NAME

makemap - create database maps for sendmail

SYNOPSIS

makemap [**-C** *file*] [**-N**] [**-c** *cachesize*] [**-d**] [**-D** *commentchar*] [**-e**] [**-f**] [**-l**] [**-o**] [**-r**] [**-s**] [**-t** *delim*] [**-u**] [**-v**] *maptype mapnam*

DESCRIPTION

Makemap creates the database maps used by the keyed map lookups in sendmail(8). It reads input from the standard input and outputs them to the indicated *mapname.*

Depending on how it is compiled, **makemap** handles different database formats, selected using the *maptype* parameter. They may be

dbm

    DBM format maps. This requires the ndbm(3) library.

btree

    B-Tree format maps. This requires the new Berkeley DB library.

hash

    Hash format maps. This also requires the Berkeley DB library.

cdb CDB (Constant DataBase) format maps. This requires the tinycdb library.

implicit

    The first available format in the following order: hash, dbm, and cdb.

In all cases, **makemap** reads lines from the standard input consisting of two words separated by white space. The first is the database key, the second is the value. The value may contain ''%n'' strings to indicate parameter substitution. Literal percents should be doubled (''%%''). Blank lines and lines beginning with ''#'' are ignored.

Notice: do **not** use **makemap** to create the aliases data base, but **newaliases** which puts a special token into the data base that is required by **sendmail.**

If the *TrustedUser* option is set in the sendmail configuration file and **makemap** is invoked as root, the generated files will be owned by the specified *TrustedUser.*

Flags

-C Use the specified **sendmail** configuration file for looking up the TrustedUser option.

-N Include the null byte that terminates strings in the map. This must match the -N flag in the sendmail.cf ''K'' line.

-c Use the specified hash and B-Tree cache size.

-D Use to specify the character to use to indicate a comment (which is ignored) instead of the default of '#'.

-d Allow duplicate keys in the map. This is only allowed on B-Tree format maps. If two identical keys are read, they will both be inserted into the map.

-e Allow empty value (right hand side).

-f Normally all upper case letters in the key are folded to lower case. This flag disables that behaviour. This is intended to mesh with the -f flag in the **K** line in sendmail.cf. The value is never case folded.

-l List supported map types.

-o Append to an old file. This allows you to augment an existing file. Note: this might not be supported by all database types, e.g., cdb.

-r Allow replacement of existing keys. Normally **makemap** complains if you repeat a key, and does not do the insert.

-s Ignore safety checks on maps being created. This includes checking for hard or symbolic links in world writable directories.

-t Use the specified delimiter instead of white space (also for dumping a map).

-u dump (unmap) the content of the database to standard output.

-v Verbosely print what it is doing.

Example
   makemap hash /etc/mail/access < /etc/mail/access

SEE ALSO

sendmail(8), newaliases(1)

HISTORY

The **makemap** command appeared in 4.4BSD.