PAR

The Perl Archive Toolkit

Using PAR to package and deploy Perl applications http://par.perl.org

What is PAR?

- Is to perl what JAR (Java Archive) is to Java
- Aggregates modules, scripts and other files into a Zip file
- Makes it easy to ensure a consistent versions
- Provides a rich toolkit to solve many distribution problems

Simple Use - Creating PAR archives

- zip foo.par Hello.pm World.pm
- zip -r bar.par lib/
- Can include and run scripts in an archive too

Simple Use - Using PAR Archives

```
# To use Hello.pm from ./foo.par
perl -MPAR=./foo -MHello
use PAR 'foo.par';
use Module::From::foo::par;
use PAR '/home/foo/*.par';
use { file => 'foo.par', fallback => 1};
Foo::Bar will be searched in the system libs first and loaded
from foo.par if it wasn't found
```

PAR::Packer

- pp the Perl Packager
 Builds executables from perl scripts
 Enables obfuscation using input Filters
- par.pl Make and run PAR archives
 par.pl foo.par test.pl # runs script/test.pl in foo.par
- parl run PAR archives using built in perl
- tkpp Graphical Perl Packager

pp - The Perl Packager

- Builds standalone executables from Perl programs using PAR and Module::ScanDeps
- Similar to perlcc but it works, generates smaller executables
- Can use Filters to enable code obfuscation

```
pp hello.pl
                          # Pack 'hello.pl' into executable 'a.out'
                          # Pack 'hello.pl' into executable 'hello'
pp -o hello hello.pl
pp -o foo foo.pl bar.pl
                          # Pack 'foo.pl' and 'bar.pl' into 'foo'
                          # Run 'foo.pl' inside 'foo'
./foo
                          # Run 'bar.pl' inside 'foo'
mv foo bar; ./bar
                          # Error: Can't open perl script "baz"
mv bar baz; ./baz
                          # Creates a PAR file, 'a.par'
pp -p file
                          # Pack 'a.par' to executable 'hello'
pp -o hello a.par
pp -S -o hello file
                          # Combine the two steps above
pp -p -o out.par file
                          # Creates 'out.par' from 'file'
pp -B -p -o out.par file # same as above, but bundles core modules
                                # and removes any local paths from @INC
pp -P -o out.pl file
                          # Creates 'out.pl' from 'file'
                          # same as above, but bundles core modules
pp -B -p -o out.pl file
                          # and removes any local paths from @INC
                          # (-B is assumed when making executables)
pp -e "print 123"
                          # Pack a one-liner into 'a.out'
pp -p -e "print 123"
                          # Creates a PAR file 'a.par'
                          # Creates a perl script 'a.pl'
pp -P -e "print 123"
                          # Check dependencies from "perl -c hello"
pp -c hello
                          # Check dependencies from "perl hello"
pp -x hello
                          # same as above, but skips static scanning
pp -n -x hello
pp -I /foo hello
                          # Extra include paths
pp -M Foo::Bar hello
                          # Extra modules in the include path
pp -M abbrev.pl hello
                          # Extra libraries in the include path
pp -X Foo::Bar hello
                          # Exclude modules
pp -a data.txt hello
                          # Additional data files
pp -r hello
                          # Pack 'hello' into 'a.out', runs 'a.out'
                          # Pack 'hello' into 'a.out', runs 'a.out'
pp -r hello a b c
                          # with arguments 'a b c'
                          # Pack 'hello' into 'a.out', logs
pp hello --log=c
                          # messages into 'c'
                          # Pack 'hello.pl' but read additional
pp @file hello.pl
                                # options from file 'file'
```

PAR::Dist::FromCPAN

Create PAR distributions from CPAN

Build .par files from CPAN Modules

Provides script cpan2par

equivalent to cpan install <ModulePattern> but builds a .par archive e.g. cpan2par Template cpan2par --follow Moose