

# NAME

ExtUtils::ParseXS - converts Perl XS code into C code

## **SYNOPSIS**

# DESCRIPTION

ExtUtils::ParseXS will compile XS code into C code by embedding the constructs necessary to let C functions manipulate Perl values and creates the glue necessary to let Perl access those functions. The compiler uses typemaps to determine how to map C function parameters and variables to Perl values.

The compiler will search for typemap files called *typemap*. It will use the following search path to find default typemaps, with the rightmost typemap taking precedence.

../../typemap:../typemap:../typemap:typemap

## **EXPORT**

None by default. process\_file() may be exported upon request.

## **FUNCTIONS**

process\_file()

This function processes an XS file and sends output to a C file. Named parameters control how the processing is done. The following parameters are accepted:

### C++

Adds extern "C" to the C code. Default is false.

### hiertype

Retains :: in type names so that C++ hierarchical types can be mapped. Default is false.

### except

Adds exception handling stubs to the C code. Default is false.

### typemap

Indicates that a user-supplied typemap should take precedence over the default typemaps. A single typemap may be specified as a string, or multiple typemaps can be specified in an array reference, with the last typemap having the highest precedence.



### prototypes

Generates prototype code for all xsubs. Default is false.

#### versioncheck

Makes sure at run time that the object file (derived from the .xs file) and the .pm files have the same version number. Default is true.

#### linenumbers

Adds #line directives to the C output so error messages will look like they came from the original XS file. Default is true.

#### optimize

Enables certain optimizations. The only optimization that is currently affected is the use of *targets* by the output C code (see *perlguts*). Not optimizing may significantly slow down the generated code, but this is the way **xsubpp** of 5.005 and earlier operated. Default is to optimize.

#### inout

Enable recognition of IN, OUT\_LIST and INOUT\_LIST declarations. Default is true.

### argtypes

Enable recognition of ANSI-like descriptions of function signature. Default is true.

S

Maintainer note: I have no clue what this does. Strips function prefixes?

### errors()

This function returns the number of [a certain kind of] errors encountered during processing of the XS file.

## AUTHOR

Based on xsubpp code, written by Larry Wall.

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## COPYRIGHT

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Based on the ExtUtils::xsubpp code by Larry Wall and the Perl 5 Porters, which was released under the same license terms.

# SEE ALSO

perl, ExtUtils::xsubpp, ExtUtils::MakeMaker, perlxs, perlxstut.