

**NAME**

hold – zmailer deferred processing transport agent

**SYNOPSIS**

```
hold
    [-V] [-c channel]
```

**DESCRIPTION**

*hold* is a ZMailer transport agent which is usually only run by the *scheduler(8zm)* program to test conditions for reprocessing of previously deferred message addresses. The *hold* program must be run with the same current directory as the *scheduler*, namely *POSTOFFICE/transport*.

The program will interpret the host part of an address destined for its channel as a condition that must be met before the original address (in the user part) can be reprocessed by the router. The condition specification contains a general condition class name followed by colon followed by a parameter string. The currently supported condition classes are:

**ns** succeeds when the nameserver lookup indicated by the parameter does not produce a temporary nameserver error. The parameter is a domain name followed by a slash followed by a standard Internet nameserver Resource Record type name.

**timeout**

succeeds when the time given by the parameter (in normal seconds-since-epoch format) has passed.

**age** succeeds when message spool file is at least of given age. The interval can be given in complex '1d5h7m3s' -format.

**io** succeeds 10% of the time, to allow retry of temporary I/O failures.

**script** runs the named shell script with the optional given argument. The parameter is a simple name, the shell script name within the *MAILBIN/bin* directory, optionally followed by a slash followed by an argument to be passed to the shell script.

**home** This tries to locate home-directory for named user, and then tries to *stat()* the directory, until it succeeds.

For example:

```
NS:nic.ddn.mil/cname
TIMEOUT:649901432
AGE:2h
IO:error
SCRIPT:homedir/joe
HOME:joe
```

The condition class name is case-insensitive but is capitalized by convention. The parameter strings are case-preserved for condition class-specific interpretation. Whitespace is not permitted.

The envelope of the resubmitted message is created from the sender and (no longer deferred) recipient addresses, and a "via suspension" header.

**OPTIONS**

Options are:

–c *channel*

specifies which channel name should be keyed on. The default is **hold**.

–V prints a version message and exits.

**INTERFACE**

This program reads in processable file names relative to the current working directory of the scheduler (namely: *POSTOFFICE/transport/*). Optionally on the same line the scheduler may tell which host is to be looked for from the recipients of the message.

*relative-spool-path* [ <TAB> *hostname* ]

This program produces diagnostic output on the standard output. Normal diagnostic output is of the form:

*id/offset/status message*

where *id* is the inode number of the message file, *offset* is a byte offset within its control file where the address being reported on is kept, *status* is one of **ok**, **error**, or **deferred**, and the *message* is descriptive text associated with the report. The text is terminated by a linefeed. Any other format (as might be produced by subprocesses) is passed to standard output for logging in the **scheduler** log.

The exit status is a code from <**sysexits.h**>.

## ENVIRONMENT VARIABLES

### ZCONFIG

This environment variable is expected to be inherited from the *scheduler*(8zm), and it tells where scheduler's idea of *ZENV*-variables are located at.

## Z-ENVIRONMENT VARIABLES

Following *ZENV-variables* are used by the **hold** program:

PATH, ZCONFIG, MAILBIN, MAILSHARE

These four are passed onwards to script execution environment.

## FILES

*/opt/mail/zmailer.conf* (ZCONFIG)  
*/var/spool/postoffice* (POSTOFFICE)

## SEE ALSO

*scheduler*(8zm), *zmailer.conf*(5zm).

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