NAME

README.epoc - Perl for EPOC

SYNOPSIS

Perl 5 README file for the EPOC Release 5 operating system.

INTRODUCTION

EPOC is an OS for palmtops and mobile phones. For more informations look at:
http://www.symbian.com/

This is a port of perl to the epocemx SDK by Eberhard Mattes, which itself uses the SDK by symbian.
Essentially epocemx it is a POSIX look alike environment for the EPOC OS. For more information
look at: http://epocemx.sourceforge.net/

perl and epocemx runs on Epoc Release 5 machines: Psion 5mx, 5mx Pro, Psion Revo, Psion
Netbook and on the Ericsson M128. It may run on Epoc Release 3 Hardware (Series 5 classic), too.
For more information about this hardware please refer to http://www.psion.com/

Vendors which like to have support for their devices are free to send me a sample.

INSTALLING PERL ON EPOC

You can download a ready-to-install version from http://www.oflebbe.de/perl/perl5.html

You will need at least ~6MB free space in order to install and run perl.

Please install the emxusr.sis package from http://epocemx.sourceforge.net/ first.

Install perl.sis on the EPOC machine. If you do not know how to do that, consult your PsiWin
documentation.

Perl itself and its standard library is using 4 MB disk space. Unicode support and some other modules
are left out. (For details, please look into epoc/createpkg.pl). If you like to use these modules, you are
free to copy them from a current perl release.

STARTING PERL ON EPOC

Please use the epocemx shell to start perl. perl integrates with the conventions of epocemx.

Features of Perl on Epoc

The built-in function EPOC::getcwd returns the current directory.

Restrictions of Perl on Epoc

Features are left out, because of restrictions of the POSIX support in EPOC:

- socket IO is only implemented poorly. You can only use sysread and syswrite on them. The
  commands read, write, print, <> do not work for sockets. This may change iff epocemx
  supports sockets.

- kill, alarm and signals. Do not try to use them. This may be impossible to implement on EPOC.

- select is missing.

- binmode does not exist. (No CR LF to LF translation for text files)

- EPOC does not handle the notion of current drive and current directory very well (i.e. not at all,
  but it tries hard to emulate one). See PATH.

- Heap is limited to 4MB.

- Dynamic loading is not implemented.

Compiling Perl 5 on the EPOC cross compiling environment

Sorry, this is far too short.

- You will need the epocemx SDK from Eberhard Mattes.

- Get the Perl sources from your nearest CPAN site.

- Unpack the sources.

- Build a native perl from this sources... Make sure to save the miniperl executable as miniperl.native.

  Start again from scratch

  ```
  cp epoc/* .
  ./Configure -S
  make
  cp miniperl.native miniperl
  touch miniperl.exe
  make
  perl createpkg.pl

  emxsis perl.pkg perl.sis
  ```

SUPPORT STATUS OF PERL ON EPOC

I'm offering this port "as is". You can ask me questions, but I can't guarantee I'll be able to answer them. Since the port to epocemx is quite new, please check the web for updates first.

Very special thanks to Eberhard Mattes for epocemx.

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LAST UPDATE

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