

explain\_shmat\_or\_die(3)

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**NAME**

explain\_shmat\_or\_die – shared memory attach and report errors

**SYNOPSIS**

#include &lt;libexplain/shmat.h&gt;

void \*explain\_shmat\_or\_die(int shmid, const void \*shmaddr, int shmflg);

void \*explain\_shmat\_on\_error(int shmid, const void \*shmaddr, int shmflg);

**DESCRIPTION**

The **explain\_shmat\_or\_die** function is used to call the *shmat*(2) system call. On failure an explanation will be printed to *stderr*, obtained from the *explain\_shmat*(3) function, and then the process terminates by calling `exit(EXIT_FAILURE)`.

The **explain\_shmat\_on\_error** function is used to call the *shmat*(2) system call. On failure an explanation will be printed to *stderr*, obtained from the *explain\_shmat*(3) function, but still returns to the caller.

*shmid* The shmid, exactly as to be passed to the *shmat*(2) system call.

*shmaddr* The shmaddr, exactly as to be passed to the *shmat*(2) system call.

*shmflg* The shmflg, exactly as to be passed to the *shmat*(2) system call.

**RETURN VALUE**

The **explain\_shmat\_or\_die** function only returns on success, see *shmat*(2) for more information. On failure, prints an explanation and exits, it does not return.

The **explain\_shmat\_on\_error** function always returns the value return by the wrapped *shmat*(2) system call.

**EXAMPLE**

The **explain\_shmat\_or\_die** function is intended to be used in a fashion similar to the following example:

```
void *result = explain_shmat_or_die(shmid, shmaddr, shmflg);
```

**SEE ALSO***shmat*(2)

shared memory attach

*explain\_shmat*(3)explain *shmat*(2) errors*exit*(2)

terminate the calling process

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