list argptr);

extern int xmlTextWriterWriteVFormatDTD(xmlTextWriterPtr writer,

const xmlChar \* name,

const xmlChar \* pubid,

const xmlChar \* sysid,

const char \*format,

va\_list argptr);

extern int xmlTextWriterWriteVFormatDTDAttlist(xmlTextWriterPtr writer,

const xmlChar \* name,

const char \*format,

va\_list argptr);

extern int xmlTextWriterWriteVFormatDTDElement(xmlTextWriterPtr writer,

const xmlChar \* name,

const char \*format,

va\_list argptr);

extern int xmlTextWriterWriteVFormatDTDInternalEntity(xmlTextWriterPtr

writer, int pe,

const xmlChar \* name,

const char \*format,

va\_list argptr);

extern int xmlTextWriterWriteVFormatElement(xmlTextWriterPtr writer,

const xmlChar \* name,

const char \*format,

va\_list argptr);

extern int xmlTextWriterWriteVFormatElementNS(xmlTextWriterPtr writer,

const xmlChar \* prefix,

const xmlChar \* name,

const xmlChar \* namespaceURI,

const char \*format,

va\_list argptr);

extern int xmlTextWriterWriteVFormatPI(xmlTextWriterPtr writer,

const xmlChar \* target,

const char \*format, va\_list argptr);

extern int xmlTextWriterWriteVFormatRaw(xmlTextWriterPtr writer,

const char \*format,

va\_list argptr);

extern int xmlTextWriterWriteVFormatString(xmlTextWriterPtr writer,

const char \*format,

va\_list argptr);

### **8.2.37 libxml2/libxml/xpath.h**

#define xmlXPathNodeSetItem(ns,index) \

((((ns) != NULL) && ((index) >= 0) && ((index) < (ns)->nodeNr)) ? \

(ns)->nodeTab[(index)] : NULL)

#define xmlXPathNodeSetIsEmpty(ns) \

(((ns) == NULL) || ((ns)->nodeNr == 0) || ((ns)->nodeTab == NULL))

#define xmlXPathNodeSetGetLength(ns) ((ns) ? (ns)->nodeNr : 0)

#define XML\_XPATH\_CHECKNS (1<<0)

#define XML\_XPATH\_NOVAR (1<<1)

typedef struct \_xmlXPathCompExpr xmlXPathCompExpr;

typedef xmlXPathCompExpr \*xmlXPathCompExprPtr;

typedef enum {

XPATH\_UNDEFINED = 0,

XPATH\_NODESET = 1,

XPATH\_BOOLEAN = 2,

XPATH\_NUMBER = 3,

XPATH\_STRING = 4,

XPATH\_POINT = 5,

XPATH\_RANGE = 6,

XPATH\_LOCATIONSET = 7,

XPATH\_USERS = 8,

XPATH\_XSLT\_TREE = 9

} xmlXPathObjectType;

typedef struct \_xmlNodeSet {

int nodeNr;

int nodeMax;

xmlNodePtr \*nodeTab;

} xmlNodeSet;

typedef xmlNodeSet \*xmlNodeSetPtr;

typedef struct \_xmlXPathObject {

xmlXPathObjectType type;

xmlNodeSetPtr nodesetval;

int boolval;

double floatval;

xmlChar \*stringval;

void \*user;

int index;

void \*user2;

int index2;

} xmlXPathObject;

typedef xmlXPathObject \*xmlXPathObjectPtr;

typedef int (\*xmlXPathConvertFunc) (xmlXPathObjectPtr, int);

typedef struct \_xmlXPathType {

const xmlChar \*name;

xmlXPathConvertFunc func;

} xmlXPathType;

typedef xmlXPathType \*xmlXPathTypePtr;

typedef struct \_xmlXPathContext {

xmlDocPtr doc;

xmlNodePtr node;

int nb\_variables\_unused;

int max\_variables\_unused;

xmlHashTablePtr varHash;

int nb\_types;

int max\_types;

xmlXPathTypePtr types;

int nb\_funcs\_unused;

int max\_funcs\_unused;

xmlHashTablePtr funcHash;

int nb\_axis;

int max\_axis;

xmlXPathAxisPtr axis;

xmlNsPtr \*namespaces;

int nsNr;

void \*user;

int contextSize;

int proximityPosition;

int xptr;

xmlNodePtr here;

xmlNodePtr origin;

xmlHashTablePtr nsHash;

xmlXPathVariableLookupFunc varLookupFunc;

void \*varLookupData;

void \*extra;

const xmlChar \*function;

const xmlChar \*functionURI;

xmlXPathFuncLookupFunc funcLookupFunc;

void \*funcLookupData;

xmlNsPtr \*tmpNsList;

int tmpNsNr;

void \*userData;

xmlStructuredErrorFunc error;

xmlError lastError;

xmlNodePtr debugNode;

xmlDictPtr dict;

int flags;

} xmlXPathContext;

typedef xmlXPathContext \*xmlXPathContextPtr;

typedef struct \_xmlXPathParserContext {

const xmlChar \*cur;

const xmlChar \*base;

int error;

xmlXPathContextPtr context;

xmlXPathObjectPtr value;

int valueNr;

int valueMax;

xmlXPathObjectPtr \*valueTab;

xmlXPathCompExprPtr comp;

int xptr;

xmlNodePtr ancestor;

} xmlXPathParserContext;

typedef xmlXPathParserContext \*xmlXPathParserContextPtr;

typedef xmlXPathObjectPtr(\*xmlXPathAxisFunc) (xmlXPathParserContextPtr,

xmlXPathObjectPtr);

typedef struct \_xmlXPathAxis {

const xmlChar \*name;

xmlXPathAxisFunc func;

} xmlXPathAxis;

typedef xmlXPathAxis \*xmlXPathAxisPtr;

typedef xmlXPathObjectPtr(\*xmlXPathVariableLookupFunc) (void \*,

const xmlChar \*,

const xmlChar \*);

typedef void (\*xmlXPathFunction) (xmlXPathParserContextPtr, int);

typedef xmlXPathFunction(\*xmlXPathFuncLookupFunc) (void \*, const xmlChar \*,

const xmlChar \*);

typedef enum {

XPATH\_EXPRESSION\_OK = 0,

XPATH\_NUMBER\_ERROR,

XPATH\_UNFINISHED\_LITERAL\_ERROR,

XPATH\_START\_LITERAL\_ERROR,

XPATH\_VARIABLE\_REF\_ERROR,

XPATH\_UNDEF\_VARIABLE\_ERROR,

XPATH\_INVALID\_PREDICATE\_ERROR,

XPATH\_EXPR\_ERROR,

XPATH\_UNCLOSED\_ERROR,

XPATH\_UNKNOWN\_FUNC\_ERROR,

XPATH\_INVALID\_OPERAND,

XPATH\_INVALID\_TYPE,

XPATH\_INVALID\_ARITY,

XPATH\_INVALID\_CTXT\_SIZE,

XPATH\_INVALID\_CTXT\_POSITION,

XPATH\_MEMORY\_ERROR,

XPTR\_SYNTAX\_ERROR,

XPTR\_RESOURCE\_ERROR,

XPTR\_SUB\_RESOURCE\_ERROR,

XPATH\_UNDEF\_PREFIX\_ERROR,

XPATH\_ENCODING\_ERROR,

XPATH\_INVALID\_CHAR\_ERROR,

XPATH\_INVALID\_CTXT

} xmlXPathError;

typedef void (\*xmlXPathEvalFunc) (xmlXPathParserContextPtr, int);

typedef struct \_xmlXPathFunct {

const xmlChar \*name;

xmlXPathEvalFunc func;

} xmlXPathFunct;

typedef struct \_xmlXPathVariable {

const xmlChar \*name;

xmlXPathObjectPtr value;

} xmlXPathVariable;

typedef xmlXPathVariable \*xmlXPathVariablePtr;

typedef xmlXPathFunct \*xmlXPathFuncPtr;

extern double xmlXPathCastBooleanToNumber(int val);

extern xmlChar \*xmlXPathCastBooleanToString(int val);

extern int xmlXPathCastNodeSetToBoolean(xmlNodeSetPtr ns);

extern double xmlXPathCastNodeSetToNumber(xmlNodeSetPtr ns);

extern xmlChar \*xmlXPathCastNodeSetToString(xmlNodeSetPtr ns);

extern double xmlXPathCastNodeToNumber(xmlNodePtr node);

extern xmlChar \*xmlXPathCastNodeToString(xmlNodePtr node);

extern int xmlXPathCastNumberToBoolean(double val);

extern xmlChar \*xmlXPathCastNumberToString(double val);

extern int xmlXPathCastStringToBoolean(const xmlChar \* val);

extern double xmlXPathCastStringToNumber(const xmlChar \* val);

extern int xmlXPathCastToBoolean(xmlXPathObjectPtr val);

extern double xmlXPathCastToNumber(xmlXPathObjectPtr val);

extern xmlChar \*xmlXPathCastToString(xmlXPathObjectPtr val);

extern int xmlXPathCmpNodes(xmlNodePtr node1, xmlNodePtr node2);

extern xmlXPathCompExprPtr xmlXPathCompile(const xmlChar \* str);

extern xmlXPathObjectPtr xmlXPathCompiledEval(xmlXPathCompExprPtr comp,

xmlXPathContextPtr ctx);

extern xmlXPathObjectPtr xmlXPathConvertBoolean(xmlXPathObjectPtr val);

extern xmlXPathObjectPtr xmlXPathConvertNumber(xmlXPathObjectPtr val);

extern xmlXPathObjectPtr xmlXPathConvertString(xmlXPathObjectPtr val);

extern xmlXPathCompExprPtr xmlXPathCtxtCompile(xmlXPathContextPtr ctxt,

const xmlChar \* str);

extern xmlXPathObjectPtr xmlXPathEval(const xmlChar \* str,

xmlXPathContextPtr ctx);

extern xmlXPathObjectPtr xmlXPathEvalExpression(const xmlChar \* str,

xmlXPathContextPtr ctxt);

extern int xmlXPathEvalPredicate(xmlXPathContextPtr ctxt,

xmlXPathObjectPtr res);

extern void xmlXPathFreeCompExpr(xmlXPathCompExprPtr comp);

extern void xmlXPathFreeContext(xmlXPathContextPtr ctxt);

extern void xmlXPathFreeNodeSet(xmlNodeSetPtr obj);

extern void xmlXPathFreeNodeSetList(xmlXPathObjectPtr obj);

extern void xmlXPathFreeObject(xmlXPathObjectPtr obj);

extern void xmlXPathInit(void);

extern int xmlXPathIsInf(double val);

extern int xmlXPathIsNaN(double val);

extern double xmlXPathNAN;

extern double xmlXPathNINF;

extern xmlXPathContextPtr xmlXPathNewContext(xmlDocPtr doc);

extern xmlNodeSetPtr xmlXPathNodeSetCreate(xmlNodePtr val);

extern xmlXPathObjectPtr xmlXPathObjectCopy(xmlXPathObjectPtr val);

extern long int xmlXPathOrderDocElems(xmlDocPtr doc);

extern double xmlXPathPINF;

### **8.2.38 libxml2/libxml/xpathInternals.h**

#define xmlXPathStackIsNodeSet(ctxt) \

(((ctxt)->value != NULL) && (((ctxt)->value->type == XPATH\_NODESET) \

|| ((ctxt)->value->type == XPATH\_XSLT\_TREE)))

#define xmlXPathStackIsExternal(ctxt) \

((ctxt->value != NULL) && (ctxt->value->type == XPATH\_USERS))

#define CAST\_TO\_BOOLEAN \

if ((ctxt->value != NULL) && (ctxt->value->type != XPATH\_BOOLEAN)) \

xmlXPathBooleanFunction(ctxt, 1);

#define CAST\_TO\_NUMBER \

if ((ctxt->value != NULL) && (ctxt->value->type != XPATH\_NUMBER)) \

xmlXPathNumberFunction(ctxt, 1);

#define CAST\_TO\_STRING \

if ((ctxt->value != NULL) && (ctxt->value->type != XPATH\_STRING)) \

xmlXPathStringFunction(ctxt, 1);

#define CHECK\_TYPE(typeval) \

if ((ctxt->value == NULL) || (ctxt->value->type != typeval)) \

XP\_ERROR(XPATH\_INVALID\_TYPE)

#define CHECK\_TYPE0(typeval) \

if ((ctxt->value == NULL) || (ctxt->value->type != typeval)) \

XP\_ERROR0(XPATH\_INVALID\_TYPE)

#define CHECK\_ARITY(x) \

if (ctxt == NULL) return; if (nargs != (x)) \

XP\_ERROR(XPATH\_INVALID\_ARITY);

#define xmlXPathReturnBoolean(ctxt,val) \

valuePush((ctxt), xmlXPathNewBoolean(val))

#define xmlXPathReturnEmptyString(ctxt) \

valuePush((ctxt), xmlXPathNewCString(""))

#define xmlXPathReturnNumber(ctxt,val) \

valuePush((ctxt), xmlXPathNewFloat(val))

#define xmlXPathReturnEmptyNodeSet(ctxt) \

valuePush((ctxt), xmlXPathNewNodeSet(NULL))

#define xmlXPathReturnExternal(ctxt,val) \

valuePush((ctxt), xmlXPathWrapExternal(val))

#define xmlXPathReturnNodeSet(ctxt,ns) \

valuePush((ctxt), xmlXPathWrapNodeSet(ns))

#define xmlXPathReturnString(ctxt,str) \

valuePush((ctxt), xmlXPathWrapString(str))

#define xmlXPathSetArityError(ctxt) \

xmlXPathSetError((ctxt), XPATH\_INVALID\_ARITY)

#define xmlXPathSetTypeError(ctxt) \

xmlXPathSetError((ctxt), XPATH\_INVALID\_TYPE)

#define xmlXPathEmptyNodeSet(ns) \

{ while ((ns)->nodeNr > 0) (ns)->nodeTab[(ns)->nodeNr--] = NULL; }

#define xmlXPathSetError(ctxt,err) \

{ xmlXPatherror((ctxt), \_\_FILE\_\_, \_\_LINE\_\_, (err)); if ((ctxt) != \

NULL) (ctxt)->error = (err); }

#define xmlXPathGetDocument(ctxt) ((ctxt)->context->doc)

#define xmlXPathGetContextNode(ctxt) ((ctxt)->context->node)

#define xmlXPathCheckError(ctxt) ((ctxt)->error != XPATH\_EXPRESSION\_OK)

#define xmlXPathGetError(ctxt) ((ctxt)->error)

#define CHECK\_ERROR if (ctxt->error != XPATH\_EXPRESSION\_OK) return

#define CHECK\_ERROR0 if (ctxt->error != XPATH\_EXPRESSION\_OK) return(0)

#define xmlXPathReturnFalse(ctxt) xmlXPathReturnBoolean((ctxt), 0)

#define xmlXPathReturnTrue(ctxt) xmlXPathReturnBoolean((ctxt), 1)

#define XP\_ERROR0(X) { xmlXPathErr(ctxt, X); return(0); }

#define XP\_ERROR(X) { xmlXPathErr(ctxt, X); return; }

extern xmlXPathObjectPtr valuePop(xmlXPathParserContextPtr ctxt);

extern int valuePush(xmlXPathParserContextPtr ctxt,

xmlXPathObjectPtr value);

extern void xmlXPathAddValues(xmlXPathParserContextPtr ctxt);

extern void xmlXPathBooleanFunction(xmlXPathParserContextPtr ctxt,

int nargs);

extern void xmlXPathCeilingFunction(xmlXPathParserContextPtr ctxt,

int nargs);

extern int xmlXPathCompareValues(xmlXPathParserContextPtr ctxt, int inf,

int strict);

extern void xmlXPathConcatFunction(xmlXPathParserContextPtr ctxt,

int nargs);

extern void xmlXPathContainsFunction(xmlXPathParserContextPtr ctxt,

int nargs);

extern void xmlXPathCountFunction(xmlXPathParserContextPtr ctxt,

int nargs);

extern void xmlXPathDebugDumpCompExpr(FILE \* output,

xmlXPathCompExprPtr comp, int depth);

extern void xmlXPathDebugDumpObject(FILE \* output, xmlXPathObjectPtr cur,

int depth);

extern xmlNodeSetPtr xmlXPathDifference(xmlNodeSetPtr nodes1,

xmlNodeSetPtr nodes2);

extern xmlNodeSetPtr xmlXPathDistinct(xmlNodeSetPtr nodes);

extern xmlNodeSetPtr xmlXPathDistinctSorted(xmlNodeSetPtr nodes);

extern void xmlXPathDivValues(xmlXPathParserContextPtr ctxt);

extern int xmlXPathEqualValues(xmlXPathParserContextPtr ctxt);

extern void xmlXPathErr(xmlXPathParserContextPtr ctxt, int error);

extern void xmlXPathEvalExpr(xmlXPathParserContextPtr ctxt);

extern int xmlXPathEvaluatePredicateResult(xmlXPathParserContextPtr ctxt,

xmlXPathObjectPtr res);

extern void xmlXPathFalseFunction(xmlXPathParserContextPtr ctxt,

int nargs);

extern void xmlXPathFloorFunction(xmlXPathParserContextPtr ctxt,

int nargs);

extern void xmlXPathFreeParserContext(xmlXPathParserContextPtr ctxt);

extern xmlXPathFunction xmlXPathFunctionLookup(xmlXPathContextPtr ctxt,

const xmlChar \* name);

extern xmlXPathFunction xmlXPathFunctionLookupNS(xmlXPathContextPtr ctxt,

const xmlChar \* name,

const xmlChar \* ns\_uri);

extern int xmlXPathHasSameNodes(xmlNodeSetPtr nodes1,

xmlNodeSetPtr nodes2);

extern void xmlXPathIdFunction(xmlXPathParserContextPtr ctxt, int nargs);

extern xmlNodeSetPtr xmlXPathIntersection(xmlNodeSetPtr nodes1,

xmlNodeSetPtr nodes2);

extern int xmlXPathIsNodeType(const xmlChar \* name);

extern void xmlXPathLangFunction(xmlXPathParserContextPtr ctxt, int nargs);

extern void xmlXPathLastFunction(xmlXPathParserContextPtr ctxt, int nargs);

extern xmlNodeSetPtr xmlXPathLeading(xmlNodeSetPtr nodes1,

xmlNodeSetPtr nodes2);

extern xmlNodeSetPtr xmlXPathLeadingSorted(xmlNodeSetPtr nodes1,

xmlNodeSetPtr nodes2);

extern void xmlXPathLocalNameFunction(xmlXPathParserContextPtr ctxt,

int nargs);

extern void xmlXPathModValues(xmlXPathParserContextPtr ctxt);

extern void xmlXPathMultValues(xmlXPathParserContextPtr ctxt);

extern void xmlXPathNamespaceURIFunction(xmlXPathParserContextPtr ctxt,

int nargs);

extern xmlXPathObjectPtr xmlXPathNewBoolean(int val);

extern xmlXPathObjectPtr xmlXPathNewCString(const char \*val);

extern xmlXPathObjectPtr xmlXPathNewFloat(double val);

extern xmlXPathObjectPtr xmlXPathNewNodeSet(xmlNodePtr val);

extern xmlXPathObjectPtr xmlXPathNewNodeSetList(xmlNodeSetPtr val);

extern xmlXPathParserContextPtr xmlXPathNewParserContext(const xmlChar \*

str,

xmlXPathContextPtr

ctxt);

extern xmlXPathObjectPtr xmlXPathNewString(const xmlChar \* val);

extern xmlXPathObjectPtr xmlXPathNewValueTree(xmlNodePtr val);

extern xmlNodePtr xmlXPathNextAncestor(xmlXPathParserContextPtr ctxt,

xmlNodePtr cur);

extern xmlNodePtr xmlXPathNextAncestorOrSelf(xmlXPathParserContextPtr ctxt,

xmlNodePtr cur);

extern xmlNodePtr xmlXPathNextAttribute(xmlXPathParserContextPtr ctxt,

xmlNodePtr cur);

extern xmlNodePtr xmlXPathNextChild(xmlXPathParserContextPtr ctxt,

xmlNodePtr cur);

extern xmlNodePtr xmlXPathNextDescendant(xmlXPathParserContextPtr ctxt,

xmlNodePtr cur);

extern xmlNodePtr xmlXPathNextDescendantOrSelf(xmlXPathParserContextPtr

ctxt, xmlNodePtr cur);

extern xmlNodePtr xmlXPathNextFollowing(xmlXPathParserContextPtr ctxt,

xmlNodePtr cur);

extern xmlNodePtr xmlXPathNextFollowingSibling(xmlXPathParserContextPtr

ctxt, xmlNodePtr cur);

extern xmlNodePtr xmlXPathNextNamespace(xmlXPathParserContextPtr ctxt,

xmlNodePtr cur);

extern xmlNodePtr xmlXPathNextParent(xmlXPathParserContextPtr ctxt,

xmlNodePtr cur);

extern xmlNodePtr xmlXPathNextPreceding(xmlXPathParserContextPtr ctxt,

xmlNodePtr cur);

extern xmlNodePtr xmlXPathNextPrecedingSibling(xmlXPathParserContextPtr

ctxt, xmlNodePtr cur);

extern xmlNodePtr xmlXPathNextSelf(xmlXPathParserContextPtr ctxt,

xmlNodePtr cur);

extern xmlNodeSetPtr xmlXPathNodeLeading(xmlNodeSetPtr nodes,

xmlNodePtr node);

extern xmlNodeSetPtr xmlXPathNodeLeadingSorted(xmlNodeSetPtr nodes,

xmlNodePtr node);

extern void xmlXPathNodeSetAdd(xmlNodeSetPtr cur, xmlNodePtr val);

extern void xmlXPathNodeSetAddNs(xmlNodeSetPtr cur, xmlNodePtr node,

xmlNsPtr ns);

extern void xmlXPathNodeSetAddUnique(xmlNodeSetPtr cur, xmlNodePtr val);

extern int xmlXPathNodeSetContains(xmlNodeSetPtr cur, xmlNodePtr val);

extern void xmlXPathNodeSetDel(xmlNodeSetPtr cur, xmlNodePtr val);

extern void xmlXPathNodeSetFreeNs(xmlNsPtr ns);

extern xmlNodeSetPtr xmlXPathNodeSetMerge(xmlNodeSetPtr val1,

xmlNodeSetPtr val2);

extern void xmlXPathNodeSetRemove(xmlNodeSetPtr cur, int val);

extern void xmlXPathNodeSetSort(xmlNodeSetPtr set);

extern xmlNodeSetPtr xmlXPathNodeTrailing(xmlNodeSetPtr nodes,

xmlNodePtr node);

extern xmlNodeSetPtr xmlXPathNodeTrailingSorted(xmlNodeSetPtr nodes,

xmlNodePtr node);

extern void xmlXPathNormalizeFunction(xmlXPathParserContextPtr ctxt,

int nargs);

extern int xmlXPathNotEqualValues(xmlXPathParserContextPtr ctxt);

extern void xmlXPathNotFunction(xmlXPathParserContextPtr ctxt, int nargs);

extern const xmlChar \*xmlXPathNsLookup(xmlXPathContextPtr ctxt,

const xmlChar \* prefix);

extern void xmlXPathNumberFunction(xmlXPathParserContextPtr ctxt,

int nargs);

extern xmlChar \*xmlXPathParseNCName(xmlXPathParserContextPtr ctxt);

extern xmlChar \*xmlXPathParseName(xmlXPathParserContextPtr ctxt);

extern int xmlXPathPopBoolean(xmlXPathParserContextPtr ctxt);

extern void \*xmlXPathPopExternal(xmlXPathParserContextPtr ctxt);

extern xmlNodeSetPtr xmlXPathPopNodeSet(xmlXPathParserContextPtr ctxt);

extern double xmlXPathPopNumber(xmlXPathParserContextPtr ctxt);

extern xmlChar \*xmlXPathPopString(xmlXPathParserContextPtr ctxt);

extern void xmlXPathPositionFunction(xmlXPathParserContextPtr ctxt,

int nargs);

extern void xmlXPathRegisterAllFunctions(xmlXPathContextPtr ctxt);

extern int xmlXPathRegisterFunc(xmlXPathContextPtr ctxt,

const xmlChar \* name, xmlXPathFunction f);

extern void xmlXPathRegisterFuncLookup(xmlXPathContextPtr ctxt,

xmlXPathFuncLookupFunc f,

void \*funcCtxt);

extern int xmlXPathRegisterFuncNS(xmlXPathContextPtr ctxt,

const xmlChar \* name,

const xmlChar \* ns\_uri,

xmlXPathFunction f);

extern int xmlXPathRegisterNs(xmlXPathContextPtr ctxt,

const xmlChar \* prefix,

const xmlChar \* ns\_uri);

extern int xmlXPathRegisterVariable(xmlXPathContextPtr ctxt,

const xmlChar \* name,

xmlXPathObjectPtr value);

extern void xmlXPathRegisterVariableLookup(xmlXPathContextPtr ctxt,

xmlXPathVariableLookupFunc f,

void \*data);

extern int xmlXPathRegisterVariableNS(xmlXPathContextPtr ctxt,

const xmlChar \* name,

const xmlChar \* ns\_uri,

xmlXPathObjectPtr value);

extern void xmlXPathRegisteredFuncsCleanup(xmlXPathContextPtr ctxt);

extern void xmlXPathRegisteredNsCleanup(xmlXPathContextPtr ctxt);

extern void xmlXPathRegisteredVariablesCleanup(xmlXPathContextPtr ctxt);

extern void xmlXPathRoot(xmlXPathParserContextPtr ctxt);

extern void xmlXPathRoundFunction(xmlXPathParserContextPtr ctxt,

int nargs);

extern void xmlXPathStartsWithFunction(xmlXPathParserContextPtr ctxt,

int nargs);

extern double xmlXPathStringEvalNumber(const xmlChar \* str);

extern void xmlXPathStringFunction(xmlXPathParserContextPtr ctxt,

int nargs);

extern void xmlXPathStringLengthFunction(xmlXPathParserContextPtr ctxt,

int nargs);

extern void xmlXPathSubValues(xmlXPathParserContextPtr ctxt);

extern void xmlXPathSubstringAfterFunction(xmlXPathParserContextPtr ctxt,

int nargs);

extern void xmlXPathSubstringBeforeFunction(xmlXPathParserContextPtr ctxt,

int nargs);

extern void xmlXPathSubstringFunction(xmlXPathParserContextPtr ctxt,

int nargs);

extern void xmlXPathSumFunction(xmlXPathParserContextPtr ctxt, int nargs);

extern xmlNodeSetPtr xmlXPathTrailing(xmlNodeSetPtr nodes1,

xmlNodeSetPtr nodes2);

extern xmlNodeSetPtr xmlXPathTrailingSorted(xmlNodeSetPtr nodes1,

xmlNodeSetPtr nodes2);

extern void xmlXPathTranslateFunction(xmlXPathParserContextPtr ctxt,

int nargs);

extern void xmlXPathTrueFunction(xmlXPathParserContextPtr ctxt, int nargs);

extern void xmlXPathValueFlipSign(xmlXPathParserContextPtr ctxt);

extern xmlXPathObjectPtr xmlXPathVariableLookup(xmlXPathContextPtr ctxt,

const xmlChar \* name);

extern xmlXPathObjectPtr xmlXPathVariableLookupNS(xmlXPathContextPtr ctxt,

const xmlChar \* name,

const xmlChar \* ns\_uri);

extern xmlXPathObjectPtr xmlXPathWrapCString(char \*val);

extern xmlXPathObjectPtr xmlXPathWrapExternal(void \*val);

extern xmlXPathObjectPtr xmlXPathWrapNodeSet(xmlNodeSetPtr val);

extern xmlXPathObjectPtr xmlXPathWrapString(xmlChar \* val);

extern void xmlXPatherror(xmlXPathParserContextPtr ctxt, const char \*file,

int line, int no);

### **8.2.39 libxml2/libxml/xpointer.h**

typedef struct \_xmlLocationSet {

int locNr;

int locMax;

xmlXPathObjectPtr \*locTab;

} xmlLocationSet;

typedef xmlLocationSet \*xmlLocationSetPtr;

extern xmlNodePtr xmlXPtrBuildNodeList(xmlXPathObjectPtr obj);

extern xmlXPathObjectPtr xmlXPtrEval(const xmlChar \* str,

xmlXPathContextPtr ctx);

extern void xmlXPtrEvalRangePredicate(xmlXPathParserContextPtr ctxt);

extern void xmlXPtrFreeLocationSet(xmlLocationSetPtr obj);

extern void xmlXPtrLocationSetAdd(xmlLocationSetPtr cur,

xmlXPathObjectPtr val);

extern xmlLocationSetPtr xmlXPtrLocationSetCreate(xmlXPathObjectPtr val);

extern void xmlXPtrLocationSetDel(xmlLocationSetPtr cur,

xmlXPathObjectPtr val);

extern xmlLocationSetPtr xmlXPtrLocationSetMerge(xmlLocationSetPtr val1,

xmlLocationSetPtr val2);

extern void xmlXPtrLocationSetRemove(xmlLocationSetPtr cur, int val);

extern xmlXPathObjectPtr xmlXPtrNewCollapsedRange(xmlNodePtr start);

extern xmlXPathContextPtr xmlXPtrNewContext(xmlDocPtr doc, xmlNodePtr here,

xmlNodePtr origin);

extern xmlXPathObjectPtr xmlXPtrNewLocationSetNodeSet(xmlNodeSetPtr set);

extern xmlXPathObjectPtr xmlXPtrNewLocationSetNodes(xmlNodePtr start,

xmlNodePtr end);

extern xmlXPathObjectPtr xmlXPtrNewRange(xmlNodePtr start, int startindex,

xmlNodePtr end, int endindex);

extern xmlXPathObjectPtr xmlXPtrNewRangeNodeObject(xmlNodePtr start,

xmlXPathObjectPtr end);

extern xmlXPathObjectPtr xmlXPtrNewRangeNodePoint(xmlNodePtr start,

xmlXPathObjectPtr end);

extern xmlXPathObjectPtr xmlXPtrNewRangeNodes(xmlNodePtr start,

xmlNodePtr end);

extern xmlXPathObjectPtr xmlXPtrNewRangePointNode(xmlXPathObjectPtr start,

xmlNodePtr end);

extern xmlXPathObjectPtr xmlXPtrNewRangePoints(xmlXPathObjectPtr start,

xmlXPathObjectPtr end);

extern void xmlXPtrRangeToFunction(xmlXPathParserContextPtr ctxt,

int nargs);

extern xmlXPathObjectPtr xmlXPtrWrapLocationSet(xmlLocationSetPtr val);

# **V XSLT library**

# **9 Libraries**

## **9.1 Interfaces for libxslt**

[Table 9-1](#ID_LIB_45_LIBXSLT_45_DEF) defines the library name and shared object name for the libxslt library

**Table 9-1 libxslt Definition**

|  |  |
| --- | --- |
| Library: | libxslt |
| SONAME: | libxslt.so.1 |

The behavior of the interfaces in this library is specified by the following specifications:

|  |
| --- |
| [libxslt] [Reference Manual for libxslt](#ID_STD_46_LIBXSLT) |

### **9.1.1 libxslt interfaces**

#### 9.1.1.1 Interfaces for libxslt interfaces

An LSB conforming implementation shall provide the generic functions for libxslt interfaces specified in [Table 9-2](#ID_TBL_45_LIBXSLT_45_LIBXS_45_INTS), with the full mandatory functionality as described in the referenced underlying specification.

**Table 9-2 libxslt - libxslt interfaces Function Interfaces**

|  |  |  |
| --- | --- | --- |
| xslAddCall(LIBXML2\_1.0.11) [[libxslt]](#ID_REFSTD_46_LIBXSLT_46_1) | xslDropCall(LIBXML2\_1.0.11) [[libxslt]](#ID_REFSTD_46_LIBXSLT_46_1) | xsltAddKey(LIBXML2\_1.0.11) [[libxslt]](#ID_REFSTD_46_LIBXSLT_46_1) |
| xsltAddStackElemList(LIBXML2\_1.0.11) [[libxslt]](#ID_REFSTD_46_LIBXSLT_46_1) | xsltAddTemplate(LIBXML2\_1.0.11) [[libxslt]](#ID_REFSTD_46_LIBXSLT_46_1) | xsltAllocateExtra(LIBXML2\_1.0.12) [[libxslt]](#ID_REFSTD_46_LIBXSLT_46_1) |
| xsltAllocateExtraCtxt(LIBXML2\_1.0.12) [[libxslt]](#ID_REFSTD_46_LIBXSLT_46_1) | xsltApplyAttributeSet(LIBXML2\_1.0.11) [[libxslt]](#ID_REFSTD_46_LIBXSLT_46_1) | xsltApplyImports(LIBXML2\_1.0.11) [[libxslt]](#ID_REFSTD_46_LIBXSLT_46_1) |
| xsltApplyOneTemplate(LIBXML2\_1.0.11) [[libxslt]](#ID_REFSTD_46_LIBXSLT_46_1) | xsltApplyStripSpaces(LIBXML2\_1.0.11) [[libxslt]](#ID_REFSTD_46_LIBXSLT_46_1) | xsltApplyStylesheet(LIBXML2\_1.0.11) [[libxslt]](#ID_REFSTD_46_LIBXSLT_46_1) |
| xsltApplyStylesheetUser(LIBXML2\_1.0.11) [[libxslt]](#ID_REFSTD_46_LIBXSLT_46_1) | xsltApplyTemplates(LIBXML2\_1.0.11) [[libxslt]](#ID_REFSTD_46_LIBXSLT_46_1) | xsltAttrListTemplateProcess(LIBXML2\_1.0.11) [[libxslt]](#ID_REFSTD_46_LIBXSLT_46_1) |
| xsltAttrTemplateProcess(LIBXML2\_1.0.11) [[libxslt]](#ID_REFSTD_46_LIBXSLT_46_1) | xsltAttrTemplateValueProcess(LIBXML2\_1.0.11) [[libxslt]](#ID_REFSTD_46_LIBXSLT_46_1) | xsltAttrTemplateValueProcessNode(LIBXML2\_1.0.22) [[libxslt]](#ID_REFSTD_46_LIBXSLT_46_1) |
| xsltAttribute(LIBXML2\_1.0.11) [[libxslt]](#ID_REFSTD_46_LIBXSLT_46_1) | xsltCalibrateAdjust(LIBXML2\_1.0.11) [[libxslt]](#ID_REFSTD_46_LIBXSLT_46_1) | xsltCallTemplate(LIBXML2\_1.0.11) [[libxslt]](#ID_REFSTD_46_LIBXSLT_46_1) |
| xsltCheckExtPrefix(LIBXML2\_1.0.11) [[libxslt]](#ID_REFSTD_46_LIBXSLT_46_1) | xsltCheckExtURI(LIBXML2\_1.1.24) [[libxslt]](#ID_REFSTD_46_LIBXSLT_46_1) | xsltCheckRead(LIBXML2\_1.0.22) [[libxslt]](#ID_REFSTD_46_LIBXSLT_46_1) |
| xsltCheckWrite(LIBXML2\_1.0.22) [[libxslt]](#ID_REFSTD_46_LIBXSLT_46_1) | xsltChoose(LIBXML2\_1.0.11) [[libxslt]](#ID_REFSTD_46_LIBXSLT_46_1) | xsltCleanupGlobals(LIBXML2\_1.0.11) [[libxslt]](#ID_REFSTD_46_LIBXSLT_46_1) |
| xsltCleanupTemplates(LIBXML2\_1.0.11) [[libxslt]](#ID_REFSTD_46_LIBXSLT_46_1) | xsltComment(LIBXML2\_1.0.11) [[libxslt]](#ID_REFSTD_46_LIBXSLT_46_1) | xsltCompileAttr(LIBXML2\_1.1.3) [[libxslt]](#ID_REFSTD_46_LIBXSLT_46_1) |
| xsltCompilePattern(LIBXML2\_1.0.11) [[libxslt]](#ID_REFSTD_46_LIBXSLT_46_1) | xsltComputeSortResult(LIBXML2\_1.0.24) [[libxslt]](#ID_REFSTD_46_LIBXSLT_46_1) | xsltCopy(LIBXML2\_1.0.11) [[libxslt]](#ID_REFSTD_46_LIBXSLT_46_1) |
| xsltCopyNamespace(LIBXML2\_1.0.11) [[libxslt]](#ID_REFSTD_46_LIBXSLT_46_1) | xsltCopyNamespaceList(LIBXML2\_1.0.11) [[libxslt]](#ID_REFSTD_46_LIBXSLT_46_1) | xsltCopyOf(LIBXML2\_1.0.11) [[libxslt]](#ID_REFSTD_46_LIBXSLT_46_1) |
| xsltCopyTextString(LIBXML2\_1.0.32) [[libxslt]](#ID_REFSTD_46_LIBXSLT_46_1) | xsltCreateRVT(LIBXML2\_1.0.30) [[libxslt]](#ID_REFSTD_46_LIBXSLT_46_1) | xsltDebug(LIBXML2\_1.0.11) [[libxslt]](#ID_REFSTD_46_LIBXSLT_46_1) |
| xsltDebugDumpExtensions(LIBXML2\_1.0.18) [[libxslt]](#ID_REFSTD_46_LIBXSLT_46_1) | xsltDebugGetDefaultTrace(LIBXML2\_1.1.1) [[libxslt]](#ID_REFSTD_46_LIBXSLT_46_1) | xsltDebugSetDefaultTrace(LIBXML2\_1.1.1) [[libxslt]](#ID_REFSTD_46_LIBXSLT_46_1) |
| xsltDecimalFormatGetByName(LIBXML2\_1.0.11) [[libxslt]](#ID_REFSTD_46_LIBXSLT_46_1) | xsltDefaultSortFunction(LIBXML2\_1.0.24) [[libxslt]](#ID_REFSTD_46_LIBXSLT_46_1) | xsltDoSortFunction(LIBXML2\_1.0.11) [[libxslt]](#ID_REFSTD_46_LIBXSLT_46_1) |
| xsltDocumentComp(LIBXML2\_1.0.11) [[libxslt]](#ID_REFSTD_46_LIBXSLT_46_1) | xsltDocumentElem(LIBXML2\_1.0.11) [[libxslt]](#ID_REFSTD_46_LIBXSLT_46_1) | xsltDocumentFunction(LIBXML2\_1.0.11) [[libxslt]](#ID_REFSTD_46_LIBXSLT_46_1) |
| xsltDocumentSortFunction(LIBXML2\_1.0.11) [[libxslt]](#ID_REFSTD_46_LIBXSLT_46_1) | xsltElement(LIBXML2\_1.0.11) [[libxslt]](#ID_REFSTD_46_LIBXSLT_46_1) | xsltElementAvailableFunction(LIBXML2\_1.0.11) [[libxslt]](#ID_REFSTD_46_LIBXSLT_46_1) |
| xsltEvalAVT(LIBXML2\_1.1.3) [[libxslt]](#ID_REFSTD_46_LIBXSLT_46_1) | xsltEvalAttrValueTemplate(LIBXML2\_1.0.11) [[libxslt]](#ID_REFSTD_46_LIBXSLT_46_1) | xsltEvalGlobalVariables(LIBXML2\_1.0.11) [[libxslt]](#ID_REFSTD_46_LIBXSLT_46_1) |
| xsltEvalOneUserParam(LIBXML2\_1.0.11) [[libxslt]](#ID_REFSTD_46_LIBXSLT_46_1) | xsltEvalStaticAttrValueTemplate(LIBXML2\_1.0.11) [[libxslt]](#ID_REFSTD_46_LIBXSLT_46_1) | xsltEvalTemplateString(LIBXML2\_1.0.11) [[libxslt]](#ID_REFSTD_46_LIBXSLT_46_1) |
| xsltEvalUserParams(LIBXML2\_1.0.11) [[libxslt]](#ID_REFSTD_46_LIBXSLT_46_1) | xsltEvalXPathPredicate(LIBXML2\_1.0.11) [[libxslt]](#ID_REFSTD_46_LIBXSLT_46_1) | xsltEvalXPathString(LIBXML2\_1.0.11) [[libxslt]](#ID_REFSTD_46_LIBXSLT_46_1) |
| xsltEvalXPathStringNs(LIBXML2\_1.0.22) [[libxslt]](#ID_REFSTD_46_LIBXSLT_46_1) | xsltExtElementLookup(LIBXML2\_1.0.11) [[libxslt]](#ID_REFSTD_46_LIBXSLT_46_1) | xsltExtModuleElementLookup(LIBXML2\_1.0.11) [[libxslt]](#ID_REFSTD_46_LIBXSLT_46_1) |
| xsltExtModuleElementPreComputeLookup(LIBXML2\_1.0.13) [[libxslt]](#ID_REFSTD_46_LIBXSLT_46_1) | xsltExtModuleFunctionLookup(LIBXML2\_1.0.11) [[libxslt]](#ID_REFSTD_46_LIBXSLT_46_1) | xsltExtModuleTopLevelLookup(LIBXML2\_1.0.11) [[libxslt]](#ID_REFSTD_46_LIBXSLT_46_1) |
| xsltExtensionInstructionResultFinalize(LIBXML2\_1.1.18) [[libxslt]](#ID_REFSTD_46_LIBXSLT_46_1) | xsltExtensionInstructionResultRegister(LIBXML2\_1.1.18) [[libxslt]](#ID_REFSTD_46_LIBXSLT_46_1) | xsltFindDocument(LIBXML2\_1.0.11) [[libxslt]](#ID_REFSTD_46_LIBXSLT_46_1) |
| xsltFindElemSpaceHandling(LIBXML2\_1.0.11) [[libxslt]](#ID_REFSTD_46_LIBXSLT_46_1) | xsltFindTemplate(LIBXML2\_1.0.11) [[libxslt]](#ID_REFSTD_46_LIBXSLT_46_1) | xsltForEach(LIBXML2\_1.0.11) [[libxslt]](#ID_REFSTD_46_LIBXSLT_46_1) |
| xsltFormatNumberConversion(LIBXML2\_1.0.11) [[libxslt]](#ID_REFSTD_46_LIBXSLT_46_1) | xsltFormatNumberFunction(LIBXML2\_1.0.11) [[libxslt]](#ID_REFSTD_46_LIBXSLT_46_1) | xsltFreeAVTList(LIBXML2\_1.1.3) [[libxslt]](#ID_REFSTD_46_LIBXSLT_46_1) |
| xsltFreeAttributeSetsHashes(LIBXML2\_1.0.11) [[libxslt]](#ID_REFSTD_46_LIBXSLT_46_1) | xsltFreeCompMatchList(LIBXML2\_1.0.11) [[libxslt]](#ID_REFSTD_46_LIBXSLT_46_1) | xsltFreeCtxtExts(LIBXML2\_1.0.11) [[libxslt]](#ID_REFSTD_46_LIBXSLT_46_1) |
| xsltFreeDocumentKeys(LIBXML2\_1.0.11) [[libxslt]](#ID_REFSTD_46_LIBXSLT_46_1) | xsltFreeDocuments(LIBXML2\_1.0.11) [[libxslt]](#ID_REFSTD_46_LIBXSLT_46_1) | xsltFreeExts(LIBXML2\_1.0.11) [[libxslt]](#ID_REFSTD_46_LIBXSLT_46_1) |
| xsltFreeGlobalVariables(LIBXML2\_1.0.11) [[libxslt]](#ID_REFSTD_46_LIBXSLT_46_1) | xsltFreeKeys(LIBXML2\_1.0.11) [[libxslt]](#ID_REFSTD_46_LIBXSLT_46_1) | xsltFreeLocale(LIBXML2\_1.1.25) [[libxslt]](#ID_REFSTD_46_LIBXSLT_46_1) |
| xsltFreeNamespaceAliasHashes(LIBXML2\_1.0.11) [[libxslt]](#ID_REFSTD_46_LIBXSLT_46_1) | xsltFreeRVTs(LIBXML2\_1.0.30) [[libxslt]](#ID_REFSTD_46_LIBXSLT_46_1) | xsltFreeSecurityPrefs(LIBXML2\_1.0.22) [[libxslt]](#ID_REFSTD_46_LIBXSLT_46_1) |
| xsltFreeStackElemList(LIBXML2\_1.0.11) [[libxslt]](#ID_REFSTD_46_LIBXSLT_46_1) | xsltFreeStyleDocuments(LIBXML2\_1.0.11) [[libxslt]](#ID_REFSTD_46_LIBXSLT_46_1) | xsltFreeStylePreComps(LIBXML2\_1.0.11) [[libxslt]](#ID_REFSTD_46_LIBXSLT_46_1) |
| xsltFreeStylesheet(LIBXML2\_1.0.11) [[libxslt]](#ID_REFSTD_46_LIBXSLT_46_1) | xsltFreeTemplateHashes(LIBXML2\_1.0.11) [[libxslt]](#ID_REFSTD_46_LIBXSLT_46_1) | xsltFreeTransformContext(LIBXML2\_1.0.11) [[libxslt]](#ID_REFSTD_46_LIBXSLT_46_1) |
| xsltFunctionAvailableFunction(LIBXML2\_1.0.11) [[libxslt]](#ID_REFSTD_46_LIBXSLT_46_1) | xsltFunctionNodeSet(LIBXML2\_1.0.11) [[libxslt]](#ID_REFSTD_46_LIBXSLT_46_1) | xsltGenerateIdFunction(LIBXML2\_1.0.11) [[libxslt]](#ID_REFSTD_46_LIBXSLT_46_1) |
| xsltGetCNsProp(LIBXML2\_1.1.3) [[libxslt]](#ID_REFSTD_46_LIBXSLT_46_1) | xsltGetDebuggerStatus(LIBXML2\_1.1.0) [[libxslt]](#ID_REFSTD_46_LIBXSLT_46_1) | xsltGetDefaultSecurityPrefs(LIBXML2\_1.0.22) [[libxslt]](#ID_REFSTD_46_LIBXSLT_46_1) |
| xsltGetExtData(LIBXML2\_1.0.11) [[libxslt]](#ID_REFSTD_46_LIBXSLT_46_1) | xsltGetExtInfo(LIBXML2\_1.0.32) [[libxslt]](#ID_REFSTD_46_LIBXSLT_46_1) | xsltGetKey(LIBXML2\_1.0.11) [[libxslt]](#ID_REFSTD_46_LIBXSLT_46_1) |
| xsltGetNamespace(LIBXML2\_1.0.11) [[libxslt]](#ID_REFSTD_46_LIBXSLT_46_1) | xsltGetNsProp(LIBXML2\_1.0.11) [[libxslt]](#ID_REFSTD_46_LIBXSLT_46_1) | xsltGetPlainNamespace(LIBXML2\_1.1.7) [[libxslt]](#ID_REFSTD_46_LIBXSLT_46_1) |
| xsltGetProfileInformation(LIBXML2\_1.0.24) [[libxslt]](#ID_REFSTD_46_LIBXSLT_46_1) | xsltGetQNameURI(LIBXML2\_1.0.11) [[libxslt]](#ID_REFSTD_46_LIBXSLT_46_1) | xsltGetQNameURI2(LIBXML2\_1.1.5) [[libxslt]](#ID_REFSTD_46_LIBXSLT_46_1) |
| xsltGetSecurityPrefs(LIBXML2\_1.0.22) [[libxslt]](#ID_REFSTD_46_LIBXSLT_46_1) | xsltGetSpecialNamespace(LIBXML2\_1.0.11) [[libxslt]](#ID_REFSTD_46_LIBXSLT_46_1) | xsltGetTemplate(LIBXML2\_1.0.11) [[libxslt]](#ID_REFSTD_46_LIBXSLT_46_1) |
| xsltGetUTF8Char(LIBXML2\_1.0.24) [[libxslt]](#ID_REFSTD_46_LIBXSLT_46_1) | xsltGetXIncludeDefault(LIBXML2\_1.0.11) [[libxslt]](#ID_REFSTD_46_LIBXSLT_46_1) | xsltIf(LIBXML2\_1.0.11) [[libxslt]](#ID_REFSTD_46_LIBXSLT_46_1) |
| xsltInit(LIBXML2\_1.1.18) [[libxslt]](#ID_REFSTD_46_LIBXSLT_46_1) | xsltInitAllDocKeys(LIBXML2\_1.1.23) [[libxslt]](#ID_REFSTD_46_LIBXSLT_46_1) | xsltInitCtxtExts(LIBXML2\_1.0.11) [[libxslt]](#ID_REFSTD_46_LIBXSLT_46_1) |
| xsltInitCtxtKey(LIBXML2\_1.1.18) [[libxslt]](#ID_REFSTD_46_LIBXSLT_46_1) | xsltInitCtxtKeys(LIBXML2\_1.0.11) [[libxslt]](#ID_REFSTD_46_LIBXSLT_46_1) | xsltInitElemPreComp(LIBXML2\_1.0.11) [[libxslt]](#ID_REFSTD_46_LIBXSLT_46_1) |
| xsltInitGlobals(LIBXML2\_1.1.25) [[libxslt]](#ID_REFSTD_46_LIBXSLT_46_1) | xsltIsBlank(LIBXML2\_1.0.11) [[libxslt]](#ID_REFSTD_46_LIBXSLT_46_1) | xsltKeyFunction(LIBXML2\_1.0.11) [[libxslt]](#ID_REFSTD_46_LIBXSLT_46_1) |
| xsltLoadDocument(LIBXML2\_1.0.11) [[libxslt]](#ID_REFSTD_46_LIBXSLT_46_1) | xsltLoadStyleDocument(LIBXML2\_1.0.11) [[libxslt]](#ID_REFSTD_46_LIBXSLT_46_1) | xsltLoadStylesheetPI(LIBXML2\_1.0.11) [[libxslt]](#ID_REFSTD_46_LIBXSLT_46_1) |
| xsltLocalVariablePop(LIBXML2\_1.1.20) [[libxslt]](#ID_REFSTD_46_LIBXSLT_46_1) | xsltLocalVariablePush(LIBXML2\_1.1.20) [[libxslt]](#ID_REFSTD_46_LIBXSLT_46_1) | xsltLocaleStrcmp(LIBXML2\_1.1.25) [[libxslt]](#ID_REFSTD_46_LIBXSLT_46_1) |
| xsltMessage(LIBXML2\_1.0.11) [[libxslt]](#ID_REFSTD_46_LIBXSLT_46_1) | xsltNamespaceAlias(LIBXML2\_1.0.11) [[libxslt]](#ID_REFSTD_46_LIBXSLT_46_1) | xsltNeedElemSpaceHandling(LIBXML2\_1.0.11) [[libxslt]](#ID_REFSTD_46_LIBXSLT_46_1) |
| xsltNewDocument(LIBXML2\_1.0.11) [[libxslt]](#ID_REFSTD_46_LIBXSLT_46_1) | xsltNewElemPreComp(LIBXML2\_1.0.11) [[libxslt]](#ID_REFSTD_46_LIBXSLT_46_1) | xsltNewLocale(LIBXML2\_1.1.25) [[libxslt]](#ID_REFSTD_46_LIBXSLT_46_1) |
| xsltNewSecurityPrefs(LIBXML2\_1.0.22) [[libxslt]](#ID_REFSTD_46_LIBXSLT_46_1) | xsltNewStyleDocument(LIBXML2\_1.0.11) [[libxslt]](#ID_REFSTD_46_LIBXSLT_46_1) | xsltNewStylesheet(LIBXML2\_1.0.11) [[libxslt]](#ID_REFSTD_46_LIBXSLT_46_1) |
| xsltNewTransformContext(LIBXML2\_1.0.11) [[libxslt]](#ID_REFSTD_46_LIBXSLT_46_1) | xsltNextImport(LIBXML2\_1.0.11) [[libxslt]](#ID_REFSTD_46_LIBXSLT_46_1) | xsltNormalizeCompSteps(LIBXML2\_1.0.33) [[libxslt]](#ID_REFSTD_46_LIBXSLT_46_1) |
| xsltNumber(LIBXML2\_1.0.11) [[libxslt]](#ID_REFSTD_46_LIBXSLT_46_1) | xsltNumberFormat(LIBXML2\_1.0.11) [[libxslt]](#ID_REFSTD_46_LIBXSLT_46_1) | xsltParseGlobalParam(LIBXML2\_1.0.11) [[libxslt]](#ID_REFSTD_46_LIBXSLT_46_1) |
| xsltParseGlobalVariable(LIBXML2\_1.0.11) [[libxslt]](#ID_REFSTD_46_LIBXSLT_46_1) | xsltParseStylesheetAttributeSet(LIBXML2\_1.0.11) [[libxslt]](#ID_REFSTD_46_LIBXSLT_46_1) | xsltParseStylesheetCallerParam(LIBXML2\_1.0.11) [[libxslt]](#ID_REFSTD_46_LIBXSLT_46_1) |
| xsltParseStylesheetDoc(LIBXML2\_1.0.11) [[libxslt]](#ID_REFSTD_46_LIBXSLT_46_1) | xsltParseStylesheetFile(LIBXML2\_1.0.11) [[libxslt]](#ID_REFSTD_46_LIBXSLT_46_1) | xsltParseStylesheetImport(LIBXML2\_1.0.11) [[libxslt]](#ID_REFSTD_46_LIBXSLT_46_1) |
| xsltParseStylesheetImportedDoc(LIBXML2\_1.0.24) [[libxslt]](#ID_REFSTD_46_LIBXSLT_46_1) | xsltParseStylesheetInclude(LIBXML2\_1.0.11) [[libxslt]](#ID_REFSTD_46_LIBXSLT_46_1) | xsltParseStylesheetOutput(LIBXML2\_1.0.11) [[libxslt]](#ID_REFSTD_46_LIBXSLT_46_1) |
| xsltParseStylesheetParam(LIBXML2\_1.0.11) [[libxslt]](#ID_REFSTD_46_LIBXSLT_46_1) | xsltParseStylesheetProcess(LIBXML2\_1.0.11) [[libxslt]](#ID_REFSTD_46_LIBXSLT_46_1) | xsltParseStylesheetVariable(LIBXML2\_1.0.11) [[libxslt]](#ID_REFSTD_46_LIBXSLT_46_1) |
| xsltParseTemplateContent(LIBXML2\_1.0.11) [[libxslt]](#ID_REFSTD_46_LIBXSLT_46_1) | xsltPreComputeExtModuleElement(LIBXML2\_1.0.11) [[libxslt]](#ID_REFSTD_46_LIBXSLT_46_1) | xsltPrintErrorContext(LIBXML2\_1.0.11) [[libxslt]](#ID_REFSTD_46_LIBXSLT_46_1) |
| xsltProcessOneNode(LIBXML2\_1.1.26) [[libxslt]](#ID_REFSTD_46_LIBXSLT_46_1) | xsltProcessingInstruction(LIBXML2\_1.0.11) [[libxslt]](#ID_REFSTD_46_LIBXSLT_46_1) | xsltProfileStylesheet(LIBXML2\_1.0.11) [[libxslt]](#ID_REFSTD_46_LIBXSLT_46_1) |
| xsltQuoteOneUserParam(LIBXML2\_1.0.11) [[libxslt]](#ID_REFSTD_46_LIBXSLT_46_1) | xsltQuoteUserParams(LIBXML2\_1.0.11) [[libxslt]](#ID_REFSTD_46_LIBXSLT_46_1) | xsltRegisterAllElement(LIBXML2\_1.0.11) [[libxslt]](#ID_REFSTD_46_LIBXSLT_46_1) |
| xsltRegisterAllExtras(LIBXML2\_1.0.11) [[libxslt]](#ID_REFSTD_46_LIBXSLT_46_1) | xsltRegisterAllFunctions(LIBXML2\_1.0.11) [[libxslt]](#ID_REFSTD_46_LIBXSLT_46_1) | xsltRegisterExtElement(LIBXML2\_1.0.11) [[libxslt]](#ID_REFSTD_46_LIBXSLT_46_1) |
| xsltRegisterExtFunction(LIBXML2\_1.0.11) [[libxslt]](#ID_REFSTD_46_LIBXSLT_46_1) | xsltRegisterExtModule(LIBXML2\_1.0.11) [[libxslt]](#ID_REFSTD_46_LIBXSLT_46_1) | xsltRegisterExtModuleElement(LIBXML2\_1.0.11) [[libxslt]](#ID_REFSTD_46_LIBXSLT_46_1) |
| xsltRegisterExtModuleFull(LIBXML2\_1.0.11) [[libxslt]](#ID_REFSTD_46_LIBXSLT_46_1) | xsltRegisterExtModuleFunction(LIBXML2\_1.0.11) [[libxslt]](#ID_REFSTD_46_LIBXSLT_46_1) | xsltRegisterExtModuleTopLevel(LIBXML2\_1.0.11) [[libxslt]](#ID_REFSTD_46_LIBXSLT_46_1) |
| xsltRegisterExtPrefix(LIBXML2\_1.0.11) [[libxslt]](#ID_REFSTD_46_LIBXSLT_46_1) | xsltRegisterExtras(LIBXML2\_1.0.11) [[libxslt]](#ID_REFSTD_46_LIBXSLT_46_1) | xsltRegisterLocalRVT(LIBXML2\_1.1.18) [[libxslt]](#ID_REFSTD_46_LIBXSLT_46_1) |
| xsltRegisterPersistRVT(LIBXML2\_1.0.30) [[libxslt]](#ID_REFSTD_46_LIBXSLT_46_1) | xsltRegisterTestModule(LIBXML2\_1.0.11) [[libxslt]](#ID_REFSTD_46_LIBXSLT_46_1) | xsltRegisterTmpRVT(LIBXML2\_1.0.30) [[libxslt]](#ID_REFSTD_46_LIBXSLT_46_1) |
| xsltReleaseRVT(LIBXML2\_1.1.18) [[libxslt]](#ID_REFSTD_46_LIBXSLT_46_1) | xsltResolveStylesheetAttributeSet(LIBXML2\_1.0.16) [[libxslt]](#ID_REFSTD_46_LIBXSLT_46_1) | xsltRunStylesheet(LIBXML2\_1.0.11) [[libxslt]](#ID_REFSTD_46_LIBXSLT_46_1) |
| xsltRunStylesheetUser(LIBXML2\_1.0.17) [[libxslt]](#ID_REFSTD_46_LIBXSLT_46_1) | xsltSaveProfiling(LIBXML2\_1.0.11) [[libxslt]](#ID_REFSTD_46_LIBXSLT_46_1) | xsltSaveResultTo(LIBXML2\_1.0.11) [[libxslt]](#ID_REFSTD_46_LIBXSLT_46_1) |
| xsltSaveResultToFd(LIBXML2\_1.0.11) [[libxslt]](#ID_REFSTD_46_LIBXSLT_46_1) | xsltSaveResultToFile(LIBXML2\_1.0.11) [[libxslt]](#ID_REFSTD_46_LIBXSLT_46_1) | xsltSaveResultToFilename(LIBXML2\_1.0.11) [[libxslt]](#ID_REFSTD_46_LIBXSLT_46_1) |
| xsltSaveResultToString(LIBXML2\_1.0.18) [[libxslt]](#ID_REFSTD_46_LIBXSLT_46_1) | xsltSecurityAllow(LIBXML2\_1.0.22) [[libxslt]](#ID_REFSTD_46_LIBXSLT_46_1) | xsltSecurityForbid(LIBXML2\_1.0.22) [[libxslt]](#ID_REFSTD_46_LIBXSLT_46_1) |
| xsltSetCtxtParseOptions(LIBXML2\_1.1.2) [[libxslt]](#ID_REFSTD_46_LIBXSLT_46_1) | xsltSetCtxtSecurityPrefs(LIBXML2\_1.0.22) [[libxslt]](#ID_REFSTD_46_LIBXSLT_46_1) | xsltSetCtxtSortFunc(LIBXML2\_1.0.24) [[libxslt]](#ID_REFSTD_46_LIBXSLT_46_1) |
| xsltSetDebuggerCallbacks(LIBXML2\_1.0.11) [[libxslt]](#ID_REFSTD_46_LIBXSLT_46_1) | xsltSetDebuggerStatus(LIBXML2\_1.1.0) [[libxslt]](#ID_REFSTD_46_LIBXSLT_46_1) | xsltSetDefaultSecurityPrefs(LIBXML2\_1.0.22) [[libxslt]](#ID_REFSTD_46_LIBXSLT_46_1) |
| xsltSetGenericDebugFunc(LIBXML2\_1.0.11) [[libxslt]](#ID_REFSTD_46_LIBXSLT_46_1) | xsltSetGenericErrorFunc(LIBXML2\_1.0.11) [[libxslt]](#ID_REFSTD_46_LIBXSLT_46_1) | xsltSetLoaderFunc(LIBXML2\_1.1.9) [[libxslt]](#ID_REFSTD_46_LIBXSLT_46_1) |
| xsltSetSecurityPrefs(LIBXML2\_1.0.22) [[libxslt]](#ID_REFSTD_46_LIBXSLT_46_1) | xsltSetSortFunc(LIBXML2\_1.0.24) [[libxslt]](#ID_REFSTD_46_LIBXSLT_46_1) | xsltSetTransformErrorFunc(LIBXML2\_1.0.22) [[libxslt]](#ID_REFSTD_46_LIBXSLT_46_1) |
| xsltSetXIncludeDefault(LIBXML2\_1.0.11) [[libxslt]](#ID_REFSTD_46_LIBXSLT_46_1) | xsltShutdownCtxtExts(LIBXML2\_1.0.11) [[libxslt]](#ID_REFSTD_46_LIBXSLT_46_1) | xsltShutdownExts(LIBXML2\_1.0.11) [[libxslt]](#ID_REFSTD_46_LIBXSLT_46_1) |
| xsltSort(LIBXML2\_1.0.11) [[libxslt]](#ID_REFSTD_46_LIBXSLT_46_1) | xsltSplitQName(LIBXML2\_1.1.3) [[libxslt]](#ID_REFSTD_46_LIBXSLT_46_1) | xsltStrxfrm(LIBXML2\_1.1.25) [[libxslt]](#ID_REFSTD_46_LIBXSLT_46_1) |
| xsltStyleGetExtData(LIBXML2\_1.0.11) [[libxslt]](#ID_REFSTD_46_LIBXSLT_46_1) | xsltStylePreCompute(LIBXML2\_1.0.11) [[libxslt]](#ID_REFSTD_46_LIBXSLT_46_1) | xsltSystemPropertyFunction(LIBXML2\_1.0.11) [[libxslt]](#ID_REFSTD_46_LIBXSLT_46_1) |
| xsltTemplateProcess(LIBXML2\_1.0.11) [[libxslt]](#ID_REFSTD_46_LIBXSLT_46_1) | xsltTestCompMatchList(LIBXML2\_1.0.11) [[libxslt]](#ID_REFSTD_46_LIBXSLT_46_1) | xsltText(LIBXML2\_1.0.11) [[libxslt]](#ID_REFSTD_46_LIBXSLT_46_1) |
| xsltTimestamp(LIBXML2\_1.0.11) [[libxslt]](#ID_REFSTD_46_LIBXSLT_46_1) | xsltTransformError(LIBXML2\_1.0.22) [[libxslt]](#ID_REFSTD_46_LIBXSLT_46_1) | xsltUninit(LIBXML2\_1.1.18) [[libxslt]](#ID_REFSTD_46_LIBXSLT_46_1) |
| xsltUnparsedEntityURIFunction(LIBXML2\_1.0.11) [[libxslt]](#ID_REFSTD_46_LIBXSLT_46_1) | xsltUnregisterExtModule(LIBXML2\_1.0.11) [[libxslt]](#ID_REFSTD_46_LIBXSLT_46_1) | xsltUnregisterExtModuleElement(LIBXML2\_1.0.11) [[libxslt]](#ID_REFSTD_46_LIBXSLT_46_1) |
| xsltUnregisterExtModuleFunction(LIBXML2\_1.0.11) [[libxslt]](#ID_REFSTD_46_LIBXSLT_46_1) | xsltUnregisterExtModuleTopLevel(LIBXML2\_1.0.11) [[libxslt]](#ID_REFSTD_46_LIBXSLT_46_1) | xsltValueOf(LIBXML2\_1.0.11) [[libxslt]](#ID_REFSTD_46_LIBXSLT_46_1) |
| xsltVariableLookup(LIBXML2\_1.0.11) [[libxslt]](#ID_REFSTD_46_LIBXSLT_46_1) | xsltXPathCompile(LIBXML2\_1.1.3) [[libxslt]](#ID_REFSTD_46_LIBXSLT_46_1) | xsltXPathFunctionLookup(LIBXML2\_1.0.11) [[libxslt]](#ID_REFSTD_46_LIBXSLT_46_1) |
| xsltXPathGetTransformContext(LIBXML2\_1.0.13) [[libxslt]](#ID_REFSTD_46_LIBXSLT_46_1) | xsltXPathVariableLookup(LIBXML2\_1.0.11) [[libxslt]](#ID_REFSTD_46_LIBXSLT_46_1) |  |

## **9.2 Data Definitions for libxslt**

This section defines global identifiers and their values that are associated with interfaces contained in libxslt. These definitions are organized into groups that correspond to system headers. This convention is used as a convenience for the reader, and does not imply the existence of these headers, or their content. Where an interface is defined as requiring a particular system header file all of the data definitions for that system header file presented here shall be in effect.

This section gives data definitions to promote binary application portability, not to repeat source interface definitions available elsewhere. System providers and application developers should use this ABI to supplement - not to replace - source interface definition specifications.

This specification uses the [ISO C (1999)](#ID_STD_46_ISOC99) C Language as the reference programming language, and data definitions are specified in ISO C format. The C language is used here as a convenient notation. Using a C language description of these data objects does not preclude their use by other programming languages.

### **9.2.1 libxslt/attributes.h**

extern void xsltApplyAttributeSet(xsltTransformContextPtr ctxt,

xmlNodePtr node, xmlNodePtr inst,

const unsigned char \*attributes);

extern void xsltFreeAttributeSetsHashes(xsltStylesheetPtr style);

extern void xsltParseStylesheetAttributeSet(xsltStylesheetPtr style,

xmlNodePtr cur);

extern void xsltResolveStylesheetAttributeSet(xsltStylesheetPtr style);

### **9.2.2 libxslt/documents.h**

typedef enum {

XSLT\_LOAD\_START,

XSLT\_LOAD\_STYLESHEET,

XSLT\_LOAD\_DOCUMENT

} xsltLoadType;

typedef xmlDocPtr(\*xsltDocLoaderFunc) (void);

extern xsltDocLoaderFunc xsltDocDefaultLoader;

extern xsltDocumentPtr xsltFindDocument(xsltTransformContextPtr ctxt,

xmlDocPtr doc);

extern void xsltFreeDocuments(xsltTransformContextPtr ctxt);

extern void xsltFreeStyleDocuments(xsltStylesheetPtr style);

extern xsltDocumentPtr xsltLoadDocument(xsltTransformContextPtr ctxt,

const unsigned char \*URI);

extern xsltDocumentPtr xsltLoadStyleDocument(xsltStylesheetPtr style,

const unsigned char \*URI);

extern xsltDocumentPtr xsltNewDocument(xsltTransformContextPtr ctxt,

xmlDocPtr doc);

extern xsltDocumentPtr xsltNewStyleDocument(xsltStylesheetPtr style,

xmlDocPtr doc);

extern void xsltSetLoaderFunc(xsltDocLoaderFunc f);

### **9.2.3 libxslt/extensions.h**

typedef void \*(\*xsltStyleExtInitFunction) (void);

typedef void (\*xsltStyleExtShutdownFunction) (void);

typedef void \*(\*xsltExtInitFunction) (void);

typedef void (\*xsltExtShutdownFunction) (void);

typedef xsltElemPreCompPtr(\*xsltPreComputeFunction) (void);

typedef void (\*xsltTopLevelFunction) (void);

extern int xsltCheckExtPrefix(xsltStylesheetPtr style,

const unsigned char \*URI);

extern int xsltCheckExtURI(xsltStylesheetPtr style,

const unsigned char \*URI);

extern void xsltDebugDumpExtensions(FILE \* output);

extern xsltTransformFunction xsltExtElementLookup(xsltTransformContextPtr

ctxt,

const unsigned char

\*name,

const unsigned char

\*URI);

extern xsltTransformFunction xsltExtModuleElementLookup(const unsigned char

\*name,

const unsigned char

\*URI);

extern xsltPreComputeFunction xsltExtModuleElementPreComputeLookup(const

unsigned

char

\*name,

const

unsigned

char

\*URI);

extern xmlXPathFunction xsltExtModuleFunctionLookup(const unsigned char

\*name,

const unsigned char

\*URI);

extern xsltTopLevelFunction xsltExtModuleTopLevelLookup(const unsigned char

\*name,

const unsigned char

\*URI);

extern void xsltFreeCtxtExts(xsltTransformContextPtr ctxt);

extern void xsltFreeExts(xsltStylesheetPtr style);

extern void \*xsltGetExtData(xsltTransformContextPtr ctxt,

const unsigned char \*URI);

extern xmlHashTablePtr xsltGetExtInfo(xsltStylesheetPtr style,

const unsigned char \*URI);

extern int xsltInitCtxtExts(xsltTransformContextPtr ctxt);

extern void xsltInitElemPreComp(xsltElemPreCompPtr comp,

xsltStylesheetPtr style, xmlNodePtr inst,

xsltTransformFunction function,

xsltElemPreCompDeallocator freeFunc);

extern void xsltInitGlobals(void);

extern xsltElemPreCompPtr xsltNewElemPreComp(xsltStylesheetPtr style,

xmlNodePtr inst,

xsltTransformFunction

function);

extern xsltElemPreCompPtr xsltPreComputeExtModuleElement(xsltStylesheetPtr

style,

xmlNodePtr inst);

extern int xsltRegisterExtElement(xsltTransformContextPtr ctxt,

const unsigned char \*name,

const unsigned char \*URI,

xsltTransformFunction function);

extern int xsltRegisterExtFunction(xsltTransformContextPtr ctxt,

const unsigned char \*name,

const unsigned char \*URI,

xmlXPathFunction function);

extern int xsltRegisterExtModule(const unsigned char \*URI,

xsltExtInitFunction initFunc,

xsltExtShutdownFunction shutdownFunc);

extern int xsltRegisterExtModuleElement(const unsigned char \*name,

const unsigned char \*URI,

xsltPreComputeFunction precomp,

xsltTransformFunction transform);

extern int xsltRegisterExtModuleFull(const unsigned char \*URI,

xsltExtInitFunction initFunc,

xsltExtShutdownFunction shutdownFunc,

xsltStyleExtInitFunction

styleInitFunc,

xsltStyleExtShutdownFunction

styleShutdownFunc);

extern int xsltRegisterExtModuleFunction(const unsigned char \*name,

const unsigned char \*URI,

xmlXPathFunction function);

extern int xsltRegisterExtModuleTopLevel(const unsigned char \*name,

const unsigned char \*URI,

xsltTopLevelFunction function);

extern int xsltRegisterExtPrefix(xsltStylesheetPtr style,

const unsigned char \*prefix,

const unsigned char \*URI);

extern void xsltRegisterTestModule(void);

extern void xsltShutdownCtxtExts(xsltTransformContextPtr ctxt);

extern void xsltShutdownExts(xsltStylesheetPtr style);

extern void \*xsltStyleGetExtData(xsltStylesheetPtr style,

const unsigned char \*URI);

extern int xsltUnregisterExtModule(const unsigned char \*URI);

extern int xsltUnregisterExtModuleElement(const unsigned char \*name,

const unsigned char \*URI);

extern int xsltUnregisterExtModuleFunction(const unsigned char \*name,

const unsigned char \*URI);

extern int xsltUnregisterExtModuleTopLevel(const unsigned char \*name,

const unsigned char \*URI);

extern xsltTransformContextPtr

xsltXPathGetTransformContext(xmlXPathParserContextPtr ctxt);

### **9.2.4 libxslt/extra.h**

#define XSLT\_SAXON\_NAMESPACE ((xmlChar \*) "http://icl.com/saxon")

#define XSLT\_NORM\_SAXON\_NAMESPACE ((xmlChar \*) "http://nwalsh.com/xslt/ext/com.nwalsh.saxon.CVS")

#define XSLT\_XT\_NAMESPACE ((xmlChar \*) "http://www.jclark.com/xt")

#define XSLT\_LIBXSLT\_NAMESPACE ((xmlChar \*) "http://xmlsoft.org/XSLT/namespace")

#define XSLT\_XALAN\_NAMESPACE ((xmlChar \*) "org.apache.xalan.xslt.extensions.Redirect")

extern void xsltDebug(xsltTransformContextPtr ctxt, xmlNodePtr node,

xmlNodePtr inst, xsltStylePreCompPtr comp);

extern void xsltFunctionNodeSet(xmlXPathParserContextPtr ctxt, int nargs);

extern void xsltRegisterAllExtras(void);

extern void xsltRegisterExtras(xsltTransformContextPtr ctxt);

### **9.2.5 libxslt/functions.h**

#define XSLT\_REGISTER\_FUNCTION\_LOOKUP(ctxt) xmlXPathRegisterFuncLookup((ctxt)->xpathCtxt, (xmlXPathFuncLookupFunc) xsltXPathFunctionLookup, (void \*)(ctxt->xpathCtxt));

extern void xsltDocumentFunction(xmlXPathParserContextPtr ctxt, int nargs);

extern void xsltElementAvailableFunction(xmlXPathParserContextPtr ctxt,

int nargs);

extern void xsltFormatNumberFunction(xmlXPathParserContextPtr ctxt,

int nargs);

extern void xsltFunctionAvailableFunction(xmlXPathParserContextPtr ctxt,

int nargs);

extern void xsltGenerateIdFunction(xmlXPathParserContextPtr ctxt,

int nargs);

extern void xsltKeyFunction(xmlXPathParserContextPtr ctxt, int nargs);

extern void xsltRegisterAllFunctions(xmlXPathContextPtr ctxt);

extern void xsltSystemPropertyFunction(xmlXPathParserContextPtr ctxt,

int nargs);

extern void xsltUnparsedEntityURIFunction(xmlXPathParserContextPtr ctxt,

int nargs);

extern xmlXPathFunction xsltXPathFunctionLookup(xmlXPathContextPtr ctxt,

const unsigned char \*name,

const unsigned char

\*ns\_uri);

### **9.2.6 libxslt/imports.h**

#define XSLT\_GET\_IMPORT\_INT(res,style,name) { xsltStylesheetPtr st = style; res = -1; while (st != NULL) { if (st->name != -1) { res = st->name; break; } st = xsltNextImport(st); }}

#define XSLT\_GET\_IMPORT\_PTR(res,style,name) { xsltStylesheetPtr st = style; res = NULL; while (st != NULL) { if (st->name != NULL) { res = st->name; break; } st = xsltNextImport(st); }}

extern int xsltFindElemSpaceHandling(xsltTransformContextPtr ctxt,

xmlNodePtr node);

extern xsltTemplatePtr xsltFindTemplate(xsltTransformContextPtr ctxt,

const unsigned char \*name,

const unsigned char \*nameURI);

extern int xsltNeedElemSpaceHandling(xsltTransformContextPtr ctxt);

extern xsltStylesheetPtr xsltNextImport(xsltStylesheetPtr style);

extern int xsltParseStylesheetImport(xsltStylesheetPtr style,

xmlNodePtr cur);

extern int xsltParseStylesheetInclude(xsltStylesheetPtr style,

xmlNodePtr cur);

### **9.2.7 libxslt/keys.h**

#define NODE\_IS\_KEYED (1 >> 15)

extern int xsltAddKey(xsltStylesheetPtr style, const unsigned char \*name,

const unsigned char \*nameURI,

const unsigned char \*match, const unsigned char \*use,

xmlNodePtr inst);

extern void xsltFreeDocumentKeys(xsltDocumentPtr doc);

extern void xsltFreeKeys(xsltStylesheetPtr style);

extern xmlNodeSetPtr xsltGetKey(xsltTransformContextPtr ctxt,

const unsigned char \*name,

const unsigned char \*nameURI,

const unsigned char \*value);

extern void xsltInitCtxtKeys(xsltTransformContextPtr ctxt,

xsltDocumentPtr doc);

### **9.2.8 libxslt/namespaces.h**

#define UNDEFINED\_DEFAULT\_NS (const xmlChar \*) -1L

extern xmlNsPtr xsltCopyNamespace(xsltTransformContextPtr ctxt,

xmlNodePtr elem, xmlNsPtr ns);

extern xmlNsPtr xsltCopyNamespaceList(xsltTransformContextPtr ctxt,

xmlNodePtr node, xmlNsPtr cur);

extern void xsltFreeNamespaceAliasHashes(xsltStylesheetPtr style);

extern xmlNsPtr xsltGetNamespace(xsltTransformContextPtr ctxt,

xmlNodePtr cur, xmlNsPtr ns,

xmlNodePtr out);

extern xmlNsPtr xsltGetPlainNamespace(xsltTransformContextPtr ctxt,

xmlNodePtr cur, xmlNsPtr ns,

xmlNodePtr out);

extern xmlNsPtr xsltGetSpecialNamespace(xsltTransformContextPtr ctxt,

xmlNodePtr cur,

const unsigned char \*URI,

const unsigned char \*prefix,

xmlNodePtr out);

extern void xsltNamespaceAlias(xsltStylesheetPtr style, xmlNodePtr node);

### **9.2.9 libxslt/numbersInternals.h**

typedef struct \_xsltNumberData {

const unsigned char \*level;

const unsigned char \*count;

const unsigned char \*from;

const unsigned char \*value;

const unsigned char \*format;

int has\_format;

int digitsPerGroup;

int groupingCharacter;

int groupingCharacterLen;

xmlDocPtr doc;

xmlNodePtr node;

} xsltNumberData;

typedef xsltNumberData \*xsltNumberDataPtr;

typedef struct \_xsltFormatNumberInfo {

int integer\_hash;

int integer\_digits;

int frac\_digits;

int frac\_hash;

int group;

int multiplier;

char add\_decimal;

char is\_multiplier\_set;

char is\_negative\_pattern;

} xsltFormatNumberInfo;

### **9.2.10 libxslt/pattern.h**

typedef struct \_xsltCompMatch xsltCompMatch;

typedef xsltCompMatch \*xsltCompMatchPtr;

extern int xsltAddTemplate(xsltStylesheetPtr style, xsltTemplatePtr cur,

const unsigned char \*mode,

const unsigned char \*modeURI);

extern void xsltCleanupTemplates(xsltStylesheetPtr style);

extern xsltCompMatchPtr xsltCompilePattern(const unsigned char \*pattern,

xmlDocPtr doc, xmlNodePtr node,

xsltStylesheetPtr style,

xsltTransformContextPtr

runtime);

extern void xsltFreeCompMatchList(xsltCompMatchPtr comp);

extern void xsltFreeTemplateHashes(xsltStylesheetPtr style);

extern xsltTemplatePtr xsltGetTemplate(xsltTransformContextPtr ctxt,

xmlNodePtr node,

xsltStylesheetPtr style);

extern void xsltNormalizeCompSteps(void \*payload, void \*data,

const unsigned char \*name);

extern int xsltTestCompMatchList(xsltTransformContextPtr ctxt,

xmlNodePtr node, xsltCompMatchPtr comp);

### **9.2.11 libxslt/preproc.h**

extern xsltElemPreCompPtr xsltDocumentComp(xsltStylesheetPtr style,

xmlNodePtr inst,

xsltTransformFunction function);

extern const xmlChar \*xsltExtMarker;

extern void xsltFreeStylePreComps(xsltStylesheetPtr style);

extern void xsltStylePreCompute(xsltStylesheetPtr style, xmlNodePtr inst);

### **9.2.12 libxslt/security.h**

typedef struct \_xsltSecurityPrefs xsltSecurityPrefs;

typedef xsltSecurityPrefs \*xsltSecurityPrefsPtr;

typedef enum {

XSLT\_SECPREF\_READ\_FILE,

XSLT\_SECPREF\_WRITE\_FILE,

XSLT\_SECPREF\_CREATE\_DIRECTORY,

XSLT\_SECPREF\_READ\_NETWORK,

XSLT\_SECPREF\_WRITE\_NETWORK

} xsltSecurityOption;

typedef int (\*xsltSecurityCheck) (void);

extern int xsltCheckRead(xsltSecurityPrefsPtr sec,

xsltTransformContextPtr ctxt,

const unsigned char \*URL);

extern int xsltCheckWrite(xsltSecurityPrefsPtr sec,

xsltTransformContextPtr ctxt,

const unsigned char \*URL);

extern void xsltFreeSecurityPrefs(xsltSecurityPrefsPtr sec);

extern xsltSecurityPrefsPtr xsltGetDefaultSecurityPrefs(void);

extern xsltSecurityCheck xsltGetSecurityPrefs(xsltSecurityPrefsPtr sec,

xsltSecurityOption option);

extern xsltSecurityPrefsPtr xsltNewSecurityPrefs(void);

extern int xsltSecurityAllow(xsltSecurityPrefsPtr sec,

xsltTransformContextPtr ctxt,

const char \*value);

extern int xsltSecurityForbid(xsltSecurityPrefsPtr sec,

xsltTransformContextPtr ctxt,

const char \*value);

extern int xsltSetCtxtSecurityPrefs(xsltSecurityPrefsPtr sec,

xsltTransformContextPtr ctxt);

extern void xsltSetDefaultSecurityPrefs(xsltSecurityPrefsPtr sec);

extern int xsltSetSecurityPrefs(xsltSecurityPrefsPtr sec,

xsltSecurityOption option,

xsltSecurityCheck func);

### **9.2.13 libxslt/templates.h**

extern xmlAttrPtr xsltAttrListTemplateProcess(xsltTransformContextPtr ctxt,

xmlNode \* target,

xmlAttrPtr cur);

extern xmlAttrPtr xsltAttrTemplateProcess(xsltTransformContextPtr ctxt,

xmlNode \* target,

xmlAttrPtr attr);

extern xmlChar \*xsltAttrTemplateValueProcess(xsltTransformContextPtr ctxt,

const unsigned char \*attr);

extern xmlChar \*xsltAttrTemplateValueProcessNode(xsltTransformContextPtr

ctxt,

const unsigned char \*str,

xmlNode \* node);

extern xmlChar \*xsltEvalAttrValueTemplate(xsltTransformContextPtr ctxt,

xmlNodePtr node,

const unsigned char \*name,

const unsigned char \*ns);

extern const unsigned char

\*xsltEvalStaticAttrValueTemplate(xsltStylesheetPtr style,

xmlNodePtr node,

const unsigned char \*name,

const unsigned char \*ns, int \*found);

extern xmlChar \*xsltEvalTemplateString(xsltTransformContextPtr ctxt,

xmlNodePtr contextNode,

xmlNodePtr inst);

extern int xsltEvalXPathPredicate(xsltTransformContextPtr ctxt,

xmlXPathCompExprPtr comp,

xmlNs \* \*nsList, int nsNr);

extern xmlChar \*xsltEvalXPathString(xsltTransformContextPtr ctxt,

xmlXPathCompExprPtr comp);

extern xmlChar \*xsltEvalXPathStringNs(xsltTransformContextPtr ctxt,

xmlXPathCompExprPtr comp, int nsNr,

xmlNs \* \*nsList);

extern xmlNode \*\*xsltTemplateProcess(xsltTransformContextPtr ctxt,

xmlNode \* node);

### **9.2.14 libxslt/transform.h**

extern void xslHandleDebugger(xmlNodePtr cur, xmlNodePtr node,

xsltTemplatePtr templ,

xsltTransformContextPtr ctxt);

extern void xsltApplyImports(xsltTransformContextPtr ctxt, xmlNodePtr node,

xmlNodePtr inst, xsltStylePreCompPtr comp);

extern void xsltApplyOneTemplate(xsltTransformContextPtr ctxt,

xmlNodePtr node, xmlNodePtr list,

xsltTemplatePtr templ,

xsltStackElemPtr params);

extern void xsltApplyStripSpaces(xsltTransformContextPtr ctxt,

xmlNodePtr node);

extern xmlDocPtr xsltApplyStylesheet(xsltStylesheetPtr style,

xmlDocPtr doc, const char \*\*params);

extern xmlDocPtr xsltApplyStylesheetUser(xsltStylesheetPtr style,

xmlDocPtr doc,

const char \*\*params,

const char \*output,

FILE \* profile,

xsltTransformContextPtr userCtxt);

extern void xsltApplyTemplates(xsltTransformContextPtr ctxt,

xmlNodePtr node, xmlNodePtr inst,

xsltStylePreCompPtr comp);

extern void xsltAttribute(xsltTransformContextPtr ctxt, xmlNodePtr node,

xmlNodePtr inst, xsltStylePreCompPtr comp);

extern void xsltCallTemplate(xsltTransformContextPtr ctxt, xmlNodePtr node,

xmlNodePtr inst, xsltStylePreCompPtr comp);

extern void xsltChoose(xsltTransformContextPtr ctxt, xmlNodePtr node,

xmlNodePtr inst, xsltStylePreCompPtr comp);

extern void xsltComment(xsltTransformContextPtr ctxt, xmlNodePtr node,

xmlNodePtr inst, xsltStylePreCompPtr comp);

extern void xsltCopy(xsltTransformContextPtr ctxt, xmlNodePtr node,

xmlNodePtr inst, xsltStylePreCompPtr comp);

extern void xsltCopyOf(xsltTransformContextPtr ctxt, xmlNodePtr node,

xmlNodePtr inst, xsltStylePreCompPtr comp);

extern xmlNodePtr xsltCopyTextString(xsltTransformContextPtr ctxt,

xmlNodePtr target,

const unsigned char \*string,

int noescape);

extern void xsltDocumentElem(xsltTransformContextPtr ctxt, xmlNodePtr node,

xmlNodePtr inst, xsltStylePreCompPtr comp);

extern void xsltElement(xsltTransformContextPtr ctxt, xmlNodePtr node,

xmlNodePtr inst, xsltStylePreCompPtr comp);

extern void xsltForEach(xsltTransformContextPtr ctxt, xmlNodePtr node,

xmlNodePtr inst, xsltStylePreCompPtr comp);

extern void xsltFreeTransformContext(xsltTransformContextPtr ctxt);

extern int xsltGetXIncludeDefault(void);

extern void xsltIf(xsltTransformContextPtr ctxt, xmlNodePtr node,

xmlNodePtr inst, xsltStylePreCompPtr comp);

extern void xsltLocalVariablePop(xsltTransformContextPtr ctxt, int limitNr,

int level);

extern int xsltLocalVariablePush(xsltTransformContextPtr ctxt,

xsltStackElemPtr variable, int level);

extern xsltTransformContextPtr xsltNewTransformContext(xsltStylesheetPtr

style,

xmlDocPtr doc);

extern void xsltNumber(xsltTransformContextPtr ctxt, xmlNodePtr node,

xmlNodePtr inst, xsltStylePreCompPtr comp);

extern void xsltProcessOneNode(xsltTransformContextPtr ctxt,

xmlNodePtr node, xsltStackElemPtr params);

extern void xsltProcessingInstruction(xsltTransformContextPtr ctxt,

xmlNodePtr node, xmlNodePtr inst,

xsltStylePreCompPtr comp);

extern xmlDocPtr xsltProfileStylesheet(xsltStylesheetPtr style,

xmlDocPtr doc, const char \*\*params,

FILE \* output);

extern void xsltRegisterAllElement(xsltTransformContextPtr ctxt);

extern int xsltRunStylesheet(xsltStylesheetPtr style, xmlDocPtr doc,

const char \*\*params, const char \*output,

xmlSAXHandlerPtr SAX,

xmlOutputBufferPtr IObuf);

extern int xsltRunStylesheetUser(xsltStylesheetPtr style, xmlDocPtr doc,

const char \*\*params, const char \*output,

xmlSAXHandlerPtr SAX,

xmlOutputBufferPtr IObuf, FILE \* profile,

xsltTransformContextPtr userCtxt);

extern void xsltSetXIncludeDefault(int xinclude);

extern void xsltSort(xsltTransformContextPtr ctxt, xmlNodePtr node,

xmlNodePtr inst, xsltStylePreCompPtr comp);

extern void xsltText(xsltTransformContextPtr ctxt, xmlNodePtr node,

xmlNodePtr inst, xsltStylePreCompPtr comp);

extern void xsltValueOf(xsltTransformContextPtr ctxt, xmlNodePtr node,

xmlNodePtr inst, xsltStylePreCompPtr comp);

### **9.2.15 libxslt/variables.h**

#define XSLT\_REGISTER\_VARIABLE\_LOOKUP(ctxt) xmlXPathRegisterVariableLookup((ctxt)->xpathCtxt, xsltXPathVariableLookup, (void \*)(ctxt)); xsltRegisterAllFunctions((ctxt)->xpathCtxt); xsltRegisterAllElement(ctxt); (ctxt)->xpathCtxt->extra = ctxt

extern int xsltAddStackElemList(xsltTransformContextPtr ctxt,

xsltStackElemPtr elems);

extern int xsltEvalGlobalVariables(xsltTransformContextPtr ctxt);

extern int xsltEvalOneUserParam(xsltTransformContextPtr ctxt,

const unsigned char \*name,

const unsigned char \*value);

extern int xsltEvalUserParams(xsltTransformContextPtr ctxt,

const char \*\*params);

extern void xsltFreeGlobalVariables(xsltTransformContextPtr ctxt);

extern void xsltParseGlobalParam(xsltStylesheetPtr style, xmlNodePtr cur);

extern void xsltParseGlobalVariable(xsltStylesheetPtr style,

xmlNodePtr cur);

extern xsltStackElemPtr

xsltParseStylesheetCallerParam(xsltTransformContextPtr ctxt,

xmlNodePtr cur);

extern void xsltParseStylesheetParam(xsltTransformContextPtr ctxt,

xmlNodePtr cur);

extern void xsltParseStylesheetVariable(xsltTransformContextPtr ctxt,

xmlNodePtr cur);

extern int xsltQuoteOneUserParam(xsltTransformContextPtr ctxt,

const unsigned char \*name,

const unsigned char \*value);

extern int xsltQuoteUserParams(xsltTransformContextPtr ctxt,

const char \*\*params);

extern xmlXPathObjectPtr xsltVariableLookup(xsltTransformContextPtr ctxt,

const unsigned char \*name,

const unsigned char \*ns\_uri);

extern xmlXPathObjectPtr xsltXPathVariableLookup(void \*ctxt,

const unsigned char \*name,

const unsigned char

\*ns\_uri);

### **9.2.16 libxslt/xslt.h**

#define XSLT\_NAMESPACE ((xmlChar \*) "http://www.w3.org/1999/XSL/Transform")

#define XSLT\_DEFAULT\_VERSION "1.0"

#define XSLT\_DEFAULT\_URL "http://xmlsoft.org/XSLT/"

#define XSLT\_DEFAULT\_VENDOR "libxslt"

#define XSLT\_PARSE\_OPTIONS XML\_PARSE\_NOENT | XML\_PARSE\_DTDLOAD | XML\_PARSE\_DTDATTR | XML\_PARSE\_NOCDATA

extern void xsltCleanupGlobals(void);

extern const char \*xsltEngineVersion;

extern void xsltInit(void);

extern const int xsltLibxmlVersion;

extern const int xsltLibxsltVersion;

extern int xsltMaxDepth;

### **9.2.17 libxslt/xsltInternals.h**

#define XSLT\_FAST\_IF

#define XSLT\_REFACTORED\_KEYCOMP

#define XSLT\_REFACTORED\_VARS

#define XSLT\_IS\_TEXT\_NODE(n) ((n != NULL) && (((n)->type == XML\_TEXT\_NODE) || ((n)->type == XML\_CDATA\_SECTION\_NODE)))

#define XSLT\_IS\_RES\_TREE\_FRAG(n) ((n != NULL) && ((n)->type == XML\_DOCUMENT\_NODE) && ((n)->name != NULL) && ((n)->name[0] == ' '))

#define XSLT\_RUNTIME\_EXTRA\_FREE(ctxt,nr) (ctxt)->extras[(nr)].deallocate

#define XSLT\_RUNTIME\_EXTRA\_LST(ctxt,nr) (ctxt)->extras[(nr)].info

#define XSLT\_RUNTIME\_EXTRA(ctxt,nr,typ) (ctxt)->extras[(nr)].val.typ

#define XSLT\_MARK\_RES\_TREE\_FRAG(n) (n)->name = (char \*) xmlStrdup(BAD\_CAST " fake node libxslt");

#define XSLT\_PAT\_NO\_PRIORITY -12345789

#define XSLT\_MAX\_SORT 15

#define CHECK\_STOPPEDE if (ctxt->state == XSLT\_STATE\_STOPPED) goto error;

#define CHECK\_STOPPED0 if (ctxt->state == XSLT\_STATE\_STOPPED) return(0);

#define CHECK\_STOPPED if (ctxt->state == XSLT\_STATE\_STOPPED) return;

typedef struct \_xsltRuntimeExtra {

void \*info;

xmlFreeFunc deallocate;

union {

void \*ptr;

int ival;

} val;

} xsltRuntimeExtra;

typedef xsltRuntimeExtra \*xsltRuntimeExtraPtr;

typedef struct \_xsltTemplate {

struct \_xsltTemplate \*next;

struct \_xsltStylesheet \*style;

xmlChar \*match;

float priority;

const unsigned char \*name;

const unsigned char \*nameURI;

const unsigned char \*mode;

const unsigned char \*modeURI;

xmlNodePtr content;

xmlNodePtr elem;

int inheritedNsNr;

xmlNs \*\*inheritedNs;

int nbCalls;

unsigned long int time;

void \*params;

} xsltTemplate;

typedef xsltTemplate \*xsltTemplatePtr;

typedef struct \_xsltDecimalFormat {

struct \_xsltDecimalFormat \*next;

xmlChar \*name;

xmlChar \*digit;

xmlChar \*patternSeparator;

xmlChar \*minusSign;

xmlChar \*infinity;

xmlChar \*noNumber;

xmlChar \*decimalPoint;

xmlChar \*grouping;

xmlChar \*percent;

xmlChar \*permille;

xmlChar \*zeroDigit;

} xsltDecimalFormat;

typedef xsltDecimalFormat \*xsltDecimalFormatPtr;

typedef struct \_xsltDocument {

struct \_xsltDocument \*next;

int main;

xmlDocPtr doc;

void \*keys;

struct \_xsltDocument \*includes;

int preproc;

int nbKeysComputed;

} xsltDocument;

typedef xsltDocument \*xsltDocumentPtr;

typedef struct \_xsltKeyDef {

struct \_xsltKeyDef \*next;

xmlNodePtr inst;

xmlChar \*name;

xmlChar \*nameURI;

xmlChar \*match;

xmlChar \*use;

xmlXPathCompExprPtr comp;

xmlXPathCompExprPtr usecomp;

xmlNs \*\*nsList;

int nsNr;

} xsltKeyDef;

typedef xsltKeyDef \*xsltKeyDefPtr;

typedef struct \_xsltKeyTable {

struct \_xsltKeyTable \*next;

xmlChar \*name;

xmlChar \*nameURI;

xmlHashTablePtr keys;

} xsltKeyTable;

typedef struct \_xsltStylesheet {

struct \_xsltStylesheet \*parent;

struct \_xsltStylesheet \*next;

struct \_xsltStylesheet \*imports;

xsltDocumentPtr docList;

xmlDocPtr doc;

xmlHashTablePtr stripSpaces;

int stripAll;

xmlHashTablePtr cdataSection;

xsltStackElemPtr variables;

xsltTemplatePtr templates;

void \*templatesHash;

void \*rootMatch;

void \*keyMatch;

void \*elemMatch;

void \*attrMatch;

void \*parentMatch;

void \*textMatch;

void \*piMatch;

void \*commentMatch;

xmlHashTablePtr nsAliases;

xmlHashTablePtr attributeSets;

xmlHashTablePtr nsHash;

void \*nsDefs;

void \*keys;

xmlChar \*method;

xmlChar \*methodURI;

xmlChar \*version;

xmlChar \*encoding;

int omitXmlDeclaration;

xsltDecimalFormatPtr decimalFormat;

int standalone;

xmlChar \*doctypePublic;

xmlChar \*doctypeSystem;

int indent;

xmlChar \*mediaType;

xsltElemPreCompPtr preComps;

int warnings;

int errors;

xmlChar \*exclPrefix;

xmlChar \*\*exclPrefixTab;

int exclPrefixNr;

int exclPrefixMax;

void \*\_private;

xmlHashTablePtr extInfos;

int extrasNr;

xsltDocumentPtr includes;

xmlDictPtr dict;

void \*attVTs;

const unsigned char \*defaultAlias;

int nopreproc;

int internalized;

int literal\_result;

xsltStylesheetPtr principal;

} xsltStylesheet;

typedef xsltStylesheet \*xsltStylesheetPtr;

typedef struct \_xsltTransformContext {

xsltStylesheetPtr style;

xsltOutputType type;

xsltTemplatePtr templ;

int templNr;

int templMax;

xsltTemplatePtr \*templTab;

xsltStackElemPtr vars;

int varsNr;

int varsMax;

xsltStackElemPtr \*varsTab;

int varsBase;

xmlHashTablePtr extFunctions;

xmlHashTablePtr extElements;

xmlHashTablePtr extInfos;

const unsigned char \*mode;

const unsigned char \*modeURI;

xsltDocumentPtr docList;

xsltDocumentPtr document;

xmlNode \*node;

xmlNodeSetPtr nodeList;

xmlDocPtr output;

xmlNode \*insert;

xmlXPathContextPtr xpathCtxt;

xsltTransformState state;

xmlHashTablePtr globalVars;

xmlNode \*inst;

int xinclude;

const char \*outputFile;

int profile;

long int prof;

int profNr;

int profMax;

long int \*profTab;

void \*\_private;

int extrasNr;

int extrasMax;

xsltRuntimeExtraPtr extras;

xsltDocumentPtr styleList;

void \*sec;

xmlGenericErrorFunc error;

void \*errctx;

xsltSortFunc sortfunc;

xmlDocPtr tmpRVT;

xmlDocPtr persistRVT;

int ctxtflags;

const unsigned char \*lasttext;

unsigned int lasttsize;

unsigned int lasttuse;

int debugStatus;

unsigned long int \*traceCode;

int parserOptions;

xmlDictPtr dict;

xmlDocPtr tmpDoc;

int internalized;

int nbKeys;

int hasTemplKeyPatterns;

xsltTemplatePtr currentTemplateRule;

xmlNode \*initialContextNode;

xmlDocPtr initialContextDoc;

xsltTransformCachePtr cache;

void \*contextVariable;

xmlDocPtr localRVT;

xmlDocPtr localRVTBase;

int keyInitLevel;

int funcLevel;

} xsltTransformContext;

typedef xsltTransformContext \*xsltTransformContextPtr;

typedef struct \_xsltElemPreComp {

xsltElemPreCompPtr next;

xsltStyleType type;

xsltTransformFunction func;

xmlNode \*inst;

xsltElemPreCompDeallocator free;

} xsltElemPreComp;

typedef xsltElemPreComp \*xsltElemPreCompPtr;

typedef void (\*xsltTransformFunction) (void);

typedef void (\*xsltSortFunc) (void);

typedef enum {

XSLT\_FUNC\_COPY,

XSLT\_FUNC\_SORT,

XSLT\_FUNC\_TEXT,

XSLT\_FUNC\_ELEMENT,

XSLT\_FUNC\_ATTRIBUTE,

XSLT\_FUNC\_COMMENT,

XSLT\_FUNC\_PI,

XSLT\_FUNC\_COPYOF,

XSLT\_FUNC\_VALUEOF,

XSLT\_FUNC\_NUMBER,

XSLT\_FUNC\_APPLYIMPORTS,

XSLT\_FUNC\_CALLTEMPLATE,

XSLT\_FUNC\_APPLYTEMPLATES,

XSLT\_FUNC\_CHOOSE,

XSLT\_FUNC\_IF,

XSLT\_FUNC\_FOREACH,

XSLT\_FUNC\_DOCUMENT,

XSLT\_FUNC\_WITHPARAM,

XSLT\_FUNC\_PARAM,

XSLT\_FUNC\_VARIABLE,

XSLT\_FUNC\_WHEN,

XSLT\_FUNC\_EXTENSION

} xsltStyleType;

typedef void (\*xsltElemPreCompDeallocator) (void);

typedef struct \_xsltStylePreComp {

xsltElemPreCompPtr next;

xsltStyleType type;

xsltTransformFunction func;

xmlNode \*inst;

const unsigned char \*stype;

int has\_stype;

int number;

const unsigned char \*order;

int has\_order;

int descending;

const unsigned char \*lang;

int has\_lang;

xsltLocale locale;

const unsigned char \*case\_order;

int lower\_first;

const unsigned char \*use;

int has\_use;

int noescape;

const unsigned char \*name;

int has\_name;

const unsigned char \*ns;

int has\_ns;

const unsigned char \*mode;

const unsigned char \*modeURI;

const unsigned char \*test;

xsltTemplatePtr templ;

const unsigned char \*select;

int ver11;

const unsigned char \*filename;

int has\_filename;

xsltNumberData numdata;

xmlXPathCompExprPtr comp;

xmlNs \*\*nsList;

int nsNr;

} xsltStylePreComp;

typedef xsltStylePreComp \*xsltStylePreCompPtr;

typedef struct \_xsltStackElem {

struct \_xsltStackElem \*next;

xsltStylePreCompPtr comp;

int computed;

const unsigned char \*name;

const unsigned char \*nameURI;

const unsigned char \*select;

xmlNode \*tree;

xmlXPathObjectPtr value;

xmlDocPtr fragment;

int level;

xsltTransformContextPtr context;

int flags;

} xsltStackElem;

typedef xsltStackElem \*xsltStackElemPtr;

typedef struct \_xsltTransformCache {

xmlDocPtr RVT;

int nbRVT;

xsltStackElemPtr stackItems;

int nbStackItems;

} xsltTransformCache;

typedef xsltTransformCache \*xsltTransformCachePtr;

typedef enum {

XSLT\_OUTPUT\_XML,

XSLT\_OUTPUT\_HTML,

XSLT\_OUTPUT\_TEXT

} xsltOutputType;

typedef enum {

XSLT\_STATE\_OK,

XSLT\_STATE\_ERROR,

XSLT\_STATE\_STOPPED

} xsltTransformState;

extern int xsltAllocateExtra(xsltStylesheetPtr style);

extern int xsltAllocateExtraCtxt(xsltTransformContextPtr ctxt);

extern void xsltCompileAttr(xsltStylesheetPtr style, xmlAttrPtr attr);

extern xmlDocPtr xsltCreateRVT(xsltTransformContextPtr ctxt);

extern xsltDecimalFormatPtr xsltDecimalFormatGetByName(xsltStylesheetPtr

style,

xmlChar \* name);

extern xmlChar \*xsltEvalAVT(xsltTransformContextPtr ctxt, void \*avt,

xmlNode \* node);

extern int xsltExtensionInstructionResultFinalize(xsltTransformContextPtr

ctxt);

extern int xsltExtensionInstructionResultRegister(xsltTransformContextPtr

ctxt,

xmlXPathObjectPtr obj);

extern xmlXPathError xsltFormatNumberConversion(xsltDecimalFormatPtr self,

xmlChar \* format,

double number,

xmlChar \* \*result);

extern void xsltFreeAVTList(void \*avt);

extern void xsltFreeRVTs(xsltTransformContextPtr ctxt);

extern void xsltFreeStackElemList(xsltStackElemPtr elem);

extern void xsltFreeStylesheet(xsltStylesheetPtr style);

extern int xsltInitAllDocKeys(xsltTransformContextPtr ctxt);

extern int xsltInitCtxtKey(xsltTransformContextPtr ctxt,

xsltDocumentPtr doc, xsltKeyDefPtr keyd);

extern int xsltIsBlank(xmlChar \* str);

extern xsltStylesheetPtr xsltLoadStylesheetPI(xmlDocPtr doc);

extern xsltStylesheetPtr xsltNewStylesheet(void);

extern void xsltNumberFormat(xsltTransformContextPtr ctxt,

xsltNumberDataPtr data, xmlNode \* node);

extern xsltStylesheetPtr xsltParseStylesheetDoc(xmlDocPtr doc);

extern xsltStylesheetPtr xsltParseStylesheetFile(const unsigned char

\*filename);

extern xsltStylesheetPtr xsltParseStylesheetImportedDoc(xmlDocPtr doc,

xsltStylesheetPtr

style);

extern void xsltParseStylesheetOutput(xsltStylesheetPtr style,

xmlNode \* cur);

extern xsltStylesheetPtr xsltParseStylesheetProcess(xsltStylesheetPtr ret,

xmlDocPtr doc);

extern void xsltParseTemplateContent(xsltStylesheetPtr style,

xmlNode \* templ);

extern int xsltRegisterLocalRVT(xsltTransformContextPtr ctxt,

xmlDocPtr RVT);

extern int xsltRegisterPersistRVT(xsltTransformContextPtr ctxt,

xmlDocPtr RVT);

extern int xsltRegisterTmpRVT(xsltTransformContextPtr ctxt, xmlDocPtr RVT);

extern void xsltReleaseRVT(xsltTransformContextPtr ctxt, xmlDocPtr RVT);

extern void xsltUninit(void);

### **9.2.18 libxslt/xsltconfig.h**

#define LIBXSLT\_VERSION\_EXTRA ""

#define WITH\_DEBUGGER

#define WITH\_MODULES

#define WITH\_XSLT\_DEBUG

#define XSLT\_LOCALE\_XLOCALE

#define LIBXSLT\_DEFAULT\_PLUGINS\_PATH() "/usr/lib/libxslt-plugins"

#define LIBXSLT\_DOTTED\_VERSION "1.1.26"

#define LIBXSLT\_VERSION 10126

#define LIBXSLT\_VERSION\_STRING "10126"

### **9.2.19 libxslt/xsltexports.h**

#define XSLTCALL

#define XSLTPUBFUN

#define XSLTPUBVAR extern

#define LIBXSLT\_PUBLIC XSLTPUBVAR

### **9.2.20 libxslt/xsltlocale.h**

#define XSLT\_LOCALE\_NONE

typedef void \*xsltLocale;

typedef unsigned char xsltLocaleChar;

extern void xsltFreeLocale(xsltLocale locale);

extern int xsltLocaleStrcmp(xsltLocale locale, const xsltLocaleChar \* str1,

const xsltLocaleChar \* str2);

extern xsltLocale xsltNewLocale(const unsigned char \*langName);

extern xsltLocaleChar \*xsltStrxfrm(xsltLocale locale,

const unsigned char \*string);

### **9.2.21 libxslt/xsltutils.h**

#define IS\_XSLT\_REAL\_NODE(n) (((n) != NULL) && (((n)->type == XML\_ELEMENT\_NODE) || ((n)->type == XML\_TEXT\_NODE) || ((n)->type == XML\_CDATA\_SECTION\_NODE) || ((n)->type == XML\_ATTRIBUTE\_NODE) || ((n)->type == XML\_DOCUMENT\_NODE) || ((n)->type == XML\_HTML\_DOCUMENT\_NODE) || ((n)->type == XML\_COMMENT\_NODE) || ((n)->type == XML\_PI\_NODE)))

#define IS\_XSLT\_ELEM(n) (((n) != NULL) && ((n)->ns != NULL) && (xmlStrEqual((n)->ns->href, XSLT\_NAMESPACE)))

#define IS\_XSLT\_NAME(n,val) (xmlStrEqual((n)->name, (const xmlChar \*) (val)))

#define XSLT\_TIMESTAMP\_TICS\_PER\_SEC 100000l

#define XSLT\_TRACE(ctxt,code,call) if (ctxt->traceCode && (\*(ctxt->traceCode) & code)) call

#define XSLT\_STRANGE xsltGenericError(xsltGenericErrorContext, "Internal error at %s:%d\n", \_\_FILE\_\_, \_\_LINE\_\_);

#define XSLT\_TODO xsltGenericError(xsltGenericErrorContext, "Unimplemented block at %s:%d\n", \_\_FILE\_\_, \_\_LINE\_\_);

typedef enum {

XSLT\_TRACE\_ALL,

XSLT\_TRACE\_NONE,

XSLT\_TRACE\_COPY\_TEXT,

XSLT\_TRACE\_PROCESS\_NODE,

XSLT\_TRACE\_APPLY\_TEMPLATE,

XSLT\_TRACE\_COPY,

XSLT\_TRACE\_COMMENT,

XSLT\_TRACE\_PI,

XSLT\_TRACE\_COPY\_OF,

XSLT\_TRACE\_VALUE\_OF,

XSLT\_TRACE\_CALL\_TEMPLATE,

XSLT\_TRACE\_APPLY\_TEMPLATES,

XSLT\_TRACE\_CHOOSE,

XSLT\_TRACE\_IF,

XSLT\_TRACE\_FOR\_EACH,

XSLT\_TRACE\_STRIP\_SPACES,

XSLT\_TRACE\_TEMPLATES,

XSLT\_TRACE\_KEYS,

XSLT\_TRACE\_VARIABLES

} xsltDebugTraceCodes;

extern int xslAddCall(xsltTemplatePtr templ, xmlNode \* source);

extern int xslDebugStatus;

extern void xslDropCall(void);

extern void xsltCalibrateAdjust(long int delta);

extern xmlXPathObject \*\*xsltComputeSortResult(xsltTransformContextPtr ctxt,

xmlNode \* sort);

extern xsltDebugTraceCodes xsltDebugGetDefaultTrace(void);

extern void xsltDebugSetDefaultTrace(xsltDebugTraceCodes val);

extern void xsltDefaultSortFunction(xsltTransformContextPtr ctxt,

xmlNode \* \*sorts, int nbsorts);

extern void xsltDoSortFunction(xsltTransformContextPtr ctxt,

xmlNode \* \*sorts, int nbsorts);

extern void xsltDocumentSortFunction(xmlNodeSetPtr list);

extern xmlGenericErrorFunc xsltGenericDebug;

extern void \*xsltGenericDebugContext;

extern xmlGenericErrorFunc xsltGenericError;

extern void \*xsltGenericErrorContext;

extern const unsigned char \*xsltGetCNsProp(xsltStylesheetPtr style,

xmlNodePtr node,

const unsigned char \*name,

const unsigned char \*nameSpace);

extern int xsltGetDebuggerStatus(void);

extern xmlChar \*xsltGetNsProp(xmlNodePtr node, const unsigned char \*name,

const unsigned char \*nameSpace);

extern xmlDocPtr xsltGetProfileInformation(xsltTransformContextPtr ctxt);

extern const unsigned char \*xsltGetQNameURI(xmlNode \* node,

xmlChar \* \*name);

extern const unsigned char \*xsltGetQNameURI2(xsltStylesheetPtr style,

xmlNode \* node,

const unsigned char \*\*name);

extern int xsltGetUTF8Char(const unsigned char \*utf, int \*len);

extern void xsltMessage(xsltTransformContextPtr ctxt, xmlNodePtr node,

xmlNodePtr inst);

extern void xsltPrintErrorContext(xsltTransformContextPtr ctxt,

xsltStylesheetPtr style,

xmlNodePtr node);

extern void xsltSaveProfiling(xsltTransformContextPtr ctxt, FILE \* output);

extern int xsltSaveResultTo(xmlOutputBufferPtr buf, xmlDocPtr result,

xsltStylesheetPtr style);

extern int xsltSaveResultToFd(int fd, xmlDocPtr result,

xsltStylesheetPtr style);

extern int xsltSaveResultToFile(FILE \* file, xmlDocPtr result,

xsltStylesheetPtr style);

extern int xsltSaveResultToFilename(const char \*URI, xmlDocPtr result,

xsltStylesheetPtr style,

int compression);

extern int xsltSaveResultToString(xmlChar \* \*doc\_txt\_ptr, int \*doc\_txt\_len,

xmlDocPtr result,

xsltStylesheetPtr style);

extern int xsltSetCtxtParseOptions(xsltTransformContextPtr ctxt,

int options);

extern void xsltSetCtxtSortFunc(xsltTransformContextPtr ctxt,

xsltSortFunc handler);

extern int xsltSetDebuggerCallbacks(int no, void \*block);

extern void xsltSetDebuggerStatus(int value);

extern void xsltSetGenericDebugFunc(void \*ctx,

xmlGenericErrorFunc handler);

extern void xsltSetGenericErrorFunc(void \*ctx,

xmlGenericErrorFunc handler);

extern void xsltSetSortFunc(xsltSortFunc handler);

extern void xsltSetTransformErrorFunc(xsltTransformContextPtr ctxt,

void \*ctx,

xmlGenericErrorFunc handler);

extern const unsigned char \*xsltSplitQName(xmlDictPtr dict,

const unsigned char \*name,

const unsigned char \*\*prefix);

extern long int xsltTimestamp(void);

extern void xsltTransformError(xsltTransformContextPtr ctxt,

xsltStylesheetPtr style, xmlNodePtr node,

const char \*msg, ...);

extern xmlXPathCompExprPtr xsltXPathCompile(xsltStylesheetPtr style,

const unsigned char \*str);

# **VI Package Format and Installation**

# **10 Software Installation**

## **10.1 Package Dependencies**

The LSB runtime environment shall provide the following dependencies.

lsb-languages

  This dependency is used to indicate that the application is dependent on features contained in the LSB Languages module specification.

These dependencies shall have a version of 5.0.

# **Annex A Alphabetical Listing of Interfaces by Library**

## **A.1 libxml2**

The behavior of the interfaces in this library is specified by the following Standards.

|  |
| --- |
| [Reference Manual for libxml2](#ID_STD_46_LIBXML2) [libXML2] |

**Table A-1 libxml2 Function Interfaces**

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| --- | --- | --- |
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| \_\_xmlPedanticParserDefaultValue[[libXML2]](#ID_STD_46_LIBXML2) | xmlListReverseWalk(LIBXML2\_2.4.30)[[libXML2]](#ID_STD_46_LIBXML2) | xmlStreamPush(LIBXML2\_2.6.18)[[libXML2]](#ID_STD_46_LIBXML2) |
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| inputPush(LIBXML2\_2.4.30)[[libXML2]](#ID_STD_46_LIBXML2) | xmlNewProp(LIBXML2\_2.4.30)[[libXML2]](#ID_STD_46_LIBXML2) | xmlTextReaderNamespaceUri(LIBXML2\_2.4.30)[[libXML2]](#ID_STD_46_LIBXML2) |
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| xmlCtxtResetPush(LIBXML2\_2.6.1)[[libXML2]](#ID_STD_46_LIBXML2) | xmlReadIO(LIBXML2\_2.6.0)[[libXML2]](#ID_STD_46_LIBXML2) | xmlValidateNotationDecl(LIBXML2\_2.4.30)[[libXML2]](#ID_STD_46_LIBXML2) |
| xmlCtxtUseOptions(LIBXML2\_2.6.0)[[libXML2]](#ID_STD_46_LIBXML2) | xmlReadMemory(LIBXML2\_2.6.0)[[libXML2]](#ID_STD_46_LIBXML2) | xmlValidateNotationUse(LIBXML2\_2.4.30)[[libXML2]](#ID_STD_46_LIBXML2) |
| xmlCurrentChar(LIBXML2\_2.4.30)[[libXML2]](#ID_STD_46_LIBXML2) | xmlReaderForDoc(LIBXML2\_2.6.0)[[libXML2]](#ID_STD_46_LIBXML2) | xmlValidateOneAttribute(LIBXML2\_2.4.30)[[libXML2]](#ID_STD_46_LIBXML2) |
| xmlDOMWrapFreeCtxt(LIBXML2\_2.6.20)[[libXML2]](#ID_STD_46_LIBXML2) | xmlReaderForFd(LIBXML2\_2.6.0)[[libXML2]](#ID_STD_46_LIBXML2) | xmlValidateOneElement(LIBXML2\_2.4.30)[[libXML2]](#ID_STD_46_LIBXML2) |
| xmlDOMWrapNewCtxt(LIBXML2\_2.6.20)[[libXML2]](#ID_STD_46_LIBXML2) | xmlReaderForFile(LIBXML2\_2.6.0)[[libXML2]](#ID_STD_46_LIBXML2) | xmlValidateOneNamespace(LIBXML2\_2.4.30)[[libXML2]](#ID_STD_46_LIBXML2) |
| xmlDebugCheckDocument(LIBXML2\_2.6.15)[[libXML2]](#ID_STD_46_LIBXML2) | xmlReaderForIO(LIBXML2\_2.6.0)[[libXML2]](#ID_STD_46_LIBXML2) | xmlValidatePopElement(LIBXML2\_2.5.0)[[libXML2]](#ID_STD_46_LIBXML2) |
| xmlDebugDumpAttr(LIBXML2\_2.4.30)[[libXML2]](#ID_STD_46_LIBXML2) | xmlReaderForMemory(LIBXML2\_2.6.0)[[libXML2]](#ID_STD_46_LIBXML2) | xmlValidatePushCData(LIBXML2\_2.5.0)[[libXML2]](#ID_STD_46_LIBXML2) |
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| xmlDebugDumpDocumentHead(LIBXML2\_2.4.30)[[libXML2]](#ID_STD_46_LIBXML2) | xmlReaderNewIO(LIBXML2\_2.6.0)[[libXML2]](#ID_STD_46_LIBXML2) | xmlXIncludeFreeContext(LIBXML2\_2.6.2)[[libXML2]](#ID_STD_46_LIBXML2) |
| xmlDebugDumpEntities(LIBXML2\_2.4.30)[[libXML2]](#ID_STD_46_LIBXML2) | xmlReaderNewMemory(LIBXML2\_2.6.0)[[libXML2]](#ID_STD_46_LIBXML2) | xmlXIncludeNewContext(LIBXML2\_2.6.2)[[libXML2]](#ID_STD_46_LIBXML2) |
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| xmlDebugDumpNodeList(LIBXML2\_2.4.30)[[libXML2]](#ID_STD_46_LIBXML2) | xmlReaderWalker(LIBXML2\_2.6.0)[[libXML2]](#ID_STD_46_LIBXML2) | xmlXIncludeProcessFlags(LIBXML2\_2.6.3)[[libXML2]](#ID_STD_46_LIBXML2) |
| xmlDebugDumpOneNode(LIBXML2\_2.4.30)[[libXML2]](#ID_STD_46_LIBXML2) | xmlReallocLoc(LIBXML2\_2.4.30)[[libXML2]](#ID_STD_46_LIBXML2) | xmlXIncludeProcessNode(LIBXML2\_2.6.2)[[libXML2]](#ID_STD_46_LIBXML2) |
| xmlDebugDumpString(LIBXML2\_2.4.30)[[libXML2]](#ID_STD_46_LIBXML2) | xmlReconciliateNs(LIBXML2\_2.4.30)[[libXML2]](#ID_STD_46_LIBXML2) | xmlXIncludeProcessTree(LIBXML2\_2.5.9)[[libXML2]](#ID_STD_46_LIBXML2) |
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| xmlHashQLookup3(LIBXML2\_2.6.0)[[libXML2]](#ID_STD_46_LIBXML2) | xmlSchemaValPredefTypeNode(LIBXML2\_2.5.8)[[libXML2]](#ID_STD_46_LIBXML2) | xmlXPathSubValues(LIBXML2\_2.4.30)[[libXML2]](#ID_STD_46_LIBXML2) |
| xmlHashRemoveEntry(LIBXML2\_2.4.30)[[libXML2]](#ID_STD_46_LIBXML2) | xmlSchemaValidCtxtGetOptions(LIBXML2\_2.6.14)[[libXML2]](#ID_STD_46_LIBXML2) | xmlXPathSubstringAfterFunction(LIBXML2\_2.4.30)[[libXML2]](#ID_STD_46_LIBXML2) |
| xmlHashRemoveEntry2(LIBXML2\_2.4.30)[[libXML2]](#ID_STD_46_LIBXML2) | xmlSchemaValidateDoc(LIBXML2\_2.5.8)[[libXML2]](#ID_STD_46_LIBXML2) | xmlXPathSubstringBeforeFunction(LIBXML2\_2.4.30)[[libXML2]](#ID_STD_46_LIBXML2) |
| xmlHashRemoveEntry3(LIBXML2\_2.4.30)[[libXML2]](#ID_STD_46_LIBXML2) | xmlSchemaValidateFile(LIBXML2\_2.6.20)[[libXML2]](#ID_STD_46_LIBXML2) | xmlXPathSubstringFunction(LIBXML2\_2.4.30)[[libXML2]](#ID_STD_46_LIBXML2) |
| xmlHashScan(LIBXML2\_2.4.30)[[libXML2]](#ID_STD_46_LIBXML2) | xmlSchemaValidateOneElement(LIBXML2\_2.6.14)[[libXML2]](#ID_STD_46_LIBXML2) | xmlXPathSumFunction(LIBXML2\_2.4.30)[[libXML2]](#ID_STD_46_LIBXML2) |
| xmlHashScan3(LIBXML2\_2.4.30)[[libXML2]](#ID_STD_46_LIBXML2) | xmlSchemaValidateStream(LIBXML2\_2.5.8)[[libXML2]](#ID_STD_46_LIBXML2) | xmlXPathTrailing(LIBXML2\_2.4.30)[[libXML2]](#ID_STD_46_LIBXML2) |
| xmlHashScanFull(LIBXML2\_2.4.30)[[libXML2]](#ID_STD_46_LIBXML2) | xmlSchematronFree(LIBXML2\_2.6.21)[[libXML2]](#ID_STD_46_LIBXML2) | xmlXPathTrailingSorted(LIBXML2\_2.4.30)[[libXML2]](#ID_STD_46_LIBXML2) |
| xmlHashScanFull3(LIBXML2\_2.4.30)[[libXML2]](#ID_STD_46_LIBXML2) | xmlSchematronFreeParserCtxt(LIBXML2\_2.6.21)[[libXML2]](#ID_STD_46_LIBXML2) | xmlXPathTranslateFunction(LIBXML2\_2.4.30)[[libXML2]](#ID_STD_46_LIBXML2) |
| xmlHashSize(LIBXML2\_2.4.30)[[libXML2]](#ID_STD_46_LIBXML2) | xmlSchematronFreeValidCtxt(LIBXML2\_2.6.21)[[libXML2]](#ID_STD_46_LIBXML2) | xmlXPathTrueFunction(LIBXML2\_2.4.30)[[libXML2]](#ID_STD_46_LIBXML2) |
| xmlHashUpdateEntry(LIBXML2\_2.4.30)[[libXML2]](#ID_STD_46_LIBXML2) | xmlSchematronNewDocParserCtxt(LIBXML2\_2.6.21)[[libXML2]](#ID_STD_46_LIBXML2) | xmlXPathValueFlipSign(LIBXML2\_2.4.30)[[libXML2]](#ID_STD_46_LIBXML2) |
| xmlHashUpdateEntry2(LIBXML2\_2.4.30)[[libXML2]](#ID_STD_46_LIBXML2) | xmlSchematronNewMemParserCtxt(LIBXML2\_2.6.21)[[libXML2]](#ID_STD_46_LIBXML2) | xmlXPathVariableLookup(LIBXML2\_2.4.30)[[libXML2]](#ID_STD_46_LIBXML2) |
| xmlHashUpdateEntry3(LIBXML2\_2.4.30)[[libXML2]](#ID_STD_46_LIBXML2) | xmlSchematronNewParserCtxt(LIBXML2\_2.6.21)[[libXML2]](#ID_STD_46_LIBXML2) | xmlXPathVariableLookupNS(LIBXML2\_2.4.30)[[libXML2]](#ID_STD_46_LIBXML2) |
| xmlIOFTPClose(LIBXML2\_2.4.30)[[libXML2]](#ID_STD_46_LIBXML2) | xmlSchematronNewValidCtxt(LIBXML2\_2.6.21)[[libXML2]](#ID_STD_46_LIBXML2) | xmlXPathWrapCString(LIBXML2\_2.4.30)[[libXML2]](#ID_STD_46_LIBXML2) |
| xmlIOFTPMatch(LIBXML2\_2.4.30)[[libXML2]](#ID_STD_46_LIBXML2) | xmlSchematronParse(LIBXML2\_2.6.21)[[libXML2]](#ID_STD_46_LIBXML2) | xmlXPathWrapExternal(LIBXML2\_2.4.30)[[libXML2]](#ID_STD_46_LIBXML2) |
| xmlIOFTPOpen(LIBXML2\_2.4.30)[[libXML2]](#ID_STD_46_LIBXML2) | xmlSchematronValidateDoc(LIBXML2\_2.6.21)[[libXML2]](#ID_STD_46_LIBXML2) | xmlXPathWrapNodeSet(LIBXML2\_2.4.30)[[libXML2]](#ID_STD_46_LIBXML2) |
| xmlIOFTPRead(LIBXML2\_2.4.30)[[libXML2]](#ID_STD_46_LIBXML2) | xmlSearchNs(LIBXML2\_2.4.30)[[libXML2]](#ID_STD_46_LIBXML2) | xmlXPathWrapString(LIBXML2\_2.4.30)[[libXML2]](#ID_STD_46_LIBXML2) |
| xmlIOHTTPClose(LIBXML2\_2.4.30)[[libXML2]](#ID_STD_46_LIBXML2) | xmlSearchNsByHref(LIBXML2\_2.4.30)[[libXML2]](#ID_STD_46_LIBXML2) | xmlXPatherror(LIBXML2\_2.4.30)[[libXML2]](#ID_STD_46_LIBXML2) |
| xmlIOHTTPMatch(LIBXML2\_2.4.30)[[libXML2]](#ID_STD_46_LIBXML2) | xmlSetBufferAllocationScheme(LIBXML2\_2.4.30)[[libXML2]](#ID_STD_46_LIBXML2) | xmlXPtrBuildNodeList(LIBXML2\_2.4.30)[[libXML2]](#ID_STD_46_LIBXML2) |
| xmlIOHTTPOpen(LIBXML2\_2.4.30)[[libXML2]](#ID_STD_46_LIBXML2) | xmlSetCompressMode(LIBXML2\_2.4.30)[[libXML2]](#ID_STD_46_LIBXML2) | xmlXPtrEval(LIBXML2\_2.4.30)[[libXML2]](#ID_STD_46_LIBXML2) |
| xmlIOHTTPOpenW(LIBXML2\_2.4.30)[[libXML2]](#ID_STD_46_LIBXML2) | xmlSetDocCompressMode(LIBXML2\_2.4.30)[[libXML2]](#ID_STD_46_LIBXML2) | xmlXPtrEvalRangePredicate(LIBXML2\_2.4.30)[[libXML2]](#ID_STD_46_LIBXML2) |
| xmlIOHTTPRead(LIBXML2\_2.4.30)[[libXML2]](#ID_STD_46_LIBXML2) | xmlSetEntityReferenceFunc(LIBXML2\_2.4.30)[[libXML2]](#ID_STD_46_LIBXML2) | xmlXPtrFreeLocationSet(LIBXML2\_2.4.30)[[libXML2]](#ID_STD_46_LIBXML2) |
| xmlIOParseDTD(LIBXML2\_2.4.30)[[libXML2]](#ID_STD_46_LIBXML2) | xmlSetExternalEntityLoader(LIBXML2\_2.4.30)[[libXML2]](#ID_STD_46_LIBXML2) | xmlXPtrLocationSetAdd(LIBXML2\_2.4.30)[[libXML2]](#ID_STD_46_LIBXML2) |
| xmlInitCharEncodingHandlers(LIBXML2\_2.4.30)[[libXML2]](#ID_STD_46_LIBXML2) | xmlSetGenericErrorFunc(LIBXML2\_2.4.30)[[libXML2]](#ID_STD_46_LIBXML2) | xmlXPtrLocationSetCreate(LIBXML2\_2.4.30)[[libXML2]](#ID_STD_46_LIBXML2) |
| xmlInitGlobals(LIBXML2\_2.5.8)[[libXML2]](#ID_STD_46_LIBXML2) | xmlSetListDoc(LIBXML2\_2.4.30)[[libXML2]](#ID_STD_46_LIBXML2) | xmlXPtrLocationSetDel(LIBXML2\_2.4.30)[[libXML2]](#ID_STD_46_LIBXML2) |
| xmlInitMemory(LIBXML2\_2.4.30)[[libXML2]](#ID_STD_46_LIBXML2) | xmlSetNs(LIBXML2\_2.4.30)[[libXML2]](#ID_STD_46_LIBXML2) | xmlXPtrLocationSetMerge(LIBXML2\_2.4.30)[[libXML2]](#ID_STD_46_LIBXML2) |
| xmlInitNodeInfoSeq(LIBXML2\_2.4.30)[[libXML2]](#ID_STD_46_LIBXML2) | xmlSetNsProp(LIBXML2\_2.4.30)[[libXML2]](#ID_STD_46_LIBXML2) | xmlXPtrLocationSetRemove(LIBXML2\_2.4.30)[[libXML2]](#ID_STD_46_LIBXML2) |
| xmlInitParser(LIBXML2\_2.4.30)[[libXML2]](#ID_STD_46_LIBXML2) | xmlSetProp(LIBXML2\_2.4.30)[[libXML2]](#ID_STD_46_LIBXML2) | xmlXPtrNewCollapsedRange(LIBXML2\_2.4.30)[[libXML2]](#ID_STD_46_LIBXML2) |
| xmlInitParserCtxt(LIBXML2\_2.4.30)[[libXML2]](#ID_STD_46_LIBXML2) | xmlSetStructuredErrorFunc(LIBXML2\_2.6.0)[[libXML2]](#ID_STD_46_LIBXML2) | xmlXPtrNewContext(LIBXML2\_2.4.30)[[libXML2]](#ID_STD_46_LIBXML2) |
| xmlInitThreads(LIBXML2\_2.4.30)[[libXML2]](#ID_STD_46_LIBXML2) | xmlSetTreeDoc(LIBXML2\_2.4.30)[[libXML2]](#ID_STD_46_LIBXML2) | xmlXPtrNewLocationSetNodeSet(LIBXML2\_2.4.30)[[libXML2]](#ID_STD_46_LIBXML2) |
| xmlInitializeCatalog(LIBXML2\_2.4.30)[[libXML2]](#ID_STD_46_LIBXML2) | xmlSetupParserForBuffer(LIBXML2\_2.4.30)[[libXML2]](#ID_STD_46_LIBXML2) | xmlXPtrNewLocationSetNodes(LIBXML2\_2.4.30)[[libXML2]](#ID_STD_46_LIBXML2) |
| xmlInitializeGlobalState(LIBXML2\_2.4.30)[[libXML2]](#ID_STD_46_LIBXML2) | xmlShell(LIBXML2\_2.4.30)[[libXML2]](#ID_STD_46_LIBXML2) | xmlXPtrNewRange(LIBXML2\_2.4.30)[[libXML2]](#ID_STD_46_LIBXML2) |
| xmlIsBlankNode(LIBXML2\_2.4.30)[[libXML2]](#ID_STD_46_LIBXML2) | xmlShellBase(LIBXML2\_2.4.30)[[libXML2]](#ID_STD_46_LIBXML2) | xmlXPtrNewRangeNodeObject(LIBXML2\_2.4.30)[[libXML2]](#ID_STD_46_LIBXML2) |
| xmlIsID(LIBXML2\_2.4.30)[[libXML2]](#ID_STD_46_LIBXML2) | xmlShellCat(LIBXML2\_2.4.30)[[libXML2]](#ID_STD_46_LIBXML2) | xmlXPtrNewRangeNodePoint(LIBXML2\_2.4.30)[[libXML2]](#ID_STD_46_LIBXML2) |
| xmlIsLetter(LIBXML2\_2.4.30)[[libXML2]](#ID_STD_46_LIBXML2) | xmlShellDir(LIBXML2\_2.4.30)[[libXML2]](#ID_STD_46_LIBXML2) | xmlXPtrNewRangeNodes(LIBXML2\_2.4.30)[[libXML2]](#ID_STD_46_LIBXML2) |
| xmlIsMainThread(LIBXML2\_2.4.30)[[libXML2]](#ID_STD_46_LIBXML2) | xmlShellDu(LIBXML2\_2.4.30)[[libXML2]](#ID_STD_46_LIBXML2) | xmlXPtrNewRangePointNode(LIBXML2\_2.4.30)[[libXML2]](#ID_STD_46_LIBXML2) |
| xmlIsMixedElement(LIBXML2\_2.4.30)[[libXML2]](#ID_STD_46_LIBXML2) | xmlShellList(LIBXML2\_2.4.30)[[libXML2]](#ID_STD_46_LIBXML2) | xmlXPtrNewRangePoints(LIBXML2\_2.4.30)[[libXML2]](#ID_STD_46_LIBXML2) |
| xmlIsRef(LIBXML2\_2.4.30)[[libXML2]](#ID_STD_46_LIBXML2) | xmlShellLoad(LIBXML2\_2.4.30)[[libXML2]](#ID_STD_46_LIBXML2) | xmlXPtrRangeToFunction(LIBXML2\_2.4.30)[[libXML2]](#ID_STD_46_LIBXML2) |
| xmlIsXHTML(LIBXML2\_2.4.30)[[libXML2]](#ID_STD_46_LIBXML2) | xmlShellPrintNode(LIBXML2\_2.4.30)[[libXML2]](#ID_STD_46_LIBXML2) | xmlXPtrWrapLocationSet(LIBXML2\_2.4.30)[[libXML2]](#ID_STD_46_LIBXML2) |

**Table A-2 libxml2 Data Interfaces**

|  |  |  |
| --- | --- | --- |
| emptyExp[[libXML2]](#ID_STD_46_LIBXML2) | xmlMemStrdup[[libXML2]](#ID_STD_46_LIBXML2) | xmlStringTextNoenc[[libXML2]](#ID_STD_46_LIBXML2) |
| forbiddenExp[[libXML2]](#ID_STD_46_LIBXML2) | xmlParserMaxDepth[[libXML2]](#ID_STD_46_LIBXML2) | xmlXPathNAN[[libXML2]](#ID_STD_46_LIBXML2) |
| xmlFree[[libXML2]](#ID_STD_46_LIBXML2) | xmlRealloc[[libXML2]](#ID_STD_46_LIBXML2) | xmlXPathNINF[[libXML2]](#ID_STD_46_LIBXML2) |
| xmlMalloc[[libXML2]](#ID_STD_46_LIBXML2) | xmlStringComment[[libXML2]](#ID_STD_46_LIBXML2) | xmlXPathPINF[[libXML2]](#ID_STD_46_LIBXML2) |
| xmlMallocAtomic[[libXML2]](#ID_STD_46_LIBXML2) | xmlStringText[[libXML2]](#ID_STD_46_LIBXML2) |  |

## **A.2 libxslt**

The behavior of the interfaces in this library is specified by the following Standards.

|  |
| --- |
| [Reference Manual for libxslt](#ID_STD_46_LIBXSLT) [libxslt] |

**Table A-3 libxslt Function Interfaces**

|  |  |  |
| --- | --- | --- |
| xslAddCall(LIBXML2\_1.0.11)[[libxslt]](#ID_STD_46_LIBXSLT) | xsltFreeCtxtExts(LIBXML2\_1.0.11)[[libxslt]](#ID_STD_46_LIBXSLT) | xsltParseStylesheetProcess(LIBXML2\_1.0.11)[[libxslt]](#ID_STD_46_LIBXSLT) |
| xslDropCall(LIBXML2\_1.0.11)[[libxslt]](#ID_STD_46_LIBXSLT) | xsltFreeDocumentKeys(LIBXML2\_1.0.11)[[libxslt]](#ID_STD_46_LIBXSLT) | xsltParseStylesheetVariable(LIBXML2\_1.0.11)[[libxslt]](#ID_STD_46_LIBXSLT) |
| xsltAddKey(LIBXML2\_1.0.11)[[libxslt]](#ID_STD_46_LIBXSLT) | xsltFreeDocuments(LIBXML2\_1.0.11)[[libxslt]](#ID_STD_46_LIBXSLT) | xsltParseTemplateContent(LIBXML2\_1.0.11)[[libxslt]](#ID_STD_46_LIBXSLT) |
| xsltAddStackElemList(LIBXML2\_1.0.11)[[libxslt]](#ID_STD_46_LIBXSLT) | xsltFreeExts(LIBXML2\_1.0.11)[[libxslt]](#ID_STD_46_LIBXSLT) | xsltPreComputeExtModuleElement(LIBXML2\_1.0.11)[[libxslt]](#ID_STD_46_LIBXSLT) |
| xsltAddTemplate(LIBXML2\_1.0.11)[[libxslt]](#ID_STD_46_LIBXSLT) | xsltFreeGlobalVariables(LIBXML2\_1.0.11)[[libxslt]](#ID_STD_46_LIBXSLT) | xsltPrintErrorContext(LIBXML2\_1.0.11)[[libxslt]](#ID_STD_46_LIBXSLT) |
| xsltAllocateExtra(LIBXML2\_1.0.12)[[libxslt]](#ID_STD_46_LIBXSLT) | xsltFreeKeys(LIBXML2\_1.0.11)[[libxslt]](#ID_STD_46_LIBXSLT) | xsltProcessOneNode(LIBXML2\_1.1.26)[[libxslt]](#ID_STD_46_LIBXSLT) |
| xsltAllocateExtraCtxt(LIBXML2\_1.0.12)[[libxslt]](#ID_STD_46_LIBXSLT) | xsltFreeLocale(LIBXML2\_1.1.25)[[libxslt]](#ID_STD_46_LIBXSLT) | xsltProcessingInstruction(LIBXML2\_1.0.11)[[libxslt]](#ID_STD_46_LIBXSLT) |
| xsltApplyAttributeSet(LIBXML2\_1.0.11)[[libxslt]](#ID_STD_46_LIBXSLT) | xsltFreeNamespaceAliasHashes(LIBXML2\_1.0.11)[[libxslt]](#ID_STD_46_LIBXSLT) | xsltProfileStylesheet(LIBXML2\_1.0.11)[[libxslt]](#ID_STD_46_LIBXSLT) |
| xsltApplyImports(LIBXML2\_1.0.11)[[libxslt]](#ID_STD_46_LIBXSLT) | xsltFreeRVTs(LIBXML2\_1.0.30)[[libxslt]](#ID_STD_46_LIBXSLT) | xsltQuoteOneUserParam(LIBXML2\_1.0.11)[[libxslt]](#ID_STD_46_LIBXSLT) |
| xsltApplyOneTemplate(LIBXML2\_1.0.11)[[libxslt]](#ID_STD_46_LIBXSLT) | xsltFreeSecurityPrefs(LIBXML2\_1.0.22)[[libxslt]](#ID_STD_46_LIBXSLT) | xsltQuoteUserParams(LIBXML2\_1.0.11)[[libxslt]](#ID_STD_46_LIBXSLT) |
| xsltApplyStripSpaces(LIBXML2\_1.0.11)[[libxslt]](#ID_STD_46_LIBXSLT) | xsltFreeStackElemList(LIBXML2\_1.0.11)[[libxslt]](#ID_STD_46_LIBXSLT) | xsltRegisterAllElement(LIBXML2\_1.0.11)[[libxslt]](#ID_STD_46_LIBXSLT) |
| xsltApplyStylesheet(LIBXML2\_1.0.11)[[libxslt]](#ID_STD_46_LIBXSLT) | xsltFreeStyleDocuments(LIBXML2\_1.0.11)[[libxslt]](#ID_STD_46_LIBXSLT) | xsltRegisterAllExtras(LIBXML2\_1.0.11)[[libxslt]](#ID_STD_46_LIBXSLT) |
| xsltApplyStylesheetUser(LIBXML2\_1.0.11)[[libxslt]](#ID_STD_46_LIBXSLT) | xsltFreeStylePreComps(LIBXML2\_1.0.11)[[libxslt]](#ID_STD_46_LIBXSLT) | xsltRegisterAllFunctions(LIBXML2\_1.0.11)[[libxslt]](#ID_STD_46_LIBXSLT) |
| xsltApplyTemplates(LIBXML2\_1.0.11)[[libxslt]](#ID_STD_46_LIBXSLT) | xsltFreeStylesheet(LIBXML2\_1.0.11)[[libxslt]](#ID_STD_46_LIBXSLT) | xsltRegisterExtElement(LIBXML2\_1.0.11)[[libxslt]](#ID_STD_46_LIBXSLT) |
| xsltAttrListTemplateProcess(LIBXML2\_1.0.11)[[libxslt]](#ID_STD_46_LIBXSLT) | xsltFreeTemplateHashes(LIBXML2\_1.0.11)[[libxslt]](#ID_STD_46_LIBXSLT) | xsltRegisterExtFunction(LIBXML2\_1.0.11)[[libxslt]](#ID_STD_46_LIBXSLT) |
| xsltAttrTemplateProcess(LIBXML2\_1.0.11)[[libxslt]](#ID_STD_46_LIBXSLT) | xsltFreeTransformContext(LIBXML2\_1.0.11)[[libxslt]](#ID_STD_46_LIBXSLT) | xsltRegisterExtModule(LIBXML2\_1.0.11)[[libxslt]](#ID_STD_46_LIBXSLT) |
| xsltAttrTemplateValueProcess(LIBXML2\_1.0.11)[[libxslt]](#ID_STD_46_LIBXSLT) | xsltFunctionAvailableFunction(LIBXML2\_1.0.11)[[libxslt]](#ID_STD_46_LIBXSLT) | xsltRegisterExtModuleElement(LIBXML2\_1.0.11)[[libxslt]](#ID_STD_46_LIBXSLT) |
| xsltAttrTemplateValueProcessNode(LIBXML2\_1.0.22)[[libxslt]](#ID_STD_46_LIBXSLT) | xsltFunctionNodeSet(LIBXML2\_1.0.11)[[libxslt]](#ID_STD_46_LIBXSLT) | xsltRegisterExtModuleFull(LIBXML2\_1.0.11)[[libxslt]](#ID_STD_46_LIBXSLT) |
| xsltAttribute(LIBXML2\_1.0.11)[[libxslt]](#ID_STD_46_LIBXSLT) | xsltGenerateIdFunction(LIBXML2\_1.0.11)[[libxslt]](#ID_STD_46_LIBXSLT) | xsltRegisterExtModuleFunction(LIBXML2\_1.0.11)[[libxslt]](#ID_STD_46_LIBXSLT) |
| xsltCalibrateAdjust(LIBXML2\_1.0.11)[[libxslt]](#ID_STD_46_LIBXSLT) | xsltGetCNsProp(LIBXML2\_1.1.3)[[libxslt]](#ID_STD_46_LIBXSLT) | xsltRegisterExtModuleTopLevel(LIBXML2\_1.0.11)[[libxslt]](#ID_STD_46_LIBXSLT) |
| xsltCallTemplate(LIBXML2\_1.0.11)[[libxslt]](#ID_STD_46_LIBXSLT) | xsltGetDebuggerStatus(LIBXML2\_1.1.0)[[libxslt]](#ID_STD_46_LIBXSLT) | xsltRegisterExtPrefix(LIBXML2\_1.0.11)[[libxslt]](#ID_STD_46_LIBXSLT) |
| xsltCheckExtPrefix(LIBXML2\_1.0.11)[[libxslt]](#ID_STD_46_LIBXSLT) | xsltGetDefaultSecurityPrefs(LIBXML2\_1.0.22)[[libxslt]](#ID_STD_46_LIBXSLT) | xsltRegisterExtras(LIBXML2\_1.0.11)[[libxslt]](#ID_STD_46_LIBXSLT) |
| xsltCheckExtURI(LIBXML2\_1.1.24)[[libxslt]](#ID_STD_46_LIBXSLT) | xsltGetExtData(LIBXML2\_1.0.11)[[libxslt]](#ID_STD_46_LIBXSLT) | xsltRegisterLocalRVT(LIBXML2\_1.1.18)[[libxslt]](#ID_STD_46_LIBXSLT) |
| xsltCheckRead(LIBXML2\_1.0.22)[[libxslt]](#ID_STD_46_LIBXSLT) | xsltGetExtInfo(LIBXML2\_1.0.32)[[libxslt]](#ID_STD_46_LIBXSLT) | xsltRegisterPersistRVT(LIBXML2\_1.0.30)[[libxslt]](#ID_STD_46_LIBXSLT) |
| xsltCheckWrite(LIBXML2\_1.0.22)[[libxslt]](#ID_STD_46_LIBXSLT) | xsltGetKey(LIBXML2\_1.0.11)[[libxslt]](#ID_STD_46_LIBXSLT) | xsltRegisterTestModule(LIBXML2\_1.0.11)[[libxslt]](#ID_STD_46_LIBXSLT) |
| xsltChoose(LIBXML2\_1.0.11)[[libxslt]](#ID_STD_46_LIBXSLT) | xsltGetNamespace(LIBXML2\_1.0.11)[[libxslt]](#ID_STD_46_LIBXSLT) | xsltRegisterTmpRVT(LIBXML2\_1.0.30)[[libxslt]](#ID_STD_46_LIBXSLT) |
| xsltCleanupGlobals(LIBXML2\_1.0.11)[[libxslt]](#ID_STD_46_LIBXSLT) | xsltGetNsProp(LIBXML2\_1.0.11)[[libxslt]](#ID_STD_46_LIBXSLT) | xsltReleaseRVT(LIBXML2\_1.1.18)[[libxslt]](#ID_STD_46_LIBXSLT) |
| xsltCleanupTemplates(LIBXML2\_1.0.11)[[libxslt]](#ID_STD_46_LIBXSLT) | xsltGetPlainNamespace(LIBXML2\_1.1.7)[[libxslt]](#ID_STD_46_LIBXSLT) | xsltResolveStylesheetAttributeSet(LIBXML2\_1.0.16)[[libxslt]](#ID_STD_46_LIBXSLT) |
| xsltComment(LIBXML2\_1.0.11)[[libxslt]](#ID_STD_46_LIBXSLT) | xsltGetProfileInformation(LIBXML2\_1.0.24)[[libxslt]](#ID_STD_46_LIBXSLT) | xsltRunStylesheet(LIBXML2\_1.0.11)[[libxslt]](#ID_STD_46_LIBXSLT) |
| xsltCompileAttr(LIBXML2\_1.1.3)[[libxslt]](#ID_STD_46_LIBXSLT) | xsltGetQNameURI(LIBXML2\_1.0.11)[[libxslt]](#ID_STD_46_LIBXSLT) | xsltRunStylesheetUser(LIBXML2\_1.0.17)[[libxslt]](#ID_STD_46_LIBXSLT) |
| xsltCompilePattern(LIBXML2\_1.0.11)[[libxslt]](#ID_STD_46_LIBXSLT) | xsltGetQNameURI2(LIBXML2\_1.1.5)[[libxslt]](#ID_STD_46_LIBXSLT) | xsltSaveProfiling(LIBXML2\_1.0.11)[[libxslt]](#ID_STD_46_LIBXSLT) |
| xsltComputeSortResult(LIBXML2\_1.0.24)[[libxslt]](#ID_STD_46_LIBXSLT) | xsltGetSecurityPrefs(LIBXML2\_1.0.22)[[libxslt]](#ID_STD_46_LIBXSLT) | xsltSaveResultTo(LIBXML2\_1.0.11)[[libxslt]](#ID_STD_46_LIBXSLT) |
| xsltCopy(LIBXML2\_1.0.11)[[libxslt]](#ID_STD_46_LIBXSLT) | xsltGetSpecialNamespace(LIBXML2\_1.0.11)[[libxslt]](#ID_STD_46_LIBXSLT) | xsltSaveResultToFd(LIBXML2\_1.0.11)[[libxslt]](#ID_STD_46_LIBXSLT) |
| xsltCopyNamespace(LIBXML2\_1.0.11)[[libxslt]](#ID_STD_46_LIBXSLT) | xsltGetTemplate(LIBXML2\_1.0.11)[[libxslt]](#ID_STD_46_LIBXSLT) | xsltSaveResultToFile(LIBXML2\_1.0.11)[[libxslt]](#ID_STD_46_LIBXSLT) |
| xsltCopyNamespaceList(LIBXML2\_1.0.11)[[libxslt]](#ID_STD_46_LIBXSLT) | xsltGetUTF8Char(LIBXML2\_1.0.24)[[libxslt]](#ID_STD_46_LIBXSLT) | xsltSaveResultToFilename(LIBXML2\_1.0.11)[[libxslt]](#ID_STD_46_LIBXSLT) |
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