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 ●1.3, while those that have changed are marked ○1.3.

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  ●1.3
-c directive   process directive after reading config files   ●1.3
-L             list available configuration directives and exit ○1.3
-l             list compiled-in modules and exit              ○1.3
-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             ●1.3
-X             single-processs 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   ●1.3
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  ●1.3
ServerPath pathname                                         C v
ServerTokens {Min[imal]|OS|Full}                    (Full) C c    ●1.3
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     ●1.3
UseCanonicalName {On|Off}                             (On) C cvda  ●1.3
CoreDumpDirectory directory                 (as ServerRoot) C c     ●1.3
IdentityCheck {On|Off}                               (Off) C cvd
```



```
ClearModuleList                                             C c
AddModule module ...                                        C c
AddModuleInfo module text                                   E cv    ●1.3
ExtendedStatus {On|Off}                              (Off) E c     ●1.3
```

Sectional directives

```
<Directory {pattern | ~ regex} > ... </Directory>           C cv    ○1.3
<DirectoryMatch regex> ... </DirectoryMatch>                C cv    ●1.3
<Files {pattern|~ regex} > ... </Files>                     C cvda  ○1.3
<FilesMatch regex> ... </FilesMatch>                        C cvda  ●1.3
<Location {pattern|~ regex} > ... </Location>               C cv    ○1.3
<LocationMatch regex> ... </LocationMatch>                  C cv    ●1.3
<VirtualHost pattern> ... </VirtualHost>                    C c
<IfDefine [!]parameter> ... </IfDefine>                     C cvda  ●1.3
<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    ○1.3
CustomLog file-or-pipe {format-string|format-name}          B cv    ○1.3
        [env=[!]var]
TransferLog file-or-pipe                  (logs/access_log) B cv
HostnameLookups {On|Off|Double}                      (Off) C cvd   ○1.3
RefererIgnore hostname ...                                  E cv
LogFormat format-string      ("%h %l %u %t \"%r\" %s %b") B cv    ○1.3
        [format-name]
LogLevel {emerg|alert|crit|error|warn|notice|      (error) C cv    ●1.3
        info|debug}
```

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            ●1.3
%{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   ○1.3
```

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     ●1.3
MaxSpareServers number                                (10) C c
```



```
MinSpareServers number                                 (5) C c
StartServers number                                    (5) C c
ListenBacklog number                                 (511) C c     ●1.3
LimitRequestBody nbytes                                     C cvda  ●1.3
LimitRequestFields number                            (100) C c     ●1.3
LimitRequestFieldSize nbytes                        (8190) C c     ●1.3
LimitRequestLine nbytes                             (8190) C c     ●1.3
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     ●1.3
```

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  ●1.3
LanguagePriority MIME-language ...                          B cvda
XBitHack {On|Off|Full}                               (Off) B cvda
MetaFiles {On|Off}                                   (Off) E cvda  ●1.3
MetaDir dir-name                                    (.web) E cvda  ○1.3
MetaSuffix suffix                                  (.meta) E cvda  ○1.3
MimeMagicFile filename                                      E cv    ●1.3
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    ●1.3
ErrorDocument error-code {string|url}                       C cvda
UserDir {directory|DISABLED [user ...]|      (public_html) B cv    ○1.3
        ENABLED user ...}
Redirect [status] url-path url                              B cvda
RedirectMatch [status] url-regex dest-url                   B cv    ●1.3
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    ●1.3
AddHandler handler-name extension ...                       B cvda
RemoveHandler extension ...                                 B da    ●1.3
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    ●1.3
RewriteLog filename                                         E cv
RewriteLogLevel digit                                       E cv
```

RewriteMap *map-name map-type*:*map-source* — E cv — 1.3
RewriteOptions *option* — E cvda
RewriteRule *pattern substitution* [*flags*] — E cvda — 1.3

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 — 1.3
SetEnvIfNoCase *attribute regex var*[=*value*] ... — B cv — 1.3
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|Size|Description} — B cvda — 1.3
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 — 1.3

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

Access control directives

AccessFileName *filename* ... — (.htaccess) C cv — 1.3
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|mutual-failure} — (deny,allow) B da
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 — 1.3
AllowCONNECT *port* ... — (443 563) E cv — 1.3
ProxyBlock {*|*host*|*domain*} ... — E cv
ProxyDomain *domain-name* — E cv — 1.3
ProxyPass *path url* — E cv
ProxyPassReverse *path url* — E cv — 1.3
ProxyReceiveBufferSize *number-bytes* — E cv — 1.3
ProxyRemote *match remote-server* — E cv
ProxyRequests {On|Off} — (Off) E cv
ProxyVia {On|Off|Full|Block} — (Off) E cv — 1.3
CacheDefaultExpire *hours* — (1) E cv
CacheDirLength *number* — (1) E cv
CacheDirLevels *number* — (3) E cv
CacheForceCompletion *percentage-complete* — (90) E cv — 1.3
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
101 Switching protocols
200 OK
201 Created
202 Accepted
203 Non-authoritative information
204 No content
205 Reset content
206 Partial content
300 Multiple choices
301 Moved permanently
302 Moved temporarily
303 See other
304 Not modified
305 Use proxy
400 Bad request
401 Unauthorized
402 Payment required
403 Forbidden
404 Not found
405 Method not allowed
406 Not acceptable
407 Proxy authentication required
408 Request timeout
409 Conflict
410 Gone
411 Length required
412 Precondition failed
413 Request entity too large
414 Request-URI too long
415 Unsupported media type
500 Internal server error
501 Not implemented
502 Bad gateway
503 Service unavailable
504 Gateway timeout
505 HTTP version not supported

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.