

# Apache Quick Reference Card



Revision 1.6 for Apache version 1.3.6

Andrew Ford

refcards.com™






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 *directory* (/usr/local/apache/htdocs) C cv

ServerRoot *directory* (/usr/local/apache) C c

AccessConfig *filename* (conf/access.conf) C cv

ResourceConfig *filename* (conf/srm.conf) C cv

Include *filename* C cvd 

TypesConfig *filename* (conf/mime.types) B c

PidFile *filename* (logs/httpd.pid) C c

LockFile *filename* (logs/accept.lock) C c


ScoreBoardFile *file* (logs/apache\_status) C c

ServerAdmin *email-addr* C cv


ServerType {inetd|standalone} (standalone) C c

ServerName *name* (*determined automatically*) C cv

ServerAlias *fqdn* ... C v

ServerSignature {On|Off|Email} (Off) C cvda 

ServerPath *pathname* C v

ServerTokens {Min|imal|OS|Full} (Full) C c 


BindAddress {*\*|IP-addr|fqdn*} (\*) C c


Listen [*IP-addr*]:*port-number* C c


Port *portno* (80) C c

User {*username|#userid*} (#-1) C cv

Group {*group-name|#group-id*} (#-1) C cv

NameVirtualHost *addr*[:*port*] C c 

UseCanonicalName {On|Off} (On) C cvda 

CoreDumpDirectory *directory* (*as ServerRoot*) C c 

IdentityCheck {On|Off} (Off) C cvd


ClearModuleList C c


AddModule *module* ... C c


AddModuleInfo *module* *text* E cv 


ExtendedStatus {On|Off} (Off) E c 


## Sectional directives


<Directory {*pattern* | ~ *regex*} > ... </Directory> C cv 

<DirectoryMatch *regex*> ... </DirectoryMatch> C cv 


<Files {*pattern*|~ *regex*} > ... </Files> C cvda 

<FilesMatch *regex*> ... </FilesMatch> C cvda 

<Location {*pattern*|~ *regex*} > ... </Location> C cv 

<LocationMatch *regex*> ... </LocationMatch> C cv 

<VirtualHost *pattern*> ... </VirtualHost> C c


<IfDefine [!]*parameter*> ... </IfDefine> C cvda 


<IfModule [!]*module*> ... </IfModule> C cvda

<Limit *method*> ... </Limit> C cvda

<LimitExcept *method*> ... </LimitExcept> C cvda


## Logging directives

ErrorLog {*file*|syslog[:*facility*]} (logs/error\_log) C cv 


CustomLog *file-or-pipe* {*format-string*|*format-name*} B cv 

[*env*=[!]*var*]


TransferLog *file-or-pipe* (logs/access\_log) B cv

HostnameLookups {On|Off|Double} (Off) C cvd 

RefererIgnore *hostname* ... E cv

LogFormat *format-string* ("%h %l %u %t \"%r\" %s %b") B cv 

[*format-name*]

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 (*format* 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 *secs* (300) C c


KeepAlive {On|Off} (On) C c

KeepAliveTimeout *seconds* (15) C c

MaxKeepAliveRequests *number* (100) C c

MaxClients *number* (256) C c


MaxRequestsPerChild *number* C c


ExcessRequestsPerChild *number* E c 


MaxSpareServers *number* (10) C c


MinSpareServers *number* (5) C c


StartServers *number* (5) C c

ListenBacklog *number* (511) C c 

LimitRequestBody *nbytes* C cvda 

LimitRequestFields *number* (100) C c 

LimitRequestFieldSize *nbytes* (8190) C c 


LimitRequestLine *nbytes* (8190) C c 

SendBufferSize *bytes* C c

RLimitCPU {*secs*|max} [{*secs*|max}] C cvda

RLimitMEM {*bytes*|max} [{*bytes*|max}] C cvda

RLimitNPROC {*nprocs*|max} [{*nprocs*|max}] C cvda

ThreadsPerChild *number* (50) C c 

## File typing directives


DefaultType *MIME-type* (text/html) C cvda

ForceType *MIME-type* B da

AddEncoding *MIME-encoding* extension ... B cvda


AddLanguage *MIME-language* extension ... B cvda


AddType *MIME-type* extension ... B cvda


DefaultLanguage *MIME-language* (no default language) C cvda 


LanguagePriority *MIME-language* ... B cvda

XBitHack {On|Off|Full} (Off) B cvda

MetaFiles {On|Off} (Off) E cvda 

MetaDir *dir-name* (.web) E cvda 

MetaSuffix *suffix* (.meta) E cvda 

MimeMagicFile *filename* E cv 

ContentDigest {On|Off} (Off) C cvda

ExpiresActive {On|Off} E cvda

ExpiresByType *MIME-type* *expiry-code* E cvda


ExpiresDefault *expiry-code* E cvda

Header {set|append|add|unset} *header value* E cvda


## Mapping directives

Action {*MIME-type*|*handler-name*} *script* B cvda

Alias *url-path* *real-path* B cv


AliasMatch *url-regex* *path-replacement* B cv 

ErrorDocument *error-code* {*string*|*url*} C cvda

UserDir {*directory*|DISABLED [*user* ...]| (public\_html) B cv 

ENABLED *user* ...}

Redirect [*status*] *url-path* *url* B cvda


RedirectMatch [*status*] *url-regex* *dest-url* B cv 

RedirectPermanent *url-path* *url-dest* B cvda


RedirectTemp *url-path* *url-dest* B cvda

Script *method* *script* B cvd

ScriptAlias *url-path* *script-dir* B cv

ScriptAliasMatch *url-regex* *script-dir* B cv 

AddHandler *handler-name* extension ... B cvda

RemoveHandler extension ... B da 

SetHandler *handler-name* B da

ImapBase {map|referer|url} (http://server) B cvda

ImapDefault {error|nocontent|referer|menu (nocontent) B cvda


|*url*}

ImapMenu {none|formatted|semiformatted|unformatted} B cvda

RewriteBase *url* E cvda



RewriteCond *test-string* *cond-pattern* [*flags*] E cvda

RewriteEngine {On|Off} (Off) E cvda



RewriteLock *filename* E cv 

RewriteLog *filename* E cv



RewriteLogLevel *digit* E cv

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

Scripting directives


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

Directory indexing directives

DirectoryIndex <i>file</i> ...	(index.html) B cvda
ReadmeName <i>filename</i>	B cvda
HeaderName <i>filename</i>	B cvda
IndexIgnore <i>pattern</i> ...	B cvda
IndexOrderDefault { <i>Ascending Descending</i> } { <i>Name Date Size Description</i> }	B cvda 
DefaultIcon <i>url</i>	B cvda
AddAlt " <i>string</i> " <i>file</i> ...	B cvda
AddAltByEncoding " <i>string</i> " <i>MIME-encoding</i> ...	B cvda
AddAltByType " <i>string</i> " <i>MIME-type</i> ...	B cvda
AddIcon <i>icon file</i> ...	B cvda
AddIconByType <i>icon MIME-type</i> ...	B cvda
AddIconByEncoding <i>icon MIME-encoding</i> ...	B cvda
AddDescription " <i>description</i> " <i>file-pattern</i>	B cvda
IndexOptions { <i>+option -option</i> } ...	(no options) B cvda 

Valid index options are: FancyIndexing, IconsHeight=*pixels*, IconsWidth=*pixels*, NameWidth=*n*, IconsAreLinks, ScanHTMLTitles, SupressColumnSorting, SupressDescription, SupressHTMLPreamble, SupressLastModified, SupressSize








Access control directives

AccessFileName <i>filename</i> ...	(.htaccess) C cv 
AllowOverride <i>directive-group</i> ...	(All) C d
Options { <i>+feature -feature</i> } ...	(All) C cvda

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

AuthName <i>realm-name</i>	C da
AuthType <i>type</i>	C da
AuthUserFile <i>filename</i>	E da
AuthGroupFile <i>filename</i>	E da
AuthAuthoritative { <i>On Off</i> }	(On) B da
allow from { <i>all host ... env=var</i> }	B da
deny from { <i>all host ... env=var</i> }	B da
order { <i>allow,deny deny,allow mutual-failure</i> }	(deny,allow) B da
Require { <i>user user ... group group ... valid-user</i> }	C da
Satisfy { <i>All Any</i> }	(All) C da

Proxy/cache directives

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

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

Apache Quick Reference Card

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