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Red Hat Enterprise Linux Release 9.2 Manual Pages on 'qsig.1p' command

\$ man qsig.1p

QSIG(1P) POSIX Programmer's Manual QSIG(1P)

PROLOG

This manual page is part of the POSIX Programmer's Manual. The Linux implementation of this interface may differ (consult the corresponding Linux manual page for details of Linux behavior), or the interface may not be implemented on Linux.

NAME

qsig ? signal batch jobs

SYNOPSIS

qsig [-s signal] job_identifier...

DESCRIPTION

To signal a batch job is to send a signal to the session leader of the batch job. A batch job is signaled by sending a request to the batch server that manages the batch job. The qsig utility is a user-accessible batch client that requests the signaling of a batch job.

The qsig utility shall signal those batch jobs for which a batch job_identifier is presented to the utility. The qsig utility shall not signal any batch jobs whose batch job_identifiers are not presented to the utility.

The qsig utility shall signal batch jobs in the order in which the corresponding batch job_identifiers are presented to the utility. If the qsig utility fails to process a batch job_identifier successfully, the utility shall proceed to process the remaining batch job_identifiers,

if any.

The `qsig` utility shall signal batch jobs by sending a `Signal Job Request` to the batch server that manages the batch job.

For each successfully processed batch `job_identifier`, the `qsig` utility shall have received a completion reply to each `Signal Job Request` sent to a batch server at the time the utility exits.

OPTIONS

The `qsig` utility shall conform to the Base Definitions volume of POSIX.1?2017, Section 12.2, Utility Syntax Guidelines.

The following option shall be supported by the implementation:

`-s signal` Define the signal to be sent to the batch job.

The `qsig` utility shall accept a `signal` option-argument that is either a symbolic signal name or an unsigned integer signal number (see the POSIX.1?1990 standard, Section 3.3.1.1).

The `qsig` utility shall accept signal names for which the `SIG` prefix has been omitted.

If the `signal` option-argument is a signal name, the `qsig` utility shall send that name.

If the `signal` option-argument is a number, the `qsig` utility shall send the signal value represented by the number.

If the `-s` option is not presented to the `qsig` utility, the utility shall send the signal `SIGTERM` to each signaled batch job.

OPERANDS

The `qsig` utility shall accept one or more operands that conform to the syntax for a batch `job_identifier` (see Section 3.3.1, Batch Job Identifier).

STDIN

Not used.

INPUT FILES

None.

ENVIRONMENT VARIABLES

The following environment variables shall affect the execution of `qsig`:

LANG Provide a default value for the internationalization variables that are unset or null. (See the Base Definitions volume of POSIX.1?2017, Section 8.2, Internationalization Variables: the precedence of internationalization variables used to determine the values of locale categories.)

LC_ALL If set to a non-empty string value, override the values of all the other internationalization variables.

LC_CTYPE Determine the locale for the interpretation of sequences of bytes of text data as characters (for example, single-byte as opposed to multi-byte characters in arguments).

LC_MESSAGES

Determine the locale that should be used to affect the format and contents of diagnostic messages written to standard error.

LOGNAME Determine the login name of the user.

ASYNCHRONOUS EVENTS

Default.

STDOUT

An implementation of the `qsig` utility may write informative messages to standard output.

STDERR

The standard error shall be used only for diagnostic messages.

OUTPUT FILES

None.

EXTENDED DESCRIPTION

None.

EXIT STATUS

The following exit values shall be returned:

0 Successful completion.

>0 An error occurred.

CONSEQUENCES OF ERRORS

In addition to the default behavior, the `qsig` utility shall not be required to write a diagnostic message to standard error when the error

reply received from a batch server indicates that the batch job_identifier does not exist on the server. Whether or not the qsig utility waits to output the diagnostic message while attempting to locate the batch job on other servers is implementation-defined.

The following sections are informative.

APPLICATION USAGE

None.

EXAMPLES

None.

RATIONALE

The qsig utility allows users to signal batch jobs.

A user may be unable to signal a batch job with the kill utility of the operating system for a number of reasons. First, the process ID of the batch job may be unknown to the user. Second, the processes of the batch job may be on a remote node. However, by virtue of communication between batch nodes, the qsig utility can arrange for the signaling of a process.

Because a batch job that is not running cannot be signaled, and because the signal may not terminate the batch job, the qsig utility is not a substitute for the qdel utility.

The options of the qsig utility allow the user to specify the signal that is to be sent to the batch job.

The -s option allows users to specify a signal by name or by number, and thus override the default signal. The POSIX.1?1990 standard defines signals by both name and number.

The qsig utility is a new utility, vis-a-vis existing practice; it has been defined in this volume of POSIX.1?2017 in response to user-perceived shortcomings in existing practice.

FUTURE DIRECTIONS

The qsig utility may be removed in a future version.

SEE ALSO

Chapter 3, Batch Environment Services, kill, qdel

The Base Definitions volume of POSIX.1?2017, Chapter 8, Environment

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