



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) Ccv
ServerRoot *directory* (/usr/local/apache) Cc
AccessConfig *filename* (conf/access.conf) Ccv
ResourceConfig *filename* (conf/srm.conf) Ccv
Include *filename* Ccvd 
TypesConfig *filename* (conf/mime.types) Bc
PidFile *filename* (logs/httpd.pid) Cc
LockFile *filename* (logs/accept.lock) Cc
ScoreBoardFile *file* (logs/apache_status) Cc
ServerAdmin *email-addr* Ccv
ServerType {inetd|standalone} (standalone) Cc
ServerName *name* (determined automatically) Ccv
ServerAlias *fqdn* ... Cv
ServerSignature {On|Off|Email} (Off) Ccvda 
ServerPath *pathname* Cv
ServerTokens {Min|imal|OS|Full} (Full) Cc 
BindAddress {*|IP-addr|fqdn} (*) Cc
Listen [IP-addr:]port-number Cc
Port *portno* (80) Cc
User {username|#userid} (#-1) Ccv
Group {group-name|#group-id} (#-1) Ccv
NameVirtualHost *addr*[:port] Cc 
UseCanonicalName {On|Off} (On) Ccvda 
CoreDumpDirectory *directory* (as ServerRoot) Cc 
IdentityCheck {On|Off} (Off) Ccvd

ClearModuleList Cc
AddModule *module* ... Cc
AddModuleInfo *module* *text* Ecv 
ExtendedStatus {On|Off} (Off) Ec 

Sectional directives

<Directory {*pattern* | ~ *regex*} > ... </Directory> Ccv 
<DirectoryMatch *regex*> ... </DirectoryMatch> Ccv 
<Files {*pattern*|~ *regex*} > ... </Files> Ccvda 
<FilesMatch *regex*> ... </FilesMatch> Ccvda 
<Location {*pattern*|~ *regex*} > ... </Location> Ccv 
<LocationMatch *regex*> ... </LocationMatch> Ccv 
<VirtualHost *pattern*> ... </VirtualHost> Cc
<IfDefine [!]*parameter*> ... </IfDefine> Ccvda 
<IfModule [!]*module*> ... </IfModule> Ccvda
<Limit *method*> ... </Limit> Ccvda
<LimitExcept *method*> ... </LimitExcept> Ccvda

Logging directives

ErrorLog {*file*|syslog[:*facility*]} (logs/error_log) Ccv 
CustomLog *file-or-pipe* {*format-string*|*format-name*} Bcv 
[env=[!]*var*]
TransferLog *file-or-pipe* (logs/access_log) Bcv
HostnameLookups {On|Off|Double} (Off) Ccvd 
RefererIgnore *hostname* ... Ecv
LogFormat *format-string* ("%h %l %u %t \"%r\" %s %b") Bcv 
[*format-name*]
LogLevel {emerg|alert|crit|error|warn|notice|info|debug} (error) Ccv 

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) Cc
KeepAlive {On|Off} (On) Cc
KeepAliveTimeout *seconds* (15) Cc
MaxKeepAliveRequests *number* (100) Cc
MaxClients *number* (256) Cc
MaxRequestsPerChild *number* Cc
ExcessRequestsPerChild *number* Ec 
MaxSpareServers *number* (10) Cc

MinSpareServers *number* (5) Cc
StartServers *number* (5) Cc
ListenBacklog *number* (511) Cc 
LimitRequestBody *nbytes* Ccvda 
LimitRequestFields *number* (100) Cc 
LimitRequestFieldSize *nbytes* (8190) Cc 
LimitRequestLine *nbytes* (8190) Cc 
SendBufferSize *bytes* Cc
RLimitCPU {secs|max} [{secs|max}] Ccvda
RLimitMEM {bytes|max} [{bytes|max}] Ccvda
RLimitNPROC {nprocs|max} [{nprocs|max}] Ccvda
ThreadsPerChild *number* (50) Cc 

File typing directives

DefaultType *MIME-type* (text/html) Ccvda
ForceType *MIME-type* Bda
AddEncoding *MIME-encoding extension* ... Bcvda
AddLanguage *MIME-language extension* ... Bcvda
AddType *MIME-type extension* ... Bcvda
DefaultLanguage *MIME-language* (no default language) Ccvda 
LanguagePriority *MIME-language* ... Bcvda
XBitHack {On|Off|Full} (Off) Bcvda
MetaFiles {On|Off} (Off) Ecvda 
MetaDir *dir-name* (.web) Ecvda 
MetaSuffix *suffix* (.meta) Ecvda 
MimeMagicFile *filename* Ecv 
ContentDigest {On|Off} (Off) Ccvda
ExpiresActive {On|Off} Ecvda
ExpiresByType *MIME-type expiry-code* Ecvda
ExpiresDefault *expiry-code* Ecvda
Header {set|append|add|unset} *header value* Ecvda

Mapping directives

Action {*MIME-type*|*handler-name*} *script* Bcvda
Alias *url-path real-path* Bcv
AliasMatch *url-regex path-replacement* Bcv 
ErrorDocument *error-code* {*string*|*url*} Ccvda
UserDir {*directory*|DISABLED [*user* ...]| (public_html) Bcv 
ENABLED *user* ...}
Redirect [*status*] *url-path url* Bcvda
RedirectMatch [*status*] *url-regex dest-url* Bcv 
RedirectPermanent *url-path url-dest* Bcvda
RedirectTemp *url-path url-dest* Bcvda
Script *method script* Bcvd
ScriptAlias *url-path script-dir* Bcv
ScriptAliasMatch *url-regex script-dir* Bcv 
AddHandler *handler-name extension* ... Bcvda
RemoveHandler *extension* ... Bda 
SetHandler *handler-name* Bda
ImapBase {map|referer|url} (http://server) Bcvda
ImapDefault {error|nocontent|referer|menu (nocontent) Bcvda
|url}
ImapMenu {none|formatted|semiformatted|unformatted} Bcvda
RewriteBase *url* Ecvda
RewriteCond *test-string cond-pattern* [*flags*] Ecvda
RewriteEngine {On|Off} (Off) Ecvda
RewriteLock *filename* Ecv 
RewriteLog *filename* Ecv
RewriteLogLevel *digit* Ecv

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>regexp var[=value] ...</i>	B cv	
BrowserMatchNoCase <i>regexp 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 {Ascending Descending} {Name Date Size Description}	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</i> - <i>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	
Valid directive groups are: None, All, AuthConfig, FileInfo, Indexes, Limit, Options		
Options {+ <i>feature</i> - <i>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 {On Off}	(On) B da	
allow from {all <i>host ... env=var</i> }	B da	
deny from {all <i>host ... env=var</i> }	B da	
order {allow,deny deny,allow mutual-failure}	(deny,allow) B da	
Require {user <i>user ... group group ... valid-user</i> }	C da	
Satisfy {All Any}	(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 {On Off}	(Off) E cv	
ProxyVia {On Off Full Block}	(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: <!--# <i>element attr=value ... --></i>		
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
A **refcards.com**™ quick reference card.
Revision 1.6 for Apache version 1.3.6 [May 1999]
Published by Ford & Mason Ltd.
© 1998, 1999 Ford & Mason Ltd. All rights reserved.
Permission is granted to print and duplicate this card for personal or individual, internal business use. Copies of this card (& others) can be ordered through our web site: <http://www.refcards.com>, which also has versions available for downloading.
Please send feedback to: feedback@refcards.com
refcards.com is a trademark of Ford & Mason Ltd.
The Apache feather is used with permission of the Apache Group.