

**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 <b>pmc_configure_logfile()</b> was called with a log file already configured.                                    |
| [EINVAL] | Function <b>pmc_configure_logfile()</b> 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 <b>pmc_flush_logfile()</b> was called without a log file being previously configured. |
|----------|--|

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

- |          |   |
|----------|---|
| [EINVAL] | Function <b>pmc_writelog()</b> 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)