



Apache Quick Reference Card

Revision 1.6 for Apache version 1.3.6

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


This card summarizes information in the Apache documentation, which can be found at <http://www.apache.org/docs/>.

Each directive is listed with its arguments. Defaults are given where appropriate in parentheses at the end of the line, followed by an indication of the status of the directive (C – core, B – base, E – extension) and the contexts in which the directive is valid (c – in a configuration file, v – within a virtual host section, d – within a directory section, a – in an access control file).







Options and directives that are new for Apache 1.3 are marked , while those that have changed are marked .

Command line options

httpd [-d *directory*] [-f *file*] [-C *directive*]
[-c *directive*] [-L] [-l] [-S] [-v] [-V] [-X]








- d *directory* initial value for ServerRoot
- D *parameter* define parameter for <IfDefine>
- f *file* configuration file (conf/httpd.conf)
- C *directive* process *directive* before reading config files 
- c *directive* process *directive* after reading config files 
- L list available configuration directives and exit 
- l list compiled-in modules and exit 
- S show *vhost* settings
- t test syntax of configuration files and exit
- v print version and build date, and exit
- V show compilation settings and exit 
- X single-process debug mode

General configuration directives






DocumentRoot <i>directory</i>	(/usr/local/apache/htdocs)	C cv	
ServerRoot <i>directory</i>	(/usr/local/apache)	C c	
AccessConfig <i>filename</i>	(conf/access.conf)	C cv	
ResourceConfig <i>filename</i>	(conf/srm.conf)	C cv	
Include <i>filename</i>		C v d	
TypesConfig <i>filename</i>	(conf/mime.types)	B c	
PidFile <i>filename</i>	(logs/httpd.pid)	C c	
LockFile <i>filename</i>	(logs/accept.lock)	C c	
ScoreBoardFile <i>file</i>	(logs/apache_status)	C c	
ServerAdmin <i>email-addr</i>		C v	
ServerType {in etd standalone}	(standalone)	C c	
ServerName <i>name</i>	(determined automatically)	C v	
ServerAlias <i>fqdn</i> ...		C v	
ServerSignature {On Off Email}	(Off)	C c v d a	
ServerPath <i>pathname</i>		C v	
ServerTokens {Min imal OS Full}	(Full)	C c	
BindAddress {* IP-addr fqdn}	(*)	C c	
Listen [IP-addr]:port-number		C c	
Port <i>portno</i>	(80)	C c	
User {username #userid}	(#-1)	C v	
Group {group-name #group-id}	(#-1)	C v	
NameVirtualHost <i>addr[:port]</i>		C c	
UseCanonicalName {On Off}	(On)	C c v d a	
CoreDumpDirectory <i>directory</i>	(as ServerRoot)	C c	
IdentityCheck {On Off}	(Off)	C v d	

ClearModuleList	C c	
AddModule <i>module</i> ...	C c	
AddModuleInfo <i>module text</i>	E cv	
ExtendedStatus {On Off}	(Off) E c	



Sectional directives

<Directory {pattern ~ regex} > ... </Directory>	C cv	
<DirectoryMatch <i>regex</i> > ... </DirectoryMatch>	C cv	
<Files {pattern ~ regex} > ... </Files>	C c v d a	
<FilesMatch <i>regex</i> > ... </FilesMatch>	C c v d a	
<Location {pattern ~ regex} > ... </Location>	C cv	
<LocationMatch <i>regex</i> > ... </LocationMatch>	C cv	
<VirtualHost <i>pattern</i> > ... </VirtualHost>	C c	
<IfDefine [!] <i>parameter</i> > ... </IfDefine>	C c v d a	
<IfModule [!] <i>module</i> > ... </IfModule>	C c v d a	
<Limit <i>method</i> > ... </Limit>	C c v d a	
<LimitExcept <i>method</i> > ... </LimitExcept>	C c v d a	


Logging directives







ErrorLog {file syslog[:facility]} (logs/error_log)	C cv	
CustomLog <i>file-or-pipe</i> {format-string format-name} [env- <i>!</i> var]	B cv	
TransferLog <i>file-or-pipe</i> (logs/access_log)	B cv	
HostnameLookups {On Off Double}	(Off) C c v d	
RefererIgnore <i>hostname</i> ...	E cv	
LogFormat <i>format-string</i> ("%h %l %u %t \"%r\" %s %b") [format-name]	B cv	
LogLevel {emerg alert crit error warn notice info debug}	(error) C cv	

format-string can contain literal text and format specifiers:






%a	Remote IP address
%b	Number of bytes sent (excluding headers)
%{var}e	Environment variable value
%f	Filename
%h	Remote host
%{hdr}i	Incoming header value
%l	Remote logname (from identd)
%{label}n	Labelled note from another module 
%{hdr}o	Outgoing header value
%p	Canonical port number of server
%P	Process ID of child server process
%r	First line of request
%s	Status
%t	Time in Common Log Format (CLF) format
%{format}t	Time (<i>format</i> is strftime format)
%T	Time taken to serve the request (in seconds)
%u	Remote username
%U	URL requested
%v	Canonical ServerName of server
%V	Server name as per UseCanonicalName setting 

Performance tuning directives






Timeout <i>secs</i>	(300) C c
KeepAlive {On Off}	(On) C c
KeepAliveTimeout <i>seconds</i>	(15) C c
MaxKeepAliveRequests <i>number</i>	(100) C c
MaxClients <i>number</i>	(256) C c
MaxRequestsPerChild <i>number</i>	C c
ExcessRequestsPerChild <i>number</i>	E c 
MaxSpareServers <i>number</i>	(10) C c

MinSpareServers <i>number</i>	(5) C c
StartServers <i>number</i>	(5) C c
ListenBacklog <i>number</i>	(511) C c 
LimitRequestBody <i>nbytes</i>	C c v d a 
LimitRequestFields <i>number</i>	(100) C c 
LimitRequestFieldSize <i>nbytes</i>	(8190) C c 
LimitRequestLine <i>nbytes</i>	(8190) C c 
SendBufferSize <i>bytes</i>	C c
RLimitCPU {secs max} [{secs max}]	C c v d a
RLimitMEM {bytes max} [{bytes max}]	C c v d a
RLimitNPROC {nprocs max} [{nprocs max}]	C c v d a
ThreadsPerChild <i>number</i>	(50) C c 



File typing directives

DefaultType <i>MIME-type</i>	(text/html) C c v d a
ForceType <i>MIME-type</i>	B d a
AddEncoding <i>MIME-encoding extension</i> ...	B c v d a
AddLanguage <i>MIME-language extension</i> ...	B c v d a
AddType <i>MIME-type extension</i> ...	B c v d a
DefaultLanguage <i>MIME-language</i> (no default language)	C c v d a 
LanguagePriority <i>MIME-language</i> ...	B c v d a
XBitHack {On Off Full}	(Off) B c v d a
MetaFiles {On Off}	(Off) E c v d a 
MetaDir <i>dir-name</i>	(.web) E c v d a 
MetaSuffix <i>suffix</i>	(.meta) E c v d a 
MimeMagicFile <i>filename</i>	E cv 
ContentDigest {On Off}	(Off) C c v d a
ExpiresActive {On Off}	E c v d a
ExpiresBytype <i>MIME-type expiry-code</i>	E c v d a
ExpiresDefault <i>expiry-code</i>	E c v d a
Header {set append add unset} <i>header value</i>	E c v d a



Mapping directives

Action { <i>MIME-type</i> <i>handler-name</i> } <i>script</i>	B c v d a
Alias <i>url-path real-path</i>	B c v
AliasMatch <i>url-regex path-replacement</i>	B c v 
ErrorDocument <i>error-code</i> { <i>string</i> <i>url</i> }	C c v d a
UserDir { <i>directory</i> DISABLED [<i>user</i> ...] (public_html) B c v 	
Redirect [<i>status</i>] <i>url-path url</i>	B c v d a
RedirectMatch [<i>status</i>] <i>url-regex dest-url</i>	B c v 
RedirectPermanent <i>url-path url-dest</i>	B c v d a
RedirectTemp <i>url-path url-dest</i>	B c v d a
Script <i>method script</i>	B c v d
ScriptAlias <i>url-path script-dir</i>	B c v
ScriptAliasMatch <i>url-regex script-dir</i>	B c v 
AddHandler <i>handler-name extension</i> ...	B c v d a
RemoveHandler <i>extension</i> ...	B d a 
SetHandler <i>handler-name</i>	B d a
ImapBase {map referer url} (http://server) B c v d a	
ImapDefault {error nocontent referer menu (nocontent) B c v d a url}	
ImapMenu {none formatted semiformatted unformatted}	B c v d a
RewriteBase <i>url</i>	E c v d a
RewriteCond <i>test-string cond-pattern</i> [<i>flags</i>]	E c v d a
RewriteEngine {On Off}	(Off) E c v d a
RewriteLock <i>filename</i>	E cv 
RewriteLog <i>filename</i>	E cv
RewriteLogLevel <i>digit</i>	E cv

```

RewriteMap map-name map-type:map-source      E cv 
RewriteOptions option                        E cvda
RewriteRule pattern substitution [flags]     E cvda 


Scripting directives


BrowserMatch regexp var[=value] ...         B cv
BrowserMatchNoCase regexp var[=value] ...   B cv
PassEnv varname ...                          B cv
SetEnv varname value                         B cv
SetEnvIf attribute regex var[=value] ...    B cv 
SetEnvIfNoCase attribute regex var[=value] ... B cv 
UnsetEnv varname ...                         B cv
ScriptLog filename                           B c
ScriptLogBuffer size-bytes                   (1024) B c
ScriptLogLength length-bytes                (10385760) B c

```

Directory indexing directives

```

DirectoryIndex file ... (index.html) B cvda
ReadmeName filename    B cvda
HeaderName filename    B cvda
IndexIgnore pattern ... B cvda
IndexOrderDefault {Ascending|Descending} {Name|Date| B cvda 
                    Size|Description}


DefaultIcon url         B cvda
AddAlt "string" file ... B cvda
AddAltByEncoding "string" MIME-encoding ... B cvda
AddAltByType "string" MIME-type ...         B cvda
AddIcon icon file ...   B cvda
AddIconByType icon MIME-type ...           B cvda
AddIconByEncoding icon MIME-encoding ...   B cvda
AddDescription "description" file-pattern  B cvda
IndexOptions {+option|-option} ... (no options) B cvda 

```

Valid index options are: FancyIndexing, IconsHeight=pixels, IconsWidth=pixels, NameWidth=n, IconsAreLinks, ScanHTMLTitles, SuppressColumnSorting, SuppressDescription, SuppressHTMLPreamble, SuppressLastModified, SuppressSize

Access control directives

```

AccessFileName filename ... (.htaccess) C cv 
AllowOverride directive-group ... (All) C d

Valid directive groups are: None, All, AuthConfig, FileInfo,
Indexes, Limit, Options
Options {+feature|-feature} ... (All) C cvda

Valid options are: None, All, ExecCGI, FollowSymLinks,
Includes, IncludesNOEXEC, Indexes, MultiViews,
SymLinksIfOwnerMatch








AuthName realm-name      C da
AuthType type             C da
AuthUserFile filename    E da
AuthGroupFile filename   E da
AuthAuthoritative {On|Off} (On) B da
allow from {all|host ...|env=var} B da
deny from {all|host ...|env=var}   B da
order {allow,deny|deny,allow} (deny,allow) B da
mutual-failure}

Require {user user ...|group group ...|valid-user} C da
Satisfy {All|Any} (All) C da

```

Proxy/cache directives

```

NoProxy {host|domain|ip-addr|subnet} ... E cv 
AllowCONNECT port ... (443 563) E cv 
ProxyBlock {*|host|domain} ... E cv
ProxyDomain domain-name E cv 
ProxyPass path url E cv
ProxyPassReverse path url E cv 
ProxyReceiveBufferSize number-bytes E cv 
ProxyRemote match remote-server E cv
ProxyRequests {On|Off} (Off) E cv
ProxyVia {On|Off|Full|Block} (Off) E cv 
CacheDefaultExpire hours (1) E cv
CacheDirLength number (1) E cv
CacheDirLevels number (3) E cv
CacheForceCompletion percentage-complete (90) E cv 
CacheGcInterval hours E cv
CacheLastModifiedFactor factor (0.1) E cv
CacheMaxExpire hours (24) E cv
CacheRoot directory E cv
CacheSize kb (5) E cv
NoCache {*|host|domain} ... E cv

```

Common Gateway Interface (CGI) variables

```

AUTH_TYPE Authentication method used
CONTENT_LENGTH Length of input stream data
CONTENT_TYPE Internet media type of input stream
GATEWAY_INTERFACE CGI version
PATH_INFO URL part after script identifier
PATH_TRANSLATED PATH_INFO translated into filesystem
QUERY_STRING Query string from URL (if present)
REMOTE_ADDR IP address of client
REMOTE_HOST DNS name of client
REMOTE_IDENT Remote user id (unreliable)
REMOTE_USER Name of the authenticated user
REQUEST_METHOD HTTP request method
SCRIPT_NAME Virtual path of the script
SERVER_NAME Host-name of the server
SERVER_PORT Port number of server
SERVER_PROTOCOL Name and version of the protocol
SERVER_SOFTWARE Server software name and version
HTTP_ACCEPT MIME types the browser will accept
HTTP_REFERER URL of referring document
HTTP_USER_AGENT Client software identification
MOD_PERL Defined if running under mod_perl

```

Server Side Includes (SSI)

Format is: `<!--#element attr=value ... -->`

Elements are:

```

config controls parsing; attributes: errmsg, sizefmt (one of
bytes or abbrev), timefmt (strftime format)
echo print the value of a variable; attribute var (can be
a CGI variable or one of: DATE_GMT, DATE_LOCAL,
DOCUMENT_NAME, DOCUMENT_URI or LAST_MODIFIED)
set set the value of a variable; attributes: var, value
printenv print a list of all variables and their values
exec execute a shell command or CGI script; attribute: cmd
or cgi (IncludesNOEXEC option disables exec)
fsize print size of file; attribute: file or virtual
flastmod print file modification time; attribute file or virtual

```

```

include include another document; attribute file or virtual
if conditional; attribute: expr
elif conditional; attribute: expr
else conditional
endif conditional

```

HTTP 1.1 status codes

100 Continue	404 Not found
101 Switching protocols	405 Method not allowed
200 OK	406 Not acceptable
201 Created	407 Proxy authentication required
202 Accepted	408 Request timeout
203 Non-authoritative information	409 Conflict
204 No content	410 Gone
205 Reset content	411 Length required
206 Partial content	412 Precondition failed
300 Multiple choices	413 Request entity too large
301 Moved permanently	414 Request-URI too long
302 Moved temporarily	415 Unsupported media type
303 See other	500 Internal server error
304 Not modified	501 Not implemented
305 Use proxy	502 Bad gateway
400 Bad request	503 Service unavailable
401 Unauthorized	504 Gateway timeout
402 Payment required	505 HTTP version not supported
403 Forbidden	

Apache Web Resources

http://www.apache.org	Apache home page
http://modules.apache.org	Apache Module Registry
http://www.apache-ssl.org	Apache-SSL home page
http://www.modssl.org	mod_ssl home page
http://java.apache.org	The Java-Apache Project
http://perl.apache.org	The Apache/Perl Integration Project
http://www.php.net	PHP: Hypertext Processor
http://www.apacheweek.com	Apache Week
http://www.netcraft.com/survey	Netcraft Server Survey
http://www.refcards.com	Quick Reference Cards

Apache Quick Reference Card

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