NAME

makemap − create database maps for sendmail

SYNOPSIS

makemap [**−C** *file*] [**−N**] [**−c** *cachesize*] [**−d**] [**−e**] [**−f**] [**−l**] [**−o**] [**−r**] [**−s**] [**−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 up to three 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.

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.

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 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.

−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.

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

−v Verbosely print what it is doing.

SEE ALSO

sendmail(8)

HISTORY

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