

tcpserver

Command line parameters:
[-qQvdDoOpPhrR1]
[-climit] [-bbacklog]
[-xrules.cdb] [-ggid] [-uid]
[-llocalname] [-timeout]
host port program [arg ...]

Environment Variables:
none

Configuration files:
rules.cdb

qmail-smtpd

Command line parameters:
none

Environment Variables:
PROTO (TCP)
TCPLOCALHOST
TCPLOCALIP
TCPLOCALPORT
TCPREMOTEHOST
TCPREMOTEINFO
TCPREMOTEIP
TCPREMOTEPORT
RELAYCLIENT

Configuration files:
badmailfrom
databytes
localiphost (me)
rcpthosts
morercpthosts (cdb format)
smtpgreeting (me)
timeoutsmtpd (1200)

qmail-queue

Command line parameters:
none

Environment Variables:
none

Configuration files:
none

Exit codes:
0 success
11 address too long
51 out of memory
52 timeout
53 write error
54 read error
61 problem with qmail homedir
62 problem with queuedir
63 problem with queue/pid
64 problem with queue/mess
65 problem with queue/intd
66 problem with todo
81 internal bug, eg. segfault
91 envelope format error

qmail-rspawn

Command line parameters:
none

Environment Variables:
none

Configuration files:
none

Exit codes:
0 success
100 permanent error (bounce)
111 soft error (retry later)

qmail-remote

Command line parameters:
host
sender
recip [recip ...]

Environment Variables:
none

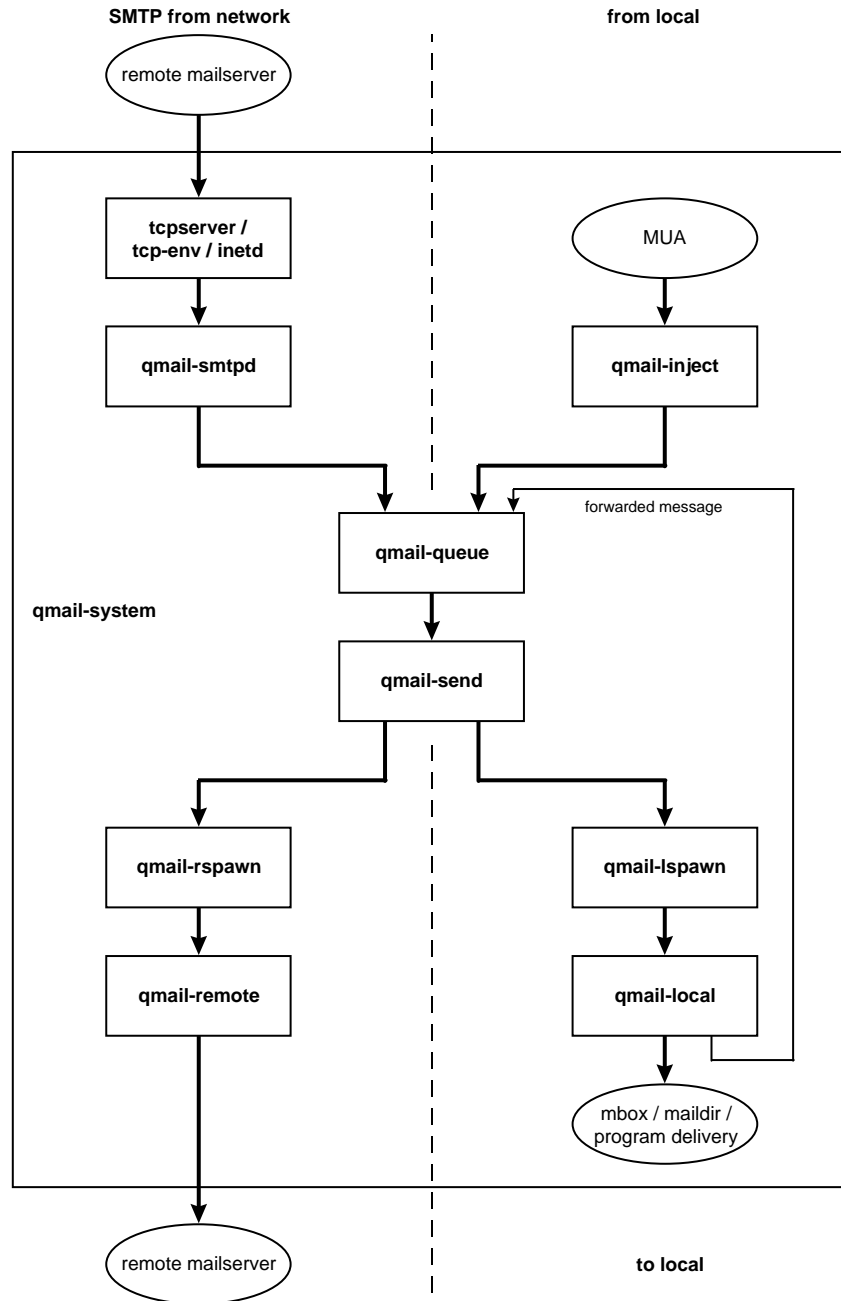
Configuration files:
helohost (me)
smtproutes
timeoutconnect (60)
timeoutremote (1200)

Exit codes:
always 0 and all errors come
back as clear text

THE BIG Qmail PICTURE

Version 1.03 for qmail 1.03

This picture is intended to give a broad overview of how all the small qmail programs fit together and to have a quick reference handy. The man pages of the programs give more information on how things are working in detail.



qmail-inject

Command line parameters:
[-nNaAhH]
[-sender]
recip

Environment Variables:
QMAILUSER
MAILUSER
USER
LOGNAME
QMAILHOST
MAILHOST
QMAILNAME
MAILNAME
NAME
QMAILINJECT
QMAILDEFAULTDOMAIN
QMAILDEFAULTHOST
QMAILIDHOST
QMAILPLUSDOMAIN

Configuration files:
defaultdomain (me)
defaulthost (me)
idhost (me)
plusdomain (me)

qmail-send

Command line parameters:
none

Environment Variables:
none

Configuration files:
bouncefrom (mailer-daemon)
bouncehost (me)
concurrencylocal (10)
concurrencyremote (20)
doublebouncehost (me)
doublebounceto (postmaster)
envnoathost (me)
locals (me)
percenthack
queuelifetime (604800)
virtualdomains

Remarks:
virtualdomains are handled
after locals

qmail-lspawn

Command line parameters:
aliasempty

Environment Variables:
none

Configuration files:
-users/cdb
-bin/qmail-getpw

Exit codes:
0 success
100 aliasempty missing
111 soft error (retry later)
Most errors come back as
clear text

qmail-local

Command line parameters:
[-nN]
user
homedir
local
dash
ext
domain
sender
aliasempty

Environment Variables:
none

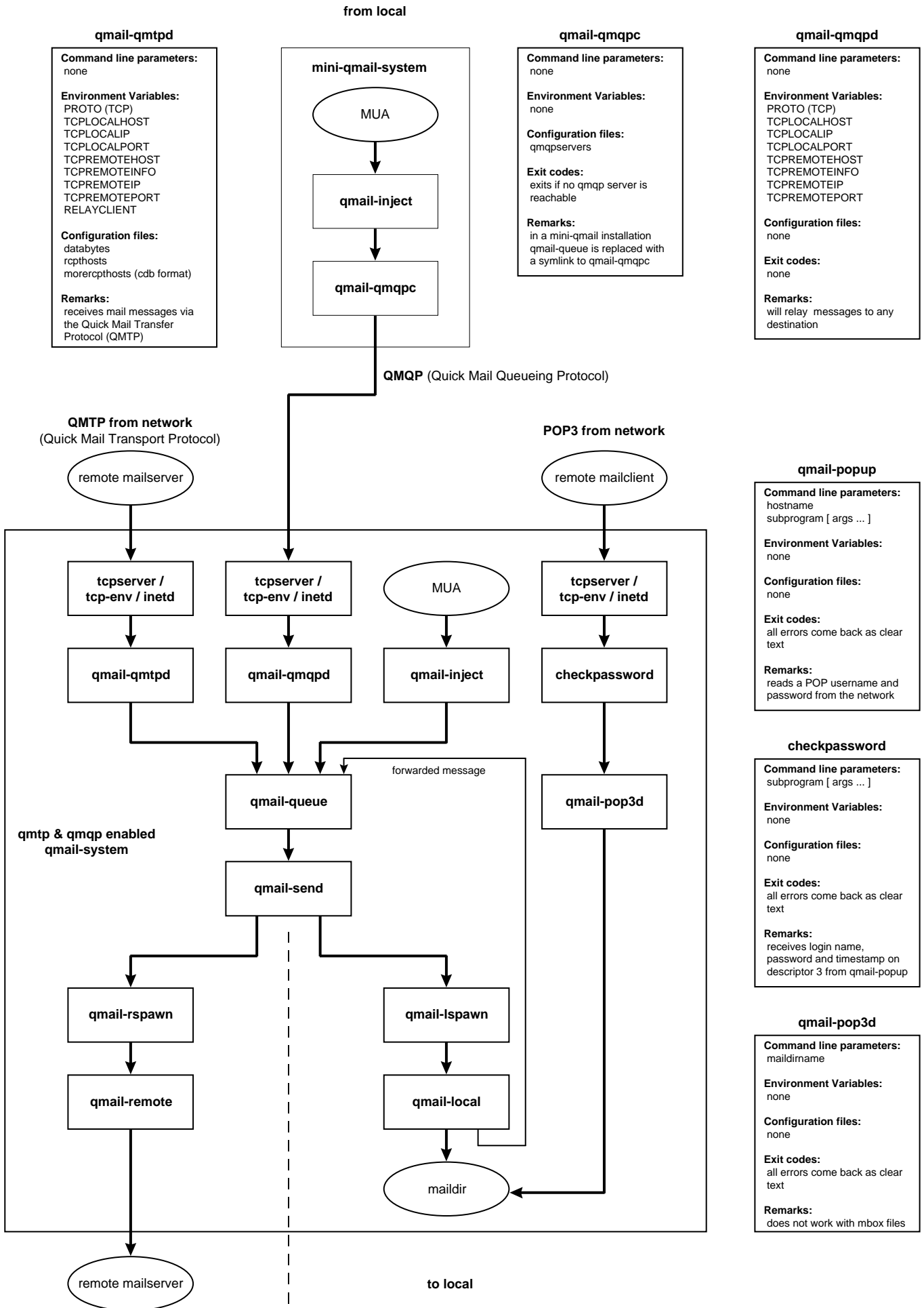
Configuration files:
-home/.qmail
-alias/.qmail

Exit codes:
0 success
1 fatal error
2 chdir error
3 SIGALRM
4 tryunlinktmp() error
100 permanent error (bounce)
111 soft error (retry later)
Most errors come back as
clear text

.qmail

Content:
#comment
|program to execute
&forwarding email address
./mailbox deliver to Mbox
./maildir/ deliver to Maildir

Exit codes of program:
0 success
99 success and abort .qmail
100 permanent error (bounce)
111 soft error (retry later)



dot-qmail programs

bouncesaying

Description:
bounce each incoming message (according to the exit value of [program])

Command line parameters:
in .qmail:
|bouncesaying
error
[program [arg ...]]

Environment Variables:
none

Configuration files:
none

Exit codes of program:
0 bounce and say error
111 soft error (retry later)
all other errors are ignored and the rest of .qmail will be processed as usual

condredirect

Description:
redirect message to another address according to the exit value of program

Command line parameters:
in .qmail:
|condredirect
newaddress
program [arg ...]

Environment Variables:
none

Configuration files:
none

Exit codes of program:
0 forward to newaddress
111 soft error (retry later)
all other errors are ignored and the rest of .qmail will be processed as usual

except

Description:
reverse the exit code of a program

Command line parameters:
in .qmail:
|except
program [arg ...]

Environment Variables:
none

Configuration files:
none

Exit codes of program:
0 except exits 100
111 soft error (retry later)
all other errors are ignored and the rest of .qmail will be processed as usual

forward

Description:
forward message to one or more addresses

Command line parameters:
in .qmail:
|forward
address ...

Environment Variables:
none

Configuration files:
none

Exit codes of program:
none

preline

Description:
prepend UUCP-style lines

Command line parameters:
in .qmail:
|preline
command
[-d] (no Delivered-To line)
[-f] (no From_ line)
[-r] (no Return-Path line)

Environment Variables:
none

Configuration files:
none

Exit codes of program:
none

Remarks:
is useful for procmail and ELM's filter

qbiff

Description:
announce new message the moment it arrives

Command line parameters:
in .qmail:
|qbiff

Environment Variables:
none

Configuration files:
none

Exit codes:
none

Remarks:
writes a message to your screen whenever a new message is delivered

qlist

Description:
handle mailing list subscription requests

Command line parameters:
in .qmail-list-request:
|qlist
read man page for details

Environment Variables:
none

Configuration files:
none

Exit codes:
none

Remarks:
read man page for details

greceipt

Description:
respond to delivery notice requests

Command line parameters:
in .qmail:
|greceipt
youraddress

Environment Variables:
none

Configuration files:
none

Exit codes:
none

Remarks:
sends a success notice back to the envelope sender

userland programs

maildirmake

Description:
creates a maildir structure

Command line parameters:
directory

Environment Variables:
none

Configuration files:
none

Exit codes:
none

maildirwatch

Description:
watch for new messages in a maildir

Command line parameters:
you have so set the environment

Environment Variables:
MAILDIR

Configuration files:
none

Exit codes:
none

Remarks:
prints a new mail summary twice per minute

maildir2mbox

Description:
moves messages from maildir to mbox format

Command line parameters:
you have so set the environment

Environment Variables:
MAILDIR
MAIL
MAILTMP

Configuration files:
none

Exit codes:
none

Remarks:
you should run only one maildir2mbox at a time

mailsubj

Description:
send a mail message with a subject line

Command line parameters:
subject
recip ...

Environment Variables:
none

Configuration files:
none

Exit codes:
none

Remarks:
reads the body of the message from its standard input

queue management

qmail-qstat

Description:
summarize status of mail queue

Command line parameters:
none

Environment Variables:
none

Configuration files:
none

Exit codes:
complains if there is a problem

Remarks:
must be run either as root or with gid qmail

qmail-qread

Description:
list outgoing messages and recipients

Command line parameters:
none

Environment Variables:
none

Configuration files:
none

Exit codes:
complains if there is a problem

Remarks:
must be run either as root or with uid qmails and gid qmail

qmail-tcpto

Description:
prints qmail-remote's current list of timeouts

Command line parameters:
none

Environment Variables:
none

Configuration files:
none

Exit codes:
complains if there is a problem

Remarks:
must be run either as root or with uid qmailr and gid qmail

qmail-tcpok

Description:
erases qmail-remote's current list of timeouts

Command line parameters:
none

Environment Variables:
none

Configuration files:
none

Exit codes:
complains if there is a problem

Remarks:
must be run either as root or with uid qmailr and gid qmail

Hint: to reschedule every message in the queue for immediate delivery, do a "kill -ALRM *pid*" on the qmail-send *pid*

user and system management

qmail-pw2u

Description:
build address assignments from a passwd file

Command line parameters:
[-/ohHuUC] [-cchar]

Environment Variables:
none

Configuration files:
~users/include
~users/exclude
~users/mailnames
~users/subusers
~users/append

Exit codes:
complains if there is a problem

Remarks:
generates ~users/assign

qmail-newu

Description:
prepare address assignments for qmail-lspawn

Command line parameters:
none

Environment Variables:
none

Configuration files:
~users/assign

Exit codes:
complains if there is a problem with ~users/assign qmail-newu

Remarks:
generates ~users/cdb

qmail-newmrh

Description:
prepare moreercpghosts for qmail-smtpd

Command line parameters:
none

Environment Variables:
none

Configuration files:
~control/moreercpghosts

Exit codes:
complains if there is a problem with control/moreercpghosts qmail-newmrh complains

Remarks:
generates ~control/moreercpghosts.cdb

qmail-showctl

Description:
analyze the qmail config files

Command line parameters:
none

Environment Variables:
none

Configuration files:
all

Exit codes:
complains if there is a problem

Remarks:
explains the current qmail configuration

other qmail daemons

qmail-start

Description:
turn on mail delivery

Command line parameters:
defaultdelivery
logger [args ...]

Environment Variables:
none

Configuration files:
none

Exit codes:
does not print anything, even on failure

Remarks:
make sure to clean up the environment before starting qmail

qmail-clean

Description:
clean up the queue directory

Command line parameters:
none

Environment Variables:
none

Configuration files:
none

Exit codes:
none

Remarks:
can only be started by qmail-start

splogger

Description:
reads a series of messages and feeds them to syslog

Command line parameters:
[tag [facility]]

Environment Variables:
none

Configuration files:
none

Exit codes:
complains if there is a problem

Remarks:
converts unprintable characters to question marks