

## NAME

**pmc\_configure\_logfile**, **pmc\_flush\_logfile**, **pmc\_writelog**, **pmc\_close\_logfile** - log file management

## LIBRARY

Performance Counters Library (libpmc, -lpmc)

## SYNOPSIS

```
#include <pmc.h>
```

*int*

```
pmc_configure_logfile(int fd);
```

*int*

```
pmc_flush_logfile(void);
```

*int*

```
pmc_writelog(uint32_t userdata);
```

*int*

```
pmc_close_logfile(void);
```

## DESCRIPTION

The functions manage logging of hwpmc(4) events.

Function **pmc\_configure\_logfile()** is used to turn on and turn off logging. If argument *fd* is a valid file handle returned by a prior call to `open(2)` or `socket(2)` then performance events will be logged to the file corresponding to the specified handle. If the value of argument *fd* is -1 then logging will be stopped after any pending data is flushed.

Function **pmc\_flush\_logfile()** will force all log data queued inside the hwpmc(4) driver to be written out.

Function **pmc\_writelog()** will append a log entry containing the value of argument *userdata* to the log file.

Function **pmc\_close\_logfile()** will flush all pending log data and close hwpmc(4)'s side of the stream.

## RETURN VALUES

Upon successful completion, the value 0 is returned; otherwise the value -1 is returned and the global variable *errno* is set to indicate the error.

## ERRORS

A call to **pmc\_configure\_logfile()** may fail with the following errors:

- [EAGAIN]           The hwpmc(4) driver was not able to create a helper process due to system limits being reached.
- [EBUSY]            Function **pmc\_configure\_logfile()** was called with a log file already configured.
- [EINVAL]           Function **pmc\_configure\_logfile()** was called with an argument of -1 without a log file being previously configured.
- [ENOMEM]           The system encountered a memory shortage when servicing this request.

A call to **pmc\_flush\_logfile()** may fail with the following errors:

- [EINVAL]           Function **pmc\_flush\_logfile()** was called without a log file being previously configured.

A call to **pmc\_writelog()** may fail with the following errors:

- [EINVAL]           Function **pmc\_writelog()** was called without a log file being previously configured.
- [ENOMEM]           The system encountered a memory shortage when servicing this request.

## SEE ALSO

pmc(3), hwpmc(4)