NAME

xsubpp - compiler to convert Perl XS code into C code

SYNOPSIS

xsubpp [**-v**] [**-C++**] [**-csuffix csuffix**] [**-except**] [**-s pattern**] [**-prototypes**] [**-noversioncheck**] [**-nolinenumbers**] [**-nooptimize**] [**-typemap typemap**] ... file.xs

DESCRIPTION

This compiler is typically run by the makefiles created by *ExtUtils::MakeMaker*.

xsubpp 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
```

OPTIONS

Note that the XSOPT MakeMaker option may be used to add these options to any makefiles generated by MakeMaker.

-C++

Adds ``extern "C"'' to the C code.

-csuffix csuffix

Set the suffix used for the generated C or C++ code. Defaults to '.c' (even with **-C++**), but some platforms might want to have e.g. '.cpp'. Don't forget the '.' from the front.

-hiertype

Retains '::' in type names so that C++ hierachical types can be mapped.

-except

Adds exception handling stubs to the C code.

-typemap typemap

Indicates that a user-supplied typemap should take precedence over the default typemaps. This option may be used multiple times, with the last typemap having the highest precedence.

-v

Prints the *xsubpp* version number to standard output, then exits.

-prototypes

By default *xsubpp* will not automatically generate prototype code for all xsubs. This flag will enable prototypes.

-noversioncheck

Disables the run time test that determines if the object file (derived from the `.xs` file) and the `.pm` files have the same version number.

-nolinenumbers

Prevents the inclusion of `#line' directives in the output.

-nooptimize

Disables certain optimizations. The only optimization that is currently affected is the use of *target*s by the output C code (see *perlguts*). This may significantly slow down the generated code, but this is the way **xsubpp** of 5.005 and earlier operated.

-noinout

Disable recognition of `IN`, `OUT_LIST` and `INOUT_LIST` declarations.

-noargtypes

Disable recognition of ANSI-like descriptions of function signature.

ENVIRONMENT

No environment variables are used.

AUTHOR

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MODIFICATION HISTORY

See the file *changes.pod*.

SEE ALSO

perl(1), perlxs(1), perlxstut(1)