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1 Apache/Perl Modules

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1.1 Description

On CPAN you will be able to find a number of Perl modules created to run under mod_perl. We will give a presentation of them here and ways to get at these modules.

Apache/Perl modules are somewhat different from the many others found on CPAN (http://www.cpan.org/). Most Perl modules are "building blocks"; developers use them to build applications or even more building blocks. It just so happens that Apache/Perl modules are encapsulated inside a namespace and .pm file. However, this does not make them all building blocks, many are just like Apache modules written in C: you install them, edit the server configuration files and you're done.

Before you start a new module, consider this: Apache/Perl modules are useless outside of mod_perl and Apache. Do your best to design such that your Apache::* module will make good use of the building blocks found on CPAN, putting together new building blocks where appropriate and simply glue them together with the Apache API, keeping the Apache::* modules very small.

These modules will also serve as good examples, showing you where modules can step in during a stage of a request with Perl*Handler callbacks. You'll also see how and when to use the Apache API methods.

1.2 The Module List

Like other CPAN modules, the Apache/Perl modules are listed on the Perl module list, under the *World Wide Web* category: http://www.cpan.org/modules/00modlist.long.html#ID15_WorldWideW . Browse down the page to find the Apache: modules, organized by their role in the request cycle.

1.3 Where Are The Modules Kept?

Modules listed with the **APML** as is contact are part of the mod_perl distribution package. Other modules can be found on CPAN in the http://www.cpan.org/modules/by-module/Apache/ directory. If they have not made it to CPAN yet, they might be found in the mod_perl *contrib* directory at http://apache.org/dist/perl/contrib/. Otherwise, feel free to ask the contact author or the list how you can go about getting your hands on a copy. The modules listed with **MPB** as the author were present in the *Writing Apache Modules with Perl and C* book by Lincoln Stein and Doug MacEachern. If you can't find these modules on CPAN, look for them at http://modperl.com:9000/book/source/.

1.4 Playing Your Part

Apache and Perl are world-wide collaborative efforts; naturally, the Apache/Perl integration project is the same. You've started on the right foot simply by reading this document, thanks! Please make sure you've read the main Perl module list at http://www.cpan.org/modules/00modlist.long.html, all that is said there is relevant here!

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If you wish to share your module(s) in the Perl way, by putting them on CPAN, send a request to modules@perl.org to get set up with a PAUSE user id and directory. See http://www.cpan.org/modules/04pause.html for more details.

HINT: For a nice set of template files try this:

```
% h2xs -AX -n Apache::YourPackageName
```

1.4.1 Module Naming Conventions

Like for normal Perl modules on CPAN, the Apache:: namespace conventionally used for mod_perl modules needs to keep a certain organization. This is why you should choose a multi-level name for your module, categorizing it into a namespace that you feel fits your module. There should be a very good reason for a module to not have a nested name (ie. living directly under Apache::), that should only be the case for the core API modules and older modules which may keep their names.

Here are some examples of namespaces that you may want to use:

```
Applications: any module serving content with a
Apache::App
                 point-and-click interface *
Apache::Auth
                 Modules related to general user authentication/authorization
Apache::Authen
                Modules solely related to authentication
Apache::Authz
                Solely related to authorization
                Only access control
Apache::Access
Apache::Config
                Configuration-related things
Apache::Devel
                Development-related modules (debug/devel help)
Apache::Filter Filtering modules
  ::Output
                Output filters (1.0 style Filter/OutputChain or 2.0 style)
  ::Input
                Input filters
Apache::Framework Modules providing application frameworks (templating
                  and/or publication frameworks) *
Apache::Log
                Logging modules
Apache::Method
                Method handlers (PATCH/PUT and the like)
Apache::MIME
                MIME-type modules
Apache::Monitor Monitoring modules
Apache::Persistent Modules providing for persistency in connections
Apache::Proxy
                 Proxies
Apache::RPC
                RPC/SOAP modules
```

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```
Apache::Trans URI Translation handlers
```

Apache::Util General-utility modules, usually not handlers but

providing an API to use in your code

*: If you are writing a small application or templating module, contained in one module, you can use these namespaces. However, if you are planning a substantial framework with many inter-related modules, you should probably go with a top-level namespace outside of Apache::.

For an illustration of how this would look for the older modules, you can look at this example categorization.

Note: Of course none of these categories are cast in stone: you should feel free to choose the module name that suits your module best instead of trying to follow these general indications. If in doubt, just ask around at the mod_perl list; you are sure to get some assistance in naming your module! Furthermore, you should look at the way it's done on CPAN, and apply it under the Apache: namespace.

1.5 Porting CPAN modules to mod_perl 2.0 Status

If you want to port your or someone else's module to mod_perl 2.0, please refer to the these documents: porting Perl modules to mod_perl 2.0 and mod_perl 1.0 compatibility reference.

1.5.1 Ported 3rd-party Modules

The following modules have already been ported to mod_perl 2.0 and are available from CPAN. If you know of other modules that have been ported but not listed here, please contact the modperl list, so we can update this information:

Module Name	Required Dist Package
Apache::ASP	Apache-ASP-2.55
Apache::DBILogin	Apache-DBILogin-2.03
Apache::AuthCookie	Apache-AuthCookie-3.05
Apache::AuthExpire	Apache-AuthExpire-0.38
Apache::AuthNetLDAP	Apache-AuthNetLDAP-0.25
Apache::AuthPerLDAP	Apache-AuthPerLDAP-2.01
Apache::AuthenNTLM	Apache-AuthenNTLM-2.04
Apache::AuthenPasswd	Apache-AuthenPasswd-0.12
Apache::AuthenSmb	Apache-AuthenSmb-0.70
Apache::AuthenURL	Apache-AuthenURL-2.02
Apache::AuthzNetLDAP	Apache-AuthzNetLDAP-0.07
Apache::AuthzPasswd	Apache-AuthzPasswd-0.11
Apache::Clean	Apache-Clean-2.00_4
Apache::DB	Apache-DB-0.10
Apache::DProf	Apache-DB-0.10
Apache::GeoIP	Apache-GeoIP-1.215
Apache::PAR	Apache-PAR-0.30
Apache::Peek	Apache-Peek-1.03
Apache::Scoreboard	Apache-Scoreboard-2.01
Apache::SessionManager	Apache-SessionManager 1.00
Apache::SmallProf	Apache-DB-0.10

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Apache::Syntax::Highlight::Perl Apache-Syntax-Highlight-Perl-1.00
Apache::VMonitor Apache-VMonitor-2.0

CGI.pm-3.10

CGI::Cookie CGI.pm-3.10 (comes in the CGI dist)
Apache::Request (comes in libapreq2 dist)

1.6 Porting in Process

The following modules are in the process of being ported to mod_perl 2.0. Please contact the porter if you wish to help the porting.

If you have started the porting, in order to avoid duplicated efforts please contact the modperl list, and let us know what module you are porting. This information should also help others to help you to do the porting and testing.

Module	Porters										
Apache::Language	Philippe M. Chiasson <gozer at="" cpan.org=""></gozer>										
Apache::AutoIndex	Philippe M. Chiasson <gozer at="" cpan.org=""></gozer>										
Apache::Icon	Philippe M. Chiasson <gozer at="" cpan.org=""></gozer>										
Apache::Template	Geoffrey Young <geoff at="" modperlcookbook.org=""></geoff>										
Apache::AuthzNIS											

1.7 mod_perl 2.0 Specific Modules

The following modules have gone beyond the porting stage and are specifically designed for mod_perl 2.0 and the new features and functionality it brings. Each is available from CPAN. If you know of other modules that have been written for the 2.0 API but not listed here, please contact the modperl list, so we can update this information:

Module	Maintainers								
Apache::AuthenHook	Geoffrey Young <geoff at="" modperlcookbook.org=""></geoff>								
Apache::IncludeHook	Geoffrey Young <geoff at="" modperlcookbook.org=""></geoff>								
Apache2::DebugFilter	Philip M. Gollucci <pgollucci at="" p6m7g8.com=""></pgollucci>								
Apache2::Filter::HTTPHeadersFixup	Philip M. Gollucci <pgollucci at="" p6m7g8.com=""></pgollucci>								

1.8 Maintainers

The maintainer is the person you should contact with updates, corrections and patches.

• Per Einar Ellefsen <pereinar (at) oslo.online.no>

1.9 Authors

• Per Einar Ellefsen <pereinar (at) oslo.online.no>

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• Doug MacEachern

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