

Apache Module `mod_example`

Description:	Illustrates the Apache module API
Status:	Experimental
Module Identifier:	<code>example_module</code>
Source File:	<code>mod_example.c</code>

Summary

This document has not been updated to take into account changes made in the 2.0 version of the Apache HTTP Server. Some of the information may still be relevant, but please use it with care.

The files in the `src/modules/example` directory under the Apache distribution directory tree are provided as an example to those that wish to write modules that use the Apache API.

The main file is `mod_example.c`, which illustrates all the different callback mechanisms and call syntaxes. By no means does an add-on module need to include routines for all of the callbacks - quite the contrary!

The example module is an actual working module. If you link it into your server, enable the "example-handler" handler for a location, and then browse to that location, you will see a display of some of the tracing the example module did as the various callbacks were made.

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Compiling the example module

To include the example module in your server, follow the steps below:

1. Uncomment the "AddModule `modules/example/mod_example`" line near the bottom of the `src/Configuration` file. If there isn't one, add it; it should look like this:

```
AddModule modules/example/mod_example.o
```

2. Run the `src/Configure` script ("`cd src; ./Configure`"). This will build the Makefile for the server itself, and update the `src/modules/Makefile` for any additional modules you have requested from beneath that subdirectory.
3. Make the server (run "make" in the `src` directory).

To add another module of your own:

- A. `mkdir src/modules/mymodule`
- B. `cp src/modules/example/* src/modules/mymodule`
- C. Modify the files in the new directory.
- D. Follow steps [1] through [3] above, with appropriate changes.

Using the mod_example Module

To activate the example module, include a block similar to the following in your `srm.conf` file:

```
<Location /example-info>
SetHandler example-handler
</Location>
```

As an alternative, you can put the following into a `.htaccess`¹ file and then request the file "test.example" from that location:

```
AddHandler example-handler .example
```

After reloading/restarting your server, you should be able to browse to this location and see the brief display mentioned earlier.

Example Directive

Description:	Demonstration directive to illustrate the Apache module API
Syntax:	<code>Example</code>
Context:	server config, virtual host, directory, <code>.htaccess</code>
Status:	Experimental
Module:	<code>mod_example</code>

The `Example` directive just sets a demonstration flag which the example module's content handler displays. It takes no arguments. If you browse to an URL to which the example content-handler applies, you will get a display of the routines within the module and how and in what order they were called to service the document request. The effect of this directive one can observe under the point "Example directive declared here: YES/NO".

URI References

[1] <http://httpd.apache.org/docs-2.1/mod/core.html#accessfilename>