RESOLV.CONF(5)

Linux Programmer's Manual

RESOLV.CONF(5)

NAME

resolv.conf - resolver configuration file

SYNOPSIS

/etc/resolv.conf

DESCRIPTION

The _____ is a set of routines in the C library that provide access to the Internet Domain Name System (DNS). The resolver configuration file contains information that is read by the resolver routines the first time they are invoked by a process. The file is designed to be human readable and contains a list of keywords with values that provide various types of resolver information.

If this file doesn't exist the only name server to be queried will be on the local machine; the domain name is determined from the host name and the domain search path is constructed from the domain name.

The different configuration options are:

nameserver Name server IP address

Internet address (in dot notation) of a name server that the resolver should query. Up to MAXNS (currently 3, see ______) name servers may be listed, one per keyword. If there are multiple servers, the resolver library queries them in the order listed. If no nameserver entries are present, the default is to use the name server on the local machine. (The algorithm used is to try a name server, and if the query times out, try the next, until out of name servers, then repeat trying all the name servers until a maximum number of retries are made.)

domain Local domain name.

Most queries for names within this domain can use short names relative to the local domain. If no domain entry is present, the domain is determined from the local host name returned by gethostname(3); the domain part is taken to be everything after the first '.'. Finally, if the host name does not contain a domain part, the root domain is assumed.

search Search list for host-name lookup.

The search list is normally determined from the local domain name; by default, it contains only the local domain name. This may be changed by listing the desired domain search path following the _____ keyword with spaces or tabs separating the names. Resolver queries having fewer than ____ dots (default is 1) in them will be attempted using each component of the search path in turn until a match is found. For environments with multiple subdomains please read options ndots:_ below to avoid man-in-the-middle attacks and unnecessary traffic for the root-dns-servers. Note that this process may be slow and will generate a lot of network traffic if the servers for the listed domains are

not local, and that queries will time out if no server is available for one of the domains.

The search list is currently limited to six domains with a total of 256 characters.

sortlist

Sortlist allows addresses returned by gethostbyname(3) to be sorted. A sortlist is specified by IP address netmask pairs. The netmask is optional and defaults to the natural netmask of the net. The IP address and optional network pairs are separated by slashes. Up to 10 pairs may be specified. E.g., sortlist 130.155.160.0/255.255.240.0 130.155.0.0

option

S	
	s allows certain internal resolver variables to be modi- The syntax is
	options
where	is one of the following:
debug	sets RES_DEBUG in
ndots:	sets a threshold for the number of dots which must appear in a name given to res_query(3) (see resolver(3)) before an will be made. The default for _ is 1, meaning that if there are any dots in a name, the name will be tried first as an absolute name before any elements are appended to it.
timeou	t:_ sets the amount of time the resolver will wait for a response from a remote name server before retrying the query via a different name server. Measured in seconds, the default is RES_TIMEOUT (currently 5, see).
attemp	ts:_ sets the number of times the resolver will send a query to its name servers before giving up and returning ar error to the calling application. The default is RES_DFLRETRY (currently 2, see).
rotate	sets RES_ROTATE in, which causes round robin selection of nameservers from among those listed. This has the effect of spreading the query load among all listed servers, rather than having all clients try the first listed server first every time.
	ck-names sets RES NOCHECKNAME in . which disables the

modern BIND checking of incoming host names and mail names for invalid characters such as underscore (), non-

ASCII, or control characters.

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in	of trying a ostbyname(3	a AAAA query before B) function, and eled form" if no AA	This has the efform an A query inside the ge of mapping IPv4 responses AA records are found but	th- in		
	Some progra	ams behave strangel	y when this option is tur	ned		
	The and keywords are mutually exclusive. If more than one instance of these keywords is present, the last instance wins.					
a per-pro	The keyword of a system's file can be overridden on a per-process basis by setting the environment variable LOCALDOMAIN to a space-separated list of search domains.					
per-proce	The keyword of a system's file can be amended on a per-process basis by setting the environment variable RES_OPTIONS to a space-separated list of resolver options as explained above under options.					
(e.g., na	The keyword and value must appear on a single line, and the keyword (e.g., nameserver) must start the line. The value follows the keyword, separated by white space.					
FILES	,					
SEE ALSO						
<pre>gethostbyname(3), resolver(3), hostname(7), named(8) Name Server Operations Guide for BIND</pre>						
COLOPHON						
descripti	on of the proj	ease 2.77 of the Li ject, and informati ernel.org/doc/man-p	on about reporting bugs,			
4th Berkeley Dis	tribution	2004-10-31	RESOLV.CONF	(5)		

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