

## NAME

README.beos - Perl version 5.8+ on BeOS

## DESCRIPTION

This file contains instructions how to build Perl under BeOS and lists known problems.

## BUILD AND INSTALL

### Requirements

I have built and tested Perl 5.8.6 and 5.9.1 under BeOS R5 x86 net server. I can't say anything with regard to PPC. Since Perl 5.8.0 had been released for BeOS BONE, I suspect, there is a good chance, that it still compiles on a BONE system. The only change I've made, that affects BONE systems is the recognition of whether it is a BONE system or not in `hints/beos.sh`. Now network socket support should remain enabled on BONE systems. This might as well break the build, though.

As more recent versions of `autoconf` require `flock()` support, I wrote a `flock()` emulation (`flock_server`) and released it on BeBits:

<http://www.bebits.com/app/4030>

If you want to build a Perl with `flock()` support, you have to install this package first.

### Configure

With `flock()` support:

```
CFLAGS=-I/path/to/flock/server/headers ./configure.gnu \  
--prefix=/boot/home/config
```

Replace `/path/to/flock/server/headers` with the path to the directory containing the `flock.h` header.

Without `flock()` support:

```
./configure.gnu --prefix=/boot/home/config
```

### Build

With `flock()` support:

```
make LDLOADLIBS="-lnet -lflock"
```

Without `flock()` support:

```
make LDLOADLIBS="-lnet"
```

`-lnet` is needed on net server systems only and if the compiler doesn't add it automatically (Be's R5 gcc does, Oliver Tappe's gcc 2.95.3 does not).

### Install

Install all perl files:

```
make install
```

Create a symlink for `libperl`:

```
cd ~/config/lib; ln -s perl5/5.8.6/BePC-beos/CORE/libperl.so .
```

Replace 5.8.6 with your respective version of Perl.

## KNOWN PROBLEMS

- Network socket support is disabled for BeOS R5 net server. I didn't dare yet to try enabling it and see what problems occur.
- The LFS (large file support) tests (`t/op/lfs` and `xt/Fcntl/t/syslfs`) are disabled as seeking beyond 2 GB is broken according to `jhi@iki.fi` who was the last one checking the BeOS port and updating this file before me. Haven't checked this myself.
- The `t/io/fflush` test fails at #6. As far as I can tell, this is caused by a bug in the BeOS pipes implementation that occurs when starting other child processes. In the particular test case a `system("perl -e 0")` flushes the stdout pipe of another child process.
- The `ext/POSIX/t/waitpid` test fails at #1. After all child processes are gone BeOS' `waitpid(-1,...)` returns 0 instead of -1 (as it should). No idea how to fix this.

## CONTACT

For BeOS specifics problems feel free to mail to: Ingo Weinhold <[bonefish@cs.tu-berlin.de](mailto:bonefish@cs.tu-berlin.de)>

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