NAME

xsubpp - compiler to convert Perl XS code into C code

SYNOPSIS

xsubpp [**-v**] [**-except**] [**-s pattern**] [**-prototypes**] [**-noversioncheck**] [**-nolinenumbers**] [**-nooptimize**] [**-typemap typemap**] [**-output filename**]... file.xs

DESCRIPTION

This compiler is typically run by the makefiles created by *ExtUtils::MakeMaker* or by *Module::Build* or other Perl module build tools.

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
```

It will also use a default typemap installed as `ExtUtils::typemap`.

OPTIONS

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

-hiertype

Retains '::' in type names so that C++ hierarchical 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.

-output filename

Specifies the name of the output file to generate. If no file is specified, output will be written to standard output.

-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.

-C++

Currently doesn't do anything at all. This flag has been a no-op for many versions of perl, at least as far back as perl5.003_07. It's allowed here for backwards compatibility.

ENVIRONMENT

No environment variables are used.

AUTHOR

Originally by Larry Wall. Turned into the `ExtUtils::ParseXS` module by Ken Williams.

MODIFICATION HISTORY

See the file *Changes*.

SEE ALSO

perl(1), perlxs(1), perlxstut(1), ExtUtils::ParseXS