

NAME

sysdecode_enum, **sysdecode_acltype**, **sysdecode_atfd**, **sysdecode_extattrnamespace**, **sysdecode_fadvice**, **sysdecode_fcntl_cmd**, **sysdecode_getfsstat_mode**, **sysdecode_getrusage_who**, **sysdecode_idtype**, **sysdecode_ipproto**, **sysdecode_itimer**, **sysdecode_kldsym_cmd**, **sysdecode_kldunload_flags**, **sysdecode_lio_listio_mode**, **sysdecode_madvise**, **sysdecode_minherit_flags**, **sysdecode_msgctl_cmd**, **sysdecode_nfssvc_flags**, **sysdecode_pathconf_name**, **sysdecode_prio_which**, **sysdecode_procctl_cmd**, **sysdecode_ptrace_request**, **sysdecode_rlimit**, **sysdecode_rtprio_function**, **sysdecode_scheduler_policy**, **sysdecode_sctp_pr_policy**, **sysdecode_sctp_sinfo_flags**, **sysdecode_semctl_cmd**, **sysdecode_shmctl_cmd**, **sysdecode_shutdown_how**, **sysdecode_sigbus_code**, **sysdecode_sigchld_code**, **sysdecode_sigfpe_code**, **sysdecode_sigill_code**, **sysdecode_signal**, **sysdecode_sigprocmask_how**, **sysdecode_sigsegv_code**, **sysdecode_sigtrap_code**, **sysdecode_sockaddr_family**, **sysdecode_socketdomain**, **sysdecode_sockettype**, **sysdecode_sockopt_level**, **sysdecode_sysarch_number**, **sysdecode_umtx_op**, **sysdecode_vmresult**, **sysdecode_whence** - lookup name of various enumerated values

LIBRARY

System Argument Decoding Library (libsysdecode, -lsysdecode)

SYNOPSIS

```
#include <sysdecode.h>
```

```
const char *
```

```
sysdecode_acltype(int type);
```

```
const char *
```

```
sysdecode_atfd(int fd);
```

```
const char *
```

```
sysdecode_extattrnamespace(int namespace);
```

```
const char *
```

```
sysdecode_fadvice(int advice);
```

```
const char *
```

```
sysdecode_fcntl_cmd(int cmd);
```

```
const char *
```

```
sysdecode_getfsstat_mode(int mode);
```

```
const char *
```

sysdecode_getrusage_who(*int who*);

*const char **

sysdecode_idtype(*int idtype*);

*const char **

sysdecode_ipproto(*int protocol*);

*const char **

sysdecode_itymer(*int which*);

*const char **

sysdecode_kldsym_cmd(*int cmd*);

*const char **

sysdecode_kldunload_flags(*int flags*);

*const char **

sysdecode_lio_listio_mode(*int mode*);

*const char **

sysdecode_madvise(*int advice*);

*const char **

sysdecode_minherit_flags(*int inherit*);

*const char **

sysdecode_msgctl_cmd(*int cmd*);

*const char **

sysdecode_nfssvc_flags(*int flags*);

*const char **

sysdecode_pathconf_name(*int name*);

*const char **

sysdecode_prio_which(*int which*);

*const char **

sysdecode_procctl_cmd(*int cmd*);

*const char **
sysdecode_ptrace_request(*int request*);

*const char **
sysdecode_rlimit(*int resource*);

*const char **
sysdecode_rtprio_function(*int function*);

*const char **
sysdecode_scheduler_policy(*int policy*);

*const char **
sysdecode_sctp_pr_policy(*int policy*);

*const char **
sysdecode_semctl_cmd(*int cmd*);

*const char **
sysdecode_shmctl_cmd(*int cmd*);

*const char **
sysdecode_shutdown_how(*int how*);

*const char **
sysdecode_sibus_code(*int si_code*);

*const char **
sysdecode_sigchld_code(*int si_code*);

*const char **
sysdecode_sigfpe_code(*int si_code*);

*const char **
sysdecode_sigill_code(*int si_code*);

*const char **
sysdecode_signal(*int sig*);

*const char **

sysdecode_sigprocmask_how(*int how*);

*const char **

sysdecode_sigsegv_code(*int si_code*);

*const char **

sysdecode_sigtrap_code(*int si_code*);

*const char **

sysdecode_sockaddr_family(*int sa_family*);

*const char **

sysdecode_socketdomain(*int domain*);

*const char **

sysdecode_sockettype(*int type*);

*const char **

sysdecode_sockopt_level(*int level*);

*const char **

sysdecode_sysarch_number(*int number*);

*const char **

sysdecode_umtx_op(*int op*);

*const char **

sysdecode_vmresult(*int result*);

*const char **

sysdecode_whence(*int whence*);

DESCRIPTION

The **sysdecode_enum** functions return a text description of an integer value. The text description matches the name of a C macro with the same value as the sole function argument. NULL is returned if there is no matching C macro name.

Most of these functions decode an argument passed to a system call:

Function	System Call	Argument
----------	-------------	----------

sysdecode_acltype()	acl_get_file(3)	<i>type</i>
sysdecode_atfd()	openat(2)	<i>fd</i>
sysdecode_extattrnamespace()	extattr_get_fd(2)	<i>attrnamespace</i>
sysdecode_fadvice()	posix_fadvise(2)	<i>advice</i>
sysdecode_fcntl_cmd()	fcntl(2)	<i>cmd</i>
sysdecode_getfsstat_mode()	getfsstat(2)	<i>mode</i>
sysdecode_idtype()	procctl(2), waitid(2)	<i>idtype</i>
sysdecode_itimer()	getitimer(2), setitimer(2)	<i>which</i>
sysdecode_kldsym_cmd()	kldsym(2)	<i>cmd</i>
sysdecode_kldunload_flags()	kldunloadf(2)	<i>flags</i>
sysdecode_lio_listio_mode()	lio_listio(2)	<i>mode</i>
sysdecode_madvise()	madvise(2)	<i>advice</i>
sysdecode_minherit_inherit()	minherit(2)	<i>inherit</i>
sysdecode_msgctl_cmd()	msgctl(2)	<i>cmd</i>
sysdecode_nfssvc_flags()	nfssvc(2)	<i>flags</i>
sysdecode_pathconf_name()	pathconf(2)	<i>name</i>
sysdecode_prio_which()	getpriority(2)	<i>which</i>
sysdecode_procctl_cmd()	procctl(2)	<i>cmd</i>
sysdecode_ptrace_request()	ptrace(2)	<i>request</i>
sysdecode_rlimit()	getrlimit(2)	<i>resource</i>
sysdecode_rtprio_function()	rtprio(2)	<i>function</i>
sysdecode_getrusage_who()	getrusage(2)	<i>who</i>
sysdecode_scheduler_policy()	sched_setscheduler(2)	<i>policy</i>
sysdecode_semctl_cmd()	semctl(2)	<i>cmd</i>
sysdecode_shmctl_cmd()	shmctl(2)	<i>cmd</i>
sysdecode_shutdown_how()	shutdown(2)	<i>how</i>
sysdecode_sigprocmask_how()	sigprocmask(2)	<i>how</i>
sysdecode_sockopt_level()	getsockopt(2)	<i>level</i>
sysdecode_sysarch_number()	sysarch(2)	<i>number</i>
sysdecode_umtx_op()	_umtx_op(2)	<i>op</i>
sysdecode_whence()	lseek(2)	<i>whence</i>

These functions decode signal-specific signal codes stored in the *si_code* field of the *siginfo_t* object associated with an instance of signal:

Function	Signal
sysdecode_sigbus_code()	SIGBUS
sysdecode_sigchld_code()	SIGCHLD
sysdecode_sigfpe_code()	SIGFPE
sysdecode_sigill_code()	SIGILL

sysdecode_sigsegv_code() SIGSEGV
sysdecode_sigtrap_code() SIGTRAP

Other functions decode the values described below:

sysdecode_ipproto() An IP protocol.

sysdecode_sctp_pr_policy() A PR-SCTP policy.

sysdecode_signal() A process signal.

sysdecode_sockaddr_family() A socket address family.

sysdecode_socketdomain() A socket domain.

sysdecode_vmresult() The return value of a function in the virtual memory subsystem of the kernel indicating the status of the associated request.

RETURN VALUES

The **sysdecode_enum** functions return the name of a matching C macro or NULL if no matching C macro was found.

SEE ALSO

sysdecode(3), sysdecode_mask(3), sysdecode_sigcode(3)