

**NAME**

`h2ph` – convert `.h` C header files to `.ph` Perl header files

**SYNOPSIS**

`h2ph [-d destination directory] [-r | -a] [-l] [-h] [-e] [-D] [-Q] [headerfiles]`

**DESCRIPTION**

`h2ph` converts any C header files specified to the corresponding Perl header file format. It is most easily run while in `/usr/include`:

```
cd /usr/include; h2ph * sys/*
```

or

```
cd /usr/include; h2ph * sys/* arpa/* netinet/*
```

or

```
cd /usr/include; h2ph -r -l .
```

The output files are placed in the hierarchy rooted at Perl's architecture dependent library directory. You can specify a different hierarchy with a `-d` switch.

If run with no arguments, filters standard input to standard output.

**OPTIONS**

`-d destination_dir`

Put the resulting **.ph** files beneath **destination\_dir**, instead of beneath the default Perl library location (`$Config{'installsitearch'}`).

`-r` Run recursively; if any of **headerfiles** are directories, then run `h2ph` on all files in those directories (and their subdirectories, etc.). `-r` and `-a` are mutually exclusive.

`-a` Run automagically; convert **headerfiles**, as well as any **.h** files which they include. This option will search for **.h** files in all directories which your C compiler ordinarily uses. `-a` and `-r` are mutually exclusive.

`-l` Symbolic links will be replicated in the destination directory. If `-l` is not specified, then links are skipped over.

`-h` Put 'hints' in the **.ph** files which will help in locating problems with `h2ph`. In those cases when you **require** a **.ph** file containing syntax errors, instead of the cryptic

```
[ some error condition ] at (eval mmm) line nnn
```

you will see the slightly more helpful

```
[ some error condition ] at filename.ph line nnn
```

However, the **.ph** files almost double in size when built using `-h`.

`-e` If an error is encountered during conversion, output file will be removed and a warning emitted instead of terminating the conversion immediately.

`-D` Include the code from the **.h** file as a comment in the **.ph** file. This is primarily used for debugging `h2ph`.

`-Q` 'Quiet' mode; don't print out the names of the files being converted.

**ENVIRONMENT**

No environment variables are used.

**FILES**

```
/usr/include/*.h
```

```
/usr/include/sys/*.h
```

etc.

**AUTHOR**

Larry Wall

**SEE ALSO**

**perl**(1)

**DIAGNOSTICS**

The usual warnings if it can't read or write the files involved.

**BUGS**

Doesn't construct the `%sizeof` array for you.

It doesn't handle all C constructs, but it does attempt to isolate definitions inside evals so that you can get at the definitions that it can translate.

It's only intended as a rough tool. You may need to dicker with the files produced.

You have to run this program by hand; it's not run as part of the Perl installation.

Doesn't handle complicated expressions built piecemeal, a la:

```
enum {  
    FIRST_VALUE,  
    SECOND_VALUE,  
#ifdef ABC  
    THIRD_VALUE  
#endif  
};
```

Doesn't necessarily locate all of your C compiler's internally-defined symbols.