

**NAME**

**kinfo\_getfile** - function for getting per-process file descriptor information

**LIBRARY**

System Utilities Library (libutil, -lutil)

**SYNOPSIS**

```
#include <sys/types.h>
```

```
#include <sys/user.h>
```

```
#include <libutil.h>
```

```
struct kinfo_file *
```

```
kinfo_getfile(pid_t pid, int *cntp);
```

**DESCRIPTION**

This function is used for obtaining the file descriptor information of a particular process.

The *pid* field contains the process identifier. This should be the a process that you have privilege to access. The *cntp* field allows the caller to know how many records are returned.

This function is a wrapper around `sysctl(3)` with the `KERN_PROC_FILEDESC` mib. While the kernel returns a packed structure, this function expands the data into a fixed record format.

**RETURN VALUES**

On success the `kinfo_getfile()` function returns a pointer to an array of `struct kinfo_file` structures as defined by `<sys/user.h>`. The array was obtained by an internal call to `malloc(3)` and must be freed by the caller with a call to `free(3)`. On failure the `kinfo_getfile()` function returns `NULL`.

**SEE ALSO**

`free(3)`, `kinfo_getvmmap(3)`, `malloc(3)`, `sysctl(3)`

**HISTORY**

The `kinfo_getfile()` function first appeared in FreeBSD 7.0.