

NAME

perlamiga - Perl under Amiga OS

NOTE

Perl 5.8.0 cannot be built in AmigaOS. You can use either the maintenance release Perl 5.6.1 or the development release Perl 5.7.2 in AmigaOS. See *PERL 5.8.0 BROKEN IN AMIGAOS* if you want to help fixing this problem.

SYNOPSIS

One can read this document in the following formats:

```
man perlamiga
multiview perlamiga.guide
```

to list some (not all may be available simultaneously), or it may be read as *is*: either as *README.amiga*, or *pod/perlamiga.pod*.

A recent version of perl for the Amiga can be found at the Geek Gadgets section of the Aminet:

```
http://www.aminet.net/~aminet/dev/gg
```

DESCRIPTION

Prerequisites for Compiling Perl on AmigaOS

Unix emulation for AmigaOS: **ixemul.library**

You need the Unix emulation for AmigaOS, whose most important part is **ixemul.library**. For a minimum setup, get the latest versions of the following packages from the Aminet archives (<http://www.aminet.net/~aminet/>):

```
ixemul-bin
ixemul-env-bin
pdksh-bin
```

Note also that this is a minimum setup; you might want to add other packages of **ADE** (the *Amiga Developers Environment*).

Version of Amiga OS

You need at the very least AmigaOS version 2.0. Recommended is version 3.1.

Starting Perl programs under AmigaOS

Start your Perl program *foo* with arguments *arg1 arg2 arg3* the same way as on any other platform, by

```
perl foo arg1 arg2 arg3
```

If you want to specify perl options *-my_opts* to the perl itself (as opposed to your program), use

```
perl -my_opts foo arg1 arg2 arg3
```

Alternately, you can try to get a replacement for the system's **Execute** command that honors the `#!/usr/bin/perl` syntax in scripts and set the s-Bit of your scripts. Then you can invoke your scripts like under UNIX with

```
foo arg1 arg2 arg3
```

(Note that having *nixish full path to perl `/usr/bin/perl` is not necessary, *perl* would be enough, but having full path would make it easier to use your script under *nix.)

Shortcomings of Perl under AmigaOS

Perl under AmigaOS lacks some features of perl under UNIX because of deficiencies in the UNIX-emulation, most notably:

- `fork()`
- some features of the UNIX filesystem regarding link count and file dates
- inplace operation (the `-i` switch) without backup file
- `umask()` works, but the correct permissions are only set when the file is finally `close()`d

INSTALLATION

Change to the installation directory (most probably ADE:), and extract the binary distribution:

```
lha -mraxe x perl-$VERSION-bin.lha
```

or

```
tar xvzpf perl-$VERSION-bin.tgz
```

(Of course you need `lha` or `tar` and `gunzip` for this.)

For installation of the Unix emulation, read the appropriate docs.

Accessing documentation

Manpages for Perl on AmigaOS

If you have `man` installed on your system, and you installed perl manpages, use something like this:

```
man perlfunc
man less
man ExtUtils.MakeMaker
```

to access documentation for different components of Perl. Start with

```
man perl
```

Note: You have to modify your `man.conf` file to search for manpages in the `/ade/lib/perl5/man/man3` directory, or the man pages for the perl library will not be found.

Note that dot (`.`) is used as a package separator for documentation for packages, and as usual, sometimes you need to give the section - 3 above - to avoid shadowing by the *less(1) manpage*.

Perl HTML Documentation on AmigaOS

If you have some WWW browser available, you can build **HTML** docs. Cd to directory with `.pod` files, and do like this

```
cd /ade/lib/perl5/pod
pod2html
```

After this you can direct your browser the file `perl.html` in this directory, and go ahead with reading docs.

Alternatively you may be able to get these docs prebuilt from CPAN.

Perl GNU Info Files on AmigaOS

Users of Emacs would appreciate it very much, especially with `CPerl` mode loaded. You need to get latest `pod2info` from CPAN, or, alternately, prebuilt info pages.

Perl LaTeX Documentation on AmigaOS

Can be constructed using `pod2latex`.

BUILDING PERL ON AMIGAOS

Here we discuss how to build Perl under AmigaOS.

Build Prerequisites for Perl on AmigaOS

You need to have the latest `ixemul` (Unix emulation for Amiga) from Aminet.

Getting the Perl Source for AmigaOS

You can either get the latest `perl-for-amiga` source from Ninemoons and extract it with:

```
tar xvzpf perl-$VERSION-src.tgz
```

or get the official source from CPAN:

```
http://www.cpan.org/src/5.0
```

Extract it like this

```
tar xvzpf perl-$VERSION.tar.gz
```

You will see a message about errors while extracting *Configure*. This is normal and expected. (There is a conflict with a similarly-named file *configure*, but it causes no harm.)

Making Perl on AmigaOS

Remember to use a hefty wad of stack (I use 2000000)

```
sh configure.gnu --prefix=/gg
```

Now type

```
make depend
```

Now!

```
make
```

Testing Perl on AmigaOS

Now run

```
make test
```

Some tests will be skipped because they need the `fork()` function:

```
io/pipe.t, op/fork.t, lib/filehand.t, lib/open2.t, lib/open3.t, lib/io_pipe.t, lib/io_sock.t
```

Installing the built Perl on AmigaOS

Run

```
make install
```

PERL 5.8.0 BROKEN IN AMIGAOS

As told above, Perl 5.6.1 was still good in AmigaOS, as was 5.7.2. After Perl 5.7.2 (change #11423, see the Changes file, and the file `pod/perlhack.pod` for how to get the individual changes) Perl

dropped its internal support for `vfork()`, and that was very probably the step that broke AmigaOS (since the `ixemul` library has only `vfork`). The build finally fails when the `ext/DynaLoader` is being built, and PERL ends up as `"0"` in the produced Makefile, trying to run `"0"` does not quite work. Also, executing `miniperl` in backticks seems to generate nothing: very probably related to the `(v)fork` problems. **Fixing the breakage requires someone quite familiar with the `ixemul` library, and how one is supposed to run external commands in AmigaOS without `fork()`.**

AUTHORS

Norbert Pueschel, pueschel@imsdd.meb.uni-bonn.de Jan-Erik Karlsson, trg@privat.utfors.se

SEE ALSO

`perl(1)`.