



man pages section 3: Library Interfaces and Headers

Sun Microsystems, Inc.
4150 Network Circle
Santa Clara, CA 95054
U.S.A.

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Preface

Both novice users and those familiar with the SunOS operating system can use online man pages to obtain information about the system and its features. A man page is intended to answer concisely the question "What does it do?" The man pages in general comprise a reference manual. They are not intended to be a tutorial.

Overview

The following contains a brief description of each man page section and the information it references:

- Section 1 describes, in alphabetical order, commands available with the operating system.
- Section 1M describes, in alphabetical order, commands that are used chiefly for system maintenance and administration purposes.
- Section 2 describes all of the system calls. Most of these calls have one or more error returns. An error condition is indicated by an otherwise impossible returned value.
- Section 3 describes functions found in various libraries, other than those functions that directly invoke UNIX system primitives, which are described in Section 2.
- Section 4 outlines the formats of various files. The C structure declarations for the file formats are given where applicable.
- Section 5 contains miscellaneous documentation such as character-set tables.
- Section 6 contains available games and demos.
- Section 7 describes various special files that refer to specific hardware peripherals and device drivers. STREAMS software drivers, modules and the STREAMS-generic set of system calls are also described.

- Section 9 provides reference information needed to write device drivers in the kernel environment. It describes two device driver interface specifications: the Device Driver Interface (DDI) and the Driver/Kernel Interface (DKI).
- Section 9E describes the DDI/DKI, DDI-only, and DKI-only entry-point routines a developer can include in a device driver.
- Section 9F describes the kernel functions available for use by device drivers.
- Section 9S describes the data structures used by drivers to share information between the driver and the kernel.

Below is a generic format for man pages. The man pages of each manual section generally follow this order, but include only needed headings. For example, if there are no bugs to report, there is no BUGS section. See the *intro* pages for more information and detail about each section, and *man(1)* for more information about man pages in general.

NAME	This section gives the names of the commands or functions documented, followed by a brief description of what they do.
SYNOPSIS	This section shows the syntax of commands or functions. When a command or file does not exist in the standard path, its full path name is shown. Options and arguments are alphabetized, with single letter arguments first, and options with arguments next, unless a different argument order is required.
The following special characters are used in this section:	
[]	Brackets. The option or argument enclosed in these brackets is optional. If the brackets are omitted, the argument must be specified.
. . .	Ellipses. Several values can be provided for the previous argument, or the previous argument can be specified multiple times, for example, "filename . . .".
	Separator. Only one of the arguments separated by this character can be specified at a time.
{ }	Braces. The options and/or arguments enclosed within braces are interdependent, such that everything enclosed must be treated as a unit.

PROTOCOL	This section occurs only in subsection 3R to indicate the protocol description file.
DESCRIPTION	This section defines the functionality and behavior of the service. Thus it describes concisely what the command does. It does not discuss OPTIONS or cite EXAMPLES. Interactive commands, subcommands, requests, macros, and functions are described under USAGE.
IOCTL	This section appears on pages in Section 7 only. Only the device class that supplies appropriate parameters to the <code>ioctl(2)</code> system call is called <code>ioctl</code> and generates its own heading. <code>ioctl</code> calls for a specific device are listed alphabetically (on the man page for that specific device). <code>ioctl</code> calls are used for a particular class of devices all of which have an <code>io</code> ending, such as <code>mt io(7I)</code> .
OPTIONS	This section lists the command options with a concise summary of what each option does. The options are listed literally and in the order they appear in the SYNOPSIS section. Possible arguments to options are discussed under the option, and where appropriate, default values are supplied.
OPERANDS	This section lists the command operands and describes how they affect the actions of the command.
OUTPUT	This section describes the output – standard output, standard error, or output files – generated by the command.
RETURN VALUES	If the man page documents functions that return values, this section lists these values and describes the conditions under which they are returned. If a function can return only constant values, such as 0 or -1, these values are listed in tagged paragraphs. Otherwise, a single paragraph describes the return values of each function. Functions declared void do not return values, so they are not discussed in RETURN VALUES.
ERRORS	On failure, most functions place an error code in the global variable <code>errno</code> indicating why they failed. This section lists alphabetically all error codes a function can generate and describes the conditions that cause each error. When more than

one condition can cause the same error, each condition is described in a separate paragraph under the error code.

USAGE

This section lists special rules, features, and commands that require in-depth explanations. The subsections listed here are used to explain built-in functionality:

Commands
Modifiers
Variables
Expressions
Input Grammar

EXAMPLES

This section provides examples of usage or of how to use a command or function. Wherever possible a complete example including command-line entry and machine response is shown. Whenever an example is given, the prompt is shown as `example%`, or if the user must be superuser, `example#`. Examples are followed by explanations, variable substitution rules, or returned values. Most examples illustrate concepts from the SYNOPSIS, DESCRIPTION, OPTIONS, and USAGE sections.

ENVIRONMENT VARIABLES

This section lists any environment variables that the command or function affects, followed by a brief description of the effect.

EXIT STATUS

This section lists the values the command returns to the calling program or shell and the conditions that cause these values to be returned. Usually, zero is returned for successful completion, and values other than zero for various error conditions.

FILES

This section lists all file names referred to by the man page, files of interest, and files created or required by commands. Each is followed by a descriptive summary or explanation.

ATTRIBUTES

This section lists characteristics of commands, utilities, and device drivers by defining the attribute type and its corresponding value. See `attributes(5)` for more information.

SEE ALSO

This section lists references to other man pages, in-house documentation, and outside publications.

DIAGNOSTICS	This section lists diagnostic messages with a brief explanation of the condition causing the error.
WARNINGS	This section lists warnings about special conditions which could seriously affect your working conditions. This is not a list of diagnostics.
NOTES	This section lists additional information that does not belong anywhere else on the page. It takes the form of an aside to the user, covering points of special interest. Critical information is never covered here.
BUGS	This section describes known bugs and, wherever possible, suggests workarounds.

Introduction

Intro(3)

	NAME	Intro – introduction to functions and libraries
	DESCRIPTION	This section describes functions found in various Solaris libraries, other than those functions described in Section 2 of this manual that directly invoke UNIX system primitives. Function declarations can be obtained from the #include files indicated on each page. Pages are grouped by library and are identified by the library name (or an abbreviation of the library name) after the section number. Collections of related libraries are grouped into five volumes as described below. A sixth volume (listed first) contains pages describing the contents of each shared library and each header used by the functions, macros, and external variables described in the remaining five volumes.
Library Interfaces and Headers		This volume describes the contents of each shared library and each header used by functions, macros, and external variables described in the remaining five volumes.
	(3LIB)	The libraries described in this section are implemented as shared objects. Descriptions of shared objects may include a definition of the global symbols that define the shared objects' public interface, for example SUNW_1.1. Other interfaces may exist within the shared object, for example SUNW_private.1.1. The public interface provides a stable, committed set of symbols for application development. The private interfaces are for internal use only, and may change at any time. For many shared objects, an archive library is provided for backward compatibility on 32-bit systems only. Use of these libraries may restrict an application's ability to migrate between different Solaris releases. As dynamic linking is the preferred compilation method on Solaris, the use of these libraries is discouraged.
	(3LIBUCB)	The SunOS/BSD Compatibility libraries described in this section are implemented as a shared object. See (3LIB) above.
	(3HEAD)	The headers described in this section are used by functions, macros, and external variables. Headers contain function prototypes, definitions of symbolic constants, common structures, preprocessor macros, and defined types. Each function described in the remaining five volumes specifies the headers that an application must include in order to use that function. In most cases only one header is required. These headers are present on an application development system; they do not have to be present on the target execution system.
Basic Library Functions		The functions described in this volume are the core C library functions that are basic to application development.
	(3C)	These functions, together with those of Section 2, constitute the standard C library, libc, which is automatically linked by the C

		compilation system. The standard C library is implemented as a shared object, <code>libc.so</code> , and as an archive, <code>libc.a</code> . C programs are linked with the shared object version of the standard C library by default. Specify <code>-Bstatic</code> or <code>-dn</code> on the <code>cc</code> command line to link with the archive version. See <code>libc(3LIB)</code> , <code>cc(1B)</code> for other overrides, and the “C Compilation System” chapter of the <i>ANSI C Programmer’s Guide</i> for a discussion. Some functions behave differently in standard-conforming environments. This behavior is noted on the individual manual pages. See <code>standards(5)</code> .
(3DL)		These functions constitute the dynamic linking library, <code>libdl</code> . This library is implemented as a shared object, <code>libdl.so</code> , but is not automatically linked by the C compilation system. Specify <code>-ldl</code> on the <code>cc</code> command line to link with this library. See <code>libdl(3LIB)</code> .
(3MALLOC)		These functions constitute the various memory allocation libraries: <code>libmalloc</code> , <code>libbsdmalloc</code> , <code>libmapmalloc</code> , <code>libmtmalloc</code> , and <code>libumem</code> . Each of these libraries is implemented as a shared object (<code>libmalloc.so</code> , <code>libbsdmalloc.so</code> , <code>libmapmalloc.so</code> , <code>libmtmalloc.so</code> , and <code>libumem.so</code>) and <code>libmalloc</code> , <code>libbsdmalloc</code> , and <code>libmapmalloc</code> are implemented as archives (<code>libmalloc.a</code> , <code>libbsdmalloc.a</code> , and <code>libmapmalloc.a</code>). These libraries are not automatically linked by the C compilation system. Specify <code>-lmalloc</code> , <code>-lbsdmalloc</code> , <code>-lmapmalloc</code> , <code>-lmtmalloc</code> , and <code>-lumem</code> to link with, respectively, <code>libmalloc</code> , <code>libbsdmalloc</code> , <code>libmapmalloc</code> , <code>libmtmalloc</code> , and <code>libumem</code> . See <code>libmalloc(3LIB)</code> , <code>libbsdmalloc(3LIB)</code> , <code>libmapmalloc(3LIB)</code> , <code>libmtmalloc(3LIB)</code> , and <code>libumem(3LIB)</code> .
(3UCB)		These functions constitute the Source Compatibility (with BSD functions) library. It is implemented as a shared object, <code>libucb.so</code> , and as an archive, <code>libucb.a</code> , but is not automatically linked by the C compilation system. Specify <code>-lucb</code> on the <code>cc</code> command line to link with this library, which is located in the <code>/usr/ucb</code> subdirectory. Headers for this library are located within <code>/usr/ucbinclude</code> . See <code>libucb(3LIBUCB)</code> .
Networking Library Functions	The functions described in this volume comprise the various networking libraries.	
(3GSS)	The functions in this library are the routines that comprise the Generic Security Services API library. This library is implemented as a shared object, <code>libgss.so.1</code> , but it is not automatically linked by the C compilation system. Specify <code>-lgss</code> on the <code>cc</code> command line to link with this library. See <code>libgss(3LIB)</code> .	
(3LDAP)	These functions constitute the Lightweight Directory Access Protocol library, <code>libldap</code> . This library is implemented as a shared object, <code>libldap.so</code> , but is not automatically linked by the C	

Intro(3)

	compilation system. Specify -lldap on the cc command line to link with this library. See ldap(3LDAP).
(3NSL)	These functions constitute the Network Service Library, libnsl. This library is implemented as a shared object, libnsl.so, and as an archive, libnsl.a, but is not automatically linked by the C compilation system. Specify -lnsl on the cc command line to link with this library. See libnsl(3LIB).
	Many base networking functions are also available in the X/Open Networking Interfaces library, libxnet. See section (3XNET) below for more information on the libxnet interfaces.
(3RAC)	These functions constitute the remote asynchronous calls library, librac. This library is implemented as a shared object, librac.so, and as an archive, librac.a, but is not automatically linked by the C compilation system. Specify -lrac on the cc command line to link with this library. See librac(3LIB).
(3RESOLV)	These functions constitute the resolver library, libresolv. This library is implemented as a shared object, libresolv.so, and as an archive, libresolv.a, but is not automatically linked by the C compilation system. Specify -lresolv on the cc command line to link with this library. See libresolv(3LIB).
(3RPC)	These functions constitute the remote procedure call libraries, librpcsvc and librpcsoc. The latter is provided for compatibility only; new applications should not link to it. Both libraries are implemented as shared objects, librpcsvc.so and librpcsoc.so, respectively, and librpcsvc is implemented as an archive, librpcsvc.a. Neither library is automatically linked by the C compilation system. Specify -lrpcsvc or -lrpcsoc on the cc command line to link with these libraries. See librpcsvc(3LIB) and librpcsoc(3LIBUCB).
(3SLP)	These functions constitute the Service Location Protocol library, libslp. This library is implemented as a shared object, libslp.so.1, but it is not automatically linked by the C compilation system. See libslp(3LIB)
(3SOCKET)	These functions constitute the sockets library, libsocket. This library is implemented as a shared object, libsocket.so, and as an archive, libsocket.a, but is not automatically linked by the C compilation system. Specify -lsocket on the cc command line to link with this library. See libsocket(3LIB).
(3XFN)	These functions constitute the X/Open Federated Naming library, libxfn. This library is implemented as a shared object, libxfn.so, but is not automatically linked by the C compilation

system. Specify `-lxfn` on the `cc` command line to link with this library. See `libxfn(3LIB)`, `xfn(3XFN)`, `fns(5)`, and `standards(5)`.

(3XNET)

These functions constitute X/Open networking interfaces which comply with the X/Open CAE Specification, Networking Services, Issue 4 (September, 1994). This library is implemented as a shared object, `libxnet.so`, but is not automatically linked by the C compilation system. Specify `-lxnet` on the `cc` command line to link with this library. See `libxnet(3LIB)` and `standards(5)` for compilation information.

Under all circumstances, the use of the Sockets API is recommended over the XTI and TLI APIs. If portability to other XPGV4v2 (see `standards(5)`) systems is a requirement, the application must use the `libxnet` interfaces. If portability is not required, the sockets interfaces in `libsocket` and `libns1` are recommended over those in `libxnet`. Between the XTI and TLI APIs, the XTI interfaces (available with `libxnet`) are recommended over the TLI interfaces (available with `libns1`).

Curses Library Functions

The functions described in this volume comprise the libraries that provide graphics and character screen updating capabilities.

(3CURSES)

The functions constitute the following libraries:

libcurses

These functions constitute the curses library, `libcurses`. This library is implemented as a shared object, `libcurses.so`, and as an archive, `libcurses.a`, but is not automatically linked by the C compilation system. Specify `-lcurses` on the `cc` command line to link with this library. See `libcurses(3LIB)`.

libform

These functions constitute the forms library, `libform`. This library is implemented as a shared object, `libform.so`, and as an archive, `libforms.a`, but is not automatically linked by the C compilation system. Specify `-lform` on the `cc` command line to link with this library. See `libform(3LIB)`.

libmenu

These functions constitute the menus library, `libmenu`. This library is implemented as a shared object, `libmenu.so`, and as an archive, `libmenu.a`, but is not automatically linked by the C compilation system. Specify `-lmenu` on the `cc` command line to link with this library. See `libmenu(3LIB)`.

libpanel

These functions constitute the panels library, `libpanel`. This library is implemented as a

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		shared object, <code>libpanel.so</code> , and as an archive, <code>libpanel.a</code> , but is not automatically linked by the C compilation system. Specify <code>-lpanel</code> on the <code>cc</code> command line to link with this library. See <code>libpanel(3LIB)</code> .
(3PLOT)		These functions constitute the graphics library, <code>libplot</code> . This library is implemented as a shared object, <code>libplot.so</code> , and as an archive, <code>libplot.a</code> , but is not automatically linked by the C compilation system. Specify <code>-lplot</code> on the <code>cc</code> command line to link with this library. See <code>libplot(3LIB)</code> .
(3XCURSES)		These functions constitute the X/Open Curses library, located in <code>/usr/xpg4/lib/libcurses.so.1</code> . This library provides a set of internationalized functions and macros for creating and modifying input and output to a terminal screen. Included in this library are functions for creating windows, highlighting text, writing to the screen, reading from user input, and moving the cursor. X/Open Curses is designed to optimize screen update activities. The X/Open Curses library conforms fully with Issue 4 of the X/Open Extended Curses specification.
	The functions described in this volume constitute the threads and realtime libraries.	
(3AIO)		These functions constitute the asynchronous I/O library, <code>liaio</code> . This library is implemented as a shared object, <code>libaio.so</code> , but is not automatically linked by the C compilation system. Specify <code>-liaio</code> on the <code>cc</code> command line to link with this library. See <code>libaio(3LIB)</code> .
(3DOOR)		These functions constitute the doors library, <code>libdoor</code> . This library is implemented as a shared object, <code>libdoor.so</code> , but is not automatically linked by the C compilation system. Specify <code>-ldoor</code> on the <code>cc</code> command line to link with this library.
(3RT)		These functions constitute the POSIX.4 Realtime library, <code>librt</code> . It is implemented as a shared object, <code>librt.so</code> , but is not automatically linked by the C compilation system. Specify <code>-lrt</code> on the <code>cc</code> command line to link with this library. Note that the former name for this library, <code>libposix4</code> , is maintained for backward compatibility but should be avoided. See <code>librt(3LIB)</code> .
(3SCCHED)		These functions constitute the LWP scheduling library, <code>libsched</code> . This library is implemented as a shared object, <code>libsched.so</code> , but is not automatically linked by the C compilation system. Specify <code>-lsched</code> on the <code>cc</code> command line to link with this library.
(3THR)		These functions constitute the threads libraries, <code>libpthread</code> , <code>libthread</code> , and <code>libthread_db</code> . The <code>libpthread</code> and <code>libthread</code> libraries are used for building multithreaded

applications: `libpthread` implements the POSIX (see [standards\(5\)](#)) threads interface, whereas `libthread` implements the Solaris threads interface. The `libthread_db` library is useful for building debuggers for multithreaded applications.

Both POSIX threads and Solaris threads can be used within the same application. Their implementations are completely compatible with each other; however, only POSIX threads guarantee portability to other POSIX-conforming environments.

When POSIX and Solaris threads are used in the same application, if there are calls with the same name but different semantics, the POSIX semantic supersedes the Solaris threads semantic. For example, the call to `fork()` will imply the `fork1()` semantic in a program linked with the POSIX threads library, whether or not it is also linked with `-lthread` (Solaris threads).

The `libpthread`, `libthread`, and `libthread_db` libraries are implemented as shared objects, `libpthread.so`, `libthread_db.so`, and `libthread.so`, respectively. These libraries are not automatically linked by the C compilation system. Specify `-lpthread`, `-lthread`, or `-lthread_db` on the `cc` command line to link with these libraries. See [libpthread\(3LIB\)](#), [libthread\(3LIB\)](#), and [libthread_db\(3LIB\)](#).

Extended Library Functions

The functions described in this volume comprise various specialized libraries that are not limited to the following:

- (3BSM) These functions constitute the basic security library, `libbsm`. This library is implemented as a shared object, `libbsm.so`, and as an archive, `libbsm.a`, but is not automatically linked by the C compilation system. Specify `-lbsm` on the `cc` command line to link with this library. See [libbsm\(3LIB\)](#).
- (3CFGADM) These functions constitute the configuration administration library, `libcfgadm`. This library is implemented as a shared object, `libcfgadm.so`, but is not automatically linked by the C compilation system. Specify `-lcfgadm` on the `cc` command line to link with this library. See [libcfgadm\(3LIB\)](#).
- (3CPC) These functions constitute the CPU performance counter library, `libcpc`, and the process context library, `libpctx`. These libraries are implemented as shared objects, `libcpc.so` and `libpctx.so`, respectively, but are not automatically linked by the C compilation system. Specify `-lcpc` or `-lpctx` on the `cc` command line to link with these libraries. See [libcpc\(3LIB\)](#) and [libpctx\(3LIB\)](#).
- (3DEVID) These functions constitute the device ID library, `libdevid`. This library is implemented as a shared object, `libdevid.so`, but is

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	not automatically linked by the C compilation system. Specify -ldevid on the cc command line to link with this library. See libdevid(3LIB).
(3DEVINFO)	These functions constitute the device information library, libdevinfo. This library is implemented as a shared object, libdevinfo.so, but is not automatically linked by the C compilation system. Specify -ldevinfo on the cc command line to link with this library. See libdevinfo(3LIB).
(3DMI)	These functions constitute the DMI libraries, libdmi, libdmici, and libdmimi. These libraries are implemented as shared objects, libdmi.so, libdmici.so, and libdmimi.so, respectively, but are not automatically linked by the C compilation system. Specify -ldmi, -ldmici, or -ldmimi on the cc command line to link with these libraries. See libdmi(3LIB), libdmici(3LIB), and libdmimi(3LIB).
(3ELF)	These functions constitute the ELF access library, libelf, (Extensible Linking Format). This library provides the interface for the creation and analyses of "elf" files; executables, objects, and shared objects. libelf is implemented as a shared object, libelf.so, and as an archive, libelf.a, but is not automatically linked by the C compilation system. Specify -lelf on the cc command line to link with this library. See libelf(3LIB).
(3EXACCT)	These functions constitute the extended accounting access library, libexacct, and the project database access library, libproject. These libraries are implemented as shared objects, libexacct.so and libproject.so, respectively, but are not automatically linked by the C compilation system. Specify -lexacct or -lproject on the cc command line to link with these libraries. See libexacct(3LIB) and libproject(3LIB).
(3GEN)	These functions constitute the string pattern-matching and pathname manipulation library, libgen. This library is implemented as a shared object, libgen.so, and as an archive, libgen.a, but is not automatically linked by the C compilation system. Specify -lgen on the cc command line to link with this library. See libgen(3LIB).
(3KSTAT)	These functions constitute the kernel statistics library, which is implemented as a shared object, libkstat.so, and as an archive, libkstat.a, but is not automatically linked by the C compilation system. Specify -lkstat on the cc command line to link with this library. See libkstat(3LIB).
(3KVM)	These functions allow access to the kernel's virtual memory library, which is implemented as a shared object, libkvm.so, and

	as an archive, <code>libkvm.a</code> , but is not automatically linked by the C compilation system. Specify <code>-lkvm</code> on the <code>cc</code> command line to link with this library. See <code>libkvm(3LIB)</code> .
(3LAYOUT)	These functions constitute the layout service library, which is implemented as a shared object, <code>liblayout.so</code> , but is not automatically linked by the C compilation system. Specify <code>-llayout</code> on the <code>cc</code> command line to link with this library. See <code>liblayout(3LIB)</code> .
(3M)	These functions constitute the mathematical library, <code>libm</code> . This library is implemented as a shared object, <code>libm.so</code> , and as an archive, <code>libm.a</code> , but is not automatically linked by the C compilation system. Specify <code>-lm</code> on the <code>cc</code> command line to link with this library.
(3MAIL)	These functions constitute the user mailbox management library, <code>libmail</code> . This library is implemented as a shared object, <code>libmail.so</code> , and as an archive, <code>libmail.a</code> , but is not automatically linked by the C compilation system. Specify <code>-lmail</code> on the <code>cc</code> command line to link with this library.
(3MP)	These functions constitute the integer mathematical library, <code>libmp</code> . This library is implemented as a shared object, <code>libmp.so</code> , and as an archive, <code>libmp.a</code> , but is not automatically linked by the C compilation system. Specify <code>-lmp</code> on the <code>cc</code> command line to link with this library. See <code>libmp(3LIB)</code> .
(3NVPAR)	These functions constitute the name-value pair library, <code>libnvpair</code> . This library is implemented as a shared object, <code>libnvpair.so</code> , but is not automatically linked by the C compilation system. Specify <code>-lnvpair</code> on the <code>cc</code> command line to link with this library. See <code>libnvpair(3LIB)</code> .
(3PAM)	These functions constitute the Pluggable Authentication Module (PAM) library, <code>libpam</code> . This library is implemented as a shared object, <code>libpam.so</code> , and as an archive, <code>libpam.a</code> , but is not automatically linked by the C compilation system. Specify <code>-lpam</code> on the <code>cc</code> command line to link with this library. See <code>libpam(3LIB)</code> .
(3PICL)	These functions constitute the PICL library, <code>libpicl</code> . This library is implemented as a shared object, <code>libpicl.so</code> , but is not automatically linked by the C compilation system. Specify <code>-lpicl</code> on the <code>cc</code> command line to link with this library. See <code>libpicl(3LIB)</code> and <code>libpicl(3PICL)</code> .
(3PICLTREE)	These functions constitute the PICL plug-in library, <code>libpicltree</code> . This library is implemented as a shared object, <code>libpicltree.so</code> , but is not automatically linked by the C compilation system.

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	Specify -lpicltree on the cc command line to link with this library. See libpicltree(3LIB) and libpicltree(3PICLTREE) .
(3POOL)	These functions constitute the pool configuration manipulation library, <code>libpool</code> . This library is implemented as a shared object, <code>libpool.so</code> , but is not automatically linked by the C compilation system. Specify -lpool on the cc command line to link with this library. See libpool(3LIB) .
(3PROJECT)	These functions constitute the project database access library, <code>libproject</code> . This library is implemented as a shared object, <code>libproject.so</code> , but is not automatically linked by the C compilation system. Specify -lproject on the cc command line to link with this library. See libproject(3LIB) .
(3RSM)	These functions constitute the remote shared memory library, <code>librsm</code> . This library is implemented as a shared object, <code>librsm.so</code> , but is not automatically linked by the C compilation system. Specify -lrsm on the cc command line to link with this library. See librsm(3LIB) .
(3SEC)	These functions constitute the file access control library, <code>libsec</code> . This library is implemented as a shared object, <code>libsec.so</code> , and as an archive, <code>libsec.a</code> , but is not automatically linked by the C compilation system. Specify -lsec on the cc command line to link with this library. See libsec(3LIB) .
(3SECDB)	These functions constitute the security attributes database library, <code>libsecdb</code> . This library is implemented as a shared object, <code>libsecdb.so</code> , but is not automatically linked by the C compilation system. Specify -lsecdt on the cc command line to link with this library. See libsecdb(3LIB) .
(3SMARTCARD)	These functions constitute the smartcard library, <code>libsmartcard</code> . This library is implemented as a shared object, <code>libsmartcard.so</code> , but is not automatically linked by the C compilation system. Specify -lsmartcard on the cc command line to link with this library. See libsmartcard(3LIB) .
(3SNMP)	These functions constitute the SNMP libraries, <code>libdssagent</code> and <code>libdssasnmp</code> . These libraries are implemented as shared objects, <code>libssagent.so</code> and <code>libssasnmp.so</code> , respectively, but are not automatically linked by the C compilation system. Specify -lssagent or -lssasnmp on the cc command line to link with these libraries. See libssagent(3LIB) and libssasnmp(3LIB) .
(3SYSEVENT)	These functions constitute the system event library, <code>libsysevent</code> . This library is implemented as a shared object, <code>libsysevent.so</code> , but is not automatically linked by the C compilation system. Specify -lsysevent on the cc command line to link with this library. See libsysevent(3LIB) .

(3TNF)	These functions constitute the TNF libraries, <code>libtnf</code> , <code>libtnfctl</code> , and <code>libtnfprobe</code> . These libraries are implemented as shared objects, <code>libtnf.so</code> , <code>libtnfctl.so</code> , and <code>libtnfprobe.so</code> , respectively, but are not automatically linked by the C compilation system. Specify <code>-ltnf</code> , <code>-ltnfctl</code> , or <code>-ltnfprobe</code> on the <code>cc</code> command line to link with these libraries. See <code>libtnfctl(3TNF)</code> and <code>libtnfctl(3LIB)</code> .				
(3VOLMGT)	These functions constitute the volume management library, <code>libvolmgt</code> . This library is implemented as a shared object, <code>libvolmgt.so</code> , and as an archive, <code>libvolmgt.a</code> , but is not automatically linked by the C compilation system. Specify <code>-lvolmgt</code> on the <code>cc</code> command line to link with this library. See <code>libvolmgt(3LIB)</code> .				
(3WSREG)	These functions constitute the product install registry library, <code>libwsreg</code> . This library is implemented as a shared object, <code>libwsreg.so</code> , but is not automatically linked by the C compilation system. Specify <code>-lwsreg</code> on the <code>cc</code> command line to link with this library. See <code>libwsreg(3LIB)</code> .				
DEFINITIONS	<p>A character is any bit pattern able to fit into a byte on the machine. In some international languages, however, a “character” may require more than one byte, and is represented in multi-bytes.</p> <p>The null character is a character with value 0, conventionally represented in the C language as <code>\0</code>. A character array is a sequence of characters. A null-terminated character array (a <i>string</i>) is a sequence of characters, the last of which is the null character. The null string is a character array containing only the terminating null character. A null pointer is the value that is obtained by casting 0 into a pointer. C guarantees that this value will not match that of any legitimate pointer, so many functions that return pointers return <code>NULL</code> to indicate an error. The macro <code>NULL</code> is defined in <code><stdio.h></code>. Types of the form <code>size_t</code> are defined in the appropriate headers.</p>				
MT-Level of Libraries FILES	<p>See <code>attributes(5)</code> for descriptions of library MT-Levels.</p> <table> <tr> <td><code>INCDIR</code></td> <td>usually <code>/usr/include</code></td> </tr> <tr> <td><code>LIBDIR</code></td> <td>usually <code>/usr/lib</code> (32-bit) or <code>/usr/lib/sparcv9</code> (64-bit)</td> </tr> </table>	<code>INCDIR</code>	usually <code>/usr/include</code>	<code>LIBDIR</code>	usually <code>/usr/lib</code> (32-bit) or <code>/usr/lib/sparcv9</code> (64-bit)
<code>INCDIR</code>	usually <code>/usr/include</code>				
<code>LIBDIR</code>	usually <code>/usr/lib</code> (32-bit) or <code>/usr/lib/sparcv9</code> (64-bit)				

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	<i>LIBDIR/libc.so</i> <i>LIBDIR/libc.a</i> <i>LIBDIR/libgen.a</i> <i>LIBDIR/libm.a</i> <i>LIBDIR/libsfm.sa</i> <i>/usr/lib/libc.so.1</i>
SEE ALSO	<i>ar(1)</i> , <i>cc(1B)</i> , <i>ld(1)</i> , <i>fork(2)</i> , <i>intro(3)</i> , <i>stdio(3C)</i> , <i>attributes(5)</i> , <i>standards(5)</i> <i>Linker and Libraries Guide</i> <i>Profiling Tools</i> <i>ANSI C Programmer's Guide</i>
DIAGNOSTICS	For functions that return floating-point values, error handling varies according to compilation mode. Under the <i>-Xt</i> (default) option to <i>cc</i> , these functions return the conventional values 0, <i>±HUGE</i> , or <i>NaN</i> when the function is undefined for the given arguments or when the value is not representable. In the <i>-Xa</i> and <i>-Xc</i> compilation modes, <i>±HUGE_VAL</i> is returned instead of <i>±HUGE</i> . (<i>HUGE_VAL</i> and <i>HUGE</i> are defined in <i>math.h</i> to be infinity and the largest-magnitude single-precision number, respectively.)
NOTES ON MULTITHREADED APPLICATIONS	When compiling a multithreaded application, either the <i>_POSIX_C_SOURCE</i> or <i>_POSIX_PTHREAD_SEMANTICS</i> flag or the <i>-mt</i> option must be specified on the command line. This enables special definitions for functions only applicable to multithreaded applications. For POSIX.1c-conforming applications, define the <i>_POSIX_C_SOURCE</i> flag to be <i>>= 199506L</i> : <i>cc [flag...] file... -D_POSIX_C_SOURCE=199506L -lpthread</i> For POSIX behavior with the Solaris <i>fork()</i> and <i>fork1()</i> distinction, compile as follows: <i>cc [flag...] file... -D_POSIX_PTHREAD_SEMANTICS -lthread</i> For Solaris threads behavior, compile as follows: <i>cc -mt [flag...] file...</i> When building a singlethreaded application, the above <i>flag</i> arguments should be undefined. Unsafe interfaces should be called only from the main thread to ensure the application's safety.

REALTIME APPLICATIONS	<p>MT-Safe interfaces are denoted in the ATTRIBUTES section of the functions and libraries manual pages (see <code>attributes(5)</code>). If a manual page does not state explicitly that an interface is MT-Safe, the user should assume that the interface is unsafe.</p>
NOTES	<p>Be sure to have set the environment variable <code>LD_BIND_NOW</code> to a non-null value to enable early binding. Refer to the “When Relocations are Processed” chapter in <i>Linker and Libraries Guide</i> for additional information.</p> <p>None of the functions, external variables, or macros should be redefined in the user’s programs. Any other name may be redefined without affecting the behavior of other library functions, but such redefinition may conflict with a declaration in an included header.</p> <p>The headers in <code>INCDIR</code> provide function prototypes (function declarations including the types of arguments) for most of the functions listed in this manual. Function prototypes allow the compiler to check for correct usage of these functions in the user’s program. The <code>lint</code> program checker may also be used and will report discrepancies even if the headers are not included with <code>#include</code> statements. Definitions for Sections 2, 3C, and 3S are checked automatically. Other definitions can be included by using the <code>-l</code> option to <code>lint</code>. (For example, <code>-lmb</code> includes definitions for <code>libm</code>.) Use of <code>lint</code> is highly recommended. See the <code>lint</code> chapter in <i>Performance Profiling Tools</i>.</p> <p>Users should carefully note the difference between STREAMS and <i>stream</i>. STREAMS is a set of kernel mechanisms that support the development of network services and data communication drivers. It is composed of utility routines, kernel facilities, and a set of data structures. A <i>stream</i> is a file with its associated buffering. It is declared to be a pointer to a type <code>FILE</code> defined in <code><stdio.h></code>.</p> <p>In detailed definitions of components, it is sometimes necessary to refer to symbolic names that are implementation-specific, but which are not necessarily expected to be accessible to an application program. Many of these symbolic names describe boundary conditions and system limits.</p> <p>In this section, for readability, these implementation-specific values are given symbolic names. These names always appear enclosed in curly brackets to distinguish them from symbolic names of other implementation-specific constants that are accessible to application programs by headers. These names are not necessarily accessible to an application program through a header, although they may be defined in the documentation for a particular system.</p> <p>In general, a portable application program should not refer to these symbolic names in its code. For example, an application program would not be expected to test the length of an argument list given to a routine to determine if it was greater than <code>{ARG_MAX}</code>.</p>

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Library Interfaces and Headers

acct(3HEAD)

NAME	acct – per-process accounting file format
SYNOPSIS	#include <sys/types.h> #include <sys/acct.h>
DESCRIPTION	<p>Files produced as a result of calling <code>acct(2)</code> have records in the form defined by <code><sys/acct.h></code>, whose contents are:</p> <pre>typedef ushort_t comp_t; /* pseudo "floating point" representation */ /* 3 bit base-8 exponent in the high */ /* order bits, and a 13-bit fraction */ /* in the low order bits. */ struct acct { char ac_flag; /* Accounting flag */ char ac_stat; /* Exit status */ uid_t ac_uid; /* Accounting user ID */ gid_t ac_gid; /* Accounting group ID */ dev_t ac_tty; /* control tty */ time_t ac_btime; /* Beginning time */ comp_t ac_utime; /* accounting user time in clock ticks */ comp_t ac_stime; /* accounting system time in clock ticks */ comp_t ac_etime; /* accounting total elapsed time in clock ticks */ comp_t ac_mem; /* memory usage in clicks (pages) */ comp_t ac_io; /* chars transferred by read/write */ comp_t ac_rw; /* number of block reads/writes */ char ac_comm[8]; /* command name */ }; /* * Accounting Flags */ #define AFORK 01 /* has executed fork, but no exec */ #define ASU 02 /* used super-user privileges */ #define ACCTF 0300 /* record type */ #define AEXPND 040 /* Expanded Record Type - default */</pre> <p>In <code>ac_flag</code>, the <code>AFORK</code> flag is turned on by each <code>fork</code> and turned off by an <code>exec</code>. The <code>ac_comm</code> field is inherited from the parent process and is reset by any <code>exec</code>. Each time the system charges the process with a clock tick, it also adds to <code>ac_mem</code> the current process size, computed as follows:</p> <p><i>(data size) + (text size) / (number of in-core processes using text)</i></p> <p>The value of <code>ac_mem / (ac_stime + ac_utime)</code> can be viewed as an approximation to the mean process size, as modified by text sharing.</p> <p>The structure <code>tacct</code>, (which resides with the source files of the accounting commands), represents a summary of accounting statistics for the user id <code>ta_uid</code>. This structure is used by the accounting commands to report statistics based on user id.</p>

```

/*
 * total accounting (for acct period), also for day
 */
struct tacct {
    uid_t          ta_uid;      /* user id */
    char           ta_name[8];   /* login name */
    float          ta_cpu[2];    /* cum. cpu time in minutes, */
                                /* p/np (prime/non-prime time) */
    float          ta_kcore[2];  /* cum. kcore-minutes, p/np */
    float          ta_con[2];    /* cum. connect time in minutes, p/np */
    float          ta_du;        /* cum. disk usage (blocks)*/
    long           ta_pc;       /* count of processes */
    unsigned short ta_sc;       /* count of login sessions */
    unsigned short ta_dc;       /* count of disk samples */
    unsigned short ta_fee;      /* fee for special services */
};

```

The `ta_cpu`, `ta_kcore`, and `ta_con` members contain usage information pertaining to prime time and non-prime time hours. The first element in each array represents the time the resource was used during prime time hours. The second element in each array represents the time the resource was used during non-prime time hours. Prime time and non-prime time hours may be set in the `holidays` file (see `holidays(4)`).

The `ta_kcore` member is a cumulative measure of the amount of memory used over the accounting period by processes owned by the user with uid `ta_uid`. The amount shown represents kilobyte segments of memory used, per minute.

The `ta_con` member represents the amount of time the user was logged in to the system.

FILES `/etc/acct/holidays` prime/non-prime time table

SEE ALSO `acctcom(1)`, `acct(1M)`, `acctcon(1M)`, `acctmerg(1M)`, `acctprc(1M)`, `acctsh(1M)`, `prtacct(1M)`, `runacct(1M)`, `shutacct(1M)`, `acct(2)`, `exec(2)`, `fork(2)`

NOTES The `ac_mem` value for a short-lived command gives little information about the actual size of the command, because `ac_mem` may be incremented while a different command (for example, the shell) is being executed by the process.

aio(3HEAD)

NAME	aio – asynchronous input and output																					
SYNOPSIS	#include <aio.h>																					
DESCRIPTION	The <aio.h> header defines the aiocb structure which includes the following members:																					
	<table><tr><td>int</td><td>aio_fildes</td><td>file descriptor</td></tr><tr><td>off_t</td><td>aio_offset</td><td>file offset</td></tr><tr><td>volatile void*</td><td>aio_buf</td><td>location of buffer</td></tr><tr><td>size_t</td><td>aio_nbytes</td><td>length of transfer</td></tr><tr><td>int</td><td>aio_reqprio</td><td>request priority offset</td></tr><tr><td>struct sigevent</td><td>aio_sigevent</td><td>signal number and value</td></tr><tr><td>int</td><td>aio_lio_opcode</td><td>operation to be performed</td></tr></table>	int	aio_fildes	file descriptor	off_t	aio_offset	file offset	volatile void*	aio_buf	location of buffer	size_t	aio_nbytes	length of transfer	int	aio_reqprio	request priority offset	struct sigevent	aio_sigevent	signal number and value	int	aio_lio_opcode	operation to be performed
int	aio_fildes	file descriptor																				
off_t	aio_offset	file offset																				
volatile void*	aio_buf	location of buffer																				
size_t	aio_nbytes	length of transfer																				
int	aio_reqprio	request priority offset																				
struct sigevent	aio_sigevent	signal number and value																				
int	aio_lio_opcode	operation to be performed																				
	This header also includes the following constants:																					
	AIO_CANCELED AIO_NOTCANCELED AIO_ALLDONE LIO_WAIT LIO_NOWAIT LIO_READ LIO_WRITE LIO_NOP																					
SEE ALSO	lseek(2), read(2), write(2), fsync(3C)																					

NAME	ar – archive file format
SYNOPSIS	#include <ar.h>
DESCRIPTION	<p>The archive command ar is used to combine several files into one. Archives are used mainly as libraries to be searched by the link editor ld.</p> <p>Each archive begins with the archive magic string.</p> <pre>#define ARMAG "!<arch>\n" /* magic string */ #define SARMAG 8 /* length of magic string */</pre> <p>Following the archive magic string are the archive file members. Each file member is preceded by a file member header which is of the following format:</p> <pre>#define ARFMAG ``\n" /* header trailer string */ struct ar_hdr /* file member header */ { char ar_name[16]; /* ''// terminated file member name */ char ar_date[12]; /* file member date */ char ar_uid[6]; /* file member user identification */ char ar_gid[6]; /* file member group identification */ char ar_mode[8]; /* file member mode (octal) */ char ar_size[10]; /* file member size */ char ar_fmag[2]; /* header trailer string */ };</pre> <p>All information in the file member headers is in printable ASCII. The numeric information contained in the headers is stored as decimal numbers (except for <i>ar_mode</i> which is in octal). Thus, if the archive contains printable files, the archive itself is printable.</p> <p>If the file member name fits, the <i>ar_name</i> field contains the name directly, and is terminated by a slash (/) and padded with blanks on the right. If the member's name does not fit, <i>ar_name</i> contains a slash (/) followed by a decimal representation of the name's offset in the archive string table described below.</p> <p>The <i>ar_date</i> field is the modification date of the file at the time of its insertion into the archive. Common format archives can be moved from system to system as long as the portable archive command ar is used.</p> <p>Each archive file member begins on an even byte boundary; a newline is inserted between files if necessary. Nevertheless, the size given reflects the actual size of the file exclusive of padding.</p> <p>Notice there is no provision for empty areas in an archive file.</p> <p>Each archive that contains object files (see a.out(4)) includes an archive symbol table. This symbol table is used by the link editor ld to determine which archive members must be loaded during the link edit process. The archive symbol table (if it exists) is always the first file in the archive (but is never listed) and is automatically created and/or updated by ar.</p>

ar(3HEAD)

The archive symbol table has a zero length name (that is, `ar_name[0]` is `'/'`), `ar_name[1] == ' '`, etc.). All “words” in this symbol table have four bytes, using the machine-independent encoding shown below. All machines use the encoding described here for the symbol table, even if the machine’s “natural” byte order is different.

	0	1	2	3
0x01020304	01	02	03	04

The contents of this file are as follows:

1. The number of symbols. Length: 4 bytes.
2. The array of offsets into the archive file. Length: 4 bytes * “the number of symbols”.
3. The name string table. Length: `ar_size - 4 bytes * (“the number of symbols” + 1)`.

As an example, the following symbol table defines 4 symbols. The archive member at file offset 114 defines `name`. The archive member at file offset 122 defines `object`. The archive member at file offset 426 defines `function` and the archive member at file offset 434 defines `name2`.

Example Symbol Table

Offset	+0	+1	+2	+3	
0	4				4 offset entries
4	114				name
8	122				object
12	426				function
16	434				name2
20	n	a	m	e	
24	\0	o	b	j	
28	e	c	t	\0	
32	f	u	n	c	
36	t	i	o	n	
40	\0	n	a	m	
44	e	2	\0		

The string table contains exactly as many null terminated strings as there are elements in the offsets array. Each offset from the array is associated with the corresponding name from the string table (in order). The names in the string table are all the defined global symbols found in the common object files in the archive. Each offset is the location of the archive header for the associated symbol.

If some archive member's name is more than 15 bytes long, a special archive member contains a table of file names, each followed by a slash and a new-line. This string table member, if present, will precede all "normal" archive members. The special archive symbol table is not a "normal" member, and must be first if it exists. The `ar_name` entry of the string table's member header holds a zero length name `ar_name[0] == '/'`, followed by one trailing slash (`ar_name[1] == '/'`), followed by blanks (`ar_name[2] == ' '`, etc.). Offsets into the string table begin at zero. Example `ar_name` values for short and long file names appear below.

Offset	+0	+1	+2	+3	+4	+5	+6	+7	+8	+9
0	f	i	l	e	-	n	a	m	e	-
10	s	a	m	p	l	e	/	\n	l	o
20	n	g	e	r	f	i	l	e	n	a
30	m	e	x	a	m	p	l	e	/	\n

Member Name	ar_name
short-name	short-name/ Not in string table
file_name_sample	/0 Offset 0 in string table
longerfilenamexample	/18 Offset 18 in string table

SEE ALSO `ar(1)`, `ld(1)`, `strip(1)`, `a.out(4)`

NOTES The `strip` utility will remove all archive symbol entries from the header. The archive symbol entries must be restored with the `-ts` options of the `ar` command before the archive can be used with the link editor `ld`.

dirent(3HEAD)

NAME	dirent – file system independent directory entry
SYNOPSIS	#include <dirent.h>
DESCRIPTION	Different file system types may have different directory entries. The <code>dirent</code> structure defines a file system independent directory entry, which contains information common to directory entries in different file system types. A set of these structures is returned by the <code>getdents(2)</code> system call.
	The <code>dirent</code> structure is defined:
	<pre>struct dirent { ino_t d_ino; off_t d_off; unsigned short d_reclen; char d_name[1]; };</pre>
	The <code>d_ino</code> is a number which is unique for each file in the file system. The <code>d_off</code> entry contains a value which is interpretable only by the filesystem that generated it. It may be supplied as an offset to <code>lseek(2)</code> to find the entry following the current one in a directory. The field <code>d_name</code> is the beginning of the character array giving the name of the directory entry. This name is null terminated and may have at most <code>MAXNAMLEN</code> characters. This results in file system independent directory entries being variable length entities. The value of <code>d_reclen</code> is the record length of this entry. This length is defined to be the number of bytes between the current entry and the next one, so that the next structure will be suitably aligned.
SEE ALSO	<code>getdents(2)</code> , <code>lseek(2)</code>

NAME	fcntl – file control options
SYNOPSIS	#include <fcntl.h>
DESCRIPTION	The <fcntl.h> header defines the following requests and arguments for use by the functions fcntl(2), open(2), and openat(2).
Values for <i>cmd</i> used by fcntl() (the following values are unique):	
F_DUPFD	Duplicate file descriptor.
F_DUP2FD	Similar to F_DUPFD, but always returns <i>arg</i> .
F_GETFD	Get file descriptor flags.
F_SETFD	Set file descriptor flags.
F_GETFL	Get file status flags.
F_SETFL	Set file status flags.
F_GETOWN	Get process or process group ID to receive SIGURG signals.
F_SETOWN	Set process or process group ID to receive SIGURG signals.
F_FREESP	Free storage space associated with a section of the ordinary file <i>fdes</i> .
F_GETLK	Get record locking information.
F_GETLK64	Equivalent to F_GETLK, but takes a struct flock64 argument rather than a struct flock argument.
F_SETLK	Set record locking information.
F_SETLK64	Equivalent to F_SETLK, but takes a struct flock64 argument rather than a struct flock argument.
F_SETLKW	Set record locking information; wait if blocked.
F_SETLKW64	Equivalent to F_SETLKW, but takes a struct flock64 argument rather than a struct flock argument.
F_SHARE	Set share reservation.
F_UNSHARE	Remove share reservation.
File descriptor flags used for fcntl():	
FD_CLOEXEC	Close the file descriptor upon execution of an exec function (see exec(2)).
Values for l_type used for record locking with fcntl() (the following values are unique):	
F_RDLCK	Shared or read lock.
F_UNLCK	Unlock.

fcntl(3HEAD)

`F_WRLCK` Exclusive or write lock.

Values for `f_access` used for share reservations with `fcntl()` (the following values are unique):

`F_RDACC` Read-only share reservation.

`F_WRACC` Write-only share reservation.

`F_RWACC` Read and write share reservation.

Values for `f_deny` used for share reservations with `fcntl()` (the following values are unique):

`F_COMPAT` Compatibility mode share reservation.

`F_RDDNY` Deny other read access share reservations.

`F_WRDNY` Deny other write access share reservations.

`F_RWDNY` Deny other read or write access share reservations.

`F_NODNY` Do not deny other read or write access share reservations.

File creation and assignment flags are used in the `oflag` argument by `open()` and `openat()`. All of these values are bitwise distinct:

`O_CREAT` Create file if it does not exist.

`O_EXCL` Exclusive use flag.

`O_NOCTTY` Do not assign controlling tty.

`O_TRUNC` Truncate flag.

`O_XATTR` When opening a file, this flag affects the way in which relative paths are resolved by `open()` and `openat()`. With this flag set, the `path` argument is resolved as an extended attribute reference on either the current working directory (if `open`) or of the file referenced by the file descriptor argument of `openat()`.

File status flags used for `fcntl()`, `open()`, and `openat()`:

`O_APPEND` Set append mode.

`O_NDELAY` Non-blocking mode.

`O_NONBLOCK` Non-blocking mode (POSIX; see `standards(5)`).

`O_DSYNC` Write I/O operations on the file descriptor complete as defined by synchronized I/O data integrity completion.

`O_RSYNC` Read I/O operations on the file descriptor complete at the same level of integrity as specified by the `O_DSYNC` and `O_SYNC` flags. If both `O_DSYNC` and `O_RSYNC` are set in `oflag`, all I/O operations on the file descriptor complete as defined by

fcntl(3HEAD)

	synchronized I/O data integrity completion. If both O_SYNC and O_RSYNC are set in <i>oflag</i> , all I/O operations on the file descriptor complete as defined by synchronized I/O file integrity completion.
O_SYNC	When opening a regular file, this flag affects subsequent writes. If set, each write(2) will wait for both the file data and file status to be physically updated. Write I/O operations on the file descriptor complete as defined by synchronized I/O file integrity completion.

Mask for use with file access modes:

O_ACCMODE Mask for file access modes.

File access modes used for fcntl(), open(), and openat():

O_RDONLY Open for reading only.

O_RDWR Open for reading and writing.

O_WRONLY Open for writing only.

The following constants are used by system calls capable of resolving paths relative to a provided open file descriptor:

AT_FDCWD Special value to pass in place of a file descriptor to inform the called routine that relative path arguments should be resolved from the current working directory.

AT_SYMLINK_NOFOLLOW Flag passed to fstatat(2) and fchownat(2) to change the behavior of these functions when they are given a file as an argument that is a symbolic link. In this case the functions operate on the symbolic link file rather than the file the link references.

AT_REMOVEDIR Flag passed to unlinkat(2) to tell it to assume that its path argument refers to a directory and to attempt to remove this directory.

The flock structure describes a file lock. It includes the following members:

```
short l_type; /* Type of lock */
short l_whence; /* Flag for starting offset */
off_t l_start; /* Relative offset in bytes */
off_t l_len; /* Size; if 0 then until EOF */
long l_sysid; /* Returned with F_GETLK */
pid_t l_pid; /* Returned with F_GETLK */
```

The structure fshare describes a file share reservation. It includes the following members:

```
short f_access; /* Type of reservation */
short f_deny; /* Type of reservations to deny */
long f_id; /* Process unique identifier */
```

fcntl(3HEAD)

SEE ALSO `creat(2)`, `exec(2)`, `fcntl(2)`, `open(2)`, `fdatasync(3RT)`, `fsync(3C)`, `fsattr(5)`, `standards(5)`

NOTES Data is successfully transferred for a write operation to a regular file when the system ensures that all data written is readable on any subsequent open of the file (even one that follows a system or power failure) in the absence of a failure of the physical storage medium.

Data is successfully transferred for a read operation when an image of the data on the physical storage medium is available to the requesting process.

Synchronized I/O data integrity completion (see `fdatasync(3RT)`):

- For reads, the operation has been completed or diagnosed if unsuccessful. The read is complete only when an image of the data has been successfully transferred to the requesting process. If there were any pending write requests affecting the data to be read at the time that the synchronized read operation was requested, these write requests will be successfully transferred prior to reading the data.
- For writes, the operation has been completed or diagnosed if unsuccessful. The write is complete only when the data specified in the write request is successfully transferred, and all file system information required to retrieve the data is successfully transferred.

File attributes that are not necessary for data retrieval (access time, modification time, status change time) need not be successfully transferred prior to returning to the calling process.

Synchronized I/O file integrity completion (see `fsync(3C)`):

- Identical to a synchronized I/O data integrity completion with the addition that all file attributes relative to the I/O operation (including access time, modification time, status change time) will be successfully transferred prior to returning to the calling process.

floatingpoint(3HEAD)

NAME	floatingpoint – IEEE floating point definitions	
SYNOPSIS	#include <floatingpoint.h>	
DESCRIPTION	This file defines constants, types, and functions used to implement standard floating point according to ANSI/IEEE Std 754-1985. The functions are implemented in <code>libc</code> . The included header file <code><sys/ieeefp.h></code> defines certain types of interest to the kernel.	
IEEE Rounding Modes	<code>fp_direction_type</code>	The type of the IEEE rounding direction mode. Note: the order of enumeration varies according to hardware.
	<code>fp_precision_type</code>	The type of the IEEE rounding precision mode, which only applies on systems that support extended precision such as machines based on the Intel 80387 FPU or the 80486. <code>SIGFPE</code> handling:
	<code>sigfpe_code_type</code>	The type of a <code>SIGFPE</code> code.
	<code>sigfpe_handler_type</code>	The type of a user-definable <code>SIGFPE</code> exception handler called to handle a particular <code>SIGFPE</code> code.
	<code>SIGFPE_DEFAULT</code>	A macro indicating the default <code>SIGFPE</code> exception handling, namely to perform the exception handling specified by the user, if any, and otherwise to dump core using <code>abort(3C)</code> .
	<code>SIGFPE_IGNORE</code>	A macro indicating an alternate <code>SIGFPE</code> exception handling, namely to ignore and continue execution.
	<code>SIGFPE_ABORT</code>	A macro indicating an alternate <code>SIGFPE</code> exception handling, namely to abort with a core dump.
	<code>N_IEEE_EXCEPTION</code>	The number of distinct IEEE floating-point exceptions.
IEEE Exception Handling	<code>fp_exception_type</code>	The type of the <code>N_IEEE_EXCEPTION</code> exceptions. Each exception is given a bit number.
	<code>fp_exception_field_type</code>	The type intended to hold at least <code>N_IEEE_EXCEPTION</code> bits corresponding to the IEEE exceptions numbered by <code>fp_exception_type</code> . Thus <code>fp_inexact</code> corresponds to the least significant bit and <code>fp_invalid</code> to the fifth least significant bit. Note: some operations may set more

floatingpoint(3HEAD)

IEEE Formats and Classification	single; extended; quadruple fp_class_type	than one exception. Definitions of IEEE formats. An enumeration of the various classes of IEEE values and symbols.
IEEE Base Conversion	The functions described under floating_to_decimal(3C) and decimal_to_floating(3C) satisfy not only the IEEE Standard, but also the stricter requirements of correct rounding for all arguments.	
	DECIMAL_STRING_LENGTH	The length of a decimal_string.
	decimal_string	The digit buffer in a decimal_record.
	decimal_record	The canonical form for representing an unpacked decimal floating-point number.
	decimal_form	The type used to specify fixed or floating binary to decimal conversion.
	decimal_mode	A struct that contains specifications for conversion between binary and decimal.
	decimal_string_form	An enumeration of possible valid character strings representing floating-point numbers, infinities, or NaNs.
FILES	/usr/include/sys/ieeefp.h	
SEE ALSO	abort(3C), decimal_to_floating(3C), econvert(3C), floating_to_decimal(3C), sigfpe(3C), string_to_decimal(3C), strtod(3C)	

NAME	in – Internet Protocol family												
SYNOPSIS	#include <netinet/in.h>												
DESCRIPTION	<p>The <code><netinet/in.h></code> header defines the following types through <code>typedef</code>:</p> <ul style="list-style-type: none"> <code>in_port_t</code> An unsigned integral type of exactly 16 bits. <code>in_addr_t</code> An unsigned integral type of exactly 32 bits. The <code><netinet/in.h></code> header defines the <code>in_addr</code> structure that includes the following member: <p>The <code><netinet/in.h></code> header defines the <code>in_addr</code> structure that includes the following member:</p> <pre>in_addr_t s_addr</pre> <p>The <code><netinet/in.h></code> header defines the type <code>sa_family_t</code> as described in socket(3HEAD).</p> <p>The <code><netinet/in.h></code> header defines the following macros for use as values of the <code>level</code> argument of <code>getsockopt()</code> and <code>setsockopt()</code>:</p> <table> <tr> <td><code>IPPROTO_IP</code></td> <td>Dummy for IP</td> </tr> <tr> <td><code>IPPROTO_ICMP</code></td> <td>Control message protocol</td> </tr> <tr> <td><code>IPPROTO_TCP</code></td> <td>TCP</td> </tr> <tr> <td><code>IPPROTO_UDP</code></td> <td>User datagram protocol The <code><netinet/in.h></code> header defines the following macros for use as destination addresses for <code>connect()</code>, <code>sendmsg()</code>, and <code>sendto()</code>:</td> </tr> <tr> <td><code>INADDR_ANY</code></td> <td>Local host address</td> </tr> <tr> <td><code>INADDR_BROADCAST</code></td> <td>Broadcast address</td> </tr> </table> <p>The <code><netinet/in.h></code> header defines the <code>sockaddr_in</code> structure that is used to store addresses for the Internet protocol family. Values of this type must be cast to <code>struct sockaddr</code> for use with the socket interfaces.</p>	<code>IPPROTO_IP</code>	Dummy for IP	<code>IPPROTO_ICMP</code>	Control message protocol	<code>IPPROTO_TCP</code>	TCP	<code>IPPROTO_UDP</code>	User datagram protocol The <code><netinet/in.h></code> header defines the following macros for use as destination addresses for <code>connect()</code> , <code>sendmsg()</code> , and <code>sendto()</code> :	<code>INADDR_ANY</code>	Local host address	<code>INADDR_BROADCAST</code>	Broadcast address
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<code>IPPROTO_UDP</code>	User datagram protocol The <code><netinet/in.h></code> header defines the following macros for use as destination addresses for <code>connect()</code> , <code>sendmsg()</code> , and <code>sendto()</code> :												
<code>INADDR_ANY</code>	Local host address												
<code>INADDR_BROADCAST</code>	Broadcast address												
Default	<p>For applications that do not require standard-conforming behavior (those that use the socket interfaces described in section (3SOCKET) of the reference manual; see Intro(3) and standards(5)), the <code><netinet/in.h></code> header defines the <code>sockaddr_in</code> structure that includes the following members:</p> <pre>sa_family_t sin_family in_port_t sin_port struct in_addr sin_addr char sin_zero[8]</pre>												

in(3HEAD)

Standard conforming	For applications that require standard-conforming behavior (those that use the socket interfaces described in section (3XNET) of the reference manual; see Intro(3) and standards(5)), the <netinet/in.h> header defines the <code>sockaddr_in</code> structure that includes the following members:
SEE ALSO	Intro(3) , connect(3SOCKET) , connect(3XNET) , getsockopt(3SOCKET) , getsockopt(3XNET) , sendmsg(3SOCKET) , sendmsg(3XNET) , sendto(3SOCKET) , sendto(3XNET) , setsockopt(3SOCKET) , setsockopt(3XNET) , socket(3HEAD) , standards(5)

NAME	inet – definitions for internet operations
SYNOPSIS	#include <arpa/inet.h>
DESCRIPTION	<p>The <code><arpa/inet.h></code> header defines the type <code>in_port_t</code>, the type <code>in_addr_t</code>, and the <code>in_addr</code> structure, as described in <code>in(3HEAD)</code>.</p> <p>Inclusion of the <code><arpa/inet.h></code> header may also make visible all symbols from <code>in(3HEAD)</code>.</p> <p>The following are declared as functions, and may also be defined as macros:</p> <pre>in_addr_t inet_addr(const char *); in_addr_t inet_lnaof(struct in_addr); struct in_addr inet_makeaddr(in_addr_t, in_addr_t); in_addr_t inet_netof(struct in_addr); in_addr_t inet_network(const char *); char *inet_ntoa(struct in_addr);</pre>
Default	<p>For applications that do not require standard-conforming behavior (those that use the socket interfaces described in section 3N of the reference manual; see <code>Intro(3)</code> and <code>standards(5)</code>), the following may be declared as functions, or defined as macros, or both:</p> <pre>uint32_t htonl(uint32_t); uint16_t htons(uint16_t); uint32_t ntohl(uint32_t); uint16_t ntohs(uint16_t);</pre>
Standard conforming	<p>For applications that require standard-conforming behavior (those that use the socket interfaces described in section 3XN of the reference manual; see <code>Intro(3)</code> and <code>standards(5)</code>), the following may be declared as functions, or defined as macros, or both:</p> <pre>in_addr_t htonl(in_addr_t); in_port_t htons(in_port_t); in_addr_t ntohl(in_addr_t); in_port_t ntohs(in_port_t);</pre>
SEE ALSO	<code>Intro(3)</code> , <code>htonl(3SOCKET)</code> , <code>htonl(3XNET)</code> , <code>inet_addr(3SOCKET)</code> , <code>inet_addr(3XNET)</code> , <code>in(3HEAD)</code> , <code>standards(5)</code>

langinfo(3HEAD)

NAME	langinfo – language information constants	
SYNOPSIS	#include <langinfo.h>	
DESCRIPTION	The <langinfo.h> header contains the constants used to identify items of langinfo data (see <i>nl_langinfo(3C)</i>). The type of the constant, <i>nl_item</i> , is defined as described in <nl_types.h>.	
The following constants are defined. The entries under Category indicate in which <i>setlocale(3C)</i> category each item is defined.		
Constant	Category	Meaning
CODESET	LC_CTYPE	codeset name
D_T_FMT	LC_TIME	string for formatting date and time
D_FMT	LC_TIME	date format string
T_FMT	LC_TIME	time format string
T_FMT_AMPM	LC_TIME	a.m. or p.m. time format string
AM_STR	LC_TIME	ante-meridiem affix
PM_STR	LC_TIME	post-meridiem affix
DAY_1	LC_TIME	name of the first day of the week (for example, Sunday)
DAY_2	LC_TIME	name of the second day of the week (for example, Monday)
DAY_3	LC_TIME	name of the third day of the week (for example, Tuesday)
DAY_4	LC_TIME	name of the fourth day of the week (for example, Wednesday)
DAY_5	LC_TIME	name of the fifth day of the week (for example, Thursday)
DAY_6	LC_TIME	name of the sixth day of the week (for example, Friday)
DAY_7	LC_TIME	name of the seventh day of the week (for example, Saturday)
ABDAY_1	LC_TIME	abbreviated name of the first day of the week
ABDAY_2	LC_TIME	abbreviated name of the second day of the week

langinfo(3HEAD)

Constant	Category	Meaning
ABDAY_3	LC_TIME	abbreviated name of the third day of the week
ABDAY_4	LC_TIME	abbreviated name of the fourth day of the week
ABDAY_5	LC_TIME	abbreviated name of the fifth day of the week
ABDAY_6	LC_TIME	abbreviated name of the seventh day of the week
ABDAY_7	LC_TIME	abbreviated name of the seventh day of the week
MON_1	LC_TIME	name of the first month of the year
MON_2	LC_TIME	name of the second month
MON_3	LC_TIME	name of the third month
MON_4	LC_TIME	name of the fourth month
MON_5	LC_TIME	name of the fifth month
MON_6	LC_TIME	name of the sixth month
MON_7	LC_TIME	name of the seventh month
MON_8	LC_TIME	name of the eighth month
MON_9	LC_TIME	name of the ninth month
MON_10	LC_TIME	name of the tenth month
MON_11	LC_TIME	name of the eleventh month
MON_12	LC_TIME	name of the twelfth month
ABMON_1	LC_TIME	abbreviated name of the first month
ABMON_2	LC_TIME	abbreviated name of the second month
ABMON_3	LC_TIME	abbreviated name of the third month
ABMON_4	LC_TIME	abbreviated name of the fourth month
ABMON_5	LC_TIME	abbreviated name of the fifth month
ABMON_6	LC_TIME	abbreviated name of the sixth month
ABMON_7	LC_TIME	abbreviated name of the seventh month
ABMON_8	LC_TIME	abbreviated name of the eighth month
ABMON_9	LC_TIME	abbreviated name of the ninth month

langinfo(3HEAD)

Constant	Category	Meaning
ABMON_10	LC_TIME	abbreviated name of the tenth month
ABMON_11	LC_TIME	abbreviated name of the eleventh month
ABMON_12	LC_TIME	abbreviated name of the twelfth month
ERA	LC_TIME	era description segments
ERA_D_FMT	LC_TIME	era date format string
ERA_D_T_FMT	LC_TIME	era date and time format string
ERA_T_FMT	LC_TIME	era time format string
ALT_DIGITS	LC_TIME	alternative symbols for digits
RADIXCHAR	LC_NUMERIC	radix character
THOUSEP	LC_NUMERIC	separator for thousands
YESEXPR	LC_MESSAGES	affirmative response expression
NOEXPR	LC_MESSAGES	negative response expression
YESSTR	LC_MESSAGES	affirmative response for yes/no queries
NOSTR	LC_MESSAGES	negative response to yes/no queries
CRNCYSTR	LC_MONETARY	local currency symbol, preceded by '-' if the symbol could appear before the value, '+' if the symbol should appear after the value, or '.' if the symbol should replace the radix character

If the locale's values for `p_cs_precedes` and `n_cs_precedes` do not match, the value of `nl_langinfo(CRNCYSTR)` is unspecified.

The `<langinfo.h>` header declares the following as a function:

```
char *nl_langinfo(nl_item);
```

Inclusion of `<langinfo.h>` header may also make visible all symbols from `<nl_types.h>`.

USAGE Wherever possible, users are advised to use functions compatible with those in the ISO C standard to access items of `langinfo` data. In particular, the `strftime(3C)` function should be used to access date and time information defined in category `LC_TIME`. The `localeconv(3C)` function should be used to access information corresponding to `RADIXCHAR`, `THOUSEP`, and `CRNCYSTR`.

SEE ALSO `mkmsgs(1)`, `localeconv(3C)`, `nl_langinfo(3C)`, `nl_types(3HEAD)`, `setlocale(3C)`, `strftime(3C)`, `standards(5)`

NAME	libadm – general administrative library							
SYNOPSIS	<code>cc [flag ...] file ... -ladm [library ...]</code>							
DESCRIPTION	Functions in this library provide device management, VTOC handling, regular expressions, and packaging routines.							
INTERFACES	The shared object <code>libadm.so.1</code> provides the public interfaces defined below. See <code>intro(3)</code> for additional information on shared object interfaces.							
	advance	<code>circf</code>						
	compile	<code>devattr</code>						
	devfree	<code>devreserv</code>						
	<code>get_ABI_namelngth</code>	<code>getdev</code>						
	<code>getdgrp</code>	<code>getvol</code>						
	<code>listdev</code>	<code>listdgrp</code>						
	<code>loc1</code>	<code>loc2</code>						
	<code>locs</code>	<code>nbra</code>						
	<code>pkgdir</code>	<code>pkginfo</code>						
	<code>pkgnmchk</code>	<code>pkparam</code>						
	<code>read_vtoc</code>	<code>reservdev</code>						
	<code>sed</code>	<code>set_ABI_namelngth</code>						
	<code>step</code>	<code>write_vtoc</code>						
FILES	<code>/usr/lib/libadm.a</code>	archive library						
	<code>/usr/lib/libadm.so.1</code>	shared object						
	<code>/usr/lib/64/libadm.so.1</code>	64-bit shared object						
ATTRIBUTES	See <code>attributes(5)</code> for descriptions of the following attributes:							
<table border="1"> <thead> <tr> <th>ATTRIBUTE TYPE</th><th>ATTRIBUTE VALUE</th></tr> </thead> <tbody> <tr> <td>Availability</td><td>SUNWcsl, SUNWarc (32-bit) SUNWcslx (64-bit)</td></tr> <tr> <td>MT-Level</td><td>Unsafe</td></tr> </tbody> </table>			ATTRIBUTE TYPE	ATTRIBUTE VALUE	Availability	SUNWcsl, SUNWarc (32-bit) SUNWcslx (64-bit)	MT-Level	Unsafe
ATTRIBUTE TYPE	ATTRIBUTE VALUE							
Availability	SUNWcsl, SUNWarc (32-bit) SUNWcslx (64-bit)							
MT-Level	Unsafe							
SEE ALSO	<code>pvs(1), intro(3), read_vtoc(3EXT), attributes(5), regexp(5)</code>							

libaio(3LIB)

NAME	libaio – asynchronous I/O library						
SYNOPSIS	<code>cc [flag . . .] file . . . -laio [library . . .]</code>						
DESCRIPTION	Functions in this library provide routines for asynchronous I/O.						
INTERFACES	The shared object <code>libaio.so.1</code> provides the public interfaces defined below. See <code>intro(3)</code> for additional information on shared object interfaces.						
	<code>aiocancel</code> <code>aioread</code> <code>aiowait</code> <code>aiowrite</code> <code>assfail</code> <code>close</code> <code>fork</code> <code>sigaction</code> <code>sigignore</code> <code>signal</code> <code>sigset</code>						
	The following interfaces are unique to the 32-bit version of this library: <code>aioread64</code> <code>aiowrite64</code>						
FILES	<code>/usr/lib/libaio.so.1</code> shared object <code>/usr/lib/64/libaio.so.1</code> 64-bit shared object						
ATTRIBUTES	See <code>attributes(5)</code> for descriptions of the following attributes:						
	<table border="1"><thead><tr><th>ATTRIBUTE TYPE</th><th>ATTRIBUTE VALUE</th></tr></thead><tbody><tr><td>Availability</td><td>SUNWcsl (32-bit) SUNWcslx (64-bit)</td></tr><tr><td>MT-Level</td><td>Safe</td></tr></tbody></table>	ATTRIBUTE TYPE	ATTRIBUTE VALUE	Availability	SUNWcsl (32-bit) SUNWcslx (64-bit)	MT-Level	Safe
ATTRIBUTE TYPE	ATTRIBUTE VALUE						
Availability	SUNWcsl (32-bit) SUNWcslx (64-bit)						
MT-Level	Safe						
SEE ALSO	<code>pvs(1)</code> , <code>intro(2)</code> , <code>intro(3)</code> , <code>aiocancel(3AIO)</code> , <code>aioread(3AIO)</code> , <code>aiowait(3AIO)</code> , <code>aiowrite(3AIO)</code> , <code>attributes(5)</code>						

NAME	libbsdmalloc – memory allocator interface library						
SYNOPSIS	<pre>cc [flag . . .] file . . . -lbsdmalloc [library . . .] #include <stdlib.h></pre>						
DESCRIPTION	Functions in this library provide a collection of <code>malloc</code> routines that use BSD semantics.						
INTERFACES	The shared object <code>libbsdmalloc.so.1</code> provides the public interfaces defined below. See <code>intro(3)</code> for additional information on shared object interfaces.						
	free malloc realloc						
FILES	<p>/usr/lib/libbsdmalloc.a archive library</p> <p>/usr/lib/libbsdmalloc.so.1 shared object</p> <p>/usr/lib/64/libbsdmalloc.so.1 64-bit shared object</p>						
ATTRIBUTES	See <code>attributes(5)</code> for description of the following attributes:						
	<table border="1"> <thead> <tr> <th>ATTRIBUTE TYPE</th><th>ATTRIBUTE VALUE</th></tr> </thead> <tbody> <tr> <td>Availability</td><td>SUNWcsl, SUNWarc (32-bit) SUNWcslx (64-bit)</td></tr> <tr> <td>MT Level</td><td>Unsafe</td></tr> </tbody> </table>	ATTRIBUTE TYPE	ATTRIBUTE VALUE	Availability	SUNWcsl, SUNWarc (32-bit) SUNWcslx (64-bit)	MT Level	Unsafe
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Availability	SUNWcsl, SUNWarc (32-bit) SUNWcslx (64-bit)						
MT Level	Unsafe						
SEE ALSO	pvs(1), <code>intro(3)</code> , <code>bsdmalloc(3MALLOC)</code> , <code>attributes(5)</code>						

libbsm(3LIB)

NAME	libbsm – basic security library
SYNOPSIS	<code>cc [<i>flag</i> . . .] <i>file</i> . . . -l<code>bsm</code> [<i>library</i> . . .]</code>
DESCRIPTION	Functions in this library provide basic security, library object reuse, and auditing.
INTERFACES	The shared object <code>libbsm.so.1</code> provides the public interfaces defined below. See <code>intro(3)</code> for additional information on shared object interfaces.
<code>au_close</code>	<code>au_open</code>
<code>au_pselect</code>	<code>au_to_arg</code>
<code>au_to_arg32</code>	<code>au_to_arg64</code>
<code>au_to_attr</code>	<code>au_to_cmd</code>
<code>au_to_data</code>	<code>au_to_groups</code>
<code>au_to_in_addr</code>	<code>au_to_ipc</code>
<code>au_to_iprot</code>	<code>au_to_me</code>
<code>au_to_newgroups</code>	<code>au_to_opaque</code>
<code>au_to_path</code>	<code>au_to_process</code>
<code>au_to_return</code>	<code>au_to_return32</code>
<code>au_to_return64</code>	<code>au_to_socket</code>
<code>au_to_subject</code>	<code>au_to_subject_ex</code>
<code>au_to_text</code>	<code>au_user_mask</code>
<code>au_write</code>	<code>audit</code>
<code>auditon</code>	<code>auditsvc</code>
<code>endac</code>	<code>endauclass</code>
<code>endauevent</code>	<code>endauser</code>
<code>getacdir</code>	<code>getacf1g</code>
<code>getacmin</code>	<code>getacna</code>
<code>getauclassent</code>	<code>getauclassent_r</code>
<code>getauclassnam</code>	<code>getauclassnam_r</code>
<code>getaudit</code>	<code>getaudit_addr</code>
<code>getauditflagsbin</code>	<code>getauditflagschar</code>
<code>getauevent</code>	<code>getauevent_r</code>

getauevnam	getauevnam_r
getauevnonam	getauevnum
getauevnum_r	getauid
getauuserent	getauuserent_r
getauusernam	getauusernam_r
getfauditflags	setac
setauclass	setauclassfile
setaudit	setaudit_addr
setauevent	setaueventfile
setauid	setauuser
setauuserfile	testac

FILES /usr/lib/libbsm.a archive library

/usr/lib/libbsm.so.1 shared object

/usr/lib/64/libbsm.so.1 64-bit shared object

ATTRIBUTES See attributes(5) for descriptions of the following attributes:

ATTRIBUTE TYPE	ATTRIBUTE VALUE
Availability	SUNWcsl, SUNWarc (32-bit) SUNWcslx (64-bit)
MT-Level	See individual man page for each function.

SEE ALSO pvs(1), intro(3), attributes(5)

libc(3LIB)

NAME	libc – C library																																												
SYNOPSIS	<code>cc [flag...] file... -lc [library ...]</code>																																												
DESCRIPTION	Functions in this library provide various facilities defined by System V, ANSI C, POSIX, and so on. See standards(5) . In addition, those facilities previously defined in the internationalization and the wide-character libraries are now defined in this library, as are the facilities previously defined in the multithreading libraries, <code>libthread</code> and <code>libpthread</code> .																																												
INTERFACES	The shared object <code>libc.so.1</code> provides the public interfaces defined below. See intro(3) for additional information on shared object interfaces.																																												
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_acct	_addseverity
_alarm	_altzone
_assert	_catclose
_catgets	_catopen
_cfgetispeed	_cfgetospeed
_cfsetispeed	_cfsetospeed
_chdir	_chmod
_chown	_chroot
_cleanup	_close
_closedir	_closefrom
_creat	_crypt
_ctermid	_ctype
_cuserid	_daylight
_dup	_dup2
_encrypt	_environ
_execl	_execle
_execlp	_execv
_execve	_execvp
_exit	_exithandle
_fattach	_fchdir
_fchmod	_fchown
_fcntl	_fddetach
_fdopen	_fdwalk
_filbuf	_fileno
_flsbuf	_flushlbf
_fmtmsg	_fork
_fpathconf	_fstat
_fstatvfs	_fsync
_ftok	_getacct
_getcontext	_getcwd

libc(3LIB)

_getdate	_getdate_err
_getdate_err_addr	_getegid
_geteuid	_getexecname
_getgid	_getgrgid
_getgrnam	_getgroups
_getitimer	_getlogin
_getmsg	_ getopt
_getpass	_getpgid
_getpgrp	_getpid
_getpmsg	_getppid
_getprojid	_getpwnam
_getpwuid	_getrlimit
_getsid	_getsubopt
_gettakid	_gettimeofday
_gettkt	_getuid
_getw	_grantpt
_hcreate	_hdestroy
_hsearch	_initgroups
_insque	_iob
_ioctl	_isascii
_isastream	_isatty
_isnan	_isnand
_kill	_lchown
_lfind	_link
_lockf	_longjmp
_lsearch	_lseek
_lstat	_lwp_cond_broadcast
_lwp_cond_reltimedwait	_lwp_cond_signal
_lwp_cond_timedwait	_lwp_cond_wait
_lwp_continue	_lwp_info

_lwp_kill	
_lwp_mutex_lock	_lwp_mutex_trylock
_lwp_mutex_unlock	_lwp_self
_lwp_sema_init	_lwp_sema_post
_lwp_sema_trywait	_lwp_sema_wait
_lwp_suspend	_lwp_suspend2
_makecontext	_memccpy
_memcntl	_mkdir
_mkfifo	_mknod
_mkstemp	_mktemp
_mlock	_mmap
_modf	_monitor
_mount	_mprotect
_msgctl	_msgget
_msgids	_msgrcv
_msgsnap	_msgsnd
_msync	_munlock
_munmap	_mutex_held
_mutex_lock	_nextafter
_nftw	_nice
_nl_langinfo	_nsc_trydoorcall
_nss_XbyY_buf_alloc	_nss_XbyY_buf_free
_nss_netdb_aliases	_ntp_adjtime
_ntp_gettime	_numeric
_open	_opendir
_pathconf	_pause
_pclose	_pipe
_poll	_popen
_profil	_ptrace
_ptsname	_putacct

libc(3LIB)

<code>_putenv</code>	<code>_putmsg</code>
<code>_putpmsg</code>	<code>_putw</code>
<code>_read</code>	<code>_readdir</code>
<code>_readlink</code>	<code>_readv</code>
<code>_remque</code>	<code>_rename</code>
<code>_resolvepath</code>	<code>_rewinddir</code>
<code>_rmdir</code>	<code>_rw_read_held</code>
<code>_rw_write_held</code>	<code>_rwlock_destroy</code>
<code>_sbrk</code>	<code>_scalb</code>
<code>_seekdir</code>	<code>_sema_destroy</code>
<code>_sema_held</code>	<code>_semctl</code>
<code>_semget</code>	<code>_semids</code>
<code>_semop</code>	<code>_semtimedop</code>
<code>_setcontext</code>	<code>_setgid</code>
<code>_setgroups</code>	<code>_setitimer</code>
<code>_setjmp</code>	<code>_setkey</code>
<code>_setpgid</code>	<code>_setpgrp</code>
<code>_setrlimit</code>	<code>_setsid</code>
<code>_settaskid</code>	<code>_setuid</code>
<code>_shmat</code>	<code>_shmctl</code>
<code>_shmadt</code>	<code>_shmget</code>
<code>_shmids</code>	<code>_sibuf</code>
<code>_sigaction</code>	<code>_sigaddset</code>
<code>_sigaltstack</code>	<code>_sigdelset</code>
<code>_sigemptyset</code>	<code>_sigfillset</code>
<code>_sighold</code>	<code>_sigignore</code>
<code>_sigismember</code>	<code>_siglongjmp</code>
<code>_sigpause</code>	<code>_sigpending</code>
<code>_sigprocmask</code>	<code>_sigrelse</code>
<code>_sigsend</code>	<code>_sigsendset</code>

_sigset	_sigsetjmp
_sigsuspend	_sleep
_sobuf	_stack_grow
_stat	_statvfs
_stime	_strdup
_swab	_swapcontext
_symlink	_sync
_sys_buslist	_sys_cldlist
_sys_fplist	_sys_illlist
_sys_segvlist	_sys_siginfolistp
_sys_siglist	_sys_siglistn
_sys_siglistp	_sys_traplist
_syscall	_sysconf
_sysinfo	_syslog
_tcdrain	_tcflow
_tcflush	_tcgetattr
_tcgetpgrp	_tcgetsid
_tcsendbreak	_tcsetattr
_tcsetpgrp	_tdelete
_tell	_telldir
_tempnam	_tfind
_time	_times
_timezone	_toascii
_tolower	_toupper
_tsearch	_ttynname
_twalk	_tzname
_tzset	_ulimit
_umask	_umount
_umount2	_uname
_unlink	_unlockpt

libc(3LIB)

_utime	_wait
_waitid	_waitpid
_wracct	_write
_writev	_xftw
a64l	abort
abs	access
acct	acl
addsev	addseverity
adjtime	alarm
altzone	ascftime
asctime	asctime_r
atexit	atof
atoi	atol
atoll	attropen
basename	bcmp
bcopy	bindtextdomain
bind_textdomain_codeset	brk
bsd_signal	bsearch
btowc	bzero
calloc	catclose
catgets	catopen
cfgetispeed	cfgetospeed
cfree	cfsetispeed
cfsetospeed	cftime
chdir	chmod
chown	chroot
clearerr	clock
close	closedir
closefrom	closelog
cond_broadcast	cond_destroy

libc(3LIB)

cond_init	cond_signal
cond_timedwait	cond_wait
confstr	creat
crypt	crypt_genhash_impl
crypt_gensalt	crypt_gensalt_impl
csetcol	csetlen
ctermid	ctermid_r
ctime	ctime_r
cuserid	daylight
dcgettext	dcngettext
dbm_clearerr	dbm_close
dbm_delete	dbm_error
dbm_fetch	dbm_firstkey
dbm_nextkey	dbm_open
dbm_store	dcgettext
decimal_to_double	decimal_to_extended
decimal_to_quadruple	decimal_to_single
dgettext	difftime
directio	dirname
div	double_to_decimal
drand48	dup
dup2	econvert
ecvt	encrypt
endgrent	endnetgrent
endpwent	endspent
endusershell	endutent
endutxent	environ
erand48	errno
euccol	euclen
eucscol	exec1

libc(3LIB)

execle	execlp
execv	execve
execvp	exit
exportfs	extended_to_decimal
facl	fattach
fchdir	fchmod
fchown	fchownat
fchroot	fclose
fcntl	fconvert
fcvt	fdetach
fdopen	fdopendir
fdwalk	feof
ferror	fflush
ffs	fgetc
fgetgrent	fgetgrent_r
fgetpos	fgetpwent
fgetspent_r	fgets
fgetspent	fgetspent_r
fgetwc	fgetws
file_to_decimal	fileno
finite	flockfile
fmtmsg	fnmatch
fopen	fork
fork1	fpathconf
fpclass	fpgetmask
fpgetround	fpgetsticky
fprintf	fpsetmask
fpsetround	fpsetsticky
fputc	fputs
fputwc	fputws

fread	free
freopen	frexp
fscanf	fseek
fseeko	fsetpos
fstat	fstatat
fstatfs	fstatvfs
fsync	ftell
ftello	ftime
ftok	ftruncate
ftrylockfile	ftw
func_to_decimal	funlockfile
futimesat	fwide
fwprintf	fwrite
fwscanf	gconvert
gcvt	getacct
getc	getc_unlocked
getchar	getchar_unlocked
getcontext	getcpuid
getcwd	getdate
getdate_err	getdents
getdtabsize	getegid
getenv	geteuid
getexecname	gettextmntent
getgid	getgrent
getgrent_r	getgrgid
getgrgid_r	getgrnam
getgrnam_r	getgroups
gethomelgroup	gethostid
gethostname	gethrtime
gethrvtime	getitimer

libc(3LIB)

getloadavg	getlogin
getlogin_r	getmntany
getmntent	getmsg
getnetgrent	getnetgrent_r
getopt	getpagesize
getpagesizes	getpass
getpassphrase	getpflags
getpgid	getpgrp
getpid	getpmsg
getppid	getppriv
getpriority	getprojid
getpw	getpwent
getpwent_r	getpwnam
getpwnam_r	getpwuid
getpwuid_r	getrctl
getrlimit	getrusage
gets	getsid
getspent	getspent_r
getspnam	getspnam_r
getsubopt	gettakid
gettext	gettimeofday
gettkt	getuid
getusershell	getustack
getutent	getutid
getutline	getutmp
getutmpx	getutxent
getutxid	getutxline
getvfsany	getvfssent
getvfsfile	getvfsspec
getw	getwc

libc(3LIB)

getwchar	getwd
getwidth	getws
glob	globfree
gmtime	gmtime_r
grantpt	gsignal
hasmntop	hcreate
hdestroy	hsearch
iconv	iconv_close
iconv_open	index
initgroups	initstate
innetgr	insque
ioctl	isaexec
isalnum	isalpha
isascii	isastream
isatty	iscntrl
isdigit	isenglish
isgraph	isideogram
islower	isnan
isnand	isnanf
isnumber	isphonogram
isprint	ispunct
issetugid	isspace
isspecial	isupper
iswalnum	iswalpha
iswcntrl	iswctype
iswdigit	iswgraph
iswlower	iswprint
iswpunct	iswspace
iswupper	iswxdigit
isxdigit	jrand48

libc(3LIB)

kill	killpg
164a	labs
ladd	lchown
lckpwdf	lcong48
ldexp	ldivide
lexp10	lfind
lfmt	lgrp_home
link	
llabs	lldiv
llog10	llseek
lltostr	localeconv
localtime	localtime_r
lockf	logb
lone	longjmp
lrand48	lsearch
lseek	lshiftl
lstat	lsub
lten	lzero
madvise	makecontext
makeutx	malloc
mblen	mbrlen
mbrtowc	mbsinit
mbsrtowcs	mbstowcs
mbtowc	memalign
memccpy	memchr
memcmp	memcntl
memcpy	meminfo
memmove	memset
mincore	mkdir
mkfifo	mknod

mkstemp	mktemp
mktimes	mlock
mlockall	mmap
modctl	modf
modff	modutx
monitor	mount
mprotect	mrand48
msgctl	msgget
msgids	msgrcv
msgsnap	msgsnd
msync	munlock
munlockall	munmap
mutex_destroy	mutex_init
mutex_lock	mutex_trylock
mutex_unlock	nextafter
nfs_getfh	nftw
ngettext	nice
nl_langinfo	nrand48
nss_default_finders	nss_delete
nss_endent	nss_getent
nss_search	nss_setent
ntp_adjtime	ntp_gettime
open	openat
opendir	openlog
optarg	opterr
optind	optopt
p_online	pathconf
pause	pclose
pcsample	perror
pfmt	pipe

libc(3LIB)

plock	poll
popen	pread
printf	printstack
priv_addset	priv_allocset
priv_copyset	priv_delset
priv_emptyset	priv_fillset
priv_freeset	priv_getbyname
priv_getbynum	priv_getsetbyname
priv_getsetbynum	priv_intersect
priv_inverse	priv_isemptyset
priv_isequalset	priv_isfullset
priv_ismember	priv_issubset
priv_set	priv_set_to_str
priv_str_to_set	priv_union
processor_bind	processor_info
profil	pset_assign
pset_bind	pset_create
pset_destroy	pset_getattr
pset_getloadavg	pset_info
pset_list	pset_setattr
psiginfo	psignal
pthread_atfork	pthread_attr_destroy
pthread_attr_getdetachstate	pthread_attr_getguardsize
pthread_attr_getinheritsched	pthread_attr_getschedparam
pthread_attr_getschedpolicy	pthread_attr_getscope
pthread_attr_getstackaddr	pthread_attr_getstacksize
pthread_attr_init	pthread_attr_setdetachstate
pthread_attr_setguardsize	pthread_attr_setinheritsched
pthread_attr_setschedparam	pthread_attr_setschedpolicy
pthread_attr_setscope	pthread_attr_setstackaddr

libc(3LIB)

pthread_attr_setstacksize	pthread_cancel
pthread_cond_broadcast	pthread_cond_destroy
pthread_cond_init	pthread_cond_reltimedwait_np
pthread_cond_signal	pthread_cond_timedwait
pthread_cond_wait	pthread_condattr_destroy
pthread_condattr_getpshared	pthread_condattr_init
pthread_condattr_setpshared	pthread_create
pthread_detach	pthread_equal
pthread_exit	pthread_getconcurrency
pthread_getschedparam	pthread_getspecific
pthread_join	pthread_key_create
pthread_key_delete	pthread_kill
pthread_mutex_destroy	pthread_mutex_getprioceiling
pthread_mutex_init	pthread_mutex_lock
pthread_mutex_setprioceiling	pthread_mutex_trylock
pthread_mutex_unlock	pthread_mutexattr_destroy
pthread_mutexattr_getprioceiling	pthread_mutexattr_getprotocol
pthread_mutexattr_getpshared	pthread_mutexattr_gettype
pthread_mutexattr_init	pthread_mutexattr_setprioceiling
pthread_mutexattr_setprotocol	pthread_mutexattr_setpshared
pthread_mutexattr_settype	pthread_once
pthread_rwlock_destroy	pthread_rwlock_init
pthread_rwlock_rdlock	pthread_rwlock_tryrdlock
pthread_rwlock_trywrlock	pthread_rwlock_unlock
pthread_rwlock_wrlock	pthread_rwlockattr_destroy
pthread_rwlockattr_getpshared	pthread_rwlockattr_init
pthread_rwlockattr_setpshared	pthread_self
pthread_setcancelstate	pthread_setcanceltype
pthread_setconcurrency	pthread_setschedparam
pthread_setspecific	pthread_sigmask

libc(3LIB)

pthread_testcancel	
ptsname	putacct
putc	putc_unlocked
putchar	putchar_unlocked
putenv	putmsg
putpmsg	putpwent
puts	putspent
pututline	pututxline
putw	putwc
putwchar	putws
pwrite	qeconvert
qecvt	qfconvert
qfcvt	qgconvert
qgcvt	qsort
quadruple_to_decimal	raise
rand	rand_r
random	rctl_walk
rctlblk_get_enforced_value	rctlblk_get_firing_time
rctlblk_get_global_action	rctlblk_get_global_flags
rctlblk_get_local_action	rctlblk_get_local_flags
rctlblk_get_privilege	rctlblk_get_recipient_pid
rctlblk_get_value	rctlblk_set_local_action
rctlblk_set_local_flags	rctlblk_set_privilege
rctlblk_set_value	rctlblk_set_value
re_comp	re_exec
read	readdir
readdir_r	readlink
readv	realloc
realpath	reboot
regcmp	regcomp

regerror	regex
regexec	regfree
remove	remque
rename	renameat
resetmnttab	resolvepath
rewind	rewinddir
rindex	rmdir
rw_rdlock	rw_read_held
rw_tryrdlock	rw_trywrlock
rw_unlock	rw_write_held
rw_wrlock	rwlock_destroy
rwlock_init	sbrk
scalb	scanf
seconvert	seed48
seekdir	select
sema_destroy	sema_held
sema_init	sema_post
sema_trywait	sema_wait
semctl	semget
semids	semop
semtimedop	setbuf
setbuffer	setcat
setcontext	setegid
seteuid	setgid
setgrent	setgroups
sethostname	setitimer
setjmp	setkey
setlabel	setlinebuf
setlocale	setlogmask
setnetgrent	setpflags

libc(3LIB)

setpgid	setpgrp
setppriv	setpriority
setpwent	setrctl
setregid	setreuid
setrlimit	setsid
setspent	setstate
settaskid	settimeofday
setuid	setusershell
setustack	setutent
setutxent	setvbuf
sfconvert	sgconvert
shmat	shmctl
shmdt	shmget
shmids	sig2str
sigaction	sigaddset
sigaltstack	sigdelset
sigemptyset	sigfillset
sigfpe	sighold
sigignore	siginterrupt
sigismember	siglongjmp
signal	sigpause
sigpending	sigprocmask
sigrelse	sigsend
sigsendset	sigset
sigsetjmp	sigstack
sigsuspend	sigwait
single_to_decimal	sleep
snprintf	sprintf
srand	srand48
srandom	sscanf

libc(3LIB)

ssignal	stack_getbounds
stack_inbounds	stack_setbounds
stackViolation	stat
statfs	statvfs
stime	str2sig
strcasecmp	strcat
strchr	strcmp
strcoll	strcpy
strcspn	strdup
strerror	strfmon
strftime	string_to_decimal
strlcat	strlcpy
strlen	strncasecmp
strncat	strncmp
strncpy	strpbrk
strptime	strrchr
strsignal	strspn
strstr	strtod
strtok	strtok_r
strtol	strtoll
strtoul	strtoull
strtows	strxfrm
swab	swapcontext
swapctl	swprintf
swscanf	symlink
sync	sync_instruction_memory
syscall	sysconf
sysfs	sysinfo
syslog	system
tcdrain	tcflow

libc(3LIB)

tcflush	tcgetattr
tcgetpgrp	tcgetsid
tcsendbreak	tcsetattr
tcsetpgrp	tdelete
tell	telldir
tempnam	textdomain
tfind	thr_continue
thr_create	thr_exit
thr_getconcurrency	thr_getprio
thr_getspecific	thr_join
thr_keycreate	thr_kill
thr_main	thr_min_stack
thr_self	thr_setconcurrency
thr_setprio	thr_setspecific
thr_sigsetmask	thr_stksegment
thr_suspend	thr_yield
time	times
timezone	tmpfile
tmpnam	tmpnam_r
toascii	tolower
toupper	towctrans
towlower	towupper
truncate	tsearch
ttynname	ttynname_r
ttyslot	twalk
tzname	tzset
uadmin	ualarm
ucred_free	ucred_get
ucred_getegid	ucred_geteuid
ucred_getgroups	ucred_getpflags

libc(3LIB)

ucred_getpid	ucred_getprivset
ucred_getrgid	ucred_getruid
ucred_getsgid	ucred_getsuid
ulckpwmf	ulimit
ulltostr	umask
umount	umount2
uname	ungetc
ungetwc	unlink
unlinkat	unlockpt
unordered	updwttmp
updwttmpx	usleep
ustat	utime
utimes	utmpname
utmpxname	valloc
vfork	vfprintf
vfscanf	vfwprintf
vfwscanf	vhangup
vlfmt	vpfmt
vprintf	vscanf
vsnprintf	vsprintf
vsscanf	vswprintf
vswscanf	vsyslog
vwprintf	vwscanf
wait	wait3
wait4	waitid
waitpid	walkcontext
watoll	wcrtomb
wcscat	wcschr
wcscmp	wcscoll
wcscpy	wcscspn

libc(3LIB)

wcsftime	wcslen
wcsncat	wcsncmp
wcsncpy	wcspbrk
wcsrchr	wcsrtombs
wcsspn	wcsstr
wcstod	wcstok
wcstol	wcstombs
wcstoul	wcswcs
wcswidth	wcsxfrm
wctob	wctomb
wctrans	wctype
wcwidth	wmemchr
wmemcmp	wmemcpy
wmemmove	wmemset
wordexp	wordfree
wprintf	wracct
write	writev
wscanf	wscasecmp
wscat	wschr
wscmp	wscol
wscoll	wscopy
wscspn	wsdup
wslen	wsncasecmp
wsncat	wsncmp
wsncpy	wpbrk
wsprintf	wsrchr
wsscanf	wsspn
wstod	wstok
wstol	wstoll
wstosetr	wsxfrm

yield

The following interfaces are unique to the 32-bit version of this library:

__div64	__mul64
__posix_readdir_r	__rem64
__udiv64	__urem64
_bufendtab	_creat64
_fstat64	_fstatvfs64
_ftruncate64	_ftw64
_getdents64	_getrlimit64
_lastbuf	_lockf64
_lseek64	_lstat64
_mkstemp64	_mmap64
_nftw64	_open64
_pread64	_pwrite64
_readdir64	_readdir64_r
_s_fcntl	_setrlimit64
_stat64	_statvfs64
_sys_nsig	_tell64
_truncate64	_xftw64
creat64	fgetpos64
fopen64	freopen64
fseeko64	fsetpos64
fstat64	fstatvfs64
ftello64	ftruncate64
ftw64	getdents64
getrlimit64	lockf64
lseek64	lstat64
mkstemp64	mmap64
nftw64	open64

libc(3LIB)

pread64	ptrace
pwrite64	readdir64
readdir64_r	s_fcntl
s_ioctl	select_large_fdset
setrlimit64	stat64
statvfs64	sys_errlist
sys_nerr	tell64
tmpfile64	truncate64

The following interfaces are unique to the 32-bit SPARC version of this library:

.div	.mul
.rem	.stret1
.stret2	.stret4
.stret8	.udiv
.umul	.urem
_Q_add	_Q_cmp
_Q_cmpe	_Q_div
_Q_dtoq	_Q_feq
_Q_fge	_Q_fgt
_Q_fle	_Q_flt
_Q_fne	_Q_itoq
_Q_lltoq	_Q_mul
_Q_neg	_Q_qtod
_Q_qtoi	_Q_qtoll
_Q_qtos	_Q_qtou
_Q_qtoull	_Q_sqrt
_Q_stoq	_Q_sub
_Q_ulltoq	_Q_utoq
_dtoll	_dtou
_dtoull	_ftoll

<code>__ftou</code>	<code>__ftoull</code>
<code>__umul64</code>	

The following interfaces are unique to the 32-bit x86 version of this library:

<code>__fpstart</code>	<code>_fp_hw</code>
<code>_fpstart</code>	<code>_fxstat</code>
<code>_lxstat</code>	<code>_nuname</code>
<code>_thr_errno_addr</code>	<code>_xmknod</code>
<code>_xstat</code>	<code>nuname</code>

The following interfaces are unique to the 64-bit SPARC version of this library:

<code>_Qp_add</code>	<code>_Qp_cmp</code>
<code>_Qp_cmpe</code>	<code>_Qp_div</code>
<code>_Qp_dtoq</code>	<code>_Qp_feq</code>
<code>_Qp_fge</code>	<code>_Qp_fgt</code>
<code>_Qp_fle</code>	<code>_Qp_flt</code>
<code>_Qp_fne</code>	<code>_Qp_itoq</code>
<code>_Qp_mul</code>	<code>_Qp_neg</code>
<code>_Qp_qtod</code>	<code>_Qp_qtoi</code>
<code>_Qp_qtos</code>	<code>_Qp_qtoui</code>
<code>_Qp_qtoux</code>	<code>_Qp_qtox</code>
<code>_Qp_sqrt</code>	<code>_Qp_stoq</code>
<code>_Qp_sub</code>	<code>_Qp_uitoq</code>
<code>_Qp_uxtoq</code>	<code>_Qp_xtoq</code>
<code>__align_cpy_1</code>	<code>__align_cpy_16</code>
<code>__align_cpy_2</code>	<code>__align_cpy_4</code>
<code>__align_cpy_8</code>	<code>_dtoul</code>
<code>_ftoul</code>	<code>_sparc_utrap_install</code>

FILES	<code>/usr/lib/libc.so.1</code>	shared object
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libc(3LIB)

/usr/lib/64/libc.so.1 64-bit shared object

ATTRIBUTES See [attributes\(5\)](#) for descriptions of the following attributes:

ATTRIBUTE TYPE	ATTRIBUTE VALUE
Availability	SUNWcsl (32-bit) SUNWcslx (64-bit)
MT-Level	Safe

SEE ALSO [pvs\(1\)](#), [intro\(2\)](#), [intro\(3\)](#), [attributes\(5\)](#), [lf64\(5\)](#), [standards\(5\)](#)

libcfgadm(3LIB)

NAME	libcfgadm – configuration administration library										
SYNOPSIS	<pre>cc [flag . . .] file . . . -lcfgadm -ldevinfo -ldl [library . . .] #include <config_admin.h></pre>										
DESCRIPTION	Functions in this library provide services for configuration administration.										
INTERFACES	The shared object libcfgadm.so.1 provides the public interfaces defined below. See intro(3) for additional information on shared object interfaces.										
	<table> <tr><td>config_ap_id_cmp</td><td>config_change_state</td></tr> <tr><td>config_help</td><td>config_list</td></tr> <tr><td>config_list_ext</td><td>config_private_func</td></tr> <tr><td>config_stat</td><td>config_strerror</td></tr> <tr><td>config_test</td><td>config_unload_libs</td></tr> </table>	config_ap_id_cmp	config_change_state	config_help	config_list	config_list_ext	config_private_func	config_stat	config_strerror	config_test	config_unload_libs
config_ap_id_cmp	config_change_state										
config_help	config_list										
config_list_ext	config_private_func										
config_stat	config_strerror										
config_test	config_unload_libs										
FILES	<p>/usr/lib/libcfgadm.so.1 shared object</p> <p>/usr/lib/64/libcfgadm.so.1 64-bit shared object</p>										
ATTRIBUTES	See attributes(5) for descriptions of the following attributes:										
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ATTRIBUTE TYPE	ATTRIBUTE VALUE										
Availability	SUNWcsl (32-bit) SUNWcslx (64-bit)										
MT Level	Mt-Safe										
SEE ALSO	pvs(1), cfgadm(1M), intro(3), config_admin(3CFGADM), attributes(5)										

libcpc(3LIB)

NAME	libcpc – CPU performance counter library							
SYNOPSIS	<code>cc [flag . . .] file . . . -lcpc [library . . .]</code>							
DESCRIPTION	Functions in this library provide access to CPU performance counters on platforms that contain the appropriate hardware.							
INTERFACES	The shared object <code>libcpc.so.1</code> provides the public interfaces defined below. See <code>intro(3)</code> for additional information on shared object interfaces.							
	<code>cpc_access</code>	<code>cpc_bind_event</code>						
	<code>cpc_count_sys_events</code>	<code>cpc_count_usr_events</code>						
	<code>cpc_event_accum</code>	<code>cpc_event_diff</code>						
	<code>cpc_eventtostr</code>	<code>cpc_getcciname</code>						
	<code>cpc_getcpuref</code>	<code>cpc_getcpuver</code>						
	<code>cpc_getnpic</code>	<code>cpc_getusage</code>						
	<code>cpc_pctx_bind_event</code>	<code>cpc_pctx_invalidate</code>						
	<code>cpc_pctx_rele</code>	<code>cpc_pctx_take_sample</code>						
	<code>cpc_rele</code>	<code>cpc_seterrfn</code>						
	<code>cpc_shared_bind_event</code>	<code>cpc_shared_close</code>						
	<code>cpc_shared_open</code>	<code>cpc_shared_rele</code>						
	<code>cpc_shared_take_sample</code>	<code>cpc_strtoevent</code>						
	<code>cpc_take_sample</code>	<code>cpc_version</code>						
	<code>cpc_walk_names</code>							
FILES	<code>/usr/lib/libcpc.so.1</code>	shared object						
	<code>/usr/lib/64/libcpc.so.1</code>	64-bit shared object						
ATTRIBUTES	See <code>attributes(5)</code> for descriptions of the following attributes:							
	<table border="1"><thead><tr><th>ATTRIBUTE TYPE</th><th>ATTRIBUTE VALUE</th></tr></thead><tbody><tr><td>Availability</td><td>SUNWcpcu (32-bit) SUNWcpcux (64-bit)</td></tr><tr><td>MT-Level</td><td>Safe</td></tr></tbody></table>		ATTRIBUTE TYPE	ATTRIBUTE VALUE	Availability	SUNWcpcu (32-bit) SUNWcpcux (64-bit)	MT-Level	Safe
ATTRIBUTE TYPE	ATTRIBUTE VALUE							
Availability	SUNWcpcu (32-bit) SUNWcpcux (64-bit)							
MT-Level	Safe							
SEE ALSO	<code>cputrack(1), cpustat(1M), intro(3), cpc(3CPC), attributes(5)</code>							

NAME	libcrypt – encryption/decryption library						
SYNOPSIS	<code>cc [flag . . .] file . . . -lcrypt [library . . .]</code>						
DESCRIPTION	Functions in this library provide encoding and decoding handling routines.						
INTERFACES	The shared object <code>libcrypt.so.1</code> provides the public interfaces defined below. See <code>intro(3)</code> for additional information on shared object interfaces.						
	<code>crypt</code>	<code>encrypt</code>	<code>setkey</code>				
FILES	<code>/usr/lib/libcrypt.a</code> archive library <code>/usr/lib/libcrypt.so.1</code> shared object <code>/usr/lib/64/libcrypt.so.1</code> 64-bit shared object						
ATTRIBUTES	See <code>attributes(5)</code> for descriptions of the following attributes:						
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ATTRIBUTE TYPE	ATTRIBUTE VALUE						
MT-Level	Unsafe						
SEE ALSO	<code>crypt(1)</code> , <code>intro(3)</code> , <code>encrypt(3C)</code> , <code>setkey(3C)</code> , <code>attributes(5)</code>						

libcurses(3LIB)

NAME	libcurses, libtermcap, libtermlib – screen handling and optimization library																																								
SYNOPSIS	<code>cc [flag . . .] file . . . -lcurses [library . . .]</code>																																								
DESCRIPTION	Functions in the <code>libcurses</code> library provide a terminal-independent method of updating character screens with reasonable optimization. The <code>libtermcap</code> and <code>libtermlib</code> libraries are identical to <code>libcurses</code> and are maintained for backward compatibility. See <code>libcurses(3XCURSES)</code> for information about the curses library that conforms to X/Open Curses, Issue 4, Version 2.																																								
INTERFACES	The shared objects <code>libcurses.so.1</code> , <code>libtermcap.so.1</code> , and <code>libtermlib.so.1</code> provide the public interfaces defined below. See <code>intro(3)</code> for additional information on shared object interfaces.																																								
	<table><tbody><tr><td><code>_getsyx</code></td><td><code>_meta</code></td></tr><tr><td><code>_ring</code></td><td><code>_setecho</code></td></tr><tr><td><code>_setnonl</code></td><td><code>_setqiflush</code></td></tr><tr><td><code>addch</code></td><td><code>addchnstr</code></td></tr><tr><td><code>addchstr</code></td><td><code>addnstr</code></td></tr><tr><td><code>addnwstr</code></td><td><code>addstr</code></td></tr><tr><td><code>addwch</code></td><td><code>addwchnstr</code></td></tr><tr><td><code>addwchstr</code></td><td><code>addwstr</code></td></tr><tr><td><code>attroff</code></td><td><code>attron</code></td></tr><tr><td><code>attrset</code></td><td><code>baudrate</code></td></tr><tr><td><code>beep</code></td><td><code>bkgd</code></td></tr><tr><td><code>bkgdset</code></td><td><code>border</code></td></tr><tr><td><code>box</code></td><td><code>can_change_color</code></td></tr><tr><td><code>cbreak</code></td><td><code>clear</code></td></tr><tr><td><code>clearok</code></td><td><code>clrtoobot</code></td></tr><tr><td><code>clrtoeol</code></td><td><code>color_content</code></td></tr><tr><td><code>copywin</code></td><td><code>crmode</code></td></tr><tr><td><code>curs_set</code></td><td><code>curserr</code></td></tr><tr><td><code>def_prog_mode</code></td><td><code>def_shell_mode</code></td></tr><tr><td><code>del_curterm</code></td><td><code>delay_output</code></td></tr></tbody></table>	<code>_getsyx</code>	<code>_meta</code>	<code>_ring</code>	<code>_setecho</code>	<code>_setnonl</code>	<code>_setqiflush</code>	<code>addch</code>	<code>addchnstr</code>	<code>addchstr</code>	<code>addnstr</code>	<code>addnwstr</code>	<code>addstr</code>	<code>addwch</code>	<code>addwchnstr</code>	<code>addwchstr</code>	<code>addwstr</code>	<code>attroff</code>	<code>attron</code>	<code>attrset</code>	<code>baudrate</code>	<code>beep</code>	<code>bkgd</code>	<code>bkgdset</code>	<code>border</code>	<code>box</code>	<code>can_change_color</code>	<code>cbreak</code>	<code>clear</code>	<code>clearok</code>	<code>clrtoobot</code>	<code>clrtoeol</code>	<code>color_content</code>	<code>copywin</code>	<code>crmode</code>	<code>curs_set</code>	<code>curserr</code>	<code>def_prog_mode</code>	<code>def_shell_mode</code>	<code>del_curterm</code>	<code>delay_output</code>
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libcurses(3LIB)

delch	deleteln
delkeymap	delscreen
delwin	derwin
doupdate	dupwin
echo	echochar
echowchar	endwin
erase	erasechar
filter	flash
flushinp	getbmap
getch	getmouse
getnwstr	getstr
getwch	getwin
getwstr	halfdelay
has_colors	has_ic
has_il	idcok
idlok	immedok
inch	inchnstr
inchstr	init_color
init_pair	initscr
innstr	innwstr
insch	insdelln
insertln	insnstr
insnwstr	insstr
instr	inswch
inswstr	intrflush
inwch	inwchnstr
inwchstr	inwstr
is_linetouched	is_wintouched
isendwin	keyname
keypad	killchar

libcurses(3LIB)

leaveok	longname
m_addch	m_addstr
m_clear	m_erase
m_initscr	m_move
m_newterm	m_refresh
map_button	meta
mouse_off	mouse_on
mouse_set	move
mvaddch	mvaddchnstr
mvaddchstr	mvaddnstr
mvaddnwstr	mvaddstr
mvaddwch	mvaddwchnstr
mvaddwchstr	mvaddwstr
mvcur	mvdelch
mvderwin	mvgetch
mvgetnwstr	mvgetstr
mvgetwch	mvgetwstr
mvinch	mvinchnstr
mvinchstr	mvinnstr
mvinnwstr	mvinsch
mvinsnstr	mvinsnstr
mvinsstr	mvinstr
mvinswch	mvinswstr
mvinwch	mvinwchnstr
mvinwchstr	mvinwstr
mvprintw	mvscanw
mvwaddch	mvwaddchnstr
mvwaddchstr	mvwaddnstr
mvwaddnwstr	mvwaddstr
mvwaddwch	mvwaddwchnstr

libcurses(3LIB)

mvwaddwchstr	mvwaddwstr
mvwdelch	mvwgetch
mvwgetnwstr	mvwgetstr
mvwgetwch	mvwgetwstr
mvwin	mvwinch
mvwinchnstr	mvwinchstr
mvwinnstr	mvwinnwstr
mvwinsch	mvwinsnstr
mvwinsnwstr	mvwinsstr
mvwinstr	mvwinswch
mvwinswstr	mvwinwch
mvwinwchnstr	mvwinwchstr
mvwinwstr	mvwprintw
mvwscanw	napms
newkey	newpad
newscreen	newterm
newwin	nl
nocbreak	nocrmode
nodelay	noecho
nonl	noqiflush
noraw	notimeout
overlay	overwrite
pair_content	pechochar
pechowchar	pnoutrefresh
prefresh	printw
putp	putwin
qiflush	raw
redrawwin	refresh
request_mouse_pos	reset_prog_mode
reset_shell_mode	resetty

libcurses(3LIB)

restartterm	ripoffline
savetty	scanw
scr_dump	scr_init
scr_restore	scr_set
scrl	scroll
scrolllok	set_term
setcurscreen	setscreg
setsyx	setterm
setupterm	slk_attroff
slk_attron	slk_attrset
slk_clear	slk_init
slk_label	slk_noutrefresh
slk_refresh	slk_restore
slk_set	slk_start
slk_touch	standend
standout	start_color
subpad	subwin
syncok	termattrs
termname	tgetent
tgetflag	tgetnum
tgetstr	tgoto
tigetflag	tigetnum
tigetstr	timeout
touchline	touchwin
tparm	tputs
traceoff	traceon
typeahead	unctrl
ungetch	ungetwch
untouchwin	vidattr
vidputs	vidupdate

libcurses(3LIB)

vwprintw	vwscanw
waddch	waddchnstr
waddchstr	waddnstr
waddnwstr	waddstr
waddwch	waddwchnstr
waddwchstr	waddwstr
wadjcurspos	wattroff
wattron	wattrset
wbkgd	wbkgdset
wborder	wclear
wclrtoobot	wclrtoeol
wcursyncup	wdelch
wdeleteln	wechochar
wechowchar	werase
wgetch	wgetnstr
wgetnwstr	wgetstr
wgetwch	wgetwstr
whline	winch
winchnstr	winchstr
winnstr	winnwstr
winsch	winsdelln
winsertln	winsnstr
winsnwstr	winsstr
winstr	winswch
winswstr	winwch
winwchnstr	winwchstr
winwstr	wmouse_position
wmove	wmovenextch
wmoveprevch	wnoutrefresh
wprintw	wredrawln

libcurses(3LIB)

wrefresh	wscanw
wscr1	wsetsrreg
wstandend	wstandout
wsyncdown	wsyncup
wtimeout	wtouchln
wvline	
FILES	
	/usr/lib/libcurses.a archive library
	/usr/lib/libcurses.so.1 shared object
	/usr/lib/64/libcurses.so.1 64-bit shared object
	/usr/lib/libtermcap.a archive library (hard link to /usr/lib/libcurses.a)
	/usr/lib/libtermcap.so.1 shared object (symbolic link to /usr/lib/libcurses.so.1)
	/usr/lib/64/libtermcap.so.1 64-bit shared object (symbolic link to /usr/lib/64/libcurses.so.1)
	/usr/lib/libtermlib.a archive library (hard link to /usr/lib/libcurses.a)
	/usr/lib/libtermlib.so.1 shared object (symbolic link to /usr/lib/libcurses.so.1)
	/usr/lib/64/libtermlib.so.1 64-bit shared object (symbolic link to /usr/lib/64/libcurses.so.1)

ATTRIBUTES See attributes(5) for descriptions of the following attributes:

ATTRIBUTE TYPE	ATTRIBUTE VALUE
Availability	SUNWcsl, SUNWarc (32-bit) SUNWcslx (64-bit)
MT-Level	Unsafe

SEE ALSO intro(3), curses(3CURSES), libcurses(3LIBUCB), libcurses(3XCURSES), attributes(5)

NAME	libcurses – SunOS/BSD-compatible screen handling and optimization library		
SYNOPSIS	<code>cc [<i>flag . . .</i>] -I /usr/ucbinclude <i>file . . .</i> -L /usr/libucb \ -R /usr/libucb -lcurses [<i>library . . .</i>]</code>		
DESCRIPTION	Functions in this library provide a terminal-independent method of updating character screens with reasonable optimization, compatible with SunOS/BSD.		
INTERFACES	The shared object <code>libcurses.so.1</code> provides the public interfaces defined below. See <code>intro(3)</code> for additional information on shared object interfaces.		
AL	AL_PARM	AM	BC
BS	BT	CA	CD
CE	CL	CM	COLS
CR	CS	DA	DB
DC	DL	DL_PARM	DM
DO	DOWN_PARM	Def_term	ED
EI	EO	GT	HC
HO	HZ	IC	IM
IN	IP	K0	K1
K2	K3	K4	K5
K6	K7	K8	K9
KD	KE	KH	KL
KR	KS	KU	LEFT_PARM
LINES	LL	MA	MI
MS	My_term	NC	ND
NL	NONL	NS	OS
PC	RC	RIGHT_PARM	SC
SE	SF	SO	SR
TA	TE	TI	UC
UE	UL	UP	UPPERCASE
UP_PARM	US	VB	VE
VS	XB	XN	XS
XT	XX	_echoit	_endwin

libcurses(3LIBUCB)

	_pfast	_rawmode	_res_flg	_tty	
	_tty_ch	_unctrl	box	curscr	
	delwin	endwin	getcap	gettmode	
	idlok	initscr	longname	mvcur	
	mvprintw	mvscanw	mvwin	mvwprintw	
	mvwscanw	newwin	normtty	overlay	
	overwrite	printw	scanw	scroll	
	setterm	stdscr	subwin	touchline	
	touchwin	ttytype	waddch	waddstr	
	wclear	wclrtoobot	wclrtoeol	wdelch	
	wdeleteln	werase	wgetch	wgetstr	
	winsch	winsertln	wmove	wprintw	
	wrefresh	wscanw	wstandend	wstandout	
FILES	/usr/libucb/libcurses.a archive library				
	/usr/libucb/libcurses.so.1 shared object				
	/usr/libucb/64/libcurses.so.1 64-bit shared object				
ATTRIBUTES	See attributes(5) for descriptions of the following attributes:				
	<table border="1"><thead><tr><th>ATTRIBUTE TYPE</th><th>ATTRIBUTE VALUE</th></tr></thead><tbody><tr><td>MT-Level</td><td>Unsafe</td></tr></tbody></table>	ATTRIBUTE TYPE	ATTRIBUTE VALUE	MT-Level	Unsafe
ATTRIBUTE TYPE	ATTRIBUTE VALUE				
MT-Level	Unsafe				
SEE ALSO	intro(3), libcurses(3LIB), libcurses(3XCURSES), attributes(5)				

NAME	libdbm – database subroutines library																				
SYNOPSIS	<code>cc [flag . . .] -I /usr/ucbininclude file . . . -L /usr/libucb \ -R /usr/libucb -l dbm [library . . .]</code>																				
DESCRIPTION	Functions in this library maintain key/content pairs in a database. The functions will handle very large (a billion blocks) databases and will access a keyed item in one or two file system accesses.																				
INTERFACES	The shared object <code>libdbm.so.1</code> provides the public interfaces defined below. See <code>intro(3)</code> for additional information on shared object interfaces.																				
	<table> <tr><td>bitno</td><td>blkno</td><td>calchash</td><td>dbmclose</td><td>dbminit</td></tr> <tr><td>dbrdonly</td><td>delete</td><td>dirbuf</td><td>dirf</td><td>fetch</td></tr> <tr><td>firstkey</td><td>hashinc</td><td>hmask</td><td>makdatum</td><td>maxbno</td></tr> <tr><td>nextkey</td><td>pagbuf</td><td>pagf</td><td>store</td><td></td></tr> </table>	bitno	blkno	calchash	dbmclose	dbminit	dbrdonly	delete	dirbuf	dirf	fetch	firstkey	hashinc	hmask	makdatum	maxbno	nextkey	pagbuf	pagf	store	
bitno	blkno	calchash	dbmclose	dbminit																	
dbrdonly	delete	dirbuf	dirf	fetch																	
firstkey	hashinc	hmask	makdatum	maxbno																	
nextkey	pagbuf	pagf	store																		
FILES	<p>/usr/libucb/libdbm.a archive library</p> <p>/usr/libucb/libdbm.so.1 shared object</p> <p>/usr/libucb/64/libdbm.so.1 64-bit shared object</p>																				
ATTRIBUTES	See <code>attributes(5)</code> for descriptions of the following attributes:																				
	<table border="1"> <thead> <tr> <th>ATTRIBUTE TYPE</th><th>ATTRIBUTE VALUE</th></tr> </thead> <tbody> <tr> <td>MT-Level</td><td>Unsafe</td></tr> </tbody> </table>	ATTRIBUTE TYPE	ATTRIBUTE VALUE	MT-Level	Unsafe																
ATTRIBUTE TYPE	ATTRIBUTE VALUE																				
MT-Level	Unsafe																				
SEE ALSO	<code>intro(3)</code> , <code>dbm(3UCB)</code> , <code>attributes(5)</code>																				

libdevid(3LIB)

NAME	libdevid – device ID library												
SYNOPSIS	<pre>cc [flag . . .] file . . . -ldevid [library . . .] #include <devid.h></pre>												
DESCRIPTION	Functions in this library provide unique device IDs for identifying a device, independent of the device name or device number.												
INTERFACES	The shared object libdevid.so.1 provides the public interfaces defined below. See intro(3) for additional information on shared object interfaces.												
	<table><tbody><tr><td>devid_compare</td><td>devid_deviceid_to_nmlist</td></tr><tr><td>devid_free</td><td>devid_free_nmlist</td></tr><tr><td>devid_get</td><td>devid_get_minor_name</td></tr><tr><td>devid_sizeof</td><td>devid_str_decode</td></tr><tr><td>devid_str_encode</td><td>devid_str_free</td></tr><tr><td>devid_valid</td><td></td></tr></tbody></table>	devid_compare	devid_deviceid_to_nmlist	devid_free	devid_free_nmlist	devid_get	devid_get_minor_name	devid_sizeof	devid_str_decode	devid_str_encode	devid_str_free	devid_valid	
devid_compare	devid_deviceid_to_nmlist												
devid_free	devid_free_nmlist												
devid_get	devid_get_minor_name												
devid_sizeof	devid_str_decode												
devid_str_encode	devid_str_free												
devid_valid													
FILES	/usr/lib/libdevid.so.1 shared object. /usr/lib/64/libdevid.so.1 64-bit shared object.												
ATTRIBUTES	See attributes(5) for description of the following attributes:												
	<table border="1"><thead><tr><th>ATTRIBUTE TYPE</th><th>ATTRIBUTE VALUE</th></tr></thead><tbody><tr><td>Availability</td><td>SUNWcsl (32-bit) SUNWcslx (64-bit)</td></tr><tr><td>MT-Level</td><td>MT-Safe</td></tr><tr><td>Interface Stability</td><td>Stable</td></tr></tbody></table>	ATTRIBUTE TYPE	ATTRIBUTE VALUE	Availability	SUNWcsl (32-bit) SUNWcslx (64-bit)	MT-Level	MT-Safe	Interface Stability	Stable				
ATTRIBUTE TYPE	ATTRIBUTE VALUE												
Availability	SUNWcsl (32-bit) SUNWcslx (64-bit)												
MT-Level	MT-Safe												
Interface Stability	Stable												
SEE ALSO	pvs(1), intro(3), attributes(5)												

NAME	libdevinfo – device information library																																														
SYNOPSIS	<code>cc [flag ...] file ... -ldevinfo [library ...]</code>																																														
DESCRIPTION	Functions in this library access information on device configuration.																																														
INTERFACES	The shared object <code>libdevinfo.so.1</code> provides the public interfaces defined below. See <code>intro(3)</code> for additional information on shared object interfaces.																																														
	<table> <tbody> <tr><td><code>di_binding_name</code></td><td><code>di_bus_addr</code></td></tr> <tr><td><code>di_child_node</code></td><td><code>di_compatible_names</code></td></tr> <tr><td><code>di_devfs_path</code></td><td><code>di_devfs_path_free</code></td></tr> <tr><td><code>di_devid</code></td><td><code>di_driver_name</code></td></tr> <tr><td><code>di_driver_ops</code></td><td><code>di_drv_first_node</code></td></tr> <tr><td><code>di_drv_next_node</code></td><td><code>di_fini</code></td></tr> <tr><td><code>di_init</code></td><td><code>di_instance</code></td></tr> <tr><td><code>di_minor_class</code></td><td><code>di_minor_devt</code></td></tr> <tr><td><code>di_minor_name</code></td><td><code>di_minor_next</code></td></tr> <tr><td><code>di_minor_nodetype</code></td><td><code>di_minor_spectype</code></td></tr> <tr><td><code>di_minor_type</code></td><td><code>di_node_name</code></td></tr> <tr><td><code>di_nodeid</code></td><td><code>di_parent_node</code></td></tr> <tr><td><code>di_prom_fini</code></td><td><code>di_prom_init</code></td></tr> <tr><td><code>di_prom_prop_data</code></td><td><code>di_prom_prop_lookup_bytes</code></td></tr> <tr><td><code>di_prom_prop_lookup_ints</code></td><td><code>di_prom_prop_lookup_strings</code></td></tr> <tr><td><code>di_prom_prop_name</code></td><td><code>di_prom_prop_next</code></td></tr> <tr><td><code>di_prop_bytes</code></td><td><code>di_prop_devt</code></td></tr> <tr><td><code>di_prop_ints</code></td><td><code>di_prop_lookup_bytes</code></td></tr> <tr><td><code>di_prop_lookup_ints</code></td><td><code>di_prop_lookup_strings</code></td></tr> <tr><td><code>di_prop_name</code></td><td><code>di_prop_next</code></td></tr> <tr><td><code>di_prop_strings</code></td><td><code>di_prop_type</code></td></tr> <tr><td><code>di_sibling_node</code></td><td><code>di_state</code></td></tr> <tr><td><code>di_walk_minor</code></td><td><code>di_walk_node</code></td></tr> </tbody> </table>	<code>di_binding_name</code>	<code>di_bus_addr</code>	<code>di_child_node</code>	<code>di_compatible_names</code>	<code>di_devfs_path</code>	<code>di_devfs_path_free</code>	<code>di_devid</code>	<code>di_driver_name</code>	<code>di_driver_ops</code>	<code>di_drv_first_node</code>	<code>di_drv_next_node</code>	<code>di_fini</code>	<code>di_init</code>	<code>di_instance</code>	<code>di_minor_class</code>	<code>di_minor_devt</code>	<code>di_minor_name</code>	<code>di_minor_next</code>	<code>di_minor_nodetype</code>	<code>di_minor_spectype</code>	<code>di_minor_type</code>	<code>di_node_name</code>	<code>di_nodeid</code>	<code>di_parent_node</code>	<code>di_prom_fini</code>	<code>di_prom_init</code>	<code>di_prom_prop_data</code>	<code>di_prom_prop_lookup_bytes</code>	<code>di_prom_prop_lookup_ints</code>	<code>di_prom_prop_lookup_strings</code>	<code>di_prom_prop_name</code>	<code>di_prom_prop_next</code>	<code>di_prop_bytes</code>	<code>di_prop_devt</code>	<code>di_prop_ints</code>	<code>di_prop_lookup_bytes</code>	<code>di_prop_lookup_ints</code>	<code>di_prop_lookup_strings</code>	<code>di_prop_name</code>	<code>di_prop_next</code>	<code>di_prop_strings</code>	<code>di_prop_type</code>	<code>di_sibling_node</code>	<code>di_state</code>	<code>di_walk_minor</code>	<code>di_walk_node</code>
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<code>di_sibling_node</code>	<code>di_state</code>																																														
<code>di_walk_minor</code>	<code>di_walk_node</code>																																														
FILES	<code>usr/lib/libdevinfo.a</code> archive library																																														

libdevinfo(3LIB)

```
/usr/lib/libdevinfo.so.1
    shared object
/usr/lib/64/libdevinfo.so.1
    64-bit shared object
```

ATTRIBUTES

See [attributes\(5\)](#) for descriptions of the following attributes:

ATTRIBUTE TYPE	ATTRIBUTE VALUE
Availability	SUNWcsl, SUNWstatl (32-bit) SUNWcslx (64-bit)
MT Level	Safe
Interface Stability	Evolving

SEE ALSO

[pvs\(1\)](#), [intro\(3\)](#), [libdevinfo\(3DEVINFO\)](#), [attributes\(5\)](#)

Writing Device Drivers

NAME	libdl – dynamic linking library						
SYNOPSIS	<code>cc [flag . . .] file . . . -ldl [library . . .]</code>						
DESCRIPTION	Functions in this library provide direct access to the dynamic linking facilities. This library is implemented as a filter on the runtime linker (see <code>ld.so.1(1)</code>).						
INTERFACES	The shared object <code>libdl.so.1</code> provides the public interfaces defined below. See <code>intro(3)</code> for additional information on shared object interfaces.						
	<code>dladdr</code> <code>dladdr1</code> <code>dlclose</code> <code>dldump</code> <code>dlerror</code> <code>dlinfo</code> <code>dlmopen</code> <code>dlopen</code> <code>dlsym</code>						
FILES	<code>/usr/lib/libdl.so.1</code> shared object <code>/etc/lib/libdl.so.1</code> shared object (copy) <code>/usr/lib/64/libdl.so.1</code> 64-bit shared object						
ATTRIBUTES	See <code>attributes(5)</code> for descriptions of the following attributes:						
	<table border="1"> <thead> <tr> <th>ATTRIBUTE TYPE</th><th>ATTRIBUTE VALUE</th></tr> </thead> <tbody> <tr> <td>Availability</td><td>SUNWcsl (32-bit) SUNWcslx (64-bit)</td></tr> <tr> <td>MT Level</td><td>Safe</td></tr> </tbody> </table>	ATTRIBUTE TYPE	ATTRIBUTE VALUE	Availability	SUNWcsl (32-bit) SUNWcslx (64-bit)	MT Level	Safe
ATTRIBUTE TYPE	ATTRIBUTE VALUE						
Availability	SUNWcsl (32-bit) SUNWcslx (64-bit)						
MT Level	Safe						
SEE ALSO	<code>ld.so.1(1)</code> , <code>pvs(1)</code> , <code>intro(3)</code> , <code>attributes(5)</code>						

libdmi(3LIB)

NAME	libdmi – Sun Solstice Enterprise Agent DMI library								
SYNOPSIS	<code>cc [flag . . .] file . . . -ldmi -lssl -lrwtool [library . . .]</code>								
DESCRIPTION	The libdmi library is a Solstice Enterprise Agent DMI generic library. It supports the DMI service provider, management application, and component instrumentation with data encoding, RPC communication, and other functionalities. This library is linked with management application and component instrumentation programs.								
INTERFACES	The shared object <code>libdmi.so.1</code> provides the public interfaces defined below. See <code>intro(3)</code> for additional information on shared object interfaces.								
	<table><tbody><tr><td><code>dmi_error</code></td><td><code>freeDmiString</code></td></tr><tr><td><code>newDmiAttributeValues</code></td><td><code>newDmiOctetStringFromString</code></td></tr><tr><td><code>newDmiString</code></td><td><code>printDmiDataUnion</code></td></tr><tr><td><code>printDmiString</code></td><td></td></tr></tbody></table>	<code>dmi_error</code>	<code>freeDmiString</code>	<code>newDmiAttributeValues</code>	<code>newDmiOctetStringFromString</code>	<code>newDmiString</code>	<code>printDmiDataUnion</code>	<code>printDmiString</code>	
<code>dmi_error</code>	<code>freeDmiString</code>								
<code>newDmiAttributeValues</code>	<code>newDmiOctetStringFromString</code>								
<code>newDmiString</code>	<code>printDmiDataUnion</code>								
<code>printDmiString</code>									
FILES	<table><tbody><tr><td><code>/usr/lib/libdmi.so.1</code></td><td>shared object</td></tr><tr><td><code>/usr/lib/64/libdmi.so.1</code></td><td>64-bit shared object</td></tr></tbody></table>	<code>/usr/lib/libdmi.so.1</code>	shared object	<code>/usr/lib/64/libdmi.so.1</code>	64-bit shared object				
<code>/usr/lib/libdmi.so.1</code>	shared object								
<code>/usr/lib/64/libdmi.so.1</code>	64-bit shared object								
ATTRIBUTES	See <code>attributes(5)</code> for descriptions of the following attributes:								
	<table><thead><tr><th>ATTRIBUTE TYPE</th><th>ATTRIBUTE VALUE</th></tr></thead><tbody><tr><td>Availability</td><td>SUNWsadmi (32-bit) SUNWsadmx (64-bit)</td></tr><tr><td>MT-Level</td><td>Unsafe</td></tr></tbody></table>	ATTRIBUTE TYPE	ATTRIBUTE VALUE	Availability	SUNWsadmi (32-bit) SUNWsadmx (64-bit)	MT-Level	Unsafe		
ATTRIBUTE TYPE	ATTRIBUTE VALUE								
Availability	SUNWsadmi (32-bit) SUNWsadmx (64-bit)								
MT-Level	Unsafe								
SEE ALSO	<code>intro(3), libdmici(3LIB), libdmimini(3LIB), attributes(5)</code>								

NAME	libdmici – Sun Solstice Enterprise Agent Component library								
SYNOPSIS	<code>cc [flag . . .] file . . . -ldmici -ldmi -lndl -lrdt \ [library . . .]</code>								
DESCRIPTION	The libdmici library provides Component Interface API functions.								
INTERFACES	The shared object <code>libdmici.so.1</code> provides the public interfaces defined below. See <code>intro(3)</code> for additional information on shared object interfaces.								
	<table> <tr><td><code>ConnectToServer</code></td><td><code>DisconnectToServer</code></td></tr> <tr><td><code>DmiOriginateEvent</code></td><td><code>DmiRegisterCi</code></td></tr> <tr><td><code>DmiUnregisterCi</code></td><td><code>reg_ci_callback</code></td></tr> <tr><td><code>start_svc_run_thread</code></td><td></td></tr> </table>	<code>ConnectToServer</code>	<code>DisconnectToServer</code>	<code>DmiOriginateEvent</code>	<code>DmiRegisterCi</code>	<code>DmiUnregisterCi</code>	<code>reg_ci_callback</code>	<code>start_svc_run_thread</code>	
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FILES	<table> <tr><td><code>/usr/lib/libdmici.so.1</code></td><td>shared object</td></tr> <tr><td><code>/usr/lib/sparcv9/libdmici.so.1</code></td><td>64-bit shared object</td></tr> </table>	<code>/usr/lib/libdmici.so.1</code>	shared object	<code>/usr/lib/sparcv9/libdmici.so.1</code>	64-bit shared object				
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MT-Level	Unsafe								
SEE ALSO	<code>intro(3)</code> , <code>libdmi(3LIB)</code> , <code>attributes(5)</code>								

libdmimi(3LIB)

NAME	libdmimi – Sun Solstice Enterprise Agent Management library	
SYNOPSIS	<code>cc [flag . . .] file . . . -ldmimi -ldmi -lndl -lrlwtool \ [library . . .]</code>	
DESCRIPTION	The <code>libdmimi</code> library provides Management Interface API functions.	
INTERFACES	The shared object <code>libdmimi.so.1</code> provides the public interfaces defined below. See <code>intro(3)</code> for additional information on shared object interfaces.	
	ConnectToServer	DisconnectToServer
	DmiAddComponent	DmiAddGroup
	DmiAddLanguage	DmiAddRow
	DmiDeleteComponent	DmiDeleteGroup
	DmiDeleteLanguage	DmiDeleteRow
	DmiGetAttribute	DmiGetConfig
	DmiGetMultiple	DmiGetVersion
	DmiListAttributes	DmiListClassNames
	DmiListComponents	DmiListComponentsByClass
	DmiListGroups	DmiListLanguages
	DmiRegister	DmiSetAttribute
	DmiSetConfig	DmiSetMultiple
	DmiUnregister	
FILES	/usr/lib/libdmimi.so.1	shared object
	/usr/lib/64/libdmimi.so.1	64-bit shared object
ATTRIBUTES	See <code>attributes(5)</code> for descriptions of the following attributes:	
	ATTRIBUTE TYPE	ATTRIBUTE VALUE
Availability	SUNWsadmi (32-bit)	
	SUNWsadmx (64-bit)	
MT-Level	Unsafe	
SEE ALSO	<code>intro(3), libdmi(3LIB), attributes(5)</code>	

NAME	libefi – EFI partition table library									
SYNOPSIS	<code>cc [flag...] file... -lefi [library...]</code>									
DESCRIPTION	The functions in this library manipulate a disk's EFI partition table.									
INTERFACES	The shared object <code>libefi.so.1</code> provides the public interfaces defined below. See <code>intro(3)</code> for additional information on shared object interfaces.									
	<code>efi_alloc_and_init</code>	<code>efi_alloc_and_read</code>								
	<code>efi_free</code>	<code>efi_write</code>								
FILES	<code>/usr/lib/libefi.so.1</code>	shared object								
	<code>/usr/lib/64/libefi.so.1</code>	64-bit shared object								
ATTRIBUTES	See <code>attributes(5)</code> for descriptions of the following attributes:									
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ATTRIBUTE TYPE	ATTRIBUTE VALUE									
Availability	SUNWcsl (32-bit) SUNWcslx (64-bit)									
Interface Stability	Evolving									
MT-Level	Unsafe									
SEE ALSO	<code>intro(3), efi_alloc_and_init(3EXT), attributes(5)</code>									

libelf(3LIB)

NAME	libelf – ELF access library																																														
SYNOPSIS	<pre>cc [flag . . .] file . . . -lelf [library . . .] #include <libelf.h></pre>																																														
DESCRIPTION	Functions in this library provide routines to manipulate ELF (Executable and Linking Format) object files, archive files, and archive members. The header provides type and function declarations for all library services.																																														
INTERFACES	The shared object <code>libelf.so.1</code> provides the public interfaces defined below. See <code>intro(3)</code> for additional information on shared object interfaces.																																														
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elf_rawfile	elf_strptr
elf_update	elf_version
gelf_checksum	gelf_fsize
gelf_getclass	gelf_getdyn
gelf_getehdr	gelf_getmove
gelf_getphdr	gelf_getrel
gelf_getrela	gelf_getshdr
gelf_getsym	gelf_getsyminfo
gelf_newehdr	gelf_newphdr
gelf_update_dyn	gelf_update_ehdr
gelf_update_move	gelf_update_phdr
gelf_update_rel	gelf_update_rela
gelf_update_shdr	gelf_update_sym
gelf_update_syminfo	gelf_xlatetof
gelf_xlatetom	nlist

FILES	/usr/lib/libelf.a	archive library
	/usr/lib/libelf.so.1	shared object
	/usr/lib/64/libelf.so.1	64-bit shared object

ATTRIBUTES See attributes(5) for descriptions of the following attributes:

ATTRIBUTE TYPE	ATTRIBUTE VALUE
Availability	SUNWcsl, SUNWarc (32-bit) SUNWcslx (64-bit)
MT-Level	Safe

SEE ALSO pvs(1), intro(3), elf(3ELF), gelf(3ELF), attributes(5)

libexacct(3LIB)

NAME	libexacct – extended accounting file access library																										
SYNOPSIS	<pre>cc [flag...] file... -lexacct [library...] #include <exacct.h></pre>																										
DESCRIPTION	Functions in this library define the interface for reading and writing extended accounting (exacct) files. The <code><exacct.h></code> header provides type and function declarations for all library services, as well as for the characteristics of accounting files generated by the Solaris kernel.																										
INTERFACES	The shared object <code>libexacct.so.1</code> provides the public interfaces defined below. See <code>intro(3)</code> for additional information on shared object interfaces.																										
	<table><tbody><tr><td><code>ea_alloc</code></td><td><code>ea_attach_to_group</code></td></tr><tr><td><code>ea_attach_to_object</code></td><td><code>ea_close</code></td></tr><tr><td><code>ea_copy_object</code></td><td><code>ea_copy_object_tree</code></td></tr><tr><td><code>ea_error</code></td><td><code>ea_free</code></td></tr><tr><td><code>ea_free_item</code></td><td><code>ea_free_object</code></td></tr><tr><td><code>ea_get_creator</code></td><td><code>ea_get_hostname</code></td></tr><tr><td><code>ea_get_object</code></td><td><code>ea_get_object_tree</code></td></tr><tr><td><code>ea_match_object_catalog</code></td><td><code>ea_next_object</code></td></tr><tr><td><code>ea_open</code></td><td><code>ea_pack_object</code></td></tr><tr><td><code>ea_previous_object</code></td><td><code>ea_set_group</code></td></tr><tr><td><code>ea_set_item</code></td><td><code>ea_strdup</code></td></tr><tr><td><code>ea_strfree</code></td><td><code>ea_unpack_object</code></td></tr><tr><td><code>ea_write_object</code></td><td></td></tr></tbody></table>	<code>ea_alloc</code>	<code>ea_attach_to_group</code>	<code>ea_attach_to_object</code>	<code>ea_close</code>	<code>ea_copy_object</code>	<code>ea_copy_object_tree</code>	<code>ea_error</code>	<code>ea_free</code>	<code>ea_free_item</code>	<code>ea_free_object</code>	<code>ea_get_creator</code>	<code>ea_get_hostname</code>	<code>ea_get_object</code>	<code>ea_get_object_tree</code>	<code>ea_match_object_catalog</code>	<code>ea_next_object</code>	<code>ea_open</code>	<code>ea_pack_object</code>	<code>ea_previous_object</code>	<code>ea_set_group</code>	<code>ea_set_item</code>	<code>ea_strdup</code>	<code>ea_strfree</code>	<code>ea_unpack_object</code>	<code>ea_write_object</code>	
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ATTRIBUTE TYPE	ATTRIBUTE VALUE
Interface Stability	Evolving
MT-Level	MT-Safe

SEE ALSO acctadm(1M), intro(3), ea_error(3EXACCT), ea_open(3EXACCT), ea_pack_object(3EXACCT), ea_set_item(3EXACCT), attributes(5)

NOTES The SUNWosdem package provides source code for the exdump utility that uses the libexacct APIs to dump the contents of extended accounting files. The source code can be compiled in the directory /usr/demo/libexacct.

libform(3LIB)

NAME	libform – forms library																																																
SYNOPSIS	<code>cc [flag . . .] file . . . -lform [library . . .]</code>																																																
DESCRIPTION	Functions in this library provide forms using libcurses(3LIB) routines.																																																
INTERFACES	The shared object <code>libform.so.1</code> provides the public interfaces defined below. See <code>intro(3)</code> for additional information on shared object interfaces.																																																
	<table><tbody><tr><td><code>current_field</code></td><td><code>data_ahead</code></td></tr><tr><td><code>data_behind</code></td><td><code>dup_field</code></td></tr><tr><td><code>dynamic_field_info</code></td><td><code>field_arg</code></td></tr><tr><td><code>field_back</code></td><td><code>field_buffer</code></td></tr><tr><td><code>field_count</code></td><td><code>field_fore</code></td></tr><tr><td><code>field_index</code></td><td><code>field_info</code></td></tr><tr><td><code>field_init</code></td><td><code>field_just</code></td></tr><tr><td><code>field_opts</code></td><td><code>field_opts_off</code></td></tr><tr><td><code>field_opts_on</code></td><td><code>field_pad</code></td></tr><tr><td><code>field_status</code></td><td><code>field_term</code></td></tr><tr><td><code>field_type</code></td><td><code>field_userptr</code></td></tr><tr><td><code>form_driver</code></td><td><code>form_fields</code></td></tr><tr><td><code>form_init</code></td><td><code>form_opts</code></td></tr><tr><td><code>form_opts_off</code></td><td><code>form_opts_on</code></td></tr><tr><td><code>form_page</code></td><td><code>form_sub</code></td></tr><tr><td><code>form_term</code></td><td><code>form_userptr</code></td></tr><tr><td><code>form_win</code></td><td><code>free_field</code></td></tr><tr><td><code>free_fieldtype</code></td><td><code>free_form</code></td></tr><tr><td><code>link_field</code></td><td><code>link_fieldtype</code></td></tr><tr><td><code>move_field</code></td><td><code>new_field</code></td></tr><tr><td><code>new_fieldtype</code></td><td><code>new_form</code></td></tr><tr><td><code>new_page</code></td><td><code>pos_form_cursor</code></td></tr><tr><td><code>post_form</code></td><td><code>scale_form</code></td></tr><tr><td><code>set_current_field</code></td><td><code>set_field_back</code></td></tr></tbody></table>	<code>current_field</code>	<code>data_ahead</code>	<code>data_behind</code>	<code>dup_field</code>	<code>dynamic_field_info</code>	<code>field_arg</code>	<code>field_back</code>	<code>field_buffer</code>	<code>field_count</code>	<code>field_fore</code>	<code>field_index</code>	<code>field_info</code>	<code>field_init</code>	<code>field_just</code>	<code>field_opts</code>	<code>field_opts_off</code>	<code>field_opts_on</code>	<code>field_pad</code>	<code>field_status</code>	<code>field_term</code>	<code>field_type</code>	<code>field_userptr</code>	<code>form_driver</code>	<code>form_fields</code>	<code>form_init</code>	<code>form_opts</code>	<code>form_opts_off</code>	<code>form_opts_on</code>	<code>form_page</code>	<code>form_sub</code>	<code>form_term</code>	<code>form_userptr</code>	<code>form_win</code>	<code>free_field</code>	<code>free_fieldtype</code>	<code>free_form</code>	<code>link_field</code>	<code>link_fieldtype</code>	<code>move_field</code>	<code>new_field</code>	<code>new_fieldtype</code>	<code>new_form</code>	<code>new_page</code>	<code>pos_form_cursor</code>	<code>post_form</code>	<code>scale_form</code>	<code>set_current_field</code>	<code>set_field_back</code>
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set_field_init	set_field_just
set_field_opts	set_field_pad
set_field_status	set_field_term
set_field_type	set_field_userptr
set_fieldtype_arg	set_fieldtype_choice
set_form_fields	set_form_init
set_form_opts	set_form_page
set_form_sub	set_form_term
set_form_userptr	set_form_win
set_max_field	set_new_page
unpost_form	

FILES /usr/lib/libform.a archive library

/usr/lib/libform.so.1 shared object

/usr/lib/64/libform.so.1 64-bit shared object

ATTRIBUTES See attributes(5) for descriptions of the following attributes:

ATTRIBUTE TYPE	ATTRIBUTE VALUE
Availability	SUNWcsl, SUNWarc (32-bit) SUNWcslx (64-bit)
MT-Level	Unsafe

SEE ALSO intro(3), libcurses(3LIB), attributes(5)

libgen(3LIB)

NAME	libgen – string pattern-matching library						
SYNOPSIS	<code>cc [flag . . .] file . . . -lgen [library . . .]</code>						
DESCRIPTION	Functions in this library provide routines for string pattern-matching and pathname manipulation.						
INTERFACES	The shared object <code>libgen.so.1</code> provides the public interfaces defined below. See <code>intro(3)</code> for additional information on shared object interfaces.						
	<code>__braelist</code>	<code>__braslist</code>	<code>__loc1</code>				
	<code>__loc2</code>	<code>__locs</code>	<code>__nbra</code>				
	<code>__regerrno</code>	<code>__reglength</code>	<code>advance</code>				
	<code>bgets</code>	<code>braelist</code>	<code>braslist</code>				
	<code>bufsplit</code>	<code>compile</code>	<code>copylist</code>				
	<code>eaccess</code>	<code>gmatch</code>	<code>is encrypt</code>				
	<code>loc1</code>	<code>loc2</code>	<code>locs</code>				
	<code>mkdirp</code>	<code>nbra</code>	<code>p2close</code>				
	<code>p2open</code>	<code>pathfind</code>	<code>regerrno</code>				
	<code>reglength</code>	<code>rmdirp</code>	<code>step</code>				
	<code>strcadd</code>	<code>strccpy</code>	<code>streadd</code>				
	<code>strecpy</code>	<code>strfind</code>	<code>strrspn</code>				
	<code>strtrns</code>						
	The following interface is unique to the 32-bit version of this library:						
	<code>copylist64</code>						
FILES	<code>/usr/lib/libgen.a</code>	archive library					
	<code>/usr/lib/libgen.so.1</code>	shared object					
	<code>/usr/lib/64/libgen.so.1</code>	64-bit shared object					
ATTRIBUTES	See <code>attributes(5)</code> for descriptions of the following attributes:						
	<table border="1"><thead><tr><th>ATTRIBUTE TYPE</th><th>ATTRIBUTE VALUE</th></tr></thead><tbody><tr><td>Availability</td><td>SUNWcsl, SUNWarc (32-bit)</td></tr></tbody></table>			ATTRIBUTE TYPE	ATTRIBUTE VALUE	Availability	SUNWcsl, SUNWarc (32-bit)
ATTRIBUTE TYPE	ATTRIBUTE VALUE						
Availability	SUNWcsl, SUNWarc (32-bit)						

ATTRIBUTE TYPE	ATTRIBUTE VALUE
	SUNWcslx (64-bit)
MT-Level	Safe

SEE ALSO `intro(3), attributes(5)`

libgss(3LIB)

NAME	libgss – Generic Security Services library																																														
SYNOPSIS	<pre>cc [flag . . .] file . . . -lgss [library . . .] #include <gssapi/gssapi.h></pre>																																														
DESCRIPTION	The functions in this library are the routines that comprise the Generic Security Services library.																																														
INTERFACES	The shared object <code>libgss.so.1</code> provides the public interfaces defined below. See <code>intro(3)</code> for additional information on shared object interfaces.																																														
	<table><tbody><tr><td><code>GSS_C_NT_ANONYMOUS</code></td><td><code>GSS_C_NT_EXPORT_NAME</code></td></tr><tr><td><code>GSS_C_NT_HOSTBASED_SERVICE</code></td><td><code>GSS_C_NT_MACHINE_UID_NAME</code></td></tr><tr><td><code>GSS_C_NT_STRING_UID_NAME</code></td><td><code>GSS_C_NT_USER_NAME</code></td></tr><tr><td><code>gss_accept_sec_context</code></td><td><code>gss_acquire_cred</code></td></tr><tr><td><code>gss_add_cred</code></td><td><code>gss_add_oid_set_member</code></td></tr><tr><td><code>gss_canonicalize_name</code></td><td><code>gss_compare_name</code></td></tr><tr><td><code>gss_context_time</code></td><td><code>gss_create_empty_oid_set</code></td></tr><tr><td><code>gss_delete_sec_context</code></td><td><code>gss_display_name</code></td></tr><tr><td><code>gss_display_status</code></td><td><code>gss_duplicate_name</code></td></tr><tr><td><code>gss_export_name</code></td><td><code>gss_export_sec_context</code></td></tr><tr><td><code>gss_get_mic</code></td><td><code>gss_import_name</code></td></tr><tr><td><code>gss_import_sec_context</code></td><td><code>gss_indicate_mechs</code></td></tr><tr><td><code>gss_init_sec_context</code></td><td><code>gss_inquire_context</code></td></tr><tr><td><code>gss_inquire_cred</code></td><td><code>gss_inquire_cred_by_mech</code></td></tr><tr><td><code>gss_inquire_mechs_for_name</code></td><td><code>gss_inquire_names_for_mech</code></td></tr><tr><td><code>gss_process_context_token</code></td><td><code>gss_release_buffer</code></td></tr><tr><td><code>gss_release_cred</code></td><td><code>gss_release_name</code></td></tr><tr><td><code>gss_release_oid</code></td><td><code>gss_release_oid_set</code></td></tr><tr><td><code>gss_seal</code></td><td><code>gss_sign</code></td></tr><tr><td><code>gss_test_oid_set_member</code></td><td><code>gss_unseal</code></td></tr><tr><td><code>gss_unwrap</code></td><td><code>gss_verify</code></td></tr><tr><td><code>gss_verify_mic</code></td><td><code>gss_wrap</code></td></tr><tr><td><code>gss_wrap_size_limit</code></td><td></td></tr></tbody></table>	<code>GSS_C_NT_ANONYMOUS</code>	<code>GSS_C_NT_EXPORT_NAME</code>	<code>GSS_C_NT_HOSTBASED_SERVICE</code>	<code>GSS_C_NT_MACHINE_UID_NAME</code>	<code>GSS_C_NT_STRING_UID_NAME</code>	<code>GSS_C_NT_USER_NAME</code>	<code>gss_accept_sec_context</code>	<code>gss_acquire_cred</code>	<code>gss_add_cred</code>	<code>gss_add_oid_set_member</code>	<code>gss_canonicalize_name</code>	<code>gss_compare_name</code>	<code>gss_context_time</code>	<code>gss_create_empty_oid_set</code>	<code>gss_delete_sec_context</code>	<code>gss_display_name</code>	<code>gss_display_status</code>	<code>gss_duplicate_name</code>	<code>gss_export_name</code>	<code>gss_export_sec_context</code>	<code>gss_get_mic</code>	<code>gss_import_name</code>	<code>gss_import_sec_context</code>	<code>gss_indicate_mechs</code>	<code>gss_init_sec_context</code>	<code>gss_inquire_context</code>	<code>gss_inquire_cred</code>	<code>gss_inquire_cred_by_mech</code>	<code>gss_inquire_mechs_for_name</code>	<code>gss_inquire_names_for_mech</code>	<code>gss_process_context_token</code>	<code>gss_release_buffer</code>	<code>gss_release_cred</code>	<code>gss_release_name</code>	<code>gss_release_oid</code>	<code>gss_release_oid_set</code>	<code>gss_seal</code>	<code>gss_sign</code>	<code>gss_test_oid_set_member</code>	<code>gss_unseal</code>	<code>gss_unwrap</code>	<code>gss_verify</code>	<code>gss_verify_mic</code>	<code>gss_wrap</code>	<code>gss_wrap_size_limit</code>	
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<code>gss_inquire_mechs_for_name</code>	<code>gss_inquire_names_for_mech</code>																																														
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libgss(3LIB)

FILES | /usr/lib/libgss.so.1
shared object

/usr/lib/64/libgss.so.1
64-bit shared object file

ATTRIBUTES See attributes(5) for descriptions of the following attributes:

ATTRIBUTE TYPE	ATTRIBUTE VALUE
Availability	SUNWgss (32-bit) SUNWgssx (64-bit)
MT-Level	Safe

SEE ALSO pvs(1), intro(2), intro(3), attributes(5)

GSS-API Programming Guide

libintl(3LIB)

NAME	libintl – internationalization library						
SYNOPSIS	<pre>cc [flag . . .] file . . -lintl [library . . .] #include <libintl.h> #include <locale.h> /* needed for dcgettext() only */</pre>						
DESCRIPTION	<p>Historically, functions in this library provided wide character translations. This functionality now resides in libc(3LIB).</p> <p>This library is maintained to provide backward compatibility for both runtime and compilation environments. The shared object version is implemented as a filter on libintl.so.1, and the archive version is implemented as a null archive. New application development need not reference either version of libintl.</p>						
INTERFACES	The shared object libintl.so.1 provides the public interfaces defined below. See intro(3) for additional information on shared object interfaces.						
	<table><tr><td><code>bindtextdomain</code></td><td><code>dcgettext</code></td></tr><tr><td><code>dgettext</code></td><td><code>gettext</code></td></tr><tr><td><code>textdomain</code></td><td></td></tr></table>	<code>bindtextdomain</code>	<code>dcgettext</code>	<code>dgettext</code>	<code>gettext</code>	<code>textdomain</code>	
<code>bindtextdomain</code>	<code>dcgettext</code>						
<code>dgettext</code>	<code>gettext</code>						
<code>textdomain</code>							
FILES	<table><tr><td><code>/usr/lib/libintl.a</code></td><td>a link to <code>/usr/lib/null.a</code></td></tr><tr><td><code>/usr/lib/libintl.so.1</code></td><td>a filter on <code>libc.so.1</code></td></tr><tr><td><code>/usr/lib/64/libintl.so.1</code></td><td>a filter on <code>64/libc.so.1</code></td></tr></table>	<code>/usr/lib/libintl.a</code>	a link to <code>/usr/lib/null.a</code>	<code>/usr/lib/libintl.so.1</code>	a filter on <code>libc.so.1</code>	<code>/usr/lib/64/libintl.so.1</code>	a filter on <code>64/libc.so.1</code>
<code>/usr/lib/libintl.a</code>	a link to <code>/usr/lib/null.a</code>						
<code>/usr/lib/libintl.so.1</code>	a filter on <code>libc.so.1</code>						
<code>/usr/lib/64/libintl.so.1</code>	a filter on <code>64/libc.so.1</code>						
ATTRIBUTES	See attributes(5) for descriptions of the following attributes:						
	<table border="1"><thead><tr><th>ATTRIBUTE TYPE</th><th>ATTRIBUTE VALUE</th></tr></thead><tbody><tr><td>Availability</td><td>SUNWcsl, SUNWarc (32-bit) SUNWcslx (64-bit)</td></tr><tr><td>MT-Level</td><td>Safe with exceptions</td></tr></tbody></table>	ATTRIBUTE TYPE	ATTRIBUTE VALUE	Availability	SUNWcsl, SUNWarc (32-bit) SUNWcslx (64-bit)	MT-Level	Safe with exceptions
ATTRIBUTE TYPE	ATTRIBUTE VALUE						
Availability	SUNWcsl, SUNWarc (32-bit) SUNWcslx (64-bit)						
MT-Level	Safe with exceptions						
SEE ALSO	<code>pvs(1), intro(3), gettext(3C), libc(3LIB), attributes(5)</code>						

NAME	libkstat – kernel statistics library							
SYNOPSIS	<pre>cc [<i>flag</i> . . .] <i>file</i> . . . -lkstat [<i>library</i> . . .] #include <kstat.h></pre>							
DESCRIPTION	Functions in this library provide a general-purpose mechanism for providing kernel statistics to users.							
INTERFACES	The shared object libkstat.so.1 provides the public interfaces defined below. See intro(3) for additional information on shared object interfaces.							
	kstat_chain_update	kstat_close						
	kstat_data_lookup	kstat_lookup						
	kstat_open	kstat_read						
	kstat_write							
FILES	/usr/lib/libkstat.so.1	shared object						
	/usr/lib/64/libkstat.so.1	64-bit shared object						
ATTRIBUTES	See attributes(5) for descriptions of the following attributes:							
	<table border="1"> <thead> <tr> <th>ATTRIBUTE TYPE</th><th>ATTRIBUTE VALUE</th></tr> </thead> <tbody> <tr> <td>Availability</td><td>SUNWcsl (32-bit) SUNWcslx (64-bit)</td></tr> <tr> <td>MT-Level</td><td>Unsafe</td></tr> </tbody> </table>		ATTRIBUTE TYPE	ATTRIBUTE VALUE	Availability	SUNWcsl (32-bit) SUNWcslx (64-bit)	MT-Level	Unsafe
ATTRIBUTE TYPE	ATTRIBUTE VALUE							
Availability	SUNWcsl (32-bit) SUNWcslx (64-bit)							
MT-Level	Unsafe							
SEE ALSO	pvs(1), intro(3), kstat(3KSTAT), attributes(5)							

libkvm(3LIB)

NAME	libkvm – Kernel Virtual Memory access library																
SYNOPSIS	<pre>cc [flag . . .] file . . . -lkvm [library . . .] #include <kvm.h></pre>																
DESCRIPTION	<p>Functions in this library provide application access to kernel symbols, addresses and values. The individual functions are documented in Section 3KVM of the reference manual.</p> <p>All libkvm functions are Uncommitted, since there is almost nothing that can be put as a symbol in a namelist that has stability from release to release. The syntax of these functions has been stable from release to release, but this is subject to change.</p>																
INTERFACES	<p>The shared object libkvm.so.1 provides the public interfaces defined below. See intro(3) for additional information on shared object interfaces.</p> <table><tr><td>kvm_close</td><td>kvm_getcmd</td><td>kvm_getproc</td></tr><tr><td>kvm_getu</td><td>kvm_kread</td><td>kvm_kwrtie</td></tr><tr><td>kvm_nxtproc</td><td>kvm_nlist</td><td>kvm_open</td></tr><tr><td>kvm_read</td><td>kvm_setproc</td><td>kvm_uread</td></tr><tr><td>kvm_uwrite</td><td>kvm_write</td><td></td></tr></table>		kvm_close	kvm_getcmd	kvm_getproc	kvm_getu	kvm_kread	kvm_kwrtie	kvm_nxtproc	kvm_nlist	kvm_open	kvm_read	kvm_setproc	kvm_uread	kvm_uwrite	kvm_write	
kvm_close	kvm_getcmd	kvm_getproc															
kvm_getu	kvm_kread	kvm_kwrtie															
kvm_nxtproc	kvm_nlist	kvm_open															
kvm_read	kvm_setproc	kvm_uread															
kvm_uwrite	kvm_write																
FILES	/usr/lib/libkvm.so.1	shared object															
	/usr/lib/64/libkvm.so.1	64-bit shared object															
ATTRIBUTES	See attributes(5) for descriptions of the following attributes:																
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ATTRIBUTE TYPE	ATTRIBUTE VALUE																
Availability	SUNWcsl (32-bit) SUNWcsl x(64-bit)																
MT-Level	Unsafe																
SEE ALSO	pvs(1), intro(3), attributes(5)																

NAME	libl – lex library									
SYNOPSIS	<code>cc [flag . . .] file . . . -ll [library . . .]</code>									
DESCRIPTION	Functions in this library provide user interfaces to the <code>lex(1)</code> library.									
INTERFACES	The shared object <code>libl.so.1</code> provides the public interfaces defined below. See <code>intro(3)</code> for additional information on shared object interfaces.									
	<code>allprint</code>	<code>allprint_w</code>	<code>main</code>	<code>sprint</code>						
	<code>sprint_w</code>	<code>yyless</code>	<code>yyless_e</code>	<code>yyless_w</code>						
	<code>yyracc</code>	<code>yyreject</code>	<code>yyreject_e</code>	<code>yyreject_w</code>						
	<code>yywrap</code>									
FILES	<code>/usr/lib/libl.a</code>	archive library								
	<code>/usr/lib/libl.so.1</code>	shared object								
	<code>/usr/lib/64/libl.so.1</code>	64-bit shared object								
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ATTRIBUTE TYPE	ATTRIBUTE VALUE									
Availability	SUNWcsl (32-bit) SUNWcslx (64-bit)									
MT-Level	Unsafe									
SEE ALSO	<code>lex(1)</code> , <code>intro(3)</code> , <code>attributes(5)</code>									

liblayout(3LIB)

NAME	liblayout – layout service library						
SYNOPSIS	<pre>cc [flag . . .] file . . . -llayout [library . . .] #include <sys/layout.h></pre>						
DESCRIPTION	Functions in this library provide various layout service routines.						
INTERFACES	The shared object liblayout.so.1 provides the public interfaces defined below. See intro(3) for additional information on shared object interfaces.						
	<table><tbody><tr><td>m_create_layout</td><td>m_destroy_layout</td></tr><tr><td>m_getvalues_layout</td><td>m_setvalues_layout</td></tr><tr><td>m_transform_layout</td><td>m_wtransform_layout</td></tr></tbody></table>	m_create_layout	m_destroy_layout	m_getvalues_layout	m_setvalues_layout	m_transform_layout	m_wtransform_layout
m_create_layout	m_destroy_layout						
m_getvalues_layout	m_setvalues_layout						
m_transform_layout	m_wtransform_layout						
FILES	<table><tbody><tr><td>/usr/lib/liblayout.so.1</td><td>shared object</td></tr><tr><td>/usr/lib/64/liblayout.so.1</td><td>64-bit shared object.</td></tr></tbody></table>	/usr/lib/liblayout.so.1	shared object	/usr/lib/64/liblayout.so.1	64-bit shared object.		
/usr/lib/liblayout.so.1	shared object						
/usr/lib/64/liblayout.so.1	64-bit shared object.						
ATTRIBUTES	See attributes(5) for description of the following attributes:						
	<table border="1"><thead><tr><th>ATTRIBUTE TYPE</th><th>ATTRIBUTE VALUE</th></tr></thead><tbody><tr><td>Availability</td><td>SUNWctpls (32-bit) SUNWctplx (64-bit)</td></tr><tr><td>MT Level</td><td>MT-Safe</td></tr></tbody></table>	ATTRIBUTE TYPE	ATTRIBUTE VALUE	Availability	SUNWctpls (32-bit) SUNWctplx (64-bit)	MT Level	MT-Safe
ATTRIBUTE TYPE	ATTRIBUTE VALUE						
Availability	SUNWctpls (32-bit) SUNWctplx (64-bit)						
MT Level	MT-Safe						
SEE ALSO	intro(3), attributes(5)						

NAME	libmail – user mailbox lockfile management library						
SYNOPSIS	<pre>cc [flag . . .] file . . . -lmail [library . . .] #include <maillock.h></pre>						
DESCRIPTION	Interfaces in this library provide functions for managing user mailbox lockfiles.						
INTERFACES	The shared object libmail.so.1 provides the public interfaces defined below. See intro(3) for additional information on shared object interfaces.						
	maillock mailunlock touchlock						
FILES	<p>/usr/lib/libmail.a archive library</p> <p>/usr/lib/libmail.so.1 shared object</p> <p>/usr/lib/64/libmail.so.1 64-bit shared object</p>						
ATTRIBUTES	See attributes(5) for descriptions of the following attributes:						
	<table border="1"> <thead> <tr> <th>ATTRIBUTE TYPE</th><th>ATTRIBUTE VALUE</th></tr> </thead> <tbody> <tr> <td>Availability</td><td>SUNWcsl (32-bit) SUNWcslx (64-bit)</td></tr> <tr> <td>MT Level</td><td>Unsafe</td></tr> </tbody> </table>	ATTRIBUTE TYPE	ATTRIBUTE VALUE	Availability	SUNWcsl (32-bit) SUNWcslx (64-bit)	MT Level	Unsafe
ATTRIBUTE TYPE	ATTRIBUTE VALUE						
Availability	SUNWcsl (32-bit) SUNWcslx (64-bit)						
MT Level	Unsafe						
SEE ALSO	intro(3), maillock(3MAIL), attributes(5)						

libmalloc(3LIB)

NAME	libmalloc – memory allocation library												
SYNOPSIS	<code>cc [flag . . .] file . . . -lmalloc [library . . .]</code>												
DESCRIPTION	Functions in this library provide routines for memory allocation. These routines are space-efficient but have lower performance. Their usage can result in serious performance degradation.												
INTERFACES	The shared object <code>libmalloc.so.1</code> provides the public interfaces defined below. See <code>intro(3)</code> for additional information on shared object interfaces.												
	<table><tr><td><code>_cfree</code></td><td><code>_mallinfo</code></td><td><code>_mallopt</code></td><td><code>calloc</code></td></tr><tr><td><code>cfree</code></td><td><code>free</code></td><td><code>mallinfo</code></td><td><code>malloc</code></td></tr><tr><td><code>mallopt</code></td><td><code>realloc</code></td><td></td><td></td></tr></table>	<code>_cfree</code>	<code>_mallinfo</code>	<code>_mallopt</code>	<code>calloc</code>	<code>cfree</code>	<code>free</code>	<code>mallinfo</code>	<code>malloc</code>	<code>mallopt</code>	<code>realloc</code>		
<code>_cfree</code>	<code>_mallinfo</code>	<code>_mallopt</code>	<code>calloc</code>										
<code>cfree</code>	<code>free</code>	<code>mallinfo</code>	<code>malloc</code>										
<code>mallopt</code>	<code>realloc</code>												
FILES	<code>/usr/lib/libmalloc.a</code> archive library <code>/usr/lib/libmalloc.so.1</code> shared object <code>/usr/lib/64/libmalloc.so.1</code> 64-bit shared object												
ATTRIBUTES	See <code>attributes(5)</code> for descriptions of the following attributes:												
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MT-Level	Safe												
SEE ALSO	<code>intro(3)</code> , <code>malloc(3MALLOC)</code> , <code>attributes(5)</code>												

libmapmalloc(3LIB)

NAME	libmapmalloc – alternative memory allocator library						
SYNOPSIS	<pre>cc [flag . . .] file . . . -lmapmalloc [library . . .] #include <stdlib.h></pre>						
DESCRIPTION	Functions in this library provide malloc routines that use mmap(2) instead of sbrk(2) for acquiring heap space.						
INTERFACES	The shared object libmapmalloc.so.1 provides the public interfaces defined below. See intro(3) for additional information on shared object interfaces.						
	<pre>calloc cfree free mallinfo malloc mallopt memalign realloc valloc</pre>						
FILES	<pre>/usr/lib/libmapmalloc.a archive library /usr/lib/libmapmalloc.so.1 shared object /usr/lib/64/libmapmalloc.so.1 64-bit shared object</pre>						
ATTRIBUTES	See attributes(5) for descriptions of the following attributes:						
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Availability	SUNWcsl (32-bit) SUNWcslx (64-bit)						
MT-Level	Safe						
SEE ALSO	pvs(1), mmap(2), sbrk(2), intro(3), malloc(3C), malloc(3MALLOC), mapmalloc(3MALLOC), attributes(5)						

libmd5(3LIB)

NAME	libmd5 – MD5 hashing library
SYNOPSIS	<pre>cc [flag . . .] file . . . -lmd5 [library . . .] #include <md5.h></pre>
DESCRIPTION	Functions in this library provide MD5 hashing routines.
INTERFACES	The shared object libmd5.so.1 provides the public interfaces defined below. See intro(3) for additional information on shared object interfaces.

MD5Final MD5Init MD5Update md5_calc

FILES	/usr/lib/libmd5.so.1 shared object
	/usr/lib/64/libmd5.so.1 64-bit shared object.

ATTRIBUTES See attributes(5) for description of the following attributes:

ATTRIBUTE TYPE	ATTRIBUTE VALUE
Availability	SUNWcsl (32-bit) SUNWcslx (64-bit)
MT Level	MT-Safe

SEE ALSO intro(3), attributes(5)

NAME	libmenu – menus library																																																
SYNOPSIS	<code>cc [flag . . .] file . . . -lmenu [library . . .]</code>																																																
DESCRIPTION	Functions in this library provide menus using libcurses(3LIB) routines.																																																
INTERFACES	The shared object <code>libmenu.so.1</code> provides the public interfaces defined below. See <code>intro(3)</code> for additional information on shared object interfaces.																																																
	<table> <tbody> <tr><td><code>current_item</code></td><td><code>free_item</code></td></tr> <tr><td><code>free_menu</code></td><td><code>item_count</code></td></tr> <tr><td><code>item_description</code></td><td><code>item_index</code></td></tr> <tr><td><code>item_init</code></td><td><code>item_name</code></td></tr> <tr><td><code>item_opts</code></td><td><code>item_opts_off</code></td></tr> <tr><td><code>item_opts_on</code></td><td><code>item_term</code></td></tr> <tr><td><code>item_userptr</code></td><td><code>item_value</code></td></tr> <tr><td><code>item_visible</code></td><td><code>menu_back</code></td></tr> <tr><td><code>menu_driver</code></td><td><code>menu_fore</code></td></tr> <tr><td><code>menu_format</code></td><td><code>menu_grey</code></td></tr> <tr><td><code>menu_init</code></td><td><code>menu_items</code></td></tr> <tr><td><code>menu_mark</code></td><td><code>menu_opts</code></td></tr> <tr><td><code>menu_opts_off</code></td><td><code>menu_opts_on</code></td></tr> <tr><td><code>menu_pad</code></td><td><code>menu_pattern</code></td></tr> <tr><td><code>menu_sub</code></td><td><code>menu_term</code></td></tr> <tr><td><code>menu_userptr</code></td><td><code>menu_win</code></td></tr> <tr><td><code>new_item</code></td><td><code>new_menu</code></td></tr> <tr><td><code>pos_menu_cursor</code></td><td><code>post_menu</code></td></tr> <tr><td><code>scale_menu</code></td><td><code>set_current_item</code></td></tr> <tr><td><code>set_item_init</code></td><td><code>set_item_opts</code></td></tr> <tr><td><code>set_item_term</code></td><td><code>set_item_userptr</code></td></tr> <tr><td><code>set_item_value</code></td><td><code>set_menu_back</code></td></tr> <tr><td><code>set_menu_fore</code></td><td><code>set_menu_format</code></td></tr> <tr><td><code>set_menu_grey</code></td><td><code>set_menu_init</code></td></tr> </tbody> </table>	<code>current_item</code>	<code>free_item</code>	<code>free_menu</code>	<code>item_count</code>	<code>item_description</code>	<code>item_index</code>	<code>item_init</code>	<code>item_name</code>	<code>item_opts</code>	<code>item_opts_off</code>	<code>item_opts_on</code>	<code>item_term</code>	<code>item_userptr</code>	<code>item_value</code>	<code>item_visible</code>	<code>menu_back</code>	<code>menu_driver</code>	<code>menu_fore</code>	<code>menu_format</code>	<code>menu_grey</code>	<code>menu_init</code>	<code>menu_items</code>	<code>menu_mark</code>	<code>menu_opts</code>	<code>menu_opts_off</code>	<code>menu_opts_on</code>	<code>menu_pad</code>	<code>menu_pattern</code>	<code>menu_sub</code>	<code>menu_term</code>	<code>menu_userptr</code>	<code>menu_win</code>	<code>new_item</code>	<code>new_menu</code>	<code>pos_menu_cursor</code>	<code>post_menu</code>	<code>scale_menu</code>	<code>set_current_item</code>	<code>set_item_init</code>	<code>set_item_opts</code>	<code>set_item_term</code>	<code>set_item_userptr</code>	<code>set_item_value</code>	<code>set_menu_back</code>	<code>set_menu_fore</code>	<code>set_menu_format</code>	<code>set_menu_grey</code>	<code>set_menu_init</code>
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libmenu(3LIB)

	set_menu_items	set_menu_mark						
	set_menu_opts	set_menu_pad						
	set_menu_pattern	set_menu_sub						
	set_menu_term	set_menu_userptr						
	set_menu_win	set_top_row						
	top_row	unpost_menu						
FILES	/usr/lib/libmenu.a	archive library						
	/usr/lib/libmenu.so.1	shared object						
	/usr/lib/64/libmenu.so.1	64-bit shared object						
ATTRIBUTES	See attributes(5) for descriptions of the following attributes:							
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MT-Level	Unsafe							
SEE ALSO	intro(3), libcurses(3LIB), attributes(5)							

NAME	libmp – multiple precision library										
SYNOPSIS	<pre>cc [flag . . .] file . . . -lmp [library . . .] #include <mp.h></pre>										
DESCRIPTION	Functions in this library provide various multiple precision routines.										
INTERFACES	The shared object libmp.so.2 provides the public interfaces defined below. See intro(3) for additional information on shared object interfaces.										
	mp_gcd	mp_itom	mp_madd	mp_mcmp	mp_mdiv						
	mp_mfree	mp_min	mp_mout	mp_msqrt	mp_msub						
	mp_mtox	mp_mult	mp_pow	mp_rpow	mp_sdiv						
	mp_xtom										
FILES	/usr/lib/libmp.a		archive library								
	/usr/lib/libmp.so.1		shared object for binary compatibility only								
	/usr/lib/libmp.so.2		shared object								
	/usr/lib/64/libmp.so.2		64-bit shared object								
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MT-Level	Unsafe										
SEE ALSO	pvs(1), intro(3), exp(3M), mp(3MP), attributes(5)										

libmtmalloc(3LIB)

NAME	libmtmalloc – multi-threaded memory allocator library								
SYNOPSIS	<pre>cc [flag...] file... -lmtmalloc [library...] #include <mtmalloc.h></pre>								
DESCRIPTION	Functions in this library provide concurrent access to heap space.								
INTERFACES	The shared object <code>libmtmalloc.so.1</code> provides the public interfaces defined below. See <code>intro(3)</code> for additional information on shared object interfaces.								
	<table><tr><td><code>calloc</code></td><td><code>free</code></td></tr><tr><td><code>malloc</code></td><td><code>mallocctl</code></td></tr><tr><td><code>memalign</code></td><td><code>realloc</code></td></tr><tr><td><code>valloc</code></td><td></td></tr></table>	<code>calloc</code>	<code>free</code>	<code>malloc</code>	<code>mallocctl</code>	<code>memalign</code>	<code>realloc</code>	<code>valloc</code>	
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<code>malloc</code>	<code>mallocctl</code>								
<code>memalign</code>	<code>realloc</code>								
<code>valloc</code>									
FILES	<code>/usr/lib/libmtmalloc.so.1</code> shared object <code>/usr/lib/64/libmtmalloc.so.1</code> 64-bit shared object								
ATTRIBUTES	See <code>attributes(5)</code> for descriptions of the following attributes:								
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SEE ALSO	<code>pvs(1), sbrk(2), intro(3), malloc(3C), malloc(3MALLOC),</code> <code>mapmalloc(3MALLOC), mtmalloc(3MALLOC), attributes(5)</code>								

NAME	libnsl – network services library																																
SYNOPSIS	<code>cc [flag . . .] file . . . -lnsl [library . . .]</code>																																
DESCRIPTION	<p>Functions in this library provide routines that provide a transport-level interface to networking services for applications, facilities for machine-independent data representation, a remote procedure call mechanism, and other networking services useful for application programs.</p> <p>Many features in this library are implemented upon dynamic linking and will not function correctly if the library is statically linked. Additionally, an application that statically links this library will not be compliant with the System V Application Binary Interface.</p> <p>Some symbols are not intended to be referenced directly. Rather, they are exposed because they are used elsewhere through a private interface. One such example is the set of symbols beginning with the <code>_xti</code> prefix. Those symbols are used in implementing the X/Open Transport Interface (XTI) interfaces documented in <code>libxnet</code>. See <code>libxnet(3LIB)</code>.</p>																																
INTERFACES	<p>The shared object <code>libnsl.so.1</code> provides the public interfaces defined below. See <code>intro(3)</code> for additional information on shared object interfaces.</p> <table> <tbody> <tr><td><code>_rpc_createerr</code></td><td><code>_t_errno</code></td></tr> <tr><td><code>_nderror</code></td><td><code>_null_auth</code></td></tr> <tr><td><code>_xti_accept</code></td><td><code>_xti_alloc</code></td></tr> <tr><td><code>_xti_bind</code></td><td><code>_xti_close</code></td></tr> <tr><td><code>_xti_connect</code></td><td><code>_xti_error</code></td></tr> <tr><td><code>_xti_free</code></td><td><code>_xti_getinfo</code></td></tr> <tr><td><code>_xti_getprotaddr</code></td><td><code>_xti_getstate</code></td></tr> <tr><td><code>_xti_listen</code></td><td><code>_xti_look</code></td></tr> <tr><td><code>_xti_open</code></td><td><code>_xti_optmgmt</code></td></tr> <tr><td><code>_xti_rcv</code></td><td><code>_xti_rcvconnect</code></td></tr> <tr><td><code>_xti_rcvdis</code></td><td><code>_xti_rcvrel</code></td></tr> <tr><td><code>_xti_rcvreldata</code></td><td><code>_xti_rcvudata</code></td></tr> <tr><td><code>_xti_rcvuderr</code></td><td><code>_xti_rcvv</code></td></tr> <tr><td><code>_xti_rcvvudata</code></td><td><code>_xti_snd</code></td></tr> <tr><td><code>_xti_snddis</code></td><td><code>_xti_sndrel</code></td></tr> <tr><td><code>_xti_sndreldata</code></td><td><code>_xti_sndudata</code></td></tr> </tbody> </table>	<code>_rpc_createerr</code>	<code>_t_errno</code>	<code>_nderror</code>	<code>_null_auth</code>	<code>_xti_accept</code>	<code>_xti_alloc</code>	<code>_xti_bind</code>	<code>_xti_close</code>	<code>_xti_connect</code>	<code>_xti_error</code>	<code>_xti_free</code>	<code>_xti_getinfo</code>	<code>_xti_getprotaddr</code>	<code>_xti_getstate</code>	<code>_xti_listen</code>	<code>_xti_look</code>	<code>_xti_open</code>	<code>_xti_optmgmt</code>	<code>_xti_rcv</code>	<code>_xti_rcvconnect</code>	<code>_xti_rcvdis</code>	<code>_xti_rcvrel</code>	<code>_xti_rcvreldata</code>	<code>_xti_rcvudata</code>	<code>_xti_rcvuderr</code>	<code>_xti_rcvv</code>	<code>_xti_rcvvudata</code>	<code>_xti_snd</code>	<code>_xti_snddis</code>	<code>_xti_sndrel</code>	<code>_xti_sndreldata</code>	<code>_xti_sndudata</code>
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libnsl(3LIB)

_xti_sndv	_xti_sndvudata
_xti_strerror	_xti_sync
_xti_sysconf	_xti_unbind
_xti_xns5_accept	_xti_xns5_snd
auth_destroy	authdes_create
authdes_getucred	authdes_lock
authdes_seccreate	authnone_create
authsys_create	authsys_create_default
callrpc	clnt_broadcast
clnt_call	clnt_control
clnt_create	clnt_create_timed
clnt_create_vers	clnt_create_vers_timed
clnt_destroy	clnt_dg_create
clnt_door_create	clnt_freeres
clnt_geterr	clnt_pcreateerror
clnt_perrno	clnt_perror
clnt_raw_create	clnt_spcreateerror
clnt_sperrno	clnt_sperror
clnt_tli_create	clnt_tp_create
clnt_tp_create_timed	clnt_vc_create
clnraw_create	clnttcp_create
clntudp_bufcreate	clntudp_create
dbmclose	dbminit
delete	des_setparity
dial	doconfig
endhostent	endnetconfig
endnetpath	endrpcent
fetch	firstkey
freehostent	freenetconfigent
get_myaddress	gethostbyaddr

libnsl(3LIB)

gethostbyaddr_r	gethostbyname
gethostbyname_r	gethostent
gethostent_r	getipnodebyaddr
getipnodebyname	getnetconfig
getnetconfigent	getnetname
getnetpath	getpublickey
getrpcbyname	getrpcbyname_r
getrpcbynumber	getrpcbynumber_r
getrpcent	getrpcent_r
getrpcport	getsecretkey
h_errno	host2netname
inet_addr	inet_netof
inet_ntoa	inet_ntoa_r
inet_ntop	inet_pton
key_decryptsession	key_encryptsession
key_gendes	key_secretkey_is_set
key_setsecret	maxbno
nc_perror	nc_sperror
netdir_free	netdir_getbyaddr
netdir_getbyname	netdir_options
netdir_perror	netdir_sperror
netname2host	netname2user
nextkey	nis_add
nis_add_entry	nis_addmember
nis_checkpoint	nis_clone_object
nis_creategroup	nis_data
nis_destroy_object	nis_destroygroup
nis_dir_cmp	nis_domain_of
nis_dump	nis_dumplog
nis_find_item	nis_finddirectory

libnsl(3LIB)

nis_first_entry	nis_free_request
nis_freenames	nis_freeresult
nis_freeservlist	nis_freetags
nis_get_request	nis_get_static_storage
nis_getnames	nis_getservlist
nis_in_table	nis_insert_item
nis_insert_name	nis_ismember
nis_leaf_of	nis_leaf_of_r
nis_lerror	nis_list
nis_local_directory	nis_local_group
nis_local_host	nis_local_principal
nis_lookup	nis_make_error
nis_make_rpchandle	nis_mkdir
nis_modify	nis_modify_entry
nis_name_of	nis_next_entry
nis_perror	nis_ping
nis_print_directory	nis_print_entry
nis_print_group	nis_print_group_entry
nis_print_link	nis_print_object
nis_print_rights	nis_print_table
nis_read_obj	nis_remove
nis_remove_entry	nis_remove_item
nis_remove_name	nis_removemember
nis_rmdir	nis_servstate
nis_sperrno	nis_sperror
nis_sperror_r	nis_stats
nis_verifygroup	nis_write_obj
pmap_getmaps	pmap_getport
pmap_rmtcall	pmap_set
pmap_unset	registerrpc

rpc_broadcast	rpc_broadcast_exp
rpc_call	rpc_control
rpc_createerr	rpc_gss_get_error
rpc_gss_get_mech_info	rpc_gss_get_mechanisms
rpc_gss_get_principal_name	rpc_gss_get_versions
rpc_gss_getcred	rpc_gss_is_installed
rpc_gss_max_data_length	rpc_gss_mech_to_oid
rpc_gss_qop_to_num	rpc_gss_seccreate
rpc_gss_set_callback	rpc_gss_set_defaults
rpc_gss_set_svc_name	rpc_gss_svc_max_data_length
rpc_reg	rpccb_getaddr
rpccb_getmaps	rpccb_gettime
rpccb_rmtcall	rpccb_set
rpccb_unset	sethostent
setnetconfig	setnetpath
setrpcent	store
svc_auth_reg	svc_control
svc_create	svc_destroy
svc_dg_create	svc_dg_enablecache
svc_done	svc_door_create
svc_exit	svc_fd_create
svc_fdset	svc_freeargs
svc_get_local_cred	svc_getargs
svc_getreq	svc_getreq_common
svc_getreq_poll	svc_getreqset
svc_getrpccaller	svc_max_pollfd
svc_pollfd	svc_raw_create
svc_reg	svc_register
svc_run	svc_sendreply
svc_tli_create	svc_tp_create

libnsl(3LIB)

svc_unreg	svc_unregister
svc_vc_create	svcerr_auth
svcerr_decode	svcerr_noproc
svcerr_noprog	svcerr_progvers
svcerr_systemerr	svcerr_weakauth
svcfd_create	svccraw_create
svctcp_create	svccudp_bufcreate
svccudp_create	t_accept
t_alloc	t_bind
t_close	t_connect
t_errno	t_error
t_free	t_getinfo
t_getname	t_getstate
t_listen	t_look
t_nerr	t_open
t_optmgmt	t_rcv
t_rcvconnect	t_rcvdis
t_rcvrel	t_rcvudata
t_rcvuderr	t_snd
t_snndis	t_sndrel
t_sndudata	t_strerror
t_sync	t_unbind
taddr2uaddr	uaddr2taddr
undial	user2netname
xdr_accepted_reply	xdr_array
xdr_authsys_parms	xdr_bool
xdr_bytes	xdr_callhdr
xdr_callmsg	xdr_char
xdr_destroy	xdr_double
xdr_enum	xdr_float

xdr_free	xdr_getpos
xdr_hyper	xdr_inline
xdr_int	xdr_int16_t
xdr_int32_t	xdr_int64_t
xdr_int8_t	xdr_long
xdr_longlong_t	xdr_opaque
xdr_opaque_auth	xdr_pointer
xdr_quadruple	xdr_reference
xdr_rejected_reply	xdr_replaymsg
xdr_setpos	xdr_short
xdr_sizeof	xdr_string
xdr_u_char	xdr_u_hyper
xdr_u_int	xdr_u_long
xdr_u_longlong_t	xdr_u_short
xdr_uint16_t	xdr_uint32_t
xdr_uint64_t	xdr_uint8_t
xdr_union	xdr_vector
xdr_void	xdr_wrapstring
xdrmem_create	xdrrec_create
xdrrec_endofrecord	xdrrec_eof
xdrrec_readbytes	xdrrec_skiprecord
xdrstdio_create	xprt_register
xprt_unregister	yp_all
yp_bind	yp_first
yp_get_default_domain	yp_master
yp_match	yp_next
yp_order	yp_unbind
yp_update	yperr_string
ypprot_err	

The following interface is unique to the 32-bit version of this library:

libnsl(3LIB)

	<code>_new_svc_fdset</code>						
FILES	/usr/lib/libnsl.a archive library /usr/lib/libnsl.so.1 shared object /usr/lib/64/libnsl.so.1 64-bit shared object						
ATTRIBUTES	See attributes(5) for descriptions of the following attributes:						
	<table border="1"><thead><tr><th>ATTRIBUTE TYPE</th><th>ATTRIBUTE VALUE</th></tr></thead><tbody><tr><td>Availability</td><td>SUNWcsl, SUNWarc (32-bit) SUNWcslx (64-bit)</td></tr><tr><td>MT-Level</td><td>Safe with exceptions</td></tr></tbody></table>	ATTRIBUTE TYPE	ATTRIBUTE VALUE	Availability	SUNWcsl, SUNWarc (32-bit) SUNWcslx (64-bit)	MT-Level	Safe with exceptions
ATTRIBUTE TYPE	ATTRIBUTE VALUE						
Availability	SUNWcsl, SUNWarc (32-bit) SUNWcslx (64-bit)						
MT-Level	Safe with exceptions						
SEE ALSO	pvs(1) , intro(2) , intro(3) , libxnet(3LIB) , attributes(5)						

NAME	libnvpair – name-value pair library																																																
SYNOPSIS	<pre>cc [flag . . .] file . . . -lnvpair [library . . .] #include <libnvpair.h></pre>																																																
DESCRIPTION	Functions in this library provide various name-value pair routines.																																																
INTERFACES	The shared object <code>libnvpair.so.1</code> provides the public interfaces defined below. See <code>intro(3)</code> for additional information on shared object interfaces.																																																
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libnvpair(3LIB)

nvpair_value_int16_array	nvpair_value_int32
nvpair_value_int32_array	nvpair_value_int64
nvpair_value_int64_array	nvpair_value_string
nvpair_value_string_array	nvpair_value_uint16
nvpair_value_uint16_array	nvpair_value_uint32
nvpair_value_uint32_array	nvpair_value_uint64
nvpair_value_uint64_array	

FILES /usr/lib/libnvpair.so.1
shared object

/usr/lib/64/libnvpair.so.1
64-bit shared object

ATTRIBUTES See attributes(5) for description of the following attributes:

ATTRIBUTE TYPE	ATTRIBUTE VALUE
Availability	SUNWcsl (32-bit) SUNWcslx (64-bit)
MT-Level	MT-Safe

SEE ALSO intro(3), libnvpair(3NVPAIR), attributes(5)

libpam(3LIB)

NAME	libpam – PAM (Pluggable Authentication Module) library																		
SYNOPSIS	<pre>cc [flag . . .] file . . . -lpam [library . . .] #include <security/pam_appl.h></pre>																		
DESCRIPTION	Functions in this library provide routines for the Pluggable Authentication Module (PAM).																		
INTERFACES	The shared object libpam.so.1 provides the public interfaces defined below. See intro(3) for additional information on shared object interfaces.																		
	<table><tbody><tr><td>pam_acct_mgmt</td><td>pam_authenticate</td></tr><tr><td>pam_chauthtok</td><td>pam_close_session</td></tr><tr><td>pam_end</td><td>pam_get_data</td></tr><tr><td>pam_get_item</td><td>pam_get_user</td></tr><tr><td>pam_getenv</td><td>pam_getenvlist</td></tr><tr><td>pam_open_session</td><td>pam_putenv</td></tr><tr><td>pam_set_data</td><td>pam_set_item</td></tr><tr><td>pam_setcred</td><td>pam_start</td></tr><tr><td>pam_strerror</td><td></td></tr></tbody></table>	pam_acct_mgmt	pam_authenticate	pam_chauthtok	pam_close_session	pam_end	pam_get_data	pam_get_item	pam_get_user	pam_getenv	pam_getenvlist	pam_open_session	pam_putenv	pam_set_data	pam_set_item	pam_setcred	pam_start	pam_strerror	
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FILES	<table><tbody><tr><td>/usr/lib/libpam.so.1</td><td>shared object</td></tr><tr><td>/etc/pam.conf</td><td>configuration file</td></tr><tr><td>/usr/lib/security/pam_dial_auth.so.1</td><td>authentication management PAM module for dialups</td></tr><tr><td>/usr/lib/security/pam_rhosts_auth.so.1</td><td>authentication management PAM modules that use ruserok()</td></tr><tr><td>/usr/lib/security/pam_sample.so.1</td><td>sample PAM module</td></tr><tr><td>/usr/lib/security/pam_unix.so.1</td><td>authentication, account, session and password management PAM module</td></tr></tbody></table>	/usr/lib/libpam.so.1	shared object	/etc/pam.conf	configuration file	/usr/lib/security/pam_dial_auth.so.1	authentication management PAM module for dialups	/usr/lib/security/pam_rhosts_auth.so.1	authentication management PAM modules that use ruserok()	/usr/lib/security/pam_sample.so.1	sample PAM module	/usr/lib/security/pam_unix.so.1	authentication, account, session and password management PAM module						
/usr/lib/libpam.so.1	shared object																		
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ATTRIBUTES	See attributes(5) for description of the following attributes:																		
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ATTRIBUTE TYPE	ATTRIBUTE VALUE																		
Availability	SUNWcsl																		

libpam(3LIB)

ATTRIBUTE TYPE	ATTRIBUTE VALUE
MT Level	MT-Safe with exceptions

- SEE ALSO** pvs(1), intro(3), pam(3PAM), pam.conf(4), attributes(5), pam_authtok_check(5), pam_authtok_get(5), pam_authtok_store(5), pam_dial_auth(5), pam_dhkeys(5), pam_passwd_auth(5), pam_rhosts_auth(5), pam_sample(5), pam_unix(5), pam_unix_account(5), pam_unix_auth(5), pam_unix_session(5)
- NOTES** The functions in `libpam` are MT-Safe only if each thread within the multithreaded application uses its own PAM handle.
- The `pam_unix(5)` module might not be supported in a future release. Similar functionality is provided by `pam_authtok_check(5)`, `pam_authtok_get(5)`, `pam_authtok_store(5)`, `pam_dhkeys(5)`, `pam_passwd_auth(5)`, `pam_unix_account(5)`, `pam_unix_auth(5)`, and `pam_unix_session(5)`.

NAME	libpanel – panels library																	
SYNOPSIS	<code>cc [flag . . .] file . . . -lpanel [library . . .]</code>																	
DESCRIPTION	Functions in this library provide panels using <code>libcurses(3LIB)</code> routines.																	
INTERFACES	The shared object <code>libpanel.so.1</code> provides the public interfaces defined below. See <code>intro(3)</code> for additional information on shared object interfaces.																	
<table> <tbody> <tr><td><code>bottom_panel</code></td><td><code>del_panel</code></td></tr> <tr><td><code>hide_panel</code></td><td><code>move_panel</code></td></tr> <tr><td><code>new_panel</code></td><td><code>panel_above</code></td></tr> <tr><td><code>panel_below</code></td><td><code>panel_hidden</code></td></tr> <tr><td><code>panel_userptr</code></td><td><code>panel_window</code></td></tr> <tr><td><code>replace_panel</code></td><td><code>set_panel_userptr</code></td></tr> <tr><td><code>show_panel</code></td><td><code>top_panel</code></td></tr> <tr><td><code>update_panels</code></td><td></td></tr> </tbody> </table>			<code>bottom_panel</code>	<code>del_panel</code>	<code>hide_panel</code>	<code>move_panel</code>	<code>new_panel</code>	<code>panel_above</code>	<code>panel_below</code>	<code>panel_hidden</code>	<code>panel_userptr</code>	<code>panel_window</code>	<code>replace_panel</code>	<code>set_panel_userptr</code>	<code>show_panel</code>	<code>top_panel</code>	<code>update_panels</code>	
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<code>show_panel</code>	<code>top_panel</code>																	
<code>update_panels</code>																		
FILES	<code>/usr/lib/libpanel.a</code>	archive library																
	<code>/usr/lib/libpanel.so.1</code>	shared object																
	<code>/usr/lib/64/libpanel.so.1</code>	64-bit shared object																
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MT-Level	Unsafe																	
SEE ALSO	<code>intro(3), libcurses(3LIB), attributes(5)</code>																	

libpctx(3LIB)

NAME	libpctx – process context library						
SYNOPSIS	<code>cc [flag . . .] file . . . -lpctx [library . . .]</code>						
DESCRIPTION	<p>Functions in this library provide a simple means to access the underlying facilities of <code>proc(4)</code> to allow a controlling process to manipulate the state of a controlled process.</p> <p>This library is primarily for use in conjunction with the <code>libcpc(3LIB)</code> library. Used together, these libraries allow developers to construct tools that can manipulate CPU performance counters in other processes. The <code>cputrack(1)</code> utility is an example of such a tool.</p>						
INTERFACES	The shared object <code>libpctx.so.1</code> provides the public interfaces defined below. See <code>intro(3)</code> for additional information on shared object interfaces.						
	<table><tr><td><code>pctx_capture</code></td><td><code>pctx_create</code></td></tr><tr><td><code>pctx_release</code></td><td><code>pctx_run</code></td></tr><tr><td><code>pctx_set_events</code></td><td></td></tr></table>	<code>pctx_capture</code>	<code>pctx_create</code>	<code>pctx_release</code>	<code>pctx_run</code>	<code>pctx_set_events</code>	
<code>pctx_capture</code>	<code>pctx_create</code>						
<code>pctx_release</code>	<code>pctx_run</code>						
<code>pctx_set_events</code>							
FILES	<table><tr><td><code>/usr/lib/libpctx.so.1</code></td><td>shared object</td></tr><tr><td><code>/usr/lib/64/libpctx.so.1</code></td><td>64-bit shared object</td></tr></table>	<code>/usr/lib/libpctx.so.1</code>	shared object	<code>/usr/lib/64/libpctx.so.1</code>	64-bit shared object		
<code>/usr/lib/libpctx.so.1</code>	shared object						
<code>/usr/lib/64/libpctx.so.1</code>	64-bit shared object						
ATTRIBUTES	See <code>attributes(5)</code> for descriptions of the following attributes:						
	<table border="1"><thead><tr><th>ATTRIBUTE TYPE</th><th>ATTRIBUTE VALUE</th></tr></thead><tbody><tr><td>Availability</td><td>SUNWcpcu (32-bit) SUNWcpcux (64-bit)</td></tr><tr><td>MT-Level</td><td>Safe</td></tr></tbody></table>	ATTRIBUTE TYPE	ATTRIBUTE VALUE	Availability	SUNWcpcu (32-bit) SUNWcpcux (64-bit)	MT-Level	Safe
ATTRIBUTE TYPE	ATTRIBUTE VALUE						
Availability	SUNWcpcu (32-bit) SUNWcpcux (64-bit)						
MT-Level	Safe						
SEE ALSO	<code>cputrack(1)</code> , <code>intro(3)</code> , <code>cpc(3CPC)</code> , <code>libcpc(3LIB)</code> , <code>proc(4)</code> , <code>attributes(5)</code>						

NAME	libpicl – PICL library																		
SYNOPSIS	<pre>cc [flag . . .] file . . . -lpicl [library . . .] #include <picl.h></pre>																		
DESCRIPTION	Functions in this library are used to interface with the PICL daemon to access information from the PICL tree.																		
INTERFACES	The shared object libpicl.so.1 provides the public interfaces defined below. See intro(3) for additional information on shared object interfaces.																		
	<table> <tbody> <tr><td>picl_get_first_prop</td><td>picl_get_next_by_col</td></tr> <tr><td>picl_get_next_by_row</td><td>picl_get_next_prop</td></tr> <tr><td>picl_get_prop_by_name</td><td>picl_get_propinfo</td></tr> <tr><td>picl_get_propinfo_by_name</td><td>picl_get_propval</td></tr> <tr><td>picl_get_propval_by_name</td><td>picl_get_root</td></tr> <tr><td>picl_initialize</td><td>picl_set_propval</td></tr> <tr><td>picl_set_propval_by_name</td><td>picl_shutdown</td></tr> <tr><td>picl_strerror</td><td>picl_wait</td></tr> <tr><td>picl_walk_tree_by_class</td><td></td></tr> </tbody> </table>	picl_get_first_prop	picl_get_next_by_col	picl_get_next_by_row	picl_get_next_prop	picl_get_prop_by_name	picl_get_propinfo	picl_get_propinfo_by_name	picl_get_propval	picl_get_propval_by_name	picl_get_root	picl_initialize	picl_set_propval	picl_set_propval_by_name	picl_shutdown	picl_strerror	picl_wait	picl_walk_tree_by_class	
picl_get_first_prop	picl_get_next_by_col																		
picl_get_next_by_row	picl_get_next_prop																		
picl_get_prop_by_name	picl_get_propinfo																		
picl_get_propinfo_by_name	picl_get_propval																		
picl_get_propval_by_name	picl_get_root																		
picl_initialize	picl_set_propval																		
picl_set_propval_by_name	picl_shutdown																		
picl_strerror	picl_wait																		
picl_walk_tree_by_class																			
FILES	<p>/usr/lib/libpicl.so.1 shared object</p> <p>/usr/lib/64/libpicl.so.1 64-bit shared object</p>																		
ATTRIBUTES	See attributes(5) for descriptions of the following attributes:																		
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SEE ALSO	pvs(1), intro(3), libpicl(3PICL), attributes(5)																		

libpicltree(3LIB)

NAME	libpicltree – PICL plug-in library																																
SYNOPSIS	<pre>cc [flag . . .] file . . . -lpicltree [library . . .] #include <picltree.h></pre>																																
DESCRIPTION	Functions in this library are used by PICL plug-in modules to register with the PICL daemon and to publish information in the PICL tree.																																
INTERFACES	The shared object <code>libpicltree.so.1</code> provides the public interfaces defined below. See <code>intro(3)</code> for additional information on shared object interfaces.																																
	<table><tbody><tr><td><code>picld_plugin_register</code></td><td><code>ptree_add_node</code></td></tr><tr><td><code>ptree_add_prop</code></td><td><code>ptree_add_row_to_table</code></td></tr><tr><td><code>ptree_create_and_add_node</code></td><td><code>ptree_create_and_add_prop</code></td></tr><tr><td><code>ptree_create_node</code></td><td><code>ptree_create_prop</code></td></tr><tr><td><code>ptree_create_table</code></td><td><code>ptree_delete_node</code></td></tr><tr><td><code>ptree_delete_prop</code></td><td><code>ptree_destroy_node</code></td></tr><tr><td><code>ptree_destroy_prop</code></td><td><code>ptree_find_node</code></td></tr><tr><td><code>ptree_get_first_prop</code></td><td><code>ptree_get_next_by_col</code></td></tr><tr><td><code>ptree_get_next_by_row</code></td><td><code>ptree_get_next_prop</code></td></tr><tr><td><code>ptree_get_node_by_path</code></td><td><code>ptree_get_prop_by_name</code></td></tr><tr><td><code>ptree_get_propinfo</code></td><td><code>ptree_get_propval</code></td></tr><tr><td><code>ptree_get_propval_by_name</code></td><td><code>ptree_get_root</code></td></tr><tr><td><code>ptree_init_propinfo</code></td><td><code>ptree_post_event</code></td></tr><tr><td><code>ptree_register_handler</code></td><td><code>ptree_unregister_handler</code></td></tr><tr><td><code>ptree_update_propval</code></td><td><code>ptree_update_propval_by_name</code></td></tr><tr><td><code>ptree_walk_tree_by_class</code></td><td></td></tr></tbody></table>	<code>picld_plugin_register</code>	<code>ptree_add_node</code>	<code>ptree_add_prop</code>	<code>ptree_add_row_to_table</code>	<code>ptree_create_and_add_node</code>	<code>ptree_create_and_add_prop</code>	<code>ptree_create_node</code>	<code>ptree_create_prop</code>	<code>ptree_create_table</code>	<code>ptree_delete_node</code>	<code>ptree_delete_prop</code>	<code>ptree_destroy_node</code>	<code>ptree_destroy_prop</code>	<code>ptree_find_node</code>	<code>ptree_get_first_prop</code>	<code>ptree_get_next_by_col</code>	<code>ptree_get_next_by_row</code>	<code>ptree_get_next_prop</code>	<code>ptree_get_node_by_path</code>	<code>ptree_get_prop_by_name</code>	<code>ptree_get_propinfo</code>	<code>ptree_get_propval</code>	<code>ptree_get_propval_by_name</code>	<code>ptree_get_root</code>	<code>ptree_init_propinfo</code>	<code>ptree_post_event</code>	<code>ptree_register_handler</code>	<code>ptree_unregister_handler</code>	<code>ptree_update_propval</code>	<code>ptree_update_propval_by_name</code>	<code>ptree_walk_tree_by_class</code>	
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`libpicltree(3LIB)`

ATTRIBUTE TYPE	ATTRIBUTE VALUE
MT-Level	MT-Safe

SEE ALSO `pvs(1), intro(3), libpicltree(3PICLTREE), attributes(5)`

libplot(3LIB)

NAME	libplot, lib300, lib300s, lib4014, lib450, libvt0 – graphics interface libraries																								
SYNOPSIS	<pre>cc [flag . . .] file . . . -lplot [library . . .] #include <plot.h></pre>																								
DESCRIPTION	Functions in this library generate graphics output.																								
INTERFACES	The shared object <code>libplot.so.1</code> provides the public interfaces defined below. See <code>intro(3)</code> for additional information on shared object interfaces.																								
	<table><tr><td>arc</td><td>box</td><td>circle</td><td>closepl</td><td>closevt</td></tr><tr><td>cont</td><td>dot</td><td>erase</td><td>label</td><td>line</td></tr><tr><td>linemod</td><td>move</td><td>openpl</td><td>openvt</td><td>point</td></tr><tr><td>space</td><td></td><td></td><td></td><td></td></tr></table>	arc	box	circle	closepl	closevt	cont	dot	erase	label	line	linemod	move	openpl	openvt	point	space								
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space																									
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libplot(3LIB)

```
/usr/lib/lib450.a
    archive library
/usr/lib/lib450.so.1
    shared object
/usr/lib/sparcv9/lib450.so.1
    64-bit shared object
/usr/lib/libvt0.a
    archive library
/usr/lib/libvt0.so.1
    shared object
/usr/lib/sparcv9/libvt0.so.1
    64-bit shared object
```

ATTRIBUTES

See [attributes\(5\)](#) for descriptions of the following attributes:

ATTRIBUTE TYPE	ATTRIBUTE VALUE
Availability	SUNWcsl, SUNWarc (32-bit) SUNWcslx (64-bit)
MT-Level	Unsafe

SEE ALSO

[pvs\(1\)](#), [intro\(3\)](#), [attributes\(5\)](#)

libpool(3LIB)

NAME	libpool – pool configuration manipulation library		
SYNOPSIS	<pre>cc [flag...] file... [library...] #include <pool.h></pre>		
DESCRIPTION	<p>The functions in this library define the interface for reading and writing resource pools configuration files, as well as that for committing an existing configuration to becoming the running OS configuration (with respect to partitioning subsystems). The <code><pool.h></code> header provides type and function declarations for all library services.</p> <p>The resource pools facility brings together process-bindable resources into a common abstraction called a pool. Processor sets and other entities can be configured, grouped, and labelled in a persistent fashion such that workload components can be associated with a subset of a system's total resources. The <code>libpool</code> library provides a C language API for accessing this functionality, while <code>pooladm(1M)</code>, <code>poolbind(1M)</code>, and <code>poolcfg(1M)</code> make this facility available through command invocations from a shell. Each of those manual pages describes aspects of the pools facility; this page describes the properties available to the various entities managed within the pools facility. These entities include the system, pools, and the pset resources for processor sets.</p> <p>Each active entity within the resource pools framework can have an arbitrary collection of named, typed properties associated with it. Properties supported by the pools framework are listed, with descriptions, under each entity below. In general, resource properties may be one of five types: boolean, signed and unsigned integers, floating point, and string values.</p> <p>All entities and resources support a string property for commenting purposes; this property is available for use by management applications to record descriptions and other administrator oriented data. The comment field is not used by the default pools commands, except when a configuration is initiated by the <code>poolcfg</code> utility, in which case an informative message is placed in the <code>system.comment</code> property for that configuration.</p>		
System	Property name	Type	Description
	<code>system.bind-default</code>	boolean	If specified pool not found, bind to pool with 'pool.default' property set to true.
	<code>system.comment</code>	string	User description of system.
	<code>system.version</code>	int	<code>libpool</code> version required to manipulate this configuration.

The `system.bind-default` and `system.comment` properties are writable; the `system.version` property is not.

Pools	Property name	Type	Description
	pool.active	boolean	Mark this pool as active, if true.
	pool.comment	string	User description of pool.
	pool.default	boolean	Mark this pool as the default pool, if true; see system.bind-default property.
	pool.importance	int	Relative importance of this pool; for possible resource dispute resolution.
	pool.name	string	User name for pool; used by setproject(3PROJECT) as value for 'project.pool' project attribute in project(4) database.
	pool.scheduler	string	Scheduler class to which consumers of this pool will be bound. This property is optional and if not specified, the scheduler bindings for consumers of this pool are not affected.

All of the above listed properties are writable.

Processor Sets	Property name	Type	Description
	pset.comment	string	User description of resource.
	pset.default	boolean	Marks default processor set.
	pset.escapable	boolean	Represents whether PSET_NOESCAPE is set for this pset (see pset_setattr(2))
	pset.load	uint	The load for this processor set.
	pset.max	uint	Maximum number of CPUs permitted in this processor set.
	pset.min	uint	Minimum number of CPUs permitted in this processor set.
	pset.name	string	User name for resource.
	pset.size	uint	Current number of CPUs in this processor set.
	pset.sys_id	int	System-assigned processor set ID.
	pset.type	string	Names resource type; value for all processor sets is pset.
	pset.units	string	Identifies meaning of size-related properties; value for all processor sets is population.

libpool(3LIB)

The `pset.comment`, `pset.default`, `pset.escapable`, `pset.max`, `pset.min`, `pset.min`, and `pset.name` properties are writable; the `pset.load`, `pset.size`, `pset.sys_id`, `pset.type`, and `pset.units` properties are not.

INTERFACES

The shared object `libpool.so.1` provides the public interfaces defined below. See `intro(3)` for additional information on shared object interfaces.

<code>pool_associate</code>	<code>pool_component_info</code>
<code>pool_component_to_elem</code>	<code>pool_conf_alloc</code>
<code>pool_conf_close</code>	<code>pool_conf_commit</code>
<code>pool_conf_export</code>	<code>pool_conf_free</code>
<code>pool_conf_info</code>	<code>pool_conf_location</code>
<code>pool_conf_open</code>	<code>pool_conf_remove</code>
<code>pool_conf_rollback</code>	<code>pool_conf_status</code>
<code>pool_conf_to_elem</code>	<code>pool_conf_validate</code>
<code>pool_create</code>	<code>pool_destroy</code>
<code>pool_dissociate</code>	<code>pool_dynamic_location</code>
<code>pool_error</code>	<code>pool_get_binding</code>
<code>pool_get_owning_resource</code>	<code>pool_get_pool</code>
<code>pool_get_property</code>	<code>pool_get_resource</code>
<code>pool_get_resource_binding</code>	<code>pool_info</code>
<code>pool_put_property</code>	<code>pool_query_components</code>
<code>pool_query_pool_resources</code>	<code>pool_query_pools</code>
<code>pool_query_resource_components</code>	<code>pool_query_resources</code>
<code>pool_resource_create</code>	<code>pool_resource_destroy</code>
<code>pool_resource_info</code>	<code>pool_resource_to_elem</code>
<code>pool_resource_transfer</code>	<code>pool_resource_xtransfer</code>
<code>pool_rm_property</code>	<code>pool_set_binding</code>
<code>pool_static_location</code>	<code>pool_strerror</code>
<code>pool_to_elem</code>	<code>pool_value_alloc</code>
<code>pool_value_free</code>	<code>pool_value_get_bool</code>
<code>pool_value_get_double</code>	<code>pool_value_get_int64</code>

pool_value_get_name	pool_value_get_string
pool_value_get_type	pool_value_get_uint64
pool_value_set_bool	pool_value_set_double
pool_value_set_int64	pool_value_set_name
pool_value_set_string	pool_value_set_uint64
pool_version	pool_walk_components
pool_walk_pools	pool_walk_properties
pool_walk_resources	

FILES /usr/lib/libpool.so.1
shared object

/usr/lib/sparcv9/libpool.so.1
64-bit shared object

ATTRIBUTES See attributes(5) for descriptions of the following attributes:

ATTRIBUTE TYPE	ATTRIBUTE VALUE
Availability	SUNWpool (32-bit) SUNWpoolx (64-bit)
CSI	Enabled
Interface Stability	Evolving
MT-Level	Unsafe

SEE ALSO intro(3), pool_component_info(3POOL), pool_conf_open(3POOL),
pool_conf_to_elem(3POOL), pool_create(3POOL), pool_error(3POOL),
pool_get_binding(3POOL), pool_get_property(3POOL),
pool_get_resource(3POOL), pool_resource_create(3POOL),
pool_value_alloc(3POOL), pool_walk_pools(3POOL), attributes(5)

NOTES Functions in libpool are unsafe for use in multithreaded applications where multiple configurations are being simultaneously manipulated by the application, due to shared state in the backing repository facility.

libproject(3LIB)

NAME	libproject – project database access library												
SYNOPSIS	<pre>cc [flag . . .] file . . . -lproject [library . . .] #include <project.h></pre>												
DESCRIPTION	Functions in this library provide various interfaces to extract data from the project(4) database. The header provides structure and function declarations for all library interfaces.												
INTERFACES	The shared object libproject.so.1 provides the public interfaces defined below. See intro(3) for additional information on shared object interfaces.												
	<table><tbody><tr><td>endprojent</td><td>fgetprojent</td></tr><tr><td>getdefaultproj</td><td>getprojbyid</td></tr><tr><td>getprojbyname</td><td>getprojent</td></tr><tr><td>getprojidbyname</td><td>inproj</td></tr><tr><td>project_walk</td><td>setproject</td></tr><tr><td>setprojent</td><td></td></tr></tbody></table>	endprojent	fgetprojent	getdefaultproj	getprojbyid	getprojbyname	getprojent	getprojidbyname	inproj	project_walk	setproject	setprojent	
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Availability	SUNWcsl (32-bit) SUNWcslx (64-bit)												
Interface Stability	Evolving												
MT-Level	Safe												
SEE ALSO	pvs(1), intro(3), getprojent(3PROJECT), project(4), attributes(5), standards(5)												

NAME	libpthread – POSIX threads library																																														
SYNOPSIS	<code>cc -mt [flag . . .] file . . . -lpthread [-lrt library . . .]</code>																																														
DESCRIPTION	Functions in this library provide routines that provide POSIX threading support. See standards(5). This library is implemented as a filter on the threads library (see libthread(3LIB)).																																														
INTERFACES	The shared object <code>libpthread.so.1</code> provides the public interfaces defined below. See <code>intro(3)</code> for additional information on shared object interfaces.																																														
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libpthread(3LIB)

pthread_mutex_init	pthread_mutex_lock
pthread_mutex_setprioceiling	pthread_mutex_trylock
pthread_mutex_unlock	pthread_mutexattr_destroy
pthread_mutexattr_getprioceiling	pthread_mutexattr_getprotocol
pthread_mutexattr_getpshared	pthread_mutexattr_getrobust_np
pthread_mutexattr_gettype	pthread_mutexattr_init
pthread_mutexattr_setprioceiling	pthread_mutexattr_setprotocol
pthread_mutexattr_setpshared	pthread_mutexattr_setrobust_np
pthread_mutexattr_settype	pthread_once
pthread_rwlock_destroy	pthread_rwlock_init
pthread_rwlock_rdlock	pthread_rwlock_tryrdlock
pthread_rwlock_trywrlock	pthread_rwlock_unlock
pthread_rwlock_wrlock	pthread_rwlockattr_destroy
pthread_rwlockattr_getpshared	pthread_rwlockattr_init
pthread_rwlockattr_setpshared	pthread_self
pthread_setcancelstate	pthread_setcanceltype
pthread_setconcurrency	pthread_setschedparam
pthread_setspecific	pthread_sigmask
pthread_testcancel	

FILES /usr/lib/libpthread.so.1
a filter on libthread.so.1

/usr/lib/64/libpthread.so.1
a filter on the 64-bit version of libthread.so.1

ATTRIBUTES See attributes(5) for descriptions of the following attributes:

ATTRIBUTE TYPE	ATTRIBUTE VALUE
Availability	SUNWcsl (32-bit) SUNWcslx (64-bit)
MT-Level	Safe

libpthread(3LIB)

SEE ALSO | [pvs\(1\)](#), [intro\(2\)](#), [intro\(3\)](#), [libpthread\(3LIB\)](#), [libthread\(3LIB\)](#),
[libthread_db\(3LIB\)](#), [libthread_db\(3THR\)](#), [threads\(3THR\)](#), [attributes\(5\)](#)

librac(3LIB)

NAME	librac – remote asynchronous calls library							
SYNOPSIS	<pre>cc [flag . . .] file . . . -lrac -lnsl [library . . .] #include <rpc/rpc.h> #include <rpc/rac.h></pre>							
DESCRIPTION	Functions in this library provide a remote asynchronous call interface to the RPC library.							
INTERFACES	The shared object <code>librac.so.1</code> provides the public interfaces defined below. See <code>intro(3)</code> for additional information on shared object interfaces.							
	<code>clnt_create</code>	<code>clnt_create_vers</code>						
	<code>clnt_dg_create</code>	<code>clnt_tli_create</code>						
	<code>clnt_tp_create</code>	<code>clnt_vc_create</code>						
	<code>rac_drop</code>	<code>rac_poll</code>						
	<code>rac_recv</code>	<code>rac_send</code>						
	<code>rac_senderr</code>	<code>rpcb_getaddr</code>						
	<code>rpcb_getmaps</code>	<code>rpcb_gettime</code>						
	<code>rpcb_rmtcall</code>	<code>rpcb_set</code>						
	<code>rpcb_taddr2uaddr</code>	<code>rpcb_uaddr2taddr</code>						
	<code>rpcb_unset</code>	<code>xdrrec_create</code>						
	<code>xdrrec_endofrecord</code>	<code>xdrrec_eof</code>						
	<code>xdrrec_readbytes</code>	<code>xdrrec_skiprecord</code>						
FILES	<code>/usr/lib/librac.a</code>	archive library						
	<code>/usr/lib/librac.so.1</code>	shared object						
	<code>/usr/lib/64/librac.so.1</code>	64-bit shared object file						
ATTRIBUTES	See <code>attributes(5)</code> for descriptions of the following attributes:							
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Availability	SUNWcsl, SUNWarc (32-bit) SUNWcslx (64-bit)							
MT-Level	Unsafe							
SEE ALSO	<code>pvs(1), intro(3), rpc_rac(3RAC), attributes(5)</code>							

NAME	libresolv – resolver library																																		
SYNOPSIS	<pre>cc [flag . . .] file . . . -lresolv -lsocket -lnsl [library . . .] #include <sys/types.h> #include <netinet/in.h> #include <arpa/nameser.h> #include <resolv.h> #include <netdb.h></pre>																																		
DESCRIPTION	Functions in this library provide for creating, sending, and interpreting packets to the Internet domain name servers.																																		
INTERFACES	The shared object <code>libresolv.so.2</code> provides the public interfaces defined below. See <code>intro(3)</code> for additional information on shared object interfaces.																																		
	<table> <tbody> <tr><td><code>__dn_skipname</code></td><td><code>__fp_query</code></td></tr> <tr><td><code>__hostalias</code></td><td><code>__p_cdbname</code></td></tr> <tr><td><code>__p_class</code></td><td><code>__p_query</code></td></tr> <tr><td><code>__p_time</code></td><td><code>__p_type</code></td></tr> <tr><td><code>__putlong</code></td><td><code>_getlong</code></td></tr> <tr><td><code>_getshort</code></td><td><code>_res</code></td></tr> <tr><td><code>dn_comp</code></td><td><code>dn_expand</code></td></tr> <tr><td><code>fp_resstat</code></td><td><code>h_errno</code></td></tr> <tr><td><code>herror</code></td><td><code>hstrerror</code></td></tr> <tr><td><code>res_hostalias</code></td><td><code>res_init</code></td></tr> <tr><td><code>res_mkquery</code></td><td><code>res_nclose</code></td></tr> <tr><td><code>res_ninit</code></td><td><code>res_nmkquery</code></td></tr> <tr><td><code>res_nquery</code></td><td><code>res_nquerydomain</code></td></tr> <tr><td><code>res_nsearch</code></td><td><code>res_nsend</code></td></tr> <tr><td><code>res_nsendsigned</code></td><td><code>res_query</code></td></tr> <tr><td><code>res_querydomain</code></td><td><code>res_search</code></td></tr> <tr><td><code>res_send</code></td><td><code>res_update</code></td></tr> </tbody> </table>	<code>__dn_skipname</code>	<code>__fp_query</code>	<code>__hostalias</code>	<code>__p_cdbname</code>	<code>__p_class</code>	<code>__p_query</code>	<code>__p_time</code>	<code>__p_type</code>	<code>__putlong</code>	<code>_getlong</code>	<code>_getshort</code>	<code>_res</code>	<code>dn_comp</code>	<code>dn_expand</code>	<code>fp_resstat</code>	<code>h_errno</code>	<code>herror</code>	<code>hstrerror</code>	<code>res_hostalias</code>	<code>res_init</code>	<code>res_mkquery</code>	<code>res_nclose</code>	<code>res_ninit</code>	<code>res_nmkquery</code>	<code>res_nquery</code>	<code>res_nquerydomain</code>	<code>res_nsearch</code>	<code>res_nsend</code>	<code>res_nsendsigned</code>	<code>res_query</code>	<code>res_querydomain</code>	<code>res_search</code>	<code>res_send</code>	<code>res_update</code>
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	<p>Programs are expected to use the aliases defined in <code><resolv.h></code> rather than calling the <code>"__"</code> prefixed procedures, as indicated in the following table. Use of the routines in the first column is discouraged.</p>																																		

libresolv(3LIB)

	FUNCTION REFERENCED	ALIAS TO USE								
	<code>__dn_skipname</code>	<code>dn_skipname</code>								
	<code>__fp_query</code>	<code>fp_query</code>								
	<code>__putlong</code>	<code>putlong</code>								
	<code>__p_cdname</code>	<code>p_cdname</code>								
	<code>__p_class</code>	<code>p_class</code>								
	<code>__p_time</code>	<code>p_time</code>								
	<code>__p_type</code>	<code>p_type</code>								
FILES	<code>/usr/lib/libresolv.so.1</code> shared object for backward compatibility only									
	<code>/usr/lib/64/libresolv.so.1</code> 64-bit shared object for backward compatibility only									
	<code>/usr/lib/libresolv.so.2</code> shared object									
	<code>/usr/lib/64/libresolv.so.2</code> 64-bit shared object									
ATTRIBUTES	See attributes(5) for descriptions of the following attributes:									
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Interface Stability	BIND 8.2.4									
SEE ALSO	pvs(1) , intro(3) , resolver(3RESOLV) , attributes(5)									

NAME	librpcsoc – obsolete RPC library												
SYNOPSIS	<pre>cc [<i>flag</i> . . .] -I /usr/ucbinclude <i>file</i> . . . -L /usr/libucb \ -R /usr/libucb -lrpcsoc [<i>library</i> . . .] #include <rpc/rpc.h></pre>												
DESCRIPTION	<p>Functions in this library implement socket based RPC calls (using socket calls, not TLI). Applications that require this library should link it before libnsl, which implements the same calls over TLI.</p> <p>This library is provided for compatibility only; new applications should not link in this library.</p>												
INTERFACES	<p>The shared object librpcsoc.so.1 provides the public interfaces defined below. See intro(3) for additional information on shared object interfaces.</p> <table> <tr><td>clnttcp_create</td><td>clntudp_bufcreate</td></tr> <tr><td>clntudp_create</td><td>get_myaddress</td></tr> <tr><td>getrpcport</td><td>rtime</td></tr> <tr><td>svcfd_create</td><td>svctcp_create</td></tr> <tr><td>svcudp_bufcreate</td><td>svcudp_create</td></tr> <tr><td>svcudp_enablecache</td><td></td></tr> </table>	clnttcp_create	clntudp_bufcreate	clntudp_create	get_myaddress	getrpcport	rtime	svcfd_create	svctcp_create	svcudp_bufcreate	svcudp_create	svcudp_enablecache	
clnttcp_create	clntudp_bufcreate												
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svcudp_bufcreate	svcudp_create												
svcudp_enablecache													
FILES	<p>/usr/ucblib/librpcsoc.so.1 shared object</p> <p>/usr/ucblib/64/librpcsoc.so.1 64-bit shared object</p>												
ATTRIBUTES	See attributes(5) for descriptions of the following attributes:												
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MT-Level	Unsafe												
SEE ALSO	pvs(1), intro(3), rpc_soc(3NSL), libnsl(3LIB), attributes(5)												

librpcsdc(3LIB)

NAME	librpcsdc – RPC services library								
SYNOPSIS	<pre>cc [flag . . .] file . . . -lrcsvc [library . . .] #include <rpc/rpc.h> #include <rpccsvc/rstat.h></pre>								
DESCRIPTION	Functions in this library provide RPC services. See the manual pages in Section 3RPC for the individual functions.								
INTERFACES	The shared object <code>librpcsdc.so.1</code> provides the public interfaces defined below. See <code>intro(3)</code> for additional information on shared object interfaces.								
	<table><tr><td><code>havedisk</code></td><td><code>rnusers</code></td></tr><tr><td><code>rstat</code></td><td><code>rusers</code></td></tr><tr><td><code>rwall</code></td><td><code>xdr_statstime</code></td></tr><tr><td><code>xdr_statsvar</code></td><td><code>xdr_utmpidlearr</code></td></tr></table>	<code>havedisk</code>	<code>rnusers</code>	<code>rstat</code>	<code>rusers</code>	<code>rwall</code>	<code>xdr_statstime</code>	<code>xdr_statsvar</code>	<code>xdr_utmpidlearr</code>
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<code>xdr_statsvar</code>	<code>xdr_utmpidlearr</code>								
FILES	<table><tr><td><code>/usr/lib/librpcsdc.a</code> archive library</td></tr><tr><td><code>/usr/lib/librpcsdc.so.1</code> shared object</td></tr><tr><td><code>/usr/lib/64/librpcsdc.so.1</code> 64-bit shared object</td></tr></table>	<code>/usr/lib/librpcsdc.a</code> archive library	<code>/usr/lib/librpcsdc.so.1</code> shared object	<code>/usr/lib/64/librpcsdc.so.1</code> 64-bit shared object					
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SEE ALSO	<code>pvs(1), intro(3), rstat(3RPC), attributes(5)</code>								

NAME	librsm – remote shared memory interface library																																										
SYNOPSIS	<pre>cc [flag . . .] file . . . -lrsm [library . . .] #include <rsmapi.h></pre>																																										
DESCRIPTION	The functions in this library provide an interface for OS bypass messaging for applications over high-speed interconnects, including facilities to set up low-latency, high-bandwidth interprocess communication mechanisms and to perform I/O.																																										
INTERFACES	The shared object <code>librsm.so.2</code> provides the public interfaces defined below. See <code>intro(3)</code> for additional information on shared object interfaces.																																										
	<table> <tbody> <tr><td><code>rsm_create_localmemory_handle</code></td><td><code>rsm_free_interconnect_topology</code></td></tr> <tr><td><code>rsm_free_localmemory_handle</code></td><td><code>rsm_get_controller</code></td></tr> <tr><td><code>rsm_get_controller_attr</code></td><td><code>rsm_get_interconnect_topology</code></td></tr> <tr><td><code>rsm_get_segmentid_range</code></td><td><code>rsm_intr_signal_post</code></td></tr> <tr><td><code>rsm_intr_signal_wait</code></td><td><code>rsm_memseg_export_create</code></td></tr> <tr><td><code>rsm_memseg_export_destroy</code></td><td><code>rsm_memseg_export_publish</code></td></tr> <tr><td><code>rsm_memseg_export_rebind</code></td><td><code>rsm_memseg_export_republish</code></td></tr> <tr><td><code>rsm_memseg_export_unpublish</code></td><td><code>rsm_memseg_get_pollfd</code></td></tr> <tr><td><code>rsm_memseg_import_close_barrier</code></td><td><code>rsm_memseg_import_connect</code></td></tr> <tr><td><code>rsm_memseg_import_destroy_barrier</code></td><td><code>rsm_memseg_import_disconnect</code></td></tr> <tr><td><code>rsm_memseg_import_get</code></td><td><code>rsm_memseg_import_get16</code></td></tr> <tr><td><code>rsm_memseg_import_get32</code></td><td><code>rsm_memseg_import_get64</code></td></tr> <tr><td><code>rsm_memseg_import_get8</code></td><td><code>rsm_memseg_import_get_mode</code></td></tr> <tr><td><code>rsm_memseg_import_getv</code></td><td><code>rsm_memseg_import_init_barrier</code></td></tr> <tr><td><code>rsm_memseg_import_map</code></td><td><code>rsm_memseg_import_open_barrier</code></td></tr> <tr><td><code>rsm_memseg_import_order_barrier</code></td><td><code>rsm_memseg_import_put</code></td></tr> <tr><td><code>rsm_memseg_import_put16</code></td><td><code>rsm_memseg_import_put32</code></td></tr> <tr><td><code>rsm_memseg_import_put64</code></td><td><code>rsm_memseg_import_put8</code></td></tr> <tr><td><code>rsm_memseg_import_putv</code></td><td><code>rsm_memseg_import_set_mode</code></td></tr> <tr><td><code>rsm_memseg_import_unmap</code></td><td><code>rsm_memseg_release_pollfd</code></td></tr> <tr><td><code>rsm_release_controller</code></td><td></td></tr> </tbody> </table>	<code>rsm_create_localmemory_handle</code>	<code>rsm_free_interconnect_topology</code>	<code>rsm_free_localmemory_handle</code>	<code>rsm_get_controller</code>	<code>rsm_get_controller_attr</code>	<code>rsm_get_interconnect_topology</code>	<code>rsm_get_segmentid_range</code>	<code>rsm_intr_signal_post</code>	<code>rsm_intr_signal_wait</code>	<code>rsm_memseg_export_create</code>	<code>rsm_memseg_export_destroy</code>	<code>rsm_memseg_export_publish</code>	<code>rsm_memseg_export_rebind</code>	<code>rsm_memseg_export_republish</code>	<code>rsm_memseg_export_unpublish</code>	<code>rsm_memseg_get_pollfd</code>	<code>rsm_memseg_import_close_barrier</code>	<code>rsm_memseg_import_connect</code>	<code>rsm_memseg_import_destroy_barrier</code>	<code>rsm_memseg_import_disconnect</code>	<code>rsm_memseg_import_get</code>	<code>rsm_memseg_import_get16</code>	<code>rsm_memseg_import_get32</code>	<code>rsm_memseg_import_get64</code>	<code>rsm_memseg_import_get8</code>	<code>rsm_memseg_import_get_mode</code>	<code>rsm_memseg_import_getv</code>	<code>rsm_memseg_import_init_barrier</code>	<code>rsm_memseg_import_map</code>	<code>rsm_memseg_import_open_barrier</code>	<code>rsm_memseg_import_order_barrier</code>	<code>rsm_memseg_import_put</code>	<code>rsm_memseg_import_put16</code>	<code>rsm_memseg_import_put32</code>	<code>rsm_memseg_import_put64</code>	<code>rsm_memseg_import_put8</code>	<code>rsm_memseg_import_putv</code>	<code>rsm_memseg_import_set_mode</code>	<code>rsm_memseg_import_unmap</code>	<code>rsm_memseg_release_pollfd</code>	<code>rsm_release_controller</code>	
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FILES	/usr/lib/librsm.so.2 shared object																																										

librsm(3LIB)

/usr/lib/64/librsm.so.2
64-bit shared object

ATTRIBUTES See [attributes\(5\)](#) for descriptions of the following attributes:

ATTRIBUTE TYPE	ATTRIBUTE VALUE
Availability	SUNWrsm (32-bit) SUNWrsmx (64-bit)
Interface Stability	Evolving
MT-Level	Safe

SEE ALSO [intro\(2\)](#), [intro\(3\)](#), [attributes\(5\)](#)

NAME	librt, libposix4 – POSIX.1b Realtime Extensions library																																		
SYNOPSIS	<code>cc [flag . . .] file . . . -lrt [library . . .]</code> <code>cc [flag . . .] file . . . -lposix4 [library . . .]</code>																																		
DESCRIPTION	Functions in this library provide most of the interfaces specified by the POSIX.1b Realtime Extension. See standards(5) . Specifically, this includes the interfaces defined under the Asynchronous I/O, Message Passing, Process Scheduling, Realtime Signals Extension, Semaphores, Shared Memory Objects, Synchronized I/O, and Timers options. The interfaces defined under the Memory Mapped Files, Process Memory Locking, and Range Memory Locking options are provided in libc(3LIB) . See the man pages for the individual interfaces in section 3RT for information on required headers. The name <code>libposix4</code> is maintained for backward compatibility and should be avoided. <code>librt</code> is the preferred name for this library.																																		
INTERFACES	The shared objects <code>librt.so.1</code> and <code>libposix4.so.1</code> provide the public interfaces defined below. See intro(3) for additional information on shared object interfaces.																																		
	<table> <tbody> <tr><td><code>aio_cancel</code></td><td><code>aio_error</code></td></tr> <tr><td><code>aio_fsync</code></td><td><code>aio_read</code></td></tr> <tr><td><code>aio_return</code></td><td><code>aio_suspend</code></td></tr> <tr><td><code>aio_waitn</code></td><td><code>aio_write</code></td></tr> <tr><td><code>clock_getres</code></td><td><code>clock_gettime</code></td></tr> <tr><td><code>clock_settime</code></td><td><code>close</code></td></tr> <tr><td><code>fdatasync</code></td><td><code>fork</code></td></tr> <tr><td><code>lio_listio</code></td><td><code>mq_close</code></td></tr> <tr><td><code>mq_getattr</code></td><td><code>mq_notify</code></td></tr> <tr><td><code>mq_open</code></td><td><code>mq_receive</code></td></tr> <tr><td><code>mq_send</code></td><td><code>mq_setattr</code></td></tr> <tr><td><code>mq_unlink</code></td><td><code>nanosleep</code></td></tr> <tr><td><code>sched_get_priority_max</code></td><td><code>sched_get_priority_min</code></td></tr> <tr><td><code>sched_getparam</code></td><td><code>sched_getscheduler</code></td></tr> <tr><td><code>sched_rr_get_interval</code></td><td><code>sched_setparam</code></td></tr> <tr><td><code>sched_setscheduler</code></td><td><code>sched_yield</code></td></tr> <tr><td><code>sem_close</code></td><td><code>sem_destroy</code></td></tr> </tbody> </table>	<code>aio_cancel</code>	<code>aio_error</code>	<code>aio_fsync</code>	<code>aio_read</code>	<code>aio_return</code>	<code>aio_suspend</code>	<code>aio_waitn</code>	<code>aio_write</code>	<code>clock_getres</code>	<code>clock_gettime</code>	<code>clock_settime</code>	<code>close</code>	<code>fdatasync</code>	<code>fork</code>	<code>lio_listio</code>	<code>mq_close</code>	<code>mq_getattr</code>	<code>mq_notify</code>	<code>mq_open</code>	<code>mq_receive</code>	<code>mq_send</code>	<code>mq_setattr</code>	<code>mq_unlink</code>	<code>nanosleep</code>	<code>sched_get_priority_max</code>	<code>sched_get_priority_min</code>	<code>sched_getparam</code>	<code>sched_getscheduler</code>	<code>sched_rr_get_interval</code>	<code>sched_setparam</code>	<code>sched_setscheduler</code>	<code>sched_yield</code>	<code>sem_close</code>	<code>sem_destroy</code>
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librt(3LIB)

sem_getvalue	sem_init
sem_open	sem_post
sem_trywait	sem_unlink
sem_wait	shm_open
shm_unlink	sigqueue
sigtimedwait	sigwaitinfo
timer_create	timer_delete
timer_getoverrun	timer_gettime
timer_settime	

The following interfaces are unique to the 32-bit version of this library:

aio_cancel64	aio_error64
aio_fsync64	aio_read64
aio_return64	aio_suspend64
aio_write64	lio_listio64

FILES /usr/lib/librt.so.1
shared object

/usr/lib/64/librt.so.1
64-bit shared object file

/usr/lib/libposix4.so.1
shared object

/usr/lib/64/libposix4.so.1
64-bit shared object file

ATTRIBUTES See attributes(5) for descriptions of the following attributes:

ATTRIBUTE TYPE	ATTRIBUTE VALUE
Availability	SUNWcsl (32-bit) SUNWcslx (64-bit)
MT-Level	Safe

SEE ALSO pvs(1), intro(3), libc(3LIB), attributes(5), standards(5)

NAME	librtld_db – runtime linker debugging library												
SYNOPSIS	<pre>cc [flag ...] file ... -lrltld_db [library ...] #include <proc_service.h> #include <rtld_db.h></pre>												
DESCRIPTION	Functions in this library are useful for building debuggers for dynamically linked programs. For a full description of these interfaces refer to the <i>Linker and Libraries Guide</i> .												
INTERFACES	The shared object librtld_db.so.1 provides the public interfaces defined below. See intro(3) for additional information on shared object interfaces.												
	<table> <tbody> <tr><td>rd_delete</td><td>rd_errstr</td></tr> <tr><td>rd_event_addr</td><td>rd_event_enable</td></tr> <tr><td>rd_event_getmsg</td><td>rd_init</td></tr> <tr><td>rd_loadobj_iter</td><td>rd_log</td></tr> <tr><td>rd_new</td><td>rd_objpad_enable</td></tr> <tr><td>rd_plt_resolution</td><td>rd_reset</td></tr> </tbody> </table>	rd_delete	rd_errstr	rd_event_addr	rd_event_enable	rd_event_getmsg	rd_init	rd_loadobj_iter	rd_log	rd_new	rd_objpad_enable	rd_plt_resolution	rd_reset
rd_delete	rd_errstr												
rd_event_addr	rd_event_enable												
rd_event_getmsg	rd_init												
rd_loadobj_iter	rd_log												
rd_new	rd_objpad_enable												
rd_plt_resolution	rd_reset												
FILES	<p>/usr/lib/librtld_db.so.1 shared object</p> <p>/usr/lib/64/librtld_db.so.1 64-bit shared object</p>												
ATTRIBUTES	See attributes(5) for description of the following attributes:												
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ATTRIBUTE TYPE	ATTRIBUTE VALUE												
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MT-Level	Safe												
SEE ALSO	<p>ld.so.1(1), pvs(1), intro(3), rtld_db(3EXT), attributes(5)</p> <p><i>Linker and Libraries Guide</i></p>												

libsec(3LIB)

NAME	libsec – File Access Control List library										
SYNOPSIS	<pre>cc [flag . . .] file . . . -lsec [library . . .] #include <sys/acl.h></pre>										
DESCRIPTION	Functions in this library provide comparison and manipulation of File Access Control Lists.										
INTERFACES	The shared object <code>libsec.so.1</code> provides the public interfaces defined below. See <code>intro(3)</code> for additional information on shared object interfaces.										
	<code>aclcheck</code>	<code>aclfrommode</code>	<code>aclfromtext</code>								
	<code>aclsort</code>	<code>acltomode</code>	<code>acltotext</code>								
FILES	<code>/usr/lib/libsec.a</code>	archive library									
	<code>/usr/lib/libsec.so.1</code>	shared object									
	<code>/usr/lib/64/libsec.so.1</code>	64-bit shared object									
ATTRIBUTES	See <code>attributes(5)</code> for descriptions of the following attributes:										
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Interface Stability	Evolving										
MT-Level	Unsafe										
SEE ALSO	<code>pvs(1), intro(3), attributes(5)</code>										

NAME	libsecdb – security attributes database library																													
SYNOPSIS	<pre>cc [<i>flag</i> . . .] <i>file</i> . . . -lsecdb [<i>library</i> . . .] #include <secdb.h> #include <user_attr.h> #include <prof_attr.h> #include <exec_attr.h> #include <auth_attr.h></pre>																													
DESCRIPTION	Functions in this library provide routines for manipulation of security attribute databases.																													
INTERFACES	The shared object libsecdb.so.1 provides the public interfaces defined below. See intro(3) for additional information on shared object interfaces.																													
	<table> <tbody> <tr><td>chkauthattr</td><td>endauthattr</td></tr> <tr><td>endexecattr</td><td>endprofattr</td></tr> <tr><td>enduserattr</td><td>fgetuserattr</td></tr> <tr><td>free_authattr</td><td>free_execattr</td></tr> <tr><td>free_profattr</td><td>free_proflist</td></tr> <tr><td>free_userattr</td><td>getauthattr</td></tr> <tr><td>getauthnam</td><td>getexecattr</td></tr> <tr><td>getexecprof</td><td>getexecuser</td></tr> <tr><td>getprofattr</td><td>getproflist</td></tr> <tr><td>getprofnam</td><td>getuserattr</td></tr> <tr><td>getusernam</td><td>getuseruid</td></tr> <tr><td>kva_match</td><td>match_execattr</td></tr> <tr><td>setauthattr</td><td>setexecattr</td></tr> <tr><td>setprofattr</td><td>setuserattr</td></tr> </tbody> </table>		chkauthattr	endauthattr	endexecattr	endprofattr	enduserattr	fgetuserattr	free_authattr	free_execattr	free_profattr	free_proflist	free_userattr	getauthattr	getauthnam	getexecattr	getexecprof	getexecuser	getprofattr	getproflist	getprofnam	getuserattr	getusernam	getuseruid	kva_match	match_execattr	setauthattr	setexecattr	setprofattr	setuserattr
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kva_match	match_execattr																													
setauthattr	setexecattr																													
setprofattr	setuserattr																													
FILES	/usr/lib/libsecdb.so.1	shared object																												
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ATTRIBUTE TYPE	ATTRIBUTE VALUE																													
Availability	SUNWcsl (32-bit)																													

libsecdb(3LIB)

ATTRIBUTE TYPE	ATTRIBUTE VALUE
	SUNWcslx (64-bit)
MT Level	MT-Safe

SEE ALSO [intro\(3\)](#), [attributes\(5\)](#)

NAME	libsendfile – sendfile library									
SYNOPSIS	<pre>cc [<i>flag...</i>] <i>file...</i> -lsendfile [<i>library...</i>] #include <sys/sendfile.h></pre>									
DESCRIPTION	<p>The functions in this library provide routines that enable files to be sent over sockets, buffers to be sent over sockets, files to be copied to files, and buffers to be copied to files.</p>									
INTERFACES	<p>The shared object <code>libsendfile.so.1</code> provides the public interfaces defined below. See <code>intro(3)</code> for additional information on shared object interfaces.</p> <table style="width: 100%; text-align: center;"> <tr> <td style="width: 50%;">sendfile</td> <td style="width: 50%;">sendfilev</td> </tr> </table> <p>The following interfaces are unique to the 32-bit version of this library:</p> <table style="width: 100%; text-align: center;"> <tr> <td style="width: 50%;">sendfile64</td> <td style="width: 50%;">sendfilev64</td> </tr> </table>		sendfile	sendfilev	sendfile64	sendfilev64				
sendfile	sendfilev									
sendfile64	sendfilev64									
FILES	/usr/lib/libsendfile.so.1	shared object								
	/usr/lib/64/libsendfile.so.1	64-bit shared object								
ATTRIBUTES	See <code>attributes(5)</code> for descriptions of the following attributes:									
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MT-Level	MT-Safe									
SEE ALSO	<code>pvs(1), intro(3), sendfile(3EXT), sendfilev(3EXT), attributes(5)</code>									

libslp(3LIB)

NAME	libslp – service location protocol library																		
SYNOPSIS	<code>cc [flag . . .] file . . . -lslp [library . . .]</code>																		
DESCRIPTION	Functions in this library provide routines that provide the Service Location Protocol C library.																		
INTERFACES	The shared object <code>libslp.so.1</code> provides the public interfaces defined below. See <code>intro(3)</code> for additional information on shared object interfaces.																		
	<table><tbody><tr><td><code>SLPClose</code></td><td><code>SLPDelAttrs</code></td></tr><tr><td><code>SLPDereg</code></td><td><code>SLPEscape</code></td></tr><tr><td><code>SLPFindAttrs</code></td><td><code>SLPFindScopes</code></td></tr><tr><td><code>SLPFindSrvTypes</code></td><td><code>SLPFindSrvs</code></td></tr><tr><td><code>SLPFree</code></td><td><code>SLPGetProperty</code></td></tr><tr><td><code>SLPGetRefreshInterval</code></td><td><code>SLPOpen</code></td></tr><tr><td><code>SLPParseSrvURL</code></td><td><code>SLPReg</code></td></tr><tr><td><code>SLPSetProperty</code></td><td><code>SLPUnescape</code></td></tr><tr><td><code>slp_strerror</code></td><td></td></tr></tbody></table>	<code>SLPClose</code>	<code>SLPDelAttrs</code>	<code>SLPDereg</code>	<code>SLPEscape</code>	<code>SLPFindAttrs</code>	<code>SLPFindScopes</code>	<code>SLPFindSrvTypes</code>	<code>SLPFindSrvs</code>	<code>SLPFree</code>	<code>SLPGetProperty</code>	<code>SLPGetRefreshInterval</code>	<code>SLPOpen</code>	<code>SLPParseSrvURL</code>	<code>SLPReg</code>	<code>SLPSetProperty</code>	<code>SLPUnescape</code>	<code>slp_strerror</code>	
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<code>slp_strerror</code>																			
FILES	<code>/usr/lib/libslp.so.1</code> shared object <code>/usr/lib/64/libslp.so.1</code> 64-bit shared object file																		
ATTRIBUTES	See <code>attributes(5)</code> for descriptions of the following attributes:																		
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SEE ALSO	<code>pvs(1)</code> , <code>intro(2)</code> , <code>intro(3)</code> , <code>attributes(5)</code>																		

libsmartcard(3LIB)

NAME	libsmartcard – smartcard library																								
SYNOPSIS	<pre>cc [flag...] file... -lsmartcard [library...] #include <smartcard/scf.h></pre>																								
DESCRIPTION	Functions in this library allow an application to select a smartcard terminal, determine when cards are inserted or removed, and exchange data with the card.																								
INTERFACES	The shared object libsmartcard.so.1 provides the public interfaces defined below. See intro(3) for additional information on shared object interfaces.																								
	<table> <tbody> <tr><td>SCF_Card_close</td><td>SCF_Card_exchangeAPDU</td></tr> <tr><td>SCF_Card_freeInfo</td><td>SCF_Card_getInfo</td></tr> <tr><td>SCF_Card_lock</td><td>SCF_Card_reset</td></tr> <tr><td>SCF_Card_unlock</td><td>SCF_Card_waitForCardRemoved</td></tr> <tr><td>SCF_Session_close</td><td>SCF_Session_freeInfo</td></tr> <tr><td>SCF_Session_getInfo</td><td>SCF_Session_getSession</td></tr> <tr><td>SCF_Session_getTerminal</td><td>SCF_Terminal_addEventListener</td></tr> <tr><td>SCF_Terminal_close</td><td>SCF_Terminal_freeInfo</td></tr> <tr><td>SCF_Terminal_getCard</td><td>SCF_Terminal_getInfo</td></tr> <tr><td>SCF_Terminal_removeEventListener</td><td>SCF_Terminal_updateEventListener</td></tr> <tr><td>SCF_Terminal_waitForCardAbsent</td><td>SCF_Terminal_waitForCardPresent</td></tr> <tr><td>SCF_strerror</td><td></td></tr> </tbody> </table>	SCF_Card_close	SCF_Card_exchangeAPDU	SCF_Card_freeInfo	SCF_Card_getInfo	SCF_Card_lock	SCF_Card_reset	SCF_Card_unlock	SCF_Card_waitForCardRemoved	SCF_Session_close	SCF_Session_freeInfo	SCF_Session_getInfo	SCF_Session_getSession	SCF_Session_getTerminal	SCF_Terminal_addEventListener	SCF_Terminal_close	SCF_Terminal_freeInfo	SCF_Terminal_getCard	SCF_Terminal_getInfo	SCF_Terminal_removeEventListener	SCF_Terminal_updateEventListener	SCF_Terminal_waitForCardAbsent	SCF_Terminal_waitForCardPresent	SCF_strerror	
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SCF_Terminal_waitForCardAbsent	SCF_Terminal_waitForCardPresent																								
SCF_strerror																									
FILES	<p>/usr/lib/libsmartcard.so.1 shared object</p> <p>/usr/lib/64/libsmartcard.so.1 64-bit shared object</p>																								
ATTRIBUTES	See attributes(5) for descriptions of the following attributes:																								
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libsmartcard(3LIB)

SEE ALSO | `smartcard(1M)`, `intro(3)`, `attributes(5)`, `smartcard(5)`

NAME	libsocket – sockets library																																														
SYNOPSIS	<code>cc [flag . . .] file . . . -lsocket [library . . .]</code>																																														
DESCRIPTION	Functions in this library provide routines that provide the socket internetworking interface, primarily used with the TCP/IP protocol suite.																																														
INTERFACES	The shared object <code>libsocket.so.1</code> provides the public interfaces defined below. See <code>intro(3)</code> for additional information on shared object interfaces.																																														
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libsocket(3LIB)

	if_freenameindex	if_indextoname						
	if_nameindex	if_nametoindex						
	in6addr_any	in6addr_loopback						
	inet_lnaof	inet_makeaddr						
	inet_network	listen						
	ntohl	ntohs						
	rcmd	rcmd_af						
	recv	recvfrom						
	recvmsg	rexec						
	rexec_af	rresvport						
	rresvport_af	ruserok						
	send	sendmsg						
	sendto	setnetent						
	setprotoent	setservent						
	setsockopt	shutdown						
	socket	socketpair						
FILES	/usr/lib/libsocket.a archive library							
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ATTRIBUTES	See attributes(5) for descriptions of the following attributes:							
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SEE ALSO	pvs(1), intro(2), intro(3), attributes(5)							

NAME	libssagent – Sun Solstice Enterprise Agent library																	
SYNOPSIS	<code>cc [flag . . .] file . . . -lssagent [library . . .]</code>																	
DESCRIPTION	<p>The libssagent library is a high level API library that is dependent on libssasnm. This library contains the starting point of the request-driven engine that always runs in the background within the subagent. It receives SNMP requests, evaluates variables, calls the appropriate functions, and sends the correct responses.</p>																	
INTERFACES	<p>The shared object <code>libssagent.so.1</code> provides the public interfaces defined below. See <code>intro(3)</code> for additional information on shared object interfaces.</p> <table> <tbody> <tr><td><code>SSAAgentIsAlive</code></td><td><code>SSAGetTrapPort</code></td></tr> <tr><td><code>SSAMain</code></td><td><code>SSARegSubagent</code></td></tr> <tr><td><code>SSARegSubtree</code></td><td><code>SSASubagentOpen</code></td></tr> <tr><td><code>_SSASendTrap</code></td><td><code>_SSASendTrap2</code></td></tr> <tr><td><code>_SSASendTrap3</code></td><td><code>callItem</code></td></tr> <tr><td><code>numCallItem</code></td><td><code>numTrapElem</code></td></tr> <tr><td><code>trapAnyEnterpriseInfo</code></td><td><code>trapBucket</code></td></tr> <tr><td><code>trapEnterpriseInfo</code></td><td><code>trapTableMap</code></td></tr> </tbody> </table>		<code>SSAAgentIsAlive</code>	<code>SSAGetTrapPort</code>	<code>SSAMain</code>	<code>SSARegSubagent</code>	<code>SSARegSubtree</code>	<code>SSASubagentOpen</code>	<code>_SSASendTrap</code>	<code>_SSASendTrap2</code>	<code>_SSASendTrap3</code>	<code>callItem</code>	<code>numCallItem</code>	<code>numTrapElem</code>	<code>trapAnyEnterpriseInfo</code>	<code>trapBucket</code>	<code>trapEnterpriseInfo</code>	<code>trapTableMap</code>
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FILES	<code>/usr/lib/libssagent.so.1</code>	shared object																
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ATTRIBUTES	See <code>attributes(5)</code> for descriptions of the following attributes:																	
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SEE ALSO	<code>intro(3), libssasnm(3LIB), attributes(5)</code>																	

libssasnmp(3LIB)

NAME	libssasnmp – Sun Solstice Enterprise SNMP library															
SYNOPSIS	<code>cc [flag . . .] file . . . -lssasnmp [library . . .]</code>															
DESCRIPTION	<p>The libssasnmp library provides low-level SNMP API functions.</p> <ul style="list-style-type: none">■ ASN.1 serialization (encoding/decoding) module■ SNMP PDU development routines■ SNMP session module■ Low level SNMP based API functions■ Error-handling module■ Trace (debugging) module															
INTERFACES	<p>The shared object <code>libssasnmp.so.1</code> provides the public interfaces defined below. See <code>intro(3)</code> for additional information on shared object interfaces.</p> <table><tbody><tr><td><code>SSAOidCmp</code></td><td><code>SSAOidCpy</code></td></tr><tr><td><code>SSAOidDup</code></td><td><code>SSAOidFree</code></td></tr><tr><td><code>SSAOidInit</code></td><td><code>SSAOidNew</code></td></tr><tr><td><code>SSAOidStrToOid</code></td><td><code>SSAOidString</code></td></tr><tr><td><code>SSAOidZero</code></td><td><code>SSAStringCpy</code></td></tr><tr><td><code>SSAStringInit</code></td><td><code>SSAStringToChar</code></td></tr><tr><td><code>SSAStringZero</code></td><td></td></tr></tbody></table>		<code>SSAOidCmp</code>	<code>SSAOidCpy</code>	<code>SSAOidDup</code>	<code>SSAOidFree</code>	<code>SSAOidInit</code>	<code>SSAOidNew</code>	<code>SSAOidStrToOid</code>	<code>SSAOidString</code>	<code>SSAOidZero</code>	<code>SSAStringCpy</code>	<code>SSAStringInit</code>	<code>SSAStringToChar</code>	<code>SSAStringZero</code>	
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<code>SSAStringZero</code>																
FILES	<code>/usr/lib/libssasnmp.so.1</code>	shared object														
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Availability	SUNWsasnm															
MT-Level	Unsafe															
SEE ALSO	<code>intro(3), libssagent(3LIB), attributes(5)</code>															

NAME	libsys – system library		
SYNOPSIS	<code>cc [flag . . .] file . . . -lsys [library . . .]</code>		
DESCRIPTION	Functions in this library provide basic system services. This library is implemented as a filter on the C library (see <code>libc(3LIB)</code>).		
INTERFACES	The shared object <code>libsys.so.1</code> provides the public interfaces defined below. See <code>intro(3)</code> for additional information on shared object interfaces.		
	<code>_ctype</code>	<code>_huge_val</code>	<code>_access</code>
	<code>_acct</code>	<code>_alarm</code>	<code>_altzone</code>
	<code>_catclose</code>	<code>_catgets</code>	<code>_catopen</code>
	<code>_chdir</code>	<code>_chmod</code>	<code>_chown</code>
	<code>_chroot</code>	<code>_close</code>	<code>_closedir</code>
	<code>_creat</code>	<code>_daylight</code>	<code>_dup</code>
	<code>_environ</code>	<code>_execl</code>	<code>_execle</code>
	<code>_execlp</code>	<code>_execv</code>	<code>_execve</code>
	<code>_execvp</code>	<code>_exit</code>	<code>_fattach</code>
	<code>_fchdir</code>	<code>_fchmod</code>	<code>_fchown</code>
	<code>_fcntl</code>	<code>_fdetach</code>	<code>_fork</code>
	<code>_fpathconf</code>	<code>_fstat</code>	<code>_fstatvfs</code>
	<code>_fsync</code>	<code>_ftok</code>	<code>_getcontext</code>
	<code>_getcwd</code>	<code>_getegid</code>	<code>_geteuid</code>
	<code>_getgid</code>	<code>_getgrgid</code>	<code>_getgrnam</code>
	<code>_getgroups</code>	<code>_getlogin</code>	<code>_getmsg</code>
	<code>_getpgid</code>	<code>_getpgrp</code>	<code>_getpid</code>
	<code>_getpmsg</code>	<code>_getppid</code>	<code>_getpwnam</code>
	<code>_getpwuid</code>	<code>_getrlimit</code>	<code>_getsid</code>
	<code>_gettvt</code>	<code>_getuid</code>	<code>_grantpt</code>
	<code>_initgroups</code>	<code>_ioctl</code>	<code>_isastream</code>
	<code>_kill</code>	<code>_lchown</code>	<code>_link</code>
	<code>_lseek</code>	<code>_lstat</code>	<code>_makecontext</code>
	<code>_memcntl</code>	<code>_mkdir</code>	<code>_mknod</code>

libsys(3LIB)

_mlock	_mmap	_mount
_mprotect	_msgctl	_msgget
_msgrcv	_msgsnd	_msync
_munlock	_munmap	_nice
_numeric	_open	_opendir
_pathconf	_pause	_pipe
_poll	_profil	_ptrace
_ptsname	_putmsg	_putpmsg
_read	_readdir	_readlink
_readv	_rename	_rewinddir
_rmdir	_seekdir	_semctl
_semget	_semop	_setcontext
_setgid	_setgroups	_setpgid
_setpgrp	_setrlimit	_setsid
_setuid	_shmat	_shmctl
_shmdt	_shmget	_sigaction
_sigaddset	_sigaltstack	_sigdelset
_sigemptyset	_sigfillset	_sighold
_sigignore	_sigismember	_siglongjmp
_sigpause	_sigpending	_sigprocmask
_sigrelse	_sigsend	_sigsendset
_sigset	_sigsetjmp	_sigsuspend
_stat	_statvfs	_stime
_swapcontext	_symlink	_sync
_sysconf	_telldir	_time
_times	_timezone	_ttynname
_tzname	_ulimit	_umask
_umount	_uname	_unlink
_unlockpt	_utime	_wait
_waitid	_waitpid	_write

libsys(3LIB)

_writev	access	acct
alarm	atexit	calloc
catclose	catgets	catopen
chdir	chmod	chown
chroot	close	closedir
creat	daylight	dup
environ	execl	execle
execlp	execv	execve
execvp	exit	fattach
fchdir	fchmod	fchown
fcntl	fdetach	fork
fpathconf	free	fstat
fstatvfs	fsync	ftok
getcontext	getcwd	getegid
geteuid	getgid	getgrgid
getgrnam	getgroups	getlogin
getmsg	getpgid	getpgrp
getpid	getpmsg	getppid
getpwnam	getpwuid	getrlimit
getsid	gettext	getuid
grantpt	initgroups	ioctl
isastream	kill	lchown
link	localeconv	lseek
lstat	makecontext	malloc
memcntl	mkdir	mknod
mlock	mmap	mount
mprotect	msgctl	msgget
msgrcv	msgsnd	msync
munlock	munmap	nice
open	opendir	pathconf

libsys(3LIB)

pause	pipe	poll
profil	ptrace	ptsname
putmsg	putpmsg	read
readdir	readlink	readv
realloc	remove	rename
rewinddir	rmdir	seekdir
semctl	semget	semop
setcontext	setgid	setgroups
setlocale	setpgid	setpgrp
setrlimit	setsid	setuid
shmat	shmctl	shmctl
shmget	sigaction	sigaddset
sigaltstack	sigdelset	sigemptyset
sigfillset	sighold	sigignore
sigismember	siglongjmp	signal
sigpause	sigpending	sigprocmask
sigrelse	sigsend	sigsendset
sigset	sigsetjmp	sigsuspend
stat	statvfs	stime
strcoll	strerror	strftime
strxfrm	swapcontext	symlink
sync	sysconf	system
telldir	time	times
timezone	ttyname	tzname
ulimit	umask	umount
uname	unlink	unlockpt
utime	wait	waitid
waitpid	write	writev

The following interfaces are unique to the SPARC version of this library:

.div	.mul	.rem
.stret1	.stret2	.stret4
.stret8	.udiv	.umul
.urem	_Q_add	_Q_cmp
_Q_cmpe	_Q_div	_Q_dtoq
_Q_feq	_Q_fge	_Q_fgt
_Q_fle	_Q_flt	_Q_fne
_Q_itog	_Q_mul	_Q_neg
_Q_qtod	_Q_qtoi	_Q_qtos
_Q_qtou	_Q_sqrt	_Q_stoq
_Q_sub	_Q_utoq	_dtou
 __ftou		

The following interfaces are unique to the x86 version of this library:

__flt_rounds	_fp_hw	_fpstart
_fxstat	_lxstat	_nuname
_sbrk	_xmknod	_xstat
nuname	sbrk	

FILES /usr/lib/libsys.so.1 shared object

ATTRIBUTES See attributes(5) for descriptions of the following attributes:

ATTRIBUTE TYPE	ATTRIBUTE VALUE
Availability	SUNWcs1
MT-Level	Safe

SEE ALSO pvs(1), intro(2), intro(3), libc(3LIB), attributes(5)

libsysevent(3LIB)

NAME	libsysevent – system event interface library																
SYNOPSIS	<pre>cc [flag . . .] file . . . -lsysevent [library . . .] #include <sysevent.h></pre>																
DESCRIPTION	Functions in this library extract specific identifier, publisher, and attribute information from a system event (sysevent) handle, defined as <code>sysevent_t</code> , and allow privileged user-level applications to queue system events for delivery to the system event daemon, <code>syseventd(1M)</code> .																
INTERFACES	The shared object <code>libsysevent.so.1</code> provides the public interfaces defined below. See <code>intro(3)</code> for additional information on shared object interfaces.																
	<table><tbody><tr><td><code>sysevent_bind_handle</code></td><td><code>sysevent_free</code></td></tr><tr><td><code>sysevent_get_attr_list</code></td><td><code>sysevent_get_class_name</code></td></tr><tr><td><code>sysevent_get_pid</code></td><td><code>sysevent_get_pub_name</code></td></tr><tr><td><code>sysevent_get_seq</code></td><td><code>sysevent_get_size</code></td></tr><tr><td><code>sysevent_get_subclass_name</code></td><td><code>sysevent_get_time</code></td></tr><tr><td><code>sysevent_get_vendor_name</code></td><td><code>sysevent_post_event</code></td></tr><tr><td><code>sysevent_subscribe_event</code></td><td><code>sysevent_unbind_handle</code></td></tr><tr><td><code>sysevent_unsubscribe_event</code></td><td></td></tr></tbody></table>	<code>sysevent_bind_handle</code>	<code>sysevent_free</code>	<code>sysevent_get_attr_list</code>	<code>sysevent_get_class_name</code>	<code>sysevent_get_pid</code>	<code>sysevent_get_pub_name</code>	<code>sysevent_get_seq</code>	<code>sysevent_get_size</code>	<code>sysevent_get_subclass_name</code>	<code>sysevent_get_time</code>	<code>sysevent_get_vendor_name</code>	<code>sysevent_post_event</code>	<code>sysevent_subscribe_event</code>	<code>sysevent_unbind_handle</code>	<code>sysevent_unsubscribe_event</code>	
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SEE ALSO	<code>syseventd(1M)</code> , <code>intro(3)</code> , <code>attributes(5)</code>																

NAME	libtermcap – terminal independent operation library										
SYNOPSIS	<code>cc [flag . . .] -I /usr/ucbinclude file . . . -L /usr/libucb \ -R /usr/libucb -ltermcap [library . . .]</code>										
DESCRIPTION	Functions in this library extract and use capabilities from the terminal capability database <code>terminfo(4)</code> .										
INTERFACES	The shared object <code>libtermcap.so.1</code> provides the public interfaces defined below. See <code>intro(3)</code> for additional information on shared object interfaces.										
	<table> <tr> <td>BC</td> <td>PC</td> <td>UP</td> <td>ospeed</td> <td>tgetent</td> </tr> <tr> <td>tgetflag</td> <td>tgetnum</td> <td>tgetstr</td> <td>tgoto</td> <td>tputs</td> </tr> </table>	BC	PC	UP	ospeed	tgetent	tgetflag	tgetnum	tgetstr	tgoto	tputs
BC	PC	UP	ospeed	tgetent							
tgetflag	tgetnum	tgetstr	tgoto	tputs							
FILES	<p>/usr/ucblib/libtermcap.a archive library</p> <p>/usr/ucblib/libtermcap.so.1 shared object</p> <p>/usr/ucblib/64/libtermcap.so.1 64-bit shared object</p>										
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SEE ALSO	<code>intro(3), curs_termcap(3CURSES), terminfo(4), attributes(5)</code>										

libthread(3LIB)

NAME	libthread – threads library																																																
SYNOPSIS	<code>cc -mt [flag . . .] file . . . [library . . .]</code>																																																
DESCRIPTION	Functions in libthread provide routines that provide threading support.																																																
INTERFACES	The shared object <code>libthread.so.1</code> provides the public interfaces defined below. See <code>intro(3)</code> for additional information on shared object interfaces.																																																
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libthread(3LIB)

pthread_attr_getstacksize	pthread_attr_init
pthread_attr_setdetachstate	pthread_attr_setguardsize
pthread_attr_setinheritsched	pthread_attr_setschedparam
pthread_attr_setschedpolicy	pthread_attr_setscope
pthread_attr_setstackaddr	pthread_attr_setstacksize
pthread_cancel	pthread_cond_broadcast
pthread_cond_destroy	pthread_cond_init
pthread_cond_reltimedwait_np	pthread_cond_signal
pthread_cond_timedwait	pthread_cond_wait
pthread_condattr_destroy	pthread_condattr_getpshared
pthread_condattr_init	pthread_condattr_setpshared
pthread_create	pthread_detach
pthread_equal	pthread_exit
pthread_getconcurrency	pthread_getschedparam
pthread_getspecific	pthread_join
pthread_key_create	pthread_key_delete
pthread_kill	pthread_mutex_consistent_np
pthread_mutex_destroy	pthread_mutex_getprioceiling
pthread_mutex_init	pthread_mutex_lock
pthread_mutex_setprioceiling	pthread_mutex_trylock
pthread_mutex_unlock	pthread_mutexattr_destroy
pthread_mutexattr_getprioceiling	pthread_mutexattr_getprotocol
pthread_mutexattr_getpshared	pthread_mutexattr_getrobust_np
pthread_mutexattr_gettype	pthread_mutexattr_init
pthread_mutexattr_setprioceiling	pthread_mutexattr_setprotocol
pthread_mutexattr_setpshared	pthread_mutexattr_setrobust_np
pthread_mutexattr_settype	pthread_once
pthread_rwlock_destroy	pthread_rwlock_init
pthread_rwlock_rdlock	pthread_rwlock_tryrdlock
pthread_rwlock_trywrlock	pthread_rwlock_unlock

libthread(3LIB)

pthread_rwlock_wrlock	pthread_rwlockattr_destroy
pthread_rwlockattr_getpshared	pthread_rwlockattr_init
pthread_rwlockattr_setpshared	pthread_self
pthread_setcancelstate	pthread_setcanceltype
pthread_setconcurrency	pthread_setschedparam
pthread_setspecific	pthread_sigmask
pthread_testcancel	putmsg
putpmsg	pwrite
read	readv
rw_rdlock	rw_tryrdlock
rw_trywrlock	rw_unlock
rw_wrlock	rwlock_destroy
rwlock_init	select
sema_destroy	sema_init
sema_post	sema_trywait
sema_wait	setcontext
setitimer	sigaction
siglongjmp	sigpause
sigpending	sigprocmask
sigsetjmp	sigsuspend
sigwait	sleep
tcdrain	thr_continue
thr_create	thr_exit
thr_getconcurrency	thr_getprio
thr_getspecific	thr_join
thr_keycreate	thr_kill
thr_main	thr_min_stack
thr_self	thr_setconcurrency
thr_setprio	thr_setspecific
thr_sigsetmask	thr_stksegment

thr_suspend	thr_yield
usleep	wait
wait3	waitid
waitpid	write
writev	

The following interfaces are unique to the 32-bit version of this library:

creat64	lockf64
open64	pread64
pwrite64	

FILES

/usr/lib/libthread.so.1
shared object

/usr/lib/64/libthread.so.1
64-bit shared object

ATTRIBUTES

See attributes(5) for descriptions of the following attributes:

ATTRIBUTE TYPE	ATTRIBUTE VALUE
Availability	SUNWcsl (32-bit) SUNWcslx (64-bit)
MT-Level	Safe

SEE ALSO

pvs(1), intro(2), intro(3), libpthread(3LIB), libthread_db(3LIB), libthread_db(3THR), threads(3THR), attributes(5)

libthread_db(3LIB)

NAME	libthread_db – threads debugging library
SYNOPSIS	<pre>cc [flag . . .] file . . . -lthread_db [library . . .] #include <proc_service.h> #include <thread_db.h></pre>
DESCRIPTION	Functions in this library are used to build debuggers for multithreaded programs.
INTERFACES	The shared object libthread_db.so.1 provides the public interfaces defined below. See intro(3) for additional information on shared object interfaces.

td_init	td_log
td_sync_get_info	td_sync_get_stats
td_sync_setstate	td_sync_waiters
td_ta_clear_event	td_ta_delete
td_ta_enable_stats	td_ta_event_addr
td_ta_event_getmsg	td_ta_get_nthreads
td_ta_get_ph	td_ta_get_stats
td_ta_map_addr2sync	td_ta_map_id2thr
td_ta_map_lwp2thr	td_ta_new
td_ta_reset_stats	td_ta_set_event
td_ta_setconcurrency	td_ta_sync_iter
td_ta_sync_tracking_enable	td_ta_thr_iter
td_ta_tsd_iter	td_thr_clear_event
td_thr_dbresume	td_thr_dbsuspend
td_thr_event_enable	td_thr_event_getmsg
td_thr_get_info	td_thr_getfpregs
td_thr_getgregs	td_thr_getxregs
td_thr_getxregsize	td_thr_lockowner
td_thr_set_event	td_thr_setfpregs
td_thr_setgregs	td_thr_setprio
td_thr_setsigpending	td_thr_setxregs
td_thr_sigsetmask	td_thr_sleepinfo
td_thr_tsd	td_thr_validate

libthread_db(3LIB)

FILES | /usr/lib/libthread_db.so.1
shared object

/usr/lib/64/libthread_db.so.1
64-bit shared object

ATTRIBUTES See attributes(5) for description of the following attributes:

ATTRIBUTE TYPE	ATTRIBUTE VALUE
Availability	SUNWcsl (32-bit) SUNWcslx (64-bit)
MT Level	Safe

SEE ALSO pvs(1), intro(3), libpthread(3LIB), libthread(3LIB), libthread_db(3THR), threads(3THR), attributes(5)

libtnfctl(3LIB)

NAME	libtnfctl – TNF probe control library																												
SYNOPSIS	<pre>cc [flag . . .] file . . . -ltnfctl [library . . .] #include <tnf/tnfctl.h></pre>																												
DESCRIPTION	Functions in this library provide TNF probe control routines for use by processes and the kernel.																												
INTERFACES	The shared object libtnfctl.so.1 provides the public interfaces defined below. See intro(3) for additional information on shared object interfaces.																												
	<table><tbody><tr><td>tnfctl_buffer_alloc</td><td>tnfctl_buffer_dealloc</td></tr><tr><td>tnfctl_check_libs</td><td>tnfctl_close</td></tr><tr><td>tnfctl_continue</td><td>tnfctl_exec_open</td></tr><tr><td>tnfctl_filter_list_add</td><td>tnfctl_filter_list_delete</td></tr><tr><td>tnfctl_filter_list_get</td><td>tnfctl_filter_state_set</td></tr><tr><td>tnfctl_indirect_open</td><td>tnfctl_internal_open</td></tr><tr><td>tnfctl_kernel_open</td><td>tnfctl_pid_open</td></tr><tr><td>tnfctl_probe_apply</td><td>tnfctl_probe_apply_ids</td></tr><tr><td>tnfctl_probe_connect</td><td>tnfctl_probe_disable</td></tr><tr><td>tnfctl_probe_disconnect_all</td><td>tnfctl_probe_enable</td></tr><tr><td>tnfctl_probe_state_get</td><td>tnfctl_probe_trace</td></tr><tr><td>tnfctl_probe_untrace</td><td>tnfctl_register_funcs</td></tr><tr><td>tnfctl_strerror</td><td>tnfctl_trace_attrs_get</td></tr><tr><td>tnfctl_trace_state_set</td><td></td></tr></tbody></table>	tnfctl_buffer_alloc	tnfctl_buffer_dealloc	tnfctl_check_libs	tnfctl_close	tnfctl_continue	tnfctl_exec_open	tnfctl_filter_list_add	tnfctl_filter_list_delete	tnfctl_filter_list_get	tnfctl_filter_state_set	tnfctl_indirect_open	tnfctl_internal_open	tnfctl_kernel_open	tnfctl_pid_open	tnfctl_probe_apply	tnfctl_probe_apply_ids	tnfctl_probe_connect	tnfctl_probe_disable	tnfctl_probe_disconnect_all	tnfctl_probe_enable	tnfctl_probe_state_get	tnfctl_probe_trace	tnfctl_probe_untrace	tnfctl_register_funcs	tnfctl_strerror	tnfctl_trace_attrs_get	tnfctl_trace_state_set	
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tnfctl_probe_connect	tnfctl_probe_disable																												
tnfctl_probe_disconnect_all	tnfctl_probe_enable																												
tnfctl_probe_state_get	tnfctl_probe_trace																												
tnfctl_probe_untrace	tnfctl_register_funcs																												
tnfctl_strerror	tnfctl_trace_attrs_get																												
tnfctl_trace_state_set																													
FILES	<p>/usr/lib/libtnfctl.so.1 shared object</p> <p>/usr/lib/64/libtnfctl.so.1 64-bit shared object</p>																												
ATTRIBUTES	See attributes(5) for descriptions of the following attributes:																												
	<table border="1"><thead><tr><th>ATTRIBUTE TYPE</th><th>ATTRIBUTE VALUE</th></tr></thead><tbody><tr><td>Availability</td><td>SUNWtnfc (32-bit) SUNWtnfcx (64-bit)</td></tr></tbody></table>	ATTRIBUTE TYPE	ATTRIBUTE VALUE	Availability	SUNWtnfc (32-bit) SUNWtnfcx (64-bit)																								
ATTRIBUTE TYPE	ATTRIBUTE VALUE																												
Availability	SUNWtnfc (32-bit) SUNWtnfcx (64-bit)																												

ATTRIBUTE TYPE	ATTRIBUTE VALUE
MT Level	MT-Safe with exceptions

SEE ALSO pvs(1), intro(3), libtnfctl(3TNF), tracing(3TNF), attributes(5)

NOTES This API is MT-Safe. Multiple threads can concurrently operate on independent tnfctl handles, which is the typical behavior expected. libtnfctl does not support multiple threads operating on the same tnfctl handle. If this is desired, it is the client's responsibility to implement locking to ensure that two threads that use the same tnfctl handle are not simultaneously present in a libtnfctl interface.

libucb(3LIBUCB)

NAME	libucb – UCB source compatibility library		
SYNOPSIS	<pre>cc [flag . . .] -I /usr/ucbinclude file . . . -L /usr/libucb \ -R /usr/libucb -lucb [library . . .]</pre>		
DESCRIPTION	Functions in this library provide UCB source compatibility.		
INTERFACES	The shared object libucb.so.1 provides the public interfaces defined below. See intro(3) for additional information on shared object interfaces.		
	alphasort	bcmp	bcopy
	bzero	flock	fopen
	fprintf	freopen	fstatfs
	ftime	getdtablesize	gethostid
	gethostname	getpagesize	getrusage
	gettimeofday	getwd	index
	killpg	longjmp	mctl
	nice	nlist	printf
	psignal	rand	re_comp
	re_exec	readdir	reboot
	rindex	scandir	setbuffer
	sethostname	setjmp	setlinebuf
	setpgrp	settimeofday	sigblock
	siginterrupt	signal	sigpause
	sigsetmask	sigstack	sigvec
	sigvechandler	sleep	sprintf
	srand	statfs	sys_siglist
	times	ualarm	usignal
	usigpause	usleep	vfprintf
	vprintf	vsprintf	wait3
	wait4		

The following interfaces are unique to the 32-bit version of this library:

libucb(3LIBUCB)

alphasort64	fopen64	freopen64
readdir64	scandir64	

FILES /usr/ucb/lib/libucb.a
archive library

/usr/ucb/lib/libucb.so.1
shared object

/usr/ucb/lib/64/libucb.so.1
64-bit shared object

ATTRIBUTES See attributes(5) for descriptions of the following attributes:

ATTRIBUTE TYPE	ATTRIBUTE VALUE
Availability	SUNWscpu, SUNWsra (32-bit) SUNWscpux (64-bit)
MT-Level	Safe with exceptions

SEE ALSO pvs(1), intro(3), attributes(5)

libumem(3LIB)

NAME	libumem – object-caching memory allocation library														
SYNOPSIS	<pre>cc [flag...] file... -lumem [library...] #include <umem.h></pre>														
DESCRIPTION	<p>Functions in this library provide fast, scalable object-caching memory allocation with multithreaded application support. In addition to the standard <code>malloc(3C)</code> family of functions and the more flexible <code>umem_alloc(3MALLOC)</code> family, <code>libumem</code> provides powerful object-caching services as described in <code>umem_cache_create(3MALLOC)</code>.</p> <p>The <code>libumem</code> library also provides extensive debugging support, including detection of memory leaks, buffer overruns, multiple frees, use of uninitialized data, use of freed data, and many other common programming errors. See <code>umem_debug(3MALLOC)</code>.</p>														
INTERFACES	<p>The shared object <code>libumem.so.1</code> provides the public interfaces defined below. See <code>intro(3)</code> for additional information on shared object interfaces.</p> <table><tr><td><code>calloc</code></td><td><code>free</code></td></tr><tr><td><code>malloc</code></td><td><code>memalign</code></td></tr><tr><td><code>realloc</code></td><td><code>umem_alloc</code></td></tr><tr><td><code>umem_cache_alloc</code></td><td><code>umem_cache_create</code></td></tr><tr><td><code>umem_cache_destroy</code></td><td><code>umem_cache_free</code></td></tr><tr><td><code>umem_free</code></td><td><code>umem_nofail_callback</code></td></tr><tr><td><code>umem_zalloc</code></td><td><code>valloc</code></td></tr></table>	<code>calloc</code>	<code>free</code>	<code>malloc</code>	<code>memalign</code>	<code>realloc</code>	<code>umem_alloc</code>	<code>umem_cache_alloc</code>	<code>umem_cache_create</code>	<code>umem_cache_destroy</code>	<code>umem_cache_free</code>	<code>umem_free</code>	<code>umem_nofail_callback</code>	<code>umem_zalloc</code>	<code>valloc</code>
<code>calloc</code>	<code>free</code>														
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<code>umem_cache_alloc</code>	<code>umem_cache_create</code>														
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<code>umem_free</code>	<code>umem_nofail_callback</code>														
<code>umem_zalloc</code>	<code>valloc</code>														
FILES	<table><tr><td><code>/usr/lib/libumem.so.1</code></td><td>shared object</td></tr><tr><td><code>/usr/lib/64/libumem.so.1</code></td><td>64-bit shared object</td></tr></table>	<code>/usr/lib/libumem.so.1</code>	shared object	<code>/usr/lib/64/libumem.so.1</code>	64-bit shared object										
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Availability	SUNWcsl (32-bit) SUNWcslx (64-bit)														
Interface Stability	Evolving														
MT-Level	MT-Safe														
SEE ALSO	<code>intro(3), malloc(3C), umem_alloc(3MALLOC),</code> <code>umem_cache_create(3MALLOC), umem_debug(3MALLOC), attributes(5)</code>														

NAME	libvolmgt – volume management library														
SYNOPSIS	<pre>cc [<i>flag</i> . . .] <i>file</i> . . . -lvolmgt [<i>library</i> . . .] #include <volmgt.h></pre>														
DESCRIPTION	Functions in this library provide access to the volume management services.														
INTERFACES	The shared object libvolmgt.so.1 provides the public interfaces defined below. See intro(3) for additional information on shared object interfaces.														
	<table> <tbody> <tr><td>media_findname</td><td>media_getattr</td></tr> <tr><td>media_getid</td><td>media_setattr</td></tr> <tr><td>volmgt_acquire</td><td>volmgt_check</td></tr> <tr><td>volmgt_feature_enabled</td><td>volmgt_inuse</td></tr> <tr><td>volmgt_ownspath</td><td>volmgt_release</td></tr> <tr><td>volmgt_root</td><td>volmgt_running</td></tr> <tr><td>volmgt_symdev</td><td>volmgt_symname</td></tr> </tbody> </table>	media_findname	media_getattr	media_getid	media_setattr	volmgt_acquire	volmgt_check	volmgt_feature_enabled	volmgt_inuse	volmgt_ownspath	volmgt_release	volmgt_root	volmgt_running	volmgt_symdev	volmgt_symname
media_findname	media_getattr														
media_getid	media_setattr														
volmgt_acquire	volmgt_check														
volmgt_feature_enabled	volmgt_inuse														
volmgt_ownspath	volmgt_release														
volmgt_root	volmgt_running														
volmgt_symdev	volmgt_symname														
FILES	<p>/usr/lib/libvolmgt.a archive library</p> <p>/usr/lib/libvolmgt.so.1 shared object</p> <p>/usr/lib/64/libvolmgt.so.1 64-bit shared object</p>														
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ATTRIBUTE TYPE	ATTRIBUTE VALUE														
Availability	SUNWcsl, SUNWarc (32-bit) SUNWcslx (64-bit)														
MT-Level	Safe with exceptions														
SEE ALSO	pvs(1), intro(3), media_findname(3VOLMGT), attributes(5)														
NOTES	The MT-Level for this library of interfaces is Safe, except for media_findname(3VOLMGT), which is Unsafe.														

libw(3LIB)

NAME	libw – wide character library																																																														
SYNOPSIS	<pre>cc [flag . . .] file . . . [library . . .] #include <wchar.h></pre>																																																														
DESCRIPTION	<p>Historically, functions in this library provided wide character translations. This functionality now resides in <code>libc(3LIB)</code>.</p> <p>This library is maintained to provide backward compatibility for both runtime and compilation environments. The shared object version is implemented as a filter on <code>libw.so.1</code>, and the archive version is implemented as a null archive. New application development need not reference either version of <code>libw</code>.</p>																																																														
INTERFACES	<p>The shared object <code>libw.so.1</code> provides the public interfaces defined below. See <code>intro(3)</code> for additional information on shared object interfaces.</p> <table><tbody><tr><td>fgetwc</td><td>fgetws</td><td>fputwc</td></tr><tr><td>fputws</td><td>getwc</td><td>getwchar</td></tr><tr><td>getws</td><td>isenglish</td><td>isideogram</td></tr><tr><td>isnumber</td><td>isphonogram</td><td>isspecial</td></tr><tr><td>iswalnum</td><td>iswalpha</td><td>iswcntrl</td></tr><tr><td>iswctype</td><td>iswdigit</td><td>iswgraph</td></tr><tr><td>iswlower</td><td>iswprint</td><td>iswpunct</td></tr><tr><td>iswspace</td><td>iswupper</td><td>iswxdigit</td></tr><tr><td>putwc</td><td>putwchar</td><td>putws</td></tr><tr><td>strtows</td><td>towlower</td><td>towupper</td></tr><tr><td>ungetwc</td><td>watoll</td><td>wcscat</td></tr><tr><td>wcschr</td><td>wcscmp</td><td>wcscoll</td></tr><tr><td>wcscpy</td><td>wcscspn</td><td>wcsftime</td></tr><tr><td>wcslen</td><td>wcsncat</td><td>wcsncmp</td></tr><tr><td>wcsncpy</td><td>wcspbrk</td><td>wcsrchr</td></tr><tr><td>wcsspn</td><td>wcstod</td><td>wcstok</td></tr><tr><td>wcstol</td><td>wcstoul</td><td>wcswcs</td></tr><tr><td>wcswidth</td><td>wcsxfrm</td><td>wctype</td></tr><tr><td>wcwidth</td><td>wscasecmp</td><td>wscat</td></tr><tr><td>wschr</td><td>wscmp</td><td>wscol</td></tr></tbody></table>			fgetwc	fgetws	fputwc	fputws	getwc	getwchar	getws	isenglish	isideogram	isnumber	isphonogram	isspecial	iswalnum	iswalpha	iswcntrl	iswctype	iswdigit	iswgraph	iswlower	iswprint	iswpunct	iswspace	iswupper	iswxdigit	putwc	putwchar	putws	strtows	towlower	towupper	ungetwc	watoll	wcscat	wcschr	wcscmp	wcscoll	wcscpy	wcscspn	wcsftime	wcslen	wcsncat	wcsncmp	wcsncpy	wcspbrk	wcsrchr	wcsspn	wcstod	wcstok	wcstol	wcstoul	wcswcs	wcswidth	wcsxfrm	wctype	wcwidth	wscasecmp	wscat	wschr	wscmp	wscol
fgetwc	fgetws	fputwc																																																													
fputws	getwc	getwchar																																																													
getws	isenglish	isideogram																																																													
isnumber	isphonogram	isspecial																																																													
iswalnum	iswalpha	iswcntrl																																																													
iswctype	iswdigit	iswgraph																																																													
iswlower	iswprint	iswpunct																																																													
iswspace	iswupper	iswxdigit																																																													
putwc	putwchar	putws																																																													
strtows	towlower	towupper																																																													
ungetwc	watoll	wcscat																																																													
wcschr	wcscmp	wcscoll																																																													
wcscpy	wcscspn	wcsftime																																																													
wcslen	wcsncat	wcsncmp																																																													
wcsncpy	wcspbrk	wcsrchr																																																													
wcsspn	wcstod	wcstok																																																													
wcstol	wcstoul	wcswcs																																																													
wcswidth	wcsxfrm	wctype																																																													
wcwidth	wscasecmp	wscat																																																													
wschr	wscmp	wscol																																																													

libw(3LIB)

wscoll	wscopy	wscspn
wsdup	wslen	wsncasecmp
wsncat	wsncmp	wsncpy
wspbrk	wsprintf	wsrchr
wsscanf	wsspn	wstod
wstok	wstol	wstoll
wstosetr	wsxfrm	

FILES /usr/lib/libw.a a link to /usr/lib/null.a
 /usr/lib/libw.so.1 a filter on libc.so.1
 /usr/lib/64/libw.so.1 a filter on 64/libc.so.1

ATTRIBUTES See attributes(5) for descriptions of the following attributes:

ATTRIBUTE TYPE	ATTRIBUTE VALUE
Availability	SUNWcsl, SUNWarc (32-bit) SUNWcslx (64-bit)
MT-Level	Safe

SEE ALSO pvs(1), intro(3), libc(3LIB), attributes(5)

libwsreg(3LIB)

NAME	libwsreg – product install registry library																																																
SYNOPSIS	<pre>cc [flag . . .] file . . . -lwsreg [library . . .] #include <wsreg.h></pre>																																																
DESCRIPTION	Functions in this library provide access to the product install registry.																																																
INTERFACES	The shared object libwsreg.so.1 provides the public interfaces defined below. See intro(3) for additional information on shared object interfaces.																																																
	<table><tbody><tr><td>wsreg_add_child_component</td><td>wsreg_add_compatible_version</td></tr><tr><td>wsreg_add_dependent_component</td><td>wsreg_add_display_name</td></tr><tr><td>wsreg_add_required_component</td><td>wsreg_can_access_registry</td></tr><tr><td>wsreg_clone_component</td><td>wsreg_components_equal</td></tr><tr><td>wsreg_create_component</td><td>wsreg_free_component</td></tr><tr><td>wsreg_free_component_array</td><td>wsreg_get</td></tr><tr><td>wsreg_get_all</td><td>wsreg_get_child_components</td></tr><tr><td>wsreg_get_compatible_versions</td><td>wsreg_get_data</td></tr><tr><td>wsreg_get_data_pairs</td><td>wsreg_get_dependent_components</td></tr><tr><td>wsreg_get_display_languages</td><td>wsreg_get_display_name</td></tr><tr><td>wsreg_get_id</td><td>wsreg_get_instance</td></tr><tr><td>wsreg_get_location</td><td>wsreg_get_parent</td></tr><tr><td>wsreg_get_required_components</td><td>wsreg_get_type</td></tr><tr><td>wsreg_get_uninstaller</td><td>wsreg_get_unique_name</td></tr><tr><td>wsreg_get_vendor</td><td>wsreg_get_version</td></tr><tr><td>wsreg_initialize</td><td>wsreg_query_create</td></tr><tr><td>wsreg_query_free</td><td>wsreg_query_get_id</td></tr><tr><td>wsreg_query_get_instance</td><td>wsreg_query_get_location</td></tr><tr><td>wsreg_query_get_unique_name</td><td>wsreg_query_get_version</td></tr><tr><td>wsreg_query_set_id</td><td>wsreg_query_set_instance</td></tr><tr><td>wsreg_query_set_location</td><td>wsreg_query_set_unique_name</td></tr><tr><td>wsreg_query_set_version</td><td>wsreg_register</td></tr><tr><td>wsreg_remove_child_component</td><td>wsreg_remove_compatible_version</td></tr><tr><td>wsreg_remove_dependent_component</td><td>wsreg_remove_display_name</td></tr></tbody></table>	wsreg_add_child_component	wsreg_add_compatible_version	wsreg_add_dependent_component	wsreg_add_display_name	wsreg_add_required_component	wsreg_can_access_registry	wsreg_clone_component	wsreg_components_equal	wsreg_create_component	wsreg_free_component	wsreg_free_component_array	wsreg_get	wsreg_get_all	wsreg_get_child_components	wsreg_get_compatible_versions	wsreg_get_data	wsreg_get_data_pairs	wsreg_get_dependent_components	wsreg_get_display_languages	wsreg_get_display_name	wsreg_get_id	wsreg_get_instance	wsreg_get_location	wsreg_get_parent	wsreg_get_required_components	wsreg_get_type	wsreg_get_uninstaller	wsreg_get_unique_name	wsreg_get_vendor	wsreg_get_version	wsreg_initialize	wsreg_query_create	wsreg_query_free	wsreg_query_get_id	wsreg_query_get_instance	wsreg_query_get_location	wsreg_query_get_unique_name	wsreg_query_get_version	wsreg_query_set_id	wsreg_query_set_instance	wsreg_query_set_location	wsreg_query_set_unique_name	wsreg_query_set_version	wsreg_register	wsreg_remove_child_component	wsreg_remove_compatible_version	wsreg_remove_dependent_component	wsreg_remove_display_name
wsreg_add_child_component	wsreg_add_compatible_version																																																
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libwsreg(3LIB)

wsreg_remove_required_component	wsreg_set_data
wsreg_set_id	wsreg_set_instance
wsreg_set_location	wsreg_set_parent
wsreg_set_type	wsreg_set_uninstaller
wsreg_set_unique_name	wsreg_set_vendor
wsreg_set_version	wsreg_unregister

FILES /usr/lib/libwsreg.so.1
shared object

ATTRIBUTES See attributes(5) for descriptions of the following attributes:

ATTRIBUTE TYPE	ATTRIBUTE VALUE
Availability	SUNWwsr2
MT-Level	Unsafe

SEE ALSO prodreg(1M), intro(3), attributes(5)

libxfn(3LIB)

NAME	libxfn – X/Open Federated Naming (XFN) library																																														
SYNOPSIS	<pre>cc [flag . . .] file . . . -lxfn [library . . .] #include <xfn/xfn.h></pre>																																														
DESCRIPTION	Functions in this library provide the implementation of XFN, the X/Open Federated Naming specification (see <i>xfn(3XFN)</i> and <i>fns(5)</i>).																																														
INTERFACES	The shared object <i>libxfn.so.2</i> provides the public interfaces defined below. See <i>intro(3)</i> for additional information on shared object interfaces.																																														
	<table><tbody><tr><td>_pure_error_</td><td>fn_attr_bind</td></tr><tr><td>fn_attr_create_subcontext</td><td>fn_attr_get</td></tr><tr><td>fn_attr_get_ids</td><td>fn_attr_get_values</td></tr><tr><td>fn_attr_modify</td><td>fn_attr_multi_get</td></tr><tr><td>fn_attr_multi_modify</td><td>fn_attribute_add</td></tr><tr><td>fn_attribute_assign</td><td>fn_attribute_copy</td></tr><tr><td>fn_attribute_create</td><td>fn_attribute_destroy</td></tr><tr><td>fn_attribute_first</td><td>fn_attribute_identifier</td></tr><tr><td>fn_attribute_next</td><td>fn_attribute_remove</td></tr><tr><td>fn_attribute_syntax</td><td>fn_attribute_valuecount</td></tr><tr><td>fn_attrmodlist_add</td><td>fn_attrmodlist_assign</td></tr><tr><td>fn_attrmodlist_copy</td><td>fn_attrmodlist_count</td></tr><tr><td>fn_attrmodlist_create</td><td>fn_attrmodlist_destroy</td></tr><tr><td>fn_attrmodlist_first</td><td>fn_attrmodlist_next</td></tr><tr><td>fn_attrset_add</td><td>fn_attrset_assign</td></tr><tr><td>fn_attrset_copy</td><td>fn_attrset_count</td></tr><tr><td>fn_attrset_create</td><td>fn_attrset_destroy</td></tr><tr><td>fn_attrset_first</td><td>fn_attrset_get</td></tr><tr><td>fn_attrset_next</td><td>fn_attrset_remove</td></tr><tr><td>fn_bindinglist_destroy</td><td>fn_bindinglist_next</td></tr><tr><td>fn_composite_name_append_comp</td><td>fn_composite_name_append_name</td></tr><tr><td>fn_composite_name_assign</td><td>fn_composite_name_copy</td></tr><tr><td>fn_composite_name_count</td><td>fn_composite_name_create</td></tr></tbody></table>	_pure_error_	fn_attr_bind	fn_attr_create_subcontext	fn_attr_get	fn_attr_get_ids	fn_attr_get_values	fn_attr_modify	fn_attr_multi_get	fn_attr_multi_modify	fn_attribute_add	fn_attribute_assign	fn_attribute_copy	fn_attribute_create	fn_attribute_destroy	fn_attribute_first	fn_attribute_identifier	fn_attribute_next	fn_attribute_remove	fn_attribute_syntax	fn_attribute_valuecount	fn_attrmodlist_add	fn_attrmodlist_assign	fn_attrmodlist_copy	fn_attrmodlist_count	fn_attrmodlist_create	fn_attrmodlist_destroy	fn_attrmodlist_first	fn_attrmodlist_next	fn_attrset_add	fn_attrset_assign	fn_attrset_copy	fn_attrset_count	fn_attrset_create	fn_attrset_destroy	fn_attrset_first	fn_attrset_get	fn_attrset_next	fn_attrset_remove	fn_bindinglist_destroy	fn_bindinglist_next	fn_composite_name_append_comp	fn_composite_name_append_name	fn_composite_name_assign	fn_composite_name_copy	fn_composite_name_count	fn_composite_name_create
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libxfn(3LIB)

fn_composite_name_delete_comp	fn_composite_name_destroy
fn_composite_name_first	fn_composite_name_from_str
fn_composite_name_from_string	fn_composite_name_insert_comp
fn_composite_name_insert_name	fn_composite_name_is_empty
fn_composite_name_is_equal	fn_composite_name_is_prefix
fn_composite_name_is_suffix	fn_composite_name_last
fn_composite_name_next	fn_composite_name_prefix
fn_composite_name_prepend_comp	fn_composite_name-prepend_name
fn_composite_name_prev	fn_composite_name_suffix
fn_compound_name_append_comp	fn_compound_name_assign
fn_compound_name_copy	fn_compound_name_count
fn_compound_name_delete_all	fn_compound_name_delete_comp
fn_compound_name_destroy	fn_compound_name_first
fn_compound_name_from_syntax_attrs	fn_compound_name_get_syntaxAttrs
fn_compound_name_insert_comp	fn_compound_name_is_empty
fn_compound_name_is_equal	fn_compound_name_is_prefix
fn_compound_name_is_suffix	fn_compound_name_last
fn_compound_name_next	fn_compound_name_prefix
fn_compound_name_prepend_comp	fn_compound_name_prev
fn_compound_name_suffix	fn_ctx_bind
fn_ctx_create_subcontext	fn_ctx_destroy_subcontext
fn_ctx_get_ref	fn_ctx_get_syntaxAttrs
fn_ctx_handle_destroy	fn_ctx_handle_from_initial
fn_ctx_handle_from_ref	fn_ctx_list_bindings
fn_ctx_list_names	fn_ctx_lookup
fn_ctx_lookup_link	fn_ctx_rename
fn_ctx_unbind	fn_multigetlist_destroy
fn_multigetlist_next	fn_namelist_destroy
fn_namelist_next	fn_ref_addr_assign
fn_ref_addr_copy	fn_ref_addr_create

libxfn(3LIB)

fn_ref_addr_data	fn_ref_addr_description
fn_ref_addr_destroy	fn_ref_addr_length
fn_ref_addr_type	fn_ref_addrcount
fn_ref_append_addr	fn_ref_assign
fn_ref_copy	fn_ref_create
fn_ref_create_link	fn_ref_delete_addr
fn_ref_delete_all	fn_ref_description
fn_ref_destroy	fn_ref_first
fn_ref_insert_addr	fn_ref_is_link
fn_ref_link_name	fn_ref_next
fn_ref_prepend_addr	fn_ref_type
fn_status_advance_by_name	fn_status_append_remaining_name
fn_status_append_resolved_name	fn_status_assign
fn_status_code	fn_status_copy
fn_status_create	fn_status_description
fn_status_destroy	fn_status_diagnostic_message
fn_status_is_success	fn_status_link_code
fn_status_link_diagnostic_message	fn_status_link_remaining_name
fn_status_link_resolved_name	fn_status_link_resolved_ref
fn_status_remaining_name	fn_status_resolved_name
fn_status_resolved_ref	fn_status_set
fn_status_set_code	fn_status_set_diagnostic_message
fn_status_set_link_code	fn_status_set_link_diagnostic_message
fn_status_set_link_remaining_name	fn_status_set_link_resolved_name
fn_status_set_link_resolved_ref	fn_status_set_remaining_name
fn_status_set_resolved_name	fn_status_set_resolved_ref
fn_status_set_success	fn_string_assign
fn_string_bytecount	fn_string_charcount
fn_string_code_set	fn_string_compare
fn_string_compare_substring	fn_string_contents

libxfn(3LIB)

fn_string_copy	fn_string_create
fn_string_destroy	fn_string_from_composite_name
fn_string_from_compound_name	fn_string_from_contents
fn_string_from_str	fn_string_from_str_n
fn_string_from_strings	fn_string_from_substring
fn_string_is_empty	fn_string_lang_terr
fn_string_next_substring	fn_string_prev_substring
fn_string_str	fn_valuelist_destroy
fn_valuelist_next	prelim_fn_attr_ext_search
prelim_fn_attr_search	prelim_fn_ctx_equivalent_name
prelim_fn_ext_searchlist_destroy	prelim_fn_ext_searchlist_next
prelim_fn_search_control_assign	prelim_fn_search_control_copy
prelim_fn_search_control_create	prelim_fn_search_control_destroy
prelim_fn_search_control_follow_links	prelim_fn_search_control_max_names
prelim_fn_search_control_return_attr_ids	prelim_fn_search_control_return_ref
prelim_fn_search_control_scope	prelim_fn_search_filter_arguments
prelim_fn_search_filter_assign	prelim_fn_search_filter_copy
prelim_fn_search_filter_create	prelim_fn_search_filter_destroy
prelim_fn_search_filter_expression	prelim_fn_searchlist_destroy
prelim_fn_searchlist_next	
FILES	
/usr/lib/libxfn.so.2	shared object
/usr/lib/64/libxfn.so.2	64-bit shared object
/usr/lib/libxfn.so.1	shared object for backward compatibility only
/usr/lib/64/libxfn.so.1	64-bit shared object for backward compatibility only

libxfn(3LIB)

ATTRIBUTES See [attributes\(5\)](#) for descriptions of the following attributes:

ATTRIBUTE TYPE	ATTRIBUTE VALUE
Availability	SUNWfn (32-bit) SUNWfnx (64-bit)
MT-Level	Safe

SEE ALSO [pvs\(1\)](#), [intro\(3\)](#), [xfn\(3XFN\)](#), [attributes\(5\)](#), [fn\(5\)](#)

NAME	libxnet – X/Open Networking library																																																
SYNOPSIS	<code>cc [flag . . .] file . . . -lxnet [library . . .]</code>																																																
DESCRIPTION	Functions in this library provide networking interfaces which comply with the X/Open CAE Specification, Networking Services, Issue 4.																																																
INTERFACES	The shared object <code>libxnet.so.1</code> provides the public interfaces defined below. See <code>intro(3)</code> for additional information on shared object interfaces.																																																
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libxnet(3LIB)

	connect	endhostent
	endnetent	endprotoent
	endservent	gethostbyaddr
	gethostbyname	gethostent
	gethostname	getnetbyaddr
	getnetbyname	getnetent
	getpeername	getprotobynumber
	getprotobynumber	getprotoent
	getservbyname	getservbyport
	getservent	getsockname
	getsockopt	h_errno
	htonl	htons
	inet_addr	inet_lnaof
	inet_makeaddr	inet_netof
	inet_network	inet_ntoa
	listen	ntohl
	ntohs	recv
	recvfrom	recvmsg
	send	sendmsg
	sendto	sethostent
	setnetent	setprotoent
	setservent	setsockopt
	shutdown	socket
	socketpair	t_errno
FILES	/usr/lib/libxnet.so.1	shared object
	/usr/lib/64/libxnet.so.1	64-bit shared object
ATTRIBUTES	See attributes(5) for descriptions of the following attributes:	

ATTRIBUTE TYPE	ATTRIBUTE VALUE
Availability	SUNWcsl (32-bit) SUNWcslx (64-bit)
MT-Level	Safe

SEE ALSO intro(3), attributes(5), standards(5)

liby(3LIB)

NAME	liby – yacc library						
SYNOPSIS	<code>cc [flag . . .] file . . . -ly [library . . .]</code>						
DESCRIPTION	The function in this library provides a user interface to the yacc(1) library.						
INTERFACES	The shared object <code>liby.so.1</code> provides the public interface defined below. See <code>intro(3)</code> for additional information on shared object interfaces.						
	<code>yyerror</code>						
FILES	<code>/usr/lib/liby.a</code> archive library <code>/usr/lib/liby.so.1</code> shared object <code>/usr/lib/sparcv9/liby.so.1</code> 64-bit shared object						
ATTRIBUTES	See <code>attributes(5)</code> for descriptions of the following attributes:						
	<table border="1"><thead><tr><th>ATTRIBUTE TYPE</th><th>ATTRIBUTE VALUE</th></tr></thead><tbody><tr><td>Availability</td><td>SUNWcsl, SUNWbtool (32-bit) SUNWcslx (64-bit)</td></tr><tr><td>MT-Level</td><td>Unsafe</td></tr></tbody></table>	ATTRIBUTE TYPE	ATTRIBUTE VALUE	Availability	SUNWcsl, SUNWbtool (32-bit) SUNWcslx (64-bit)	MT-Level	Unsafe
ATTRIBUTE TYPE	ATTRIBUTE VALUE						
Availability	SUNWcsl, SUNWbtool (32-bit) SUNWcslx (64-bit)						
MT-Level	Unsafe						
SEE ALSO	<code>yacc(1), intro(3), attributes(5)</code>						

math(3HEAD)

NAME	math – math functions and constants
SYNOPSIS	<pre>#include <math.h></pre>
DESCRIPTION	This file contains declarations of all the functions in the Math Library (described in Section 3M), as well as various functions in the C Library (Section 3C) that return floating-point values. It defines the structure and constants used by the <code>matherr(3M)</code> error-handling mechanisms, including the following constant used as a error-return value:
	HUGE The maximum value of a single-precision floating-point number.
	The following mathematical constants are defined for user convenience:
	M_E The base of natural logarithms (e). M_LOG2E The base-2 logarithm of e . M_LOG10E The base-10 logarithm of e . M_LN2 The natural logarithm of 2. M_LN10 The natural logarithm of 10. M_PI π , the ratio of the circumference of a circle to its diameter. M_PI_2 $\pi/2$. M_PI_4 $\pi/4$. M_1_PI $1/\pi$. M_2_PI $2/\pi$. M_2_SQRTPI 2 over the square root of π . M_SQRT2 The positive square root of 2. M_SQRT1_2 The positive square root of $1/2$.
	The following mathematical constants are also defined in this header file:
	MAXFLOAT The maximum value of a non-infinite single-precision floating point number. HUGE_VAL positive infinity. For the definitions of various machine-dependent constants see <code>values(3HEAD)</code> .
SEE ALSO	<code>intro(3)</code> , <code>matherr(3M)</code> , <code>values(3HEAD)</code>

mqueue(3HEAD)

NAME	mqueue – message queues												
SYNOPSIS	#include <mqueue.h>												
DESCRIPTION	<p>The <code><mqueue.h></code> header defines the <code>mqd_t</code> type, which is used for message queue descriptors. This will not be an array type. A message queue descriptor may be implemented using a file descriptor, in which case applications can open up to at least <code>OPEN_MAX</code> file and message queues.</p> <p>The <code><mqueue.h></code> header defines the <code>sigevent</code> structure (as described in <code><signal.h></code>, see <code>signal(3HEAD)</code>) and the <code>mq_attr</code> structure, which is used in getting and setting the attributes of a message queue. Attributes are initially set when the message queue is created. A <code>mq_attr</code> structure has the following members:</p> <table><tr><td>long</td><td><code>mq_flags</code></td><td>message queue flags</td></tr><tr><td>long</td><td><code>mq_maxmsg</code></td><td>maximum number of messages</td></tr><tr><td>long</td><td><code>mq_msgsize</code></td><td>maximum message size</td></tr><tr><td>long</td><td><code>mq_curmsgs</code></td><td>number of messages currently queued</td></tr></table> <p>Inclusion of the <code><mqueue.h></code> header may make visible symbols defined in the headers <code><fcntl.h></code>, <code><signal.h></code>, <code><sys/types.h></code>, and <code><time.h></code>.</p>	long	<code>mq_flags</code>	message queue flags	long	<code>mq_maxmsg</code>	maximum number of messages	long	<code>mq_msgsize</code>	maximum message size	long	<code>mq_curmsgs</code>	number of messages currently queued
long	<code>mq_flags</code>	message queue flags											
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SEE ALSO	<code>fcntl(3HEAD)</code> , <code>signal(3HEAD)</code> , <code>time(3HEAD)</code> , <code>types(3HEAD)</code>												

NAME	ndbm – definitions for ndbm database operations				
SYNOPSIS	#include <ndbm.h>				
DESCRIPTION	<p>The <code><ndbm.h></code> header defines the <code>datum</code> type as a structure that includes at least the following members:</p> <pre>void *dptr /* pointer to the application's data */ size_t dsize /* size of the object pointed to by dptr */</pre> <p>The <code>size_t</code> type is defined through <code>typedef</code> as described in <code><stddef.h></code>.</p> <p>The <code><ndbm.h></code> header defines the <code>DBM</code> type through <code>typedef</code>.</p> <p>The following constants are defined as possible values for the <code>store_mode</code> argument to <code>dbm_store()</code>:</p> <table><tr><td><code>DBM_INSERT</code></td><td>Insertion of new entries only.</td></tr><tr><td><code>DBM_REPLACE</code></td><td>Allow replacing existing entries.</td></tr></table>	<code>DBM_INSERT</code>	Insertion of new entries only.	<code>DBM_REPLACE</code>	Allow replacing existing entries.
<code>DBM_INSERT</code>	Insertion of new entries only.				
<code>DBM_REPLACE</code>	Allow replacing existing entries.				
SEE ALSO	<code>ndbm(3C)</code> , <code>standards(5)</code>				

netdb(3HEAD)

NAME	netdb – definitions for network database operations																
SYNOPSIS	#include <netdb.h>																
DESCRIPTION	<p>The <code><netdb.h></code> header defines the type <code>in_port_t</code> and the type <code>in_addr_t</code> as described in <code>in(3HEAD)</code>.</p> <p>The <code><netdb.h></code> header defines the <code>hostent</code> structure that includes the following members:</p>																
<table><tr><td>char</td><td><code>*h_name</code></td><td>Official name of the host.</td></tr><tr><td>char</td><td><code>**h_aliases</code></td><td>A pointer to an array of pointers to alternative host names, terminated by a null pointer.</td></tr><tr><td>int</td><td><code>h_addrtype</code></td><td>Address type.</td></tr><tr><td>int</td><td><code>h_length</code></td><td>The length, in bytes, of the address.</td></tr><tr><td>char</td><td><code>**h_addr_list</code></td><td>A pointer to an array of pointers to network addresses (in network byte order) for the host, terminated by a null pointer.</td></tr></table>			char	<code>*h_name</code>	Official name of the host.	char	<code>**h_aliases</code>	A pointer to an array of pointers to alternative host names, terminated by a null pointer.	int	<code>h_addrtype</code>	Address type.	int	<code>h_length</code>	The length, in bytes, of the address.	char	<code>**h_addr_list</code>	A pointer to an array of pointers to network addresses (in network byte order) for the host, terminated by a null pointer.
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<p>The <code><netdb.h></code> header defines the <code>protoent</code> structure that includes the following members:</p>																	
<table><tr><td>char</td><td><code>*p_name</code></td><td>Official name of the protocol.</td></tr><tr><td>char</td><td><code>**p_aliases</code></td><td>A pointer to an array of pointers to alternative protocol names, terminated by a null pointer.</td></tr><tr><td>int</td><td><code>p_proto</code></td><td>The protocol number.</td></tr></table>			char	<code>*p_name</code>	Official name of the protocol.	char	<code>**p_aliases</code>	A pointer to an array of pointers to alternative protocol names, terminated by a null pointer.	int	<code>p_proto</code>	The protocol number.						
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int	<code>p_proto</code>	The protocol number.															
<p>The <code><netdb.h></code> header defines the <code>servent</code> structure that includes the following members:</p>																	

char	<code>*s_name</code>	Official name of the service.
char	<code>**s_aliases</code>	A pointer to an array of pointers to alternative service names, terminated by a null pointer.
int	<code>s_port</code>	The port number at which the service resides, in network byte order.
char	<code>*s_proto</code>	The name of the protocol to use when contacting the service.

The `<netdb.h>` header defines the macro `IPPORT_RESERVED` with the value of the highest reserved Internet port number.

The `<netdb.h>` header provides a declaration for `h_errno`:

```
extern int h_errno;
```

The `<netdb.h>` header defines the following macros for use as error values for `gethostbyaddr()` and `gethostbyname()`:

<code>HOST_NOT_FOUND</code>	<code>NO_DATA</code>
<code>NO_RECOVERY</code>	<code>TRY AGAIN</code>

Inclusion of the `<netdb.h>` header may also make visible all symbols from `in(3HEAD)`.

Default For applications that do not require standard-conforming behavior (those that use the socket interfaces described in section 3N of the reference manual; see `Intro(3)` and `standards(5)`), the following are declared as functions and can also be defined as macros:

```
int endhostent(void);
int endnetent(void);
int endprotoent(void);
int endservent(void);

struct hostent *gethostbyaddr(const void *addr, int len, int type);
struct hostent *gethostbyname(const char *name);
struct hostent *gethostent(void);
struct netent *getnetbyaddr(long net, int type);
```

netdb(3HEAD)

```
struct netent      *getnetbyname(const char *name);
struct netent      *getnetent(void);
struct protoent    *getprotobynumber(const char *name);
struct protoent    *getprotoent(void);
struct servent     *getservbyname(const char *name, const char *proto);
struct servent     *getservbyport(int port, const char *proto);
struct servent     *getservent(void);
int                sethostent(int stayopen);
int                setnetent(int stayopen);
int                setprotoent(int stayopen);
int                setservent(int stayopen);
```

Standard conforming

For applications that require standard-conforming behavior (those that use the socket interfaces described in section 3XN of the reference manual; see [Intro\(3\)](#) and [standards\(5\)](#)), the following are declared as functions and can also be defined as macros:

```
void               endhostent(void);
void               endnetent(void);
void               endprotoent(void);
void               endservent(void);
struct hostent    *gethostbyaddr(const void *addr, size_t len, int type);
struct hostent    *gethostbyname(const char *name);
struct hostent    *gethostent(void);
struct netent     *getnetbyaddr(in_addr_t net, int type);
struct netent     *getnetbyname(const char *name);
struct netent     *getnetent(void);
struct protoent   *getprotobynumber(int proto);
struct protoent   *getprotoent(void);
struct servent    *getservbyname(const char *name, const char *proto);
```

```
struct servent      *getservbyport (int port, const char *proto);
struct servent      *getservent (void) ;
void                sethostent (int stayopen);
void                setnetent (int stayopen);
void                setprotoent (int stayopen);
void                setservent (int stayopen);
```

SEE ALSO

[Intro\(3\)](#), [endhostent\(3NSL\)](#), [endhostent\(3XNET\)](#), [endnetent\(3SOCKET\)](#),
[endnetent\(3XNET\)](#), [endprotoent\(3SOCKET\)](#), [endprotoent\(3XNET\)](#),
[endservent\(3SOCKET\)](#), [endservent\(3XNET\)](#), [in\(3HEAD\)](#), [standards\(5\)](#)

nl_types(3HEAD)

NAME	nl_types – native language data types
SYNOPSIS	#include <nl_types.h>
DESCRIPTION	This header contains the following definitions:
nl_catd	Used by the message catalog functions <code>catopen</code> , <code>catgets</code> and <code>catclose</code> to identify a catalog.
nl_item	Used by <code>nl_langinfo</code> to identify items of langinfo data. Values for objects of type <code>nl_item</code> are defined in <code><langinfo.h></code> .
NL_SETD	Used by <code>gencat</code> when no <code>\$set</code> directive is specified in a message text source file. This constant can be used in subsequent calls to <code>catgets</code> as the value of the set identifier parameter.
NL_MGSMAX	Maximum number of messages per set.
NL_SETMAX	Maximum number of sets per catalog.
NL_TEXTMAX	Maximum size of a message.
SEE ALSO	<code>gencat(1)</code> , <code>catgets(3C)</code> , <code>catopen(3C)</code> , <code>nl_langinfo(3C)</code> , <code>langinfo(3HEAD)</code>

NAME	sched – execution scheduling
SYNOPSIS	#include <sched.h>
DESCRIPTION	The <sched.h> header defines the <code>sched_param</code> structure, which contains the scheduling parameters required for implementation of each supported scheduling policy. This structure contains the following member:
	<pre>int sched_priority process execution scheduling priority</pre>
	Each process is controlled by an associated scheduling policy and priority. Associated with each policy is a priority range. Each policy definition specifies the minimum priority range for that policy. The priority ranges for each policy may overlap the priority ranges of other policies.
	The scheduling policies are indicated by the values of the following symbolic constants:
SCHED_FIFO	Processes are scheduled according to the First-In-First-Out (FIFO) policy. Processes scheduled to this policy, if not pre-empted by a higher priority or interrupted by a signal, will proceed until completion.
SCHED_RR	Processes are scheduled according to the Round-Robin (RR) policy. Processes scheduled to this policy, if not pre-empted by a higher priority or interrupted by a signal, will execute for a time period, returned by <code>sched_rr_get_interval(3RT)</code> or by the system.
SCHED_IA	Processes are scheduled according to the Inter-Active Class (IA) policy as described in <code>priocntl(2)</code> .
SCHED_OTHER	Processes are scheduled according to another policy not described above.
	The values of these constants are distinct.
	Inclusion of the <sched.h> header will make visible symbols defined in the header <time.h>.
SEE ALSO	<code>priocntl(2), sched_rr_get_interval(3RT), time(3HEAD)</code>

siginfo(3HEAD)

NAME	siginfo – signal generation information												
SYNOPSIS	#include <siginfo.h>												
DESCRIPTION	If a process is catching a signal, it might request information that tells why the system generated that signal. See <code>sigaction(2)</code> . If a process is monitoring its children, it might receive information that tells why a child changed state. See <code>waitid(2)</code> . In either case, the system returns the information in a structure of type <code>siginfo_t</code> , which includes the following information: <pre>int si_signo /* signal number */ int si_errno /* error number */ int si_code /* signal code */ union sigval si_value /* signal value */</pre> <code>si_signo</code> contains the system-generated signal number. For the <code>waitid(2)</code> function, <code>si_signo</code> is always <code>SIGCHLD</code> . If <code>si_errno</code> is non-zero, it contains an error number associated with this signal, as defined in <code><errno.h></code> . <code>si_code</code> contains a code identifying the cause of the signal. If the value of the <code>si_code</code> member is <code>SI_NOINFO</code> , only the <code>si_signo</code> member of <code>siginfo_t</code> is meaningful, and the value of all other members is unspecified.												
User Signals	If the value of <code>si_code</code> is less than or equal to 0, then the signal was generated by a user process (see <code>kill(2)</code> , <code>_lwp_kill(2)</code> , <code>sigqueue(3RT)</code> , <code>sigsend(2)</code> , <code>abort(3C)</code> , and <code>raise(3C)</code>) and the <code>siginfo</code> structure contains the following additional information: <pre>typedef long pid_t si_pid /* sending process ID */ typedef long uid_t si_uid /* sending user ID */</pre> If the signal was generated by a user process, the following values are defined for <code>si_code</code> : <table><tr><td><code>SI_USER</code></td><td>The implementation sets <code>si_code</code> to <code>SI_USER</code> if the signal was sent by <code>kill(2)</code>, <code>sigsend(2)</code>, <code>raise(3C)</code> or <code>abort(3C)</code>.</td></tr><tr><td><code>SI_LWP</code></td><td>The signal was sent by <code>_lwp_kill(2)</code>.</td></tr><tr><td><code>SI_QUEUE</code></td><td>The signal was sent by <code>sigqueue(3RT)</code>.</td></tr><tr><td><code>SI_TIMER</code></td><td>The signal was generated by the expiration of a timer created by <code>timer_settime(3RT)</code>.</td></tr><tr><td><code>SI_ASYNCIO</code></td><td>The signal was generated by the completion of an asynchronous I/O request.</td></tr><tr><td><code>SI_MESGQ</code></td><td>The signal was generated by the arrival of a message on an empty message queue. See <code>mq_notify(3RT)</code>.</td></tr></table>	<code>SI_USER</code>	The implementation sets <code>si_code</code> to <code>SI_USER</code> if the signal was sent by <code>kill(2)</code> , <code>sigsend(2)</code> , <code>raise(3C)</code> or <code>abort(3C)</code> .	<code>SI_LWP</code>	The signal was sent by <code>_lwp_kill(2)</code> .	<code>SI_QUEUE</code>	The signal was sent by <code>sigqueue(3RT)</code> .	<code>SI_TIMER</code>	The signal was generated by the expiration of a timer created by <code>timer_settime(3RT)</code> .	<code>SI_ASYNCIO</code>	The signal was generated by the completion of an asynchronous I/O request.	<code>SI_MESGQ</code>	The signal was generated by the arrival of a message on an empty message queue. See <code>mq_notify(3RT)</code> .
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siginfo(3HEAD)

System Signals	<p><code>si_value</code> contains the application specified value, which is passed to the application's signal-catching function at the time of the signal delivery if <code>si_code</code> is any of <code>SI_QUEUE</code>, <code>SI_TIMER</code>, <code>SI_ASYNCHIO</code>, or <code>SI_MSGQ</code>.</p> <p>Non-user generated signals can arise for a number of reasons. For all of these cases, <code>si_code</code> contains a positive value reflecting the reason why the system generated the signal:</p>																																																									
	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left; padding-bottom: 2px;">Signal</th><th style="text-align: left; padding-bottom: 2px;">Code</th><th style="text-align: left; padding-bottom: 2px;">Reason</th></tr> </thead> <tbody> <tr> <td rowspan="8" style="vertical-align: top; padding-top: 2px;">SIGILL</td><td>ILL_ILLOPC</td><td>illegal opcode</td></tr> <tr> <td>ILL_ILLOPN</td><td>illegal operand</td></tr> <tr> <td>ILL_ILLADR</td><td>illegal addressing mode</td></tr> <tr> <td>ILL_ILLTRP</td><td>illegal trap</td></tr> <tr> <td>ILL_PRVOPC</td><td>privileged opcode</td></tr> <tr> <td>ILL_PRVREG</td><td>privileged register</td></tr> <tr> <td>ILL_COPROC</td><td>co-processor error</td></tr> <tr> <td>ILL_BADSTK</td><td>internal stack error</td></tr> <tr> <td rowspan="8" style="vertical-align: top; padding-top: 2px;">SIGFPE</td><td>FPE_INTDIV</td><td>integer divide by zero</td></tr> <tr> <td>FPE_INTOVF</td><td>integer overflow</td></tr> <tr> <td>FPE_FLTDIV</td><td>floating point divide by zero</td></tr> <tr> <td>FPE_FLTOVF</td><td>floating point overflow</td></tr> <tr> <td>FPE_FLTUND</td><td>floating point underflow</td></tr> <tr> <td>FPE_FLTRES</td><td>floating point inexact result</td></tr> <tr> <td>FPE_FLTINV</td><td>invalid floating point operation</td></tr> <tr> <td>FPE_FLTSUB</td><td>subscript out of range</td></tr> <tr> <td rowspan="2" style="vertical-align: top; padding-top: 2px;">SIGSEGV</td><td>SEGV_MAPERR</td><td>address not mapped to object</td></tr> <tr> <td>SEGV_ACCERR</td><td>invalid permissions for mapped object</td></tr> <tr> <td rowspan="3" style="vertical-align: top; padding-top: 2px;">SIGBUS</td><td>BUS_ADRALN</td><td>invalid address alignment</td></tr> <tr> <td>BUS_ADRERR</td><td>non-existent physical address</td></tr> <tr> <td>BUS_OBJERR</td><td>object specific hardware error</td></tr> <tr> <td rowspan="2" style="vertical-align: top; padding-top: 2px;">SIGTRAP</td><td>TRAP_BRKPT</td><td>process breakpoint</td></tr> <tr> <td>TRAP_TRACE</td><td>process trace trap</td></tr> <tr> <td>SIGCHLD</td><td>CLD_EXITED</td><td>child has exited</td></tr> </tbody> </table>	Signal	Code	Reason	SIGILL	ILL_ILLOPC	illegal opcode	ILL_ILLOPN	illegal operand	ILL_ILLADR	illegal addressing mode	ILL_ILLTRP	illegal trap	ILL_PRVOPC	privileged opcode	ILL_PRVREG	privileged register	ILL_COPROC	co-processor error	ILL_BADSTK	internal stack error	SIGFPE	FPE_INTDIV	integer divide by zero	FPE_INTOVF	integer overflow	FPE_FLTDIV	floating point divide by zero	FPE_FLTOVF	floating point overflow	FPE_FLTUND	floating point underflow	FPE_FLTRES	floating point inexact result	FPE_FLTINV	invalid floating point operation	FPE_FLTSUB	subscript out of range	SIGSEGV	SEGV_MAPERR	address not mapped to object	SEGV_ACCERR	invalid permissions for mapped object	SIGBUS	BUS_ADRALN	invalid address alignment	BUS_ADRERR	non-existent physical address	BUS_OBJERR	object specific hardware error	SIGTRAP	TRAP_BRKPT	process breakpoint	TRAP_TRACE	process trace trap	SIGCHLD	CLD_EXITED	child has exited
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siginfo(3HEAD)

	CLD_KILLED	child was killed
	CLD_DUMPED	child terminated abnormally
	CLD_TRAPPED	traced child has trapped
	CLD_STOPPED	child has stopped
	CLD_CONTINUED	stopped child had continued
SIGPOLL	POLL_IN	data input available
	POLL_OUT	output buffers available
	POLL_MSG	input message available
	POLL_ERR	I/O error
	POLL_PRI	high priority input available
	POLL_HUP	device disconnected

Signals can also be generated from the resource control subsystem. Where these signals do not already possess kernel-level `siginfo` codes, the `siginfo si_code` will be filled with `SI_RCTL` to indicate a kernel-generated signal from an established resource control value.

Signal	Code	Reason
SIGXRES	SI_RCTL	resource-control generated signal
SIGHUP		
SIGTERM		

The uncatchable signals `SIGSTOP` and `SIGKILL` have undefined `siginfo` codes.

Signals sent with a `siginfo` code of `SI_RCTL` contain code-dependent information for kernel-generated signals:

Code	Field	Value
SI_RCTL	hr_time si_entity	process-model entity of control

In addition, the following signal-dependent information is available for kernel-generated signals:

Signal	Field	Value

SIGILL	caddr_t si_addr	address of faulting instruction
SIGFPE		
SIGSEGV	caddr_t si_addr	address of faulting memory reference
SIGBUS		
SIGCHLD	pid_t si_pid int si_status	child process ID exit value or signal
SIGPOLL	long si_band	band event for POLL_IN, POLL_OUT, or POLL_MSG

SEE ALSO _lwp_kill(2), kill(2), setrctl(2), sigaction(2), sigsend(2), waitid(2), abort(3C), aio_read(3RT), mq_notify(3RT), raise(3C), signal(3HEAD), sigqueue(3RT), timer_create(3RT), timer_settime(3RT)

NOTES For SIGCHLD signals, if *si_code* is equal to CLD_EXITED then *si_status* is equal to the exit value of the process; otherwise, it is equal to the signal that caused the process to change state. For some implementations, the exact value of *si_addr* might not be available; in that case, *si_addr* is guaranteed to be on the same page as the faulting instruction or memory reference.

signal(3HEAD)

NAME	signal – base signals
SYNOPSIS	#include <signal.h>
DESCRIPTION	<p>A signal is an asynchronous notification of an event. A signal is said to be generated for (or sent to) a process when the event associated with that signal first occurs. Examples of such events include hardware faults, timer expiration and terminal activity, as well as the invocation of the <code>kill(2)</code> or <code>sigsend(2)</code> functions. In some circumstances, the same event generates signals for multiple processes. A process may request a detailed notification of the source of the signal and the reason why it was generated. See <code>siginfo(3HEAD)</code>.</p> <p>Signals can be generated synchronously or asynchronously. Events directly caused by the execution of code by a thread, such as a reference to an unmapped, protected, or bad memory can generate <code>SIGSEGV</code> or <code>SIGBUS</code>; a floating point exception can generate <code>SIGFPE</code>; and the execution of an illegal instruction can generate <code>SIGILL</code>. Such events are referred to as traps; signals generated by traps are said to be synchronously generated. Synchronously generated signals are initiated by a specific thread and are delivered to and handled by that thread.</p> <p>Signals may also be generated by calling <code>kill()</code>, <code>sigqueue()</code>, or <code>sigsend()</code>. Events such as keyboard interrupts generate signals, such as <code>SIGINT</code>, which are sent to the target process. Such events are referred to as interrupts; signals generated by interrupts are said to be asynchronously generated. Asynchronously generated signals are not directed to a particular thread but are handled by an arbitrary thread that meets either of the following conditions:</p> <ul style="list-style-type: none">■ The thread is blocked in a call to <code>sigwait(2)</code> whose argument includes the type of signal generated.■ The thread has a signal mask that does not include the type of signal generated. A process responds to signals in similar ways whether it is using threads or it is using lightweight processes (LWPs). See <code>thr_create(3THR)</code>. Each process may specify a system action to be taken in response to each signal sent to it, called the signal's disposition. All threads or LWPs in the process share the disposition. The set of system signal actions for a process is initialized from that of its parent. Once an action is installed for a specific signal, it usually remains installed until another disposition is explicitly requested by a call to either <code>sigaction()</code>, <code>signal()</code> or <code>sigset()</code>, or until the process execs(). See <code>sigaction(2)</code> and <code>signal(3C)</code>. When a process execs, all signals whose disposition has been set to catch the signal will be set to <code>SIG_DFL</code>. Alternatively, a process may request that the system automatically reset the disposition of a signal to <code>SIG_DFL</code> after it has been caught. See <code>sigaction(2)</code> and <code>signal(3C)</code>.
SIGNAL DELIVERY	A signal is said to be delivered to a process when a thread or LWP within the process takes the appropriate action for the disposition of the signal. Delivery of a signal can be blocked. There are two methods for handling delivery of a signal in a multithreaded application. The first method specifies a signal handler function to execute when the signal is received by the process. See <code>sigaction(2)</code> . The second method creates a thread to handle the receipt of the signal <code>sigaction()</code> can be used

signal(3HEAD)

for both synchronously and asynchronously generated signals. `sigwait()` will only work for asynchronously generated signals, as synchronously generated signals are sent to the thread that caused the event. `sigwait()` is the recommended interface for use with a multithreaded application. See `sigwait(2)`.

SIGNAL MASK

Each thread or LWP has a signal mask that defines the set of signals currently blocked from delivery to it. The signal mask of the main thread or LWP is inherited from the signal mask of the thread or LWP that created it in the parent process. The selection of the thread or LWP within the process that is to take the appropriate action for the signal is based on the method of signal generation and the signal masks of the threads or LWPs in the receiving process. Signals that are generated by action of a particular thread or LWP such as hardware faults are delivered to the thread or LWP that caused the signal. See `thr_sigsetmask(3THR)` or `sigprocmask(2)`. See `alarm(2)` for current semantics of delivery of `SIGALRM`. Signals that are directed to a particular thread or LWP are delivered to the targeted thread or LWP. See `thr_kill(3THR)` or `_lwp_kill(2)`. If the selected thread or LWP has blocked the signal, it remains pending on the thread or LWP until it is unblocked. For all other types of signal generation (for example, `kill(2)`, `sigsend(2)`, terminal activity, and other external events not ascribable to a particular thread or LWP) one of the threads or LWPs that does not have the signal blocked is selected to process the signal. If all the threads or LWPs within the process block the signal, it remains pending on the process until a thread or LWP in the process unblocks it. If the action associated with a signal is set to ignore the signal then both currently pending and subsequently generated signals of this type are discarded immediately for this process.

The determination of which action is taken in response to a signal is made at the time the signal is delivered to a thread or LWP within the process, allowing for any changes since the time of generation. This determination is independent of the means by which the signal was originally generated.

The signals currently defined by `<signal.h>` are as follows:

Name	Value	Default	Event
SIGHUP	1	Exit	Hangup (see <code>termio(7I)</code>)
SIGINT	2	Exit	Interrupt (see <code>termio(7I)</code>)
SIGQUIT	3	Core	Quit (see <code>termio(7I)</code>)
SIGILL	4	Core	Illegal Instruction
SIGTRAP	5	Core	Trace or Breakpoint Trap
SIGABRT	6	Core	Abort
SIGEMT	7	Core	Emulation Trap
SIGFPE	8	Core	Arithmetic Exception

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Name	Value	Default	Event
SIGKILL	9	Exit	Killed
SIGBUS	10	Core	Bus Error
SIGSEGV	11	Core	Segmentation Fault
SIGSYS	12	Core	Bad System Call
SIGPIPE	13	Exit	Broken Pipe
SIGALRM	14	Exit	Alarm Clock
SIGTERM	15	Exit	Terminated
SIGUSR1	16	Exit	User Signal 1
SIGUSR2	17	Exit	User Signal 2
SIGCHLD	18	Ignore	Child Status Changed
SIGPWR	19	Ignore	Power Fail or Restart
SIGWINCH	20	Ignore	Window Size Change
SIGURG	21	Ignore	Urgent Socket Condition
SIGPOLL	22	Exit	Pollable Event (see <code>streamio(7I)</code>)
SIGSTOP	23	Stop	Stopped (signal)
SIGTSTP	24	Stop	Stopped (user) (see <code>termio(7I)</code>)
SIGCONT	25	Ignore	Continued
SIGTTIN	26	Stop	Stopped (tty input) (see <code>termio(7I)</code>)
SIGTTOU	27	Stop	Stopped (tty output) (see <code>termio(7I)</code>)
SIGVTALRM	28	Exit	Virtual Timer Expired
SIGPROF	29	Exit	Profiling Timer Expired
SIGXCPU	30	Core	CPU time limit exceeded (see <code>getrlimit(2)</code>)
SIGXFSZ	31	Core	File size limit exceeded (see <code>getrlimit(2)</code>)
SIGWAITING	32	Ignore	Concurrency signal reserved by threads library
SIGLWP	33	Ignore	Inter-LWP signal reserved by threads library
SIGFREEZE	34	Ignore	Check point Freeze
SIGTHAW	35	Ignore	Check point Thaw
SIGCANCEL	36	Ignore	Cancellation signal reserved by threads library

Name	Value	Default	Event
SIGXRES	37	Ignore	Resource control exceeded (see <code>setrctl(2)</code>)
SIGRTMIN	*	Exit	First real time signal
(SIGRTMIN+1)	*	Exit	Second real time signal
...			
(SIGRTMAX-1)	*	Exit	Second-to-last real time signal
SIGRTMAX	*	Exit	Last real time signal

The symbols `SIGRTMIN` through `SIGRTMAX` are evaluated dynamically in order to permit future configurability.

SIGNAL DISPOSITION

Default Action: SIG_DFL

A process, using a `signal(3C)`, `sigset(3C)` or `sigaction(2)` system call, may specify one of three dispositions for a signal: take the default action for the signal, ignore the signal, or catch the signal.

A disposition of `SIG_DFL` specifies the default action. The default action for each signal is listed in the table above and is selected from the following:

- | | |
|--------|---|
| Exit | When it gets the signal, the receiving process is to be terminated with all the consequences outlined in <code>exit(2)</code> . |
| Core | When it gets the signal, the receiving process is to be terminated with all the consequences outlined in <code>exit(2)</code> . In addition, a “core image” of the process is constructed in the current working directory. |
| Stop | When it gets the signal, the receiving process is to stop. When a process is stopped, all the threads and LWPs within the process also stop executing. |
| Ignore | When it gets the signal, the receiving process is to ignore it. This is identical to setting the disposition to <code>SIG_IGN</code> . |

Ignore Signal: SIG_IGN

A disposition of `SIG_IGN` specifies that the signal is to be ignored. Setting a signal action to `SIG_IGN` for a signal that is pending causes the pending signal to be discarded, whether or not it is blocked. Any queued values pending are also discarded, and the resources used to queue them are released and made available to queue other signals.

Catch Signal: function address

A disposition that is a function address specifies that, when it gets the signal, the thread or LWP within the process that is selected to process the signal will execute the signal handler at the specified address. Normally, the signal handler is passed the signal number as its only argument; if the disposition was set with the `sigaction()` however, additional arguments may be requested (see `sigaction(2)`). When the signal handler returns, the receiving process resumes execution at the point it was interrupted, unless the signal handler makes other arrangements. If an invalid function address is specified, results are undefined.

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If the disposition has been set with the `sigset()` or `sigaction()`, the signal is automatically blocked in the thread or LWP while it is executing the signal catcher. If a `longjmp()` is used to leave the signal catcher, then the signal must be explicitly unblocked by the user. See `setjmp(3C)`, `signal(3C)` and `sigprocmask(2)`.

If execution of the signal handler interrupts a blocked function call, the handler is executed and the interrupted function call returns -1 to the calling process with `errno` set to `EINTR`. However, if the `SA_RESTART` flag is set, the function call will be transparently restarted.

Some signal-generating functions, such as high resolution timer expiration, asynchronous I/O completion, inter-process message arrival, and the `sigqueue(3RT)` function, support the specification of an application defined value, either explicitly as a parameter to the function, or in a `sigevent` structure parameter. The `sigevent` structure is defined by `<signal.h>` and contains at least the following members:

Member	Member	
Type	Name	Description
int	<code>sigev_notify</code>	Notification type
int	<code>sigev_signo</code>	Signal number
<code>union sigval</code>	<code>sigev_value</code>	Signal value

The `sigval` union is defined by `<signal.h>` and contains at least the following members:

Member	Member	
Type	Name	Description
int	<code>sival_int</code>	Integer signal value
<code>void *</code>	<code>sival_ptr</code>	Pointer signal value

The `sigev_notify` member specifies the notification mechanism to use when an asynchronous event occurs. The `sigev_notify` member may be defined with the following values:

- | | |
|---------------------------|--|
| <code>SIGEV_NONE</code> | No asynchronous notification is delivered when the event of interest occurs. |
| <code>SIGEV_SIGNAL</code> | A queued signal, with its value application-defined, is generated when the event of interest occurs. |

Your implementation may define additional notification mechanisms.

The `sigev_signo` member specifies the signal to be generated.

The `sigev_value` member references the application defined value to be passed to the signal-catching function at the time of the signal delivery as the `si_value` member of the `siginfo_t` structure.

The `sival_int` member is used when the application defined value is of type `int`, and the `sival_ptr` member is used when the application defined value is a pointer.

When a signal is generated by `sigqueue(3RT)` or any signal-generating function which supports the specification of an application defined value, the signal is marked pending and, if the `SA_SIGINFO` flag is set for that signal, the signal is queued to the process along with the application specified signal value. Multiple occurrences of signals so generated are queued in FIFO order. If the `SA_SIGINFO` flag is not set for that signal, later occurrences of that signal's generation, when a signal is already queued, are silently discarded.

SEE ALSO `intro(2)`, `_lwp_kill(2)`, `alarm(2)`, `getrlimit(2)`, `ioctl(2)`, `kill(2)`, `pause(2)`, `setrctl(2)`, `sigaction(2)`, `sigaltstack(2)`, `sigprocmask(2)`, `sigsend(2)`, `sigsuspend(2)`, `sigwait(2)`, `wait(2)`, `setjmp(3C)`, `siginfo(3HEAD)`, `signal(3C)`, `sigqueue(3RT)`, `sigsetops(3C)`, `thr_create(3THR)`, `thr_kill(3THR)`, `thr_sigsetmask(3THR)`, `ucontext(3HEAD)`

NOTES The dispositions of the `SIGKILL` and `SIGSTOP` signals cannot be altered from their default values. The system generates an error if this is attempted.

The `SIGKILL` and `SIGSTOP` signals cannot be blocked. The system silently enforces this restriction.

Whenever a process receives a `SIGSTOP`, `SIGTSTP`, `SIGTTIN`, or `SIGTTOU` signal, regardless of its disposition, any pending `SIGCONT` signal are discarded.

Whenever a process receives a `SIGCONT` signal, regardless of its disposition, any pending `SIGSTOP`, `SIGTSTP`, `SIGTTIN`, and `SIGTTOU` signals are discarded. In addition, if the process was stopped, it is continued.

`SIGPOLL` is issued when a file descriptor corresponding to a STREAMS file has a "selectable" event pending. See `intro(2)`. A process must specifically request that this signal be sent using the `I_SETSIG` `ioctl` call. Otherwise, the process will never receive `SIGPOLL`.

If the disposition of the `SIGCHLD` signal has been set with `signal` or `sigset`, or with `sigaction` and the `SA_NOCLDSTOP` flag has been specified, it will only be sent to the calling process when its children exit; otherwise, it will also be sent when the calling process's children are stopped or continued due to job control.

The name `SIGCLD` is also defined in this header and identifies the same signal as `SIGCHLD`. `SIGCLD` is provided for backward compatibility, new applications should use `SIGCHLD`.

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The disposition of signals that are inherited as `SIG_IGN` should not be changed.

Signals which are generated synchronously should not be masked. If such a signal is blocked and delivered, the receiving process is killed.

NAME	socket – Internet Protocol family	
SYNOPSIS	#include <sys/socket.h>	
DESCRIPTION	<p>The <code><sys/socket.h></code> header defines the unsigned integral type <code>sa_family_t</code> through <code>typedef</code>.</p> <p>The <code><sys/socket.h></code> header defines the <code>sockaddr</code> structure that includes the following members:</p>	

<code>sa_family_t</code>	<code>sa_family</code>	<code>/* address family */</code>
<code>char</code>	<code>sa_data[]</code>	<code>/* socket address (variable-length data) */</code>

The `<sys/socket.h>` header defines the `msghdr` structure that includes the following members:

<code>void</code>	<code>*msg_name</code>	<code>/* optional address */</code>
<code>size_t</code>	<code>msg_nameolen</code>	<code>/* size of address */</code>
<code>struct iovec</code>	<code>*msg iov</code>	<code>/* scatter/gather array */</code>
<code>int</code>	<code>msg iovlen</code>	<code>/* members in msg iov */</code>
<code>void</code>	<code>*msg control</code>	<code>/* ancillary data, see below */</code>
<code>size_t</code>	<code>msg controlrlen</code>	<code>/* ancillary data buffer len */</code>
<code>int</code>	<code>msg flags</code>	<code>/* flags on received message */</code>

The `<sys/socket.h>` header defines the `cmsghdr` structure that includes the following members:

<code>size_t</code>	<code>cmsg_len</code>	<code>/* data byte count, including hdr */</code>
<code>int</code>	<code>cmsg_level</code>	<code>/* originating protocol */</code>

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int	cmsg_type	/* protocol-specific type */
-----	-----------	---------------------------------

Ancillary data consists of a sequence of pairs, each consisting of a `cmsghdr` structure followed by a data array. The data array contains the ancillary data message, and the `cmsghdr` structure contains descriptive information that allows an application to correctly parse the data.

The values for `cmsg_level` will be legal values for the `level` argument to the `getsockopt()` and `setsockopt()` functions. The `SCM_RIGHTS` type is supported for level `SOL_SOCKET`.

Ancillary data is also possible at the socket level. The `<sys/socket.h>` header defines the following macro for use as the `cmsg_type` value when `cmsg_level` is `SOL_SOCKET`:

`SCM_RIGHTS` Indicates that the data array contains the access rights to be sent or received.

The `<sys/socket.h>` header defines the following macros to gain access to the data arrays in the ancillary data associated with a message header:

`CMSG_DATA (cmsg)` If the argument is a pointer to a `cmsghdr` structure, this macro returns an unsigned character pointer to the data array associated with the `cmsghdr` structure.

`CMSG_NXTHDR (mhdr,cmsg)` If the first argument is a pointer to a `msghdr` structure and the second argument is a pointer to a `cmsghdr` structure in the ancillary data, pointed to by the `msg_control` field of that `msghdr` structure, this macro returns a pointer to the next `cmsghdr` structure, or a null pointer if this structure is the last `cmsghdr` in the ancillary data.

`CMSG_FIRSTHDR (mhdr)` If the argument is a pointer to a `msghdr` structure, this macro returns a pointer to the first `cmsghdr` structure in the ancillary data associated with this `msghdr` structure, or a null pointer if there is no ancillary data associated with the `msghdr` structure.

The `<sys/socket.h>` header defines the `linger` structure that includes the following members:

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int	<code>l_onoff</code>	/* indicates whether linger option is enabled */
int	<code>l_linger</code>	/* linger time, in seconds */

The `<sys/socket.h>` header defines the following macros:

<code>SOCK_DGRAM</code>	Datagram socket
<code>SOCK_STREAM</code>	Byte-stream socket
<code>SOCK_SEQPACKET</code>	Sequenced-packet socket

The `<sys/socket.h>` header defines the following macro for use as the *level* argument of `setsockopt()` and `getsockopt()`.

`SOL_SOCKET` Options to be accessed at socket level, not protocol level.

The `<sys/socket.h>` header defines the following macros: for use as the *option_name* argument in `getsockopt()` or `setsockopt()` calls:

<code>SO_DEBUG</code>	Debugging information is being recorded.
<code>SO_ACCEPTCONN</code>	Socket is accepting connections.
<code>SO_BROADCAST</code>	Transmission of broadcast messages is supported.
<code>SO_REUSEADDR</code>	Reuse of local addresses is supported.
<code>SO_KEEPALIVE</code>	Connections are kept alive with periodic messages.
<code>SO_LINGER</code>	Socket lingers on close.
<code>SO_OOBINLINE</code>	Out-of-band data is transmitted in line.
<code>SO_SNDBUF</code>	Send buffer size.
<code>SO_RCVBUF</code>	Receive buffer size.
<code>SO_ERROR</code>	Socket error status.
<code>SO_TYPE</code>	Socket type.

The `<sys/socket.h>` header defines the following macros for use as the valid values for the `msg_flags` field in the `msghdr` structure, or the `flags` parameter in `recvfrom()`, `recvmsg()`, `sendto()`, or `sendmsg()` calls:

<code>MSG_CTRUNC</code>	Control data truncated.
<code>MSG_EOR</code>	Terminates a record (if supported by the protocol).
<code>MSG_OOB</code>	Out-of-band data.
<code>MSG_PEEK</code>	Leave received data in queue.

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MSG_TRUNC	Normal data truncated.
MSG_WAITALL	Wait for complete message.

The <sys/socket.h> header defines the following macros:

AF_UNIX	UNIX domain sockets
AF_INET	Internet domain sockets

The <sys/socket.h> header defines the following macros:

SHUT_RD	Disables further receive operations.
SHUT_WR	Disables further send operations.
SHUT_RDWR	Disables further send and receive operations.

The following are declared as functions, and may also be defined as macros:

```
int accept(int socket, struct sockaddr *address, size_t *address_len);
int bind(int socket, const struct sockaddr *address, size_t address_len);
int connect(int socket, const struct sockaddr *address, size_t address_len);
int getpeername(int socket, struct sockaddr *address, size_t *address_len);
int getsockname(int socket, struct sockaddr *address, size_t *address_len);
int getsockopt(int socket, int level, int option_name, void *option_value, size_t
*option_len);
int listen(int socket, int backlog);
ssize_t recv(int socket, void *buffer, size_t length, int flags);
ssize_t recvfrom(int socket, void *buffer, size_t length, int flags, struct sockaddr
*address, size_t *address_len);
ssize_t recvmsg(int socket, struct msghdr *message, int flags);
ssize_t send(int socket, const void *message, size_t length, int flags);
ssize_t sendmsg(int socket, const struct msghdr *message, int flags);
ssize_t sendto(int socket, const void *message, size_t length, int flags, const
struct sockaddr *dest_addr, size_t dest_len);
int setsockopt(int socket, int level, int option_name, const void *option_value,
size_t option_len);
int shutdown(int socket, int how);
```

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```
int socket (int domain, int type, int protocol);  
int socketpair(int domain, int type, int protocol, int socket_vector[2]);
```

SEE ALSO

accept(3SOCKET), accept(3XNET), bind(3SOCKET), bind(3XNET),
connect(3SOCKET), connect(3XNET), getpeername(3SOCKET),
getpeername(3XNET), getsockname(3SOCKET), getsockname(3XNET),
getsockopt(3SOCKET), getsockopt(3XNET), listen(3SOCKET),
listen(3XNET), recv(3SOCKET), recv(3XNET), recvfrom(3SOCKET),
recvfrom(3XNET), recvmsg(3SOCKET), recvmsg(3XNET), send(3SOCKET),
send(3XNET), sendmsg(3SOCKET), sendmsg(3XNET), sendto(3SOCKET),
sendto(3XNET), setsockopt(3SOCKET), setsockopt(3XNET),
shutdown(3SOCKET), shutdown(3XNET), socket(3SOCKET), socket(3XNET),
socketpair(3SOCKET) socketpair(3XNET)

stat(3HEAD)

NAME	stat – data returned by stat system call
SYNOPSIS	<pre>#include <sys/types.h> #include <sys/stat.h></pre>
DESCRIPTION	<p>The system calls <code>stat</code>, <code>lstat</code> and <code>fstat</code> return data in a <code>stat</code> structure, which is defined in <code><stat.h></code>.</p> <p>The constants used in the <code>st_mode</code> field are also defined in this file:</p> <pre>#define S_IFMT /* type of file */ #define S_IAMB /* access mode bits */ #define S_IFIFO /* fifo */ #define S_IFCHR /* character special */ #define S_IFDIR /* directory */ #define S_IFNAM /* XENIX special named file */ #define S_INSEM /* XENIX semaphore subtype of IFNAM */ #define S_INSHD /* XENIX shared data subtype of IFNAM */ #define S_IFBLK /* block special */ #define S_IFREG /* regular */ #define S_IFLNK /* symbolic link */ #define S_IFSOCK /* socket */ #define S_IFDOOR /* door */ #define S_ISUID /* set user id on execution */ #define S_ISGID /* set group id on execution */ #define S_ISVTX /* save swapped text even after use */ #define S_IREAD /* read permission, owner */ #define S_IWRITE /* write permission, owner */ #define S_IEXEC /* execute/search permission, owner */ #define S_ENFMT /* record locking enforcement flag */ #define S_IRWXU /* read, write, execute: owner */ #define S_IRUSR /* read permission: owner */ #define S_IWUSR /* write permission: owner */ #define S_IXUSR /* execute permission: owner */</pre>

stat(3HEAD)

```
#define S_IRWXG      /* read, write, execute: group */
#define S_IRGRP      /* read permission: group */
#define S_IWGRP      /* write permission: group */
#define S_IXGRP      /* execute permission: group */
#define S_IRWXO      /* read, write, execute: other */
#define S_IROTH      /* read permission: other */
#define S_IWOTH      /* write permission: other */
#define S_IXOTH      /* execute permission: other */
```

The following macros are for POSIX conformance (see `standards(5)`):

```
#define S_ISBLK(mode)    block special file
#define S_ISCHR(mode)     character special file
#define S_ISDIR(mode)     directory file
#define S_ISFIFO(mode)    pipe or fifo file
#define S_ISREG(mode)     regular file
#define S_ISSOCK(mode)    socket file
```

SEE ALSO `stat(2)`, `standards(5)`, `types(3HEAD)`

stdarg(3HEAD)

NAME	stdarg – handle variable argument list
SYNOPSIS	<pre>#include <stdarg.h> va_list pvar; void va_start(va_list pvar, void parmN); (type *) va_arg(va_list pvar, type); void va_copy(va_list dest, va_list src); void va_end(va_list pvar);</pre>
DESCRIPTION	<p>This set of macros allows portable procedures that accept variable numbers of arguments of variable types to be written. Routines that have variable argument lists (such as <code>printf</code>) but do not use <code>stdarg</code> are inherently non-portable, as different machines use different argument-passing conventions.</p> <p><code>va_list</code> is a type defined for the variable used to traverse the list.</p> <p>The <code>va_start()</code> macro is invoked before any access to the unnamed arguments and initializes <code>pvar</code> for subsequent use by <code>va_arg()</code> and <code>va_end()</code>. The parameter <code>parmN</code> is the identifier of the rightmost parameter in the variable parameter list in the function definition (the one just before the <code>, ...</code>). If this parameter is declared with the <code>register</code> storage class or with a function or array type, or with a type that is not compatible with the type that results after application of the default argument promotions, the behavior is undefined.</p> <p>The parameter <code>parmN</code> is required under strict ANSI C compilation. In other compilation modes, <code>parmN</code> need not be supplied and the second parameter to the <code>va_start()</code> macro can be left empty (for example, <code>va_start(pvar,)</code>). This allows for routines that contain no parameters before the <code>...</code> in the variable parameter list.</p> <p>The <code>va_arg()</code> macro expands to an expression that has the type and value of the next argument in the call. The parameter <code>pvar</code> should have been previously initialized by <code>va_start()</code>. Each invocation of <code>va_arg()</code> modifies <code>pvar</code> so that the values of successive arguments are returned in turn. The parameter <code>type</code> is the type name of the next argument to be returned. The type name must be specified in such a way so that the type of a pointer to an object that has the specified type can be obtained simply by postfixing a <code>*</code> to <code>type</code>. If there is no actual next argument, or if <code>type</code> is not compatible with the type of the actual next argument (as promoted according to the default argument promotions), the behavior is undefined.</p> <p>The <code>va_copy()</code> macro saves the state represented by the <code>va_list src</code> in the <code>va_list dest</code>. The <code>va_list</code> passed as <code>dest</code> should not be initialized by a previous call to <code>va_start()</code>, and must be passed to <code>va_end()</code> before being reused as a parameter to <code>va_start()</code> or as the <code>dest</code> parameter of a subsequent call to <code>va_copy()</code>. The behavior is undefined should any of these restrictions not be met.</p> <p>The <code>va_end()</code> macro is used to clean up.</p>

Multiple traversals, each bracketed by `va_start` and `va_end`, are possible.

EXAMPLES

EXAMPLE 1 A sample program.

This example gathers into an array a list of arguments that are pointers to strings (but not more than MAXARGS arguments) with function `f1`, then passes the array as a single argument to function `f2`. The number of pointers is specified by the first argument to `f1`.

```
#include <stdarg.h>
#define MAXARGS    31
void f1(int n_ptrs, ...)
{
    va_list ap;
    char *array[MAXARGS];
    int ptr_no = 0;

    if (n_ptrs > MAXARGS)
        n_ptrs = MAXARGS;
    va_start(ap, n_ptrs);
    while (ptr_no < n_ptrs)
        array[ptr_no++] = va_arg(ap, char*);
    va_end(ap);
    f2(n_ptrs, array);
}
```

Each call to `f1` shall have visible the definition of the function or a declaration such as

```
void f1(int, ...)
```

SEE ALSO

`vprintf(3C)`

NOTES

It is up to the calling routine to specify in some manner how many arguments there are, since it is not always possible to determine the number of arguments from the stack frame. For example, `exec1` is passed a zero pointer to signal the end of the list. `printf` can tell how many arguments there are by the format. It is non-portable to specify a second argument of `char`, `short`, or `float` to `va_arg`, because arguments seen by the called function are not `char`, `short`, or `float`. C converts `char` and `short` arguments to `int` and converts `float` arguments to `double` before passing them to a function.

time(3HEAD)

NAME	time – time types						
SYNOPSIS	#include <time.h>						
DESCRIPTION	The <time.h> header declares the structure <code>tm</code> , which includes the following members:						
	<pre>int tm_sec seconds [0,61] int tm_min minutes [0,59] int tm_hour hour [0,23] int tm_mday day of month [1,31] int tm_mon month of year [0,11] int tm_year years since 1900 int tm_wday day of week [0,6] (Sunday = 0) int tm_yday day of year [0,365] int tm_isdst daylight savings flag</pre>						
	The value of <code>tm_isdst</code> is positive if Daylight Saving Time is in effect, 0 if Daylight Saving Time is not in effect, and negative if the information is not available.						
	This header defines the following symbolic names:						
	<table><tr><td>NULL</td><td>Null pointer constant.</td></tr><tr><td>CLK_TCK</td><td>Number of clock ticks per second returned by the <code>times(2)</code> function.</td></tr><tr><td>CLOCKS_PER_SEC</td><td>A number used to convert the value returned by the <code>clock(3C)</code> function into seconds.</td></tr></table>	NULL	Null pointer constant.	CLK_TCK	Number of clock ticks per second returned by the <code>times(2)</code> function.	CLOCKS_PER_SEC	A number used to convert the value returned by the <code>clock(3C)</code> function into seconds.
NULL	Null pointer constant.						
CLK_TCK	Number of clock ticks per second returned by the <code>times(2)</code> function.						
CLOCKS_PER_SEC	A number used to convert the value returned by the <code>clock(3C)</code> function into seconds.						
	The <time.h> header declares the structure <code>timespec</code> , which has the following members:						
	<pre>time_t tv_sec seconds long tv_nsec nanoseconds</pre>						
	This header also declares the <code>itimerspec</code> structure, which has at least the following members:						
	<pre>struct timespec it_interval timer period struct timespec it_value timer expiration</pre>						
	The following manifest constants are defined:						
	<table><tr><td>CLOCK_REALTIME</td><td>The identifier of the systemwide realtime clock.</td></tr><tr><td>TIMER_ABSTIME</td><td>Flag indicating time is absolute with respect to the clock associated with a timer.</td></tr></table>	CLOCK_REALTIME	The identifier of the systemwide realtime clock.	TIMER_ABSTIME	Flag indicating time is absolute with respect to the clock associated with a timer.		
CLOCK_REALTIME	The identifier of the systemwide realtime clock.						
TIMER_ABSTIME	Flag indicating time is absolute with respect to the clock associated with a timer.						
	The <code>clock_t</code> , <code>size_t</code> and <code>time_t</code> types are defined as described in <sys/types.h>.						
	Although the value of <code>CLOCKS_PER_SEC</code> is 1 million on all Solaris systems, it may be variable on other systems and it should not be assumed that <code>CLOCKS_PER_SEC</code> is a compile-time constant.						

time(3HEAD)

The value of `CLK_TCK` is currently the same as the value of `sysconf(_SC_CLK_TCK)`; however, new applications should call `sysconf(3C)` because the `CLK_TCK` macro may be withdrawn in a future issue.

The `<time.h>` header provides a declaration for `getdate_err`.

The following are declared as variables:

```
extern int      daylight;
extern long int timezone;
extern char    *tzname[ ];
```

USAGE The range [0,61] for `tm_sec` allows for the occasional leap second or double leap second.

`tm_year` is a signed value, therefore years before 1900 may be represented.

SEE ALSO `time(2)`, `times(2)`, `utime(2)`, `asctime(3C)`, `clock(3C)`, `clock_gettime(3RT)`, `ctime(3C)`, `difftime(3C)`, `getdate(3C)`, `gmtime(3C)`, `localtime(3C)`, `mktime(3C)`, `nanosleep(3RT)`, `strftime(3C)`, `strptime(3C)`, `sysconf(3C)`, `timer_create(3RT)`, `timer_delete(3RT)`, `timer_gettime(3RT)`, `tzset(3C)`

types32(3HEAD)

NAME	types32 – fixed-width data types	
SYNOPSIS	#include <sys/types32.h>	
DESCRIPTION	The following fixed-width data types defined in <sys/types32.h> correspond to the sign and sizes of types in the 32-bit environment that can be used for compatibility and interoperability purposes in either the 32-bit or 64-bit environment.	
<hr/>		
typedef	int32_t	blkcnt32_t
typedef	uint32_t	caddr32_t
typedef	int32_t	clock32_t
typedef	int32_t	daddr32_t
typedef	uint32_t	dev32_t
typedef	uint32_t	fsblkcnt32_t
typedef	uint32_t	fsfilcnt32_t
typedef	int32_t	gid32_t
typedef	int32_t	id32_t
typedef	uint32_t	ino32_t
typedef	int32_t	key32_t
typedef	uint32_t	major32_t
typedef	uint32_t	minor32_t
typedef	uint32_t	mode32_t
typedef	uint32_t	nlink32_t
typedef	int32_t	pid32_t
typedef	uint32_t	rlim32_t
typedef	uint32_t	size32_t
typedef	int32_t	ssize32_t
typedef	time32_t	int32_t
typedef	uid32_t	int32_t
<hr/>		

types(3HEAD)

NAME	types – primitive system data types
SYNOPSIS	#include <sys/types.h>
DESCRIPTION	The data types defined in <sys/types.h> are discussed.
32-bit Solaris	The data types listed below are defined in <sys/types.h> for 32-bit Solaris. <pre>typedef struct { int r[1]; } *physadr; typedef long clock_t; typedef long daddr_t; typedef char * caddr_t; typedef unsigned char uchar; typedef unsigned short ushort; typedef unsigned int uint; typedef unsigned long ulong_t; typedef unsigned long ino_t; typedef long uid_t; typedef long gid_t; typedef ulong_t nlink_t; typedef ulong_t mode_t; typedef short cnt_t; typedef long time_t; typedef int label_t[10]; typedef ulong_t dev_t; typedef long off_t; typedef long pid_t; typedef long paddr_t; typedef int key_t; typedef unsigned char use_t; typedef short sysid_t; typedef short index_t; typedef short lock_t; typedef unsigned int size_t; typedef long clock_t; typedef long pid_t;</pre>
64-bit Solaris	The data types listed below are defined in <sys/types.h> for 64-bit Solaris. <pre>typedef long blkcnt_t typedef long clock_t typedef long daddr_t typedef ulong_t dev_t typedef ulong_t fsblkcnt_t typedef ulong_t fsfilcnt_t typedef int gid_t typedef int id_t typedef long ino_t typedef int key_t typedef uint_t major_t typedef uint_t minor_t typedef uint_t mode_t typedef uint_t nlink_t typedef int pid_t typedef ptrdiff_t intptr_t typedef ulong_t rlim_t typedef ulong_t size_t typedef uint_t speed_t</pre>

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	<pre>typedef long ssize_t typedef long suseconds_t typedef uint_t tcflag_t typedef long time_t typedef int uid_t typedef int wchar_t</pre>
USAGE	The <code>daddr_t</code> type is used for disk addresses except in an inode on disk. Times are encoded in seconds since 00:00:00 UTC, January 1, 1970. The major and minor parts of a device code specify kind and unit number of a device and are installation-dependent. Offsets are measured in bytes from the beginning of a file.
	The <code>label_t</code> [] types are used to save the processor state while another process is running.
NOTES	For 32-bit programs, pointers and the C data types <code>int</code> and <code>long</code> are all 32-bit quantities. For 64-bit programs, pointers and the C data type <code>long</code> are defined as 64-bit quantities. The preprocessor symbol <code>_ILP32</code> , made visible by the inclusion of <code><sys/types.h></code> can be used with the preprocessor <code>#ifdef</code> construct to define sections of code that will <i>only</i> be compiled as part of a 32-bit version of a given C program. The preprocessor symbol <code>_LP64</code> can be used in the same way to define sections of code that will <i>only</i> be compiled as part of a 64-bit version of a given C program.

For example:

```
#include <sys/types.h>
...
#ifndef _LP64
    printf("The data model is LP64 in this environment\n");
#else
#ifndef _ILP32
    printf("The data model is ILP32 in this environment\n");
#else
    #error "Unknown data model!"
#endif
#endif
```

NAME	ucontext – user context
SYNOPSIS	#include <ucontext.h>
DESCRIPTION	The ucontext structure defines the context of a thread of control within an executing process.
This structure includes at least the following members:	
<pre>ucontext_t uc_link sigset_t uc_sigmask stack_t uc_stack mcontext_t uc_mcontext</pre>	
<p>uc_link is a pointer to the context that to be resumed when this context returns. If uc_link is equal to 0, then this context is the main context, and the process exits when this context returns.</p>	
<p>uc_sigmask defines the set of signals that are blocked when this context is active [see sigprocmask(2)].</p>	
<p>uc_stack defines the stack used by this context [see sigaltstack(2)].</p>	
<p>uc_mcontext contains the saved set of machine registers and any implementation specific context data. Portable applications should not modify or access uc_mcontext.</p>	
SEE ALSO	getcontext(2) , sigaction(2) , sigaltstack(2) , sigprocmask(2) , makecontext(3C)

un(3HEAD)

NAME	un – definitions for UNIX-domain sockets
SYNOPSIS	#include <sys/un.h>
DESCRIPTION	The <sys/un.h> header defines the <code>sockaddr_un</code> structure that includes the following members: <pre>sa_family_t sun_family /* address family */ char sun_path[] /* socket pathname */</pre> The <code>sockaddr_un</code> structure is used to store addresses for UNIX domain sockets. Values of this type must be cast to <code>struct sockaddr</code> for use with the socket interfaces.
SEE ALSO	The <sys/un.h> header defines the type <code>sa_family_t</code> as described in socket(3HEAD) . SEE ALSO bind(3SOCKET), bind(3XNET), socket(3HEAD) , socket(3SOCKET) , socket(3XNET) , socketpair(3SOCKET) , socketpair(3XNET)

NAME	unistd – standard symbolic constants and types																
SYNOPSIS	#include <unistd.h>																
DESCRIPTION	The <unistd.h> header defines the symbolic constants and structures which are not already defined or declared in some other header. The contents of this header are shown below.																
Version Test Macros	The following symbolic constants are defined (with fixed values):																
	<table> <tr> <td>_POSIX_VERSION</td><td>Integer value indicating version of the POSIX standard (C language binding). See standards(5).</td></tr> <tr> <td>_POSIX2_VERSION</td><td>Integer value indicating version of the POSIX.2 standard (Commands). _POSIX2_C_VERSION Integer value indicating version of the POSIX.2 standard (C language binding).</td></tr> <tr> <td>_XOPEN_VERSION</td><td>Integer value indicating version of the XPG to which system conforms.</td></tr> <tr> <td>_XOPEN_XCU_VERSION</td><td>Integer value indicating the version of the XCU specification to which the implementation conforms. If this constant is not defined, use the sysconf(3C) function to determine which features are supported.</td></tr> </table>	_POSIX_VERSION	Integer value indicating version of the POSIX standard (C language binding). See standards(5).	_POSIX2_VERSION	Integer value indicating version of the POSIX.2 standard (Commands). _POSIX2_C_VERSION Integer value indicating version of the POSIX.2 standard (C language binding).	_XOPEN_VERSION	Integer value indicating version of the XPG to which system conforms.	_XOPEN_XCU_VERSION	Integer value indicating the version of the XCU specification to which the implementation conforms. If this constant is not defined, use the sysconf(3C) function to determine which features are supported.								
_POSIX_VERSION	Integer value indicating version of the POSIX standard (C language binding). See standards(5).																
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_XOPEN_VERSION	Integer value indicating version of the XPG to which system conforms.																
_XOPEN_XCU_VERSION	Integer value indicating the version of the XCU specification to which the implementation conforms. If this constant is not defined, use the sysconf(3C) function to determine which features are supported.																
Mandatory Symbolic Constants	The following symbolic constants are either undefined or defined with a value other than -1. If a constant is undefined, an application should use the sysconf(3C), pathconf(2), or fpathconf(2) functions to determine which features are present on the system at that time or for the particular pathname in question.																
	<table> <tr> <td>_POSIX_JOB_CONTROL</td><td>Implementation supports job control.</td></tr> <tr> <td>_POSIX_SAVED_IDS</td><td>The exec functions (see exec(2)) save the effective user and group.</td></tr> <tr> <td>_POSIX_THREADS</td><td>The implementation supports the threads option.</td></tr> <tr> <td>_POSIX_THREAD_ATTR_STACKADDR</td><td>The implementation supports the thread stack address attribute option.</td></tr> <tr> <td>_POSIX_THREAD_ATTR_STACKSIZE</td><td>The implementation supports the thread stack size attribute option.</td></tr> <tr> <td>_POSIX_THREAD_PROCESS_SHARED</td><td>The implementation supports the process-shared synchronization option.</td></tr> <tr> <td>_POSIX_THREAD_SAFE_FUNCTIONS</td><td>The implementation supports the thread-safe functions option.</td></tr> <tr> <td>_XOPEN_XPG3</td><td>X/Open Specification, February 1992, System Interfaces and Headers, Issue 3 (ISBN: 1-872630-37-5, C212); this</td></tr> </table>	_POSIX_JOB_CONTROL	Implementation supports job control.	_POSIX_SAVED_IDS	The exec functions (see exec(2)) save the effective user and group.	_POSIX_THREADS	The implementation supports the threads option.	_POSIX_THREAD_ATTR_STACKADDR	The implementation supports the thread stack address attribute option.	_POSIX_THREAD_ATTR_STACKSIZE	The implementation supports the thread stack size attribute option.	_POSIX_THREAD_PROCESS_SHARED	The implementation supports the process-shared synchronization option.	_POSIX_THREAD_SAFE_FUNCTIONS	The implementation supports the thread-safe functions option.	_XOPEN_XPG3	X/Open Specification, February 1992, System Interfaces and Headers, Issue 3 (ISBN: 1-872630-37-5, C212); this
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Constants for Options and Feature Groups

	specification was formerly X/Open Portability Guide, Issue 3, Volume 2, January 1989, XSI System Interface and Headers (ISBN: 0-13-685843-0, XO/XPG/89/003).
_XOPEN_XPG4	X/Open CAE Specification, July 1992, System Interfaces and Headers, Issue 4 (ISBN: 1-872630-47-2, C202).
_XOPEN_UNIX	X/Open CAE Specification, January 1997, System Interfaces and Headers, Issue 5 (ISBN: 1-85912-181-0, C606).
	The following symbolic constants are defined to have the value -1 if the implementation will never provide the feature, and to have a value other than -1 if the implementation always provides the feature. If these are undefined, the <code>sysconf()</code> function can be used to determine whether the feature is provided for a particular invocation of the application.
_POSIX2_C_BIND	Implementation supports the C Language Binding option.
_POSIX2_C_DEV	Implementation supports the C Language Development Utilities option.
_POSIX2_CHAR_TERM	Implementation supports at least one terminal type.
_POSIX2_LOCALEDEF	Implementation supports the creation of locales by the <code>localedef(1)</code> utility.
_POSIX2_SW_DEV	Implementation supports the Software Development Utilities option.
_POSIX2_UPE	The implementation supports the User Portability Utilities option.
_XOPEN_ENH_I18N	The implementation supports the Issue 4, Version 2 Enhanced Internationalization Feature Group.
_XOPEN_LEGACY	The implementation supports the Legacy Feature Group.
_XOPEN_REALTIME	The implementation supports the X/Open Realtime Feature Group.
_XOPEN_SHM	The implementation supports the Issue 4, Version 2 Shared Memory Feature Group.
_XBS5_ILP32_OFF32	Implementation provides a C-language compilation environment with 32-bit <code>int</code> , <code>long</code> , <code>pointer</code> and <code>off_t</code> types.

`_XBS5_ILP32_OFFBIG`
 Implementation provides a C-language compilation environment with 32-bit `int`, `long` and `pointer` types and an `off_t` type using at least 64 bits.

`_XBS5_LP64_OFF64`
 Implementation provides a C-language compilation environment with 32-bit `int` and 64-bit `long`, `pointer` and `off_t` types.

`_XBS5_LPBIG_OFFBIG`
 Implementation provides a C-language compilation environment with an `int` type using at least 32 bits and `long`, `pointer` and `off_t` types using at least 64 bits.

If `_XOPEN_REALTIME` is defined to have a value other than `-1` then the following symbolic constants will be defined to an unspecified value to indicate that the features are supported.

<code>_POSIX_ASYNCHRONOUS_IO</code>	Implementation supports the Asynchronous Input and Output option.
<code>_POSIX_MEMLOCK</code>	Implementation supports the Process Memory Locking option.
<code>_POSIX_MEMLOCK_RANGE</code>	Implementation supports the Range Memory Locking option.
<code>_POSIX_MESSAGE_PASSING</code>	Implementation supports the Message Passing option.
<code>_POSIX_PRIORITY_SCHEDULING</code>	Implementation supports the Process Scheduling option.
<code>_POSIX_REALTIME_SIGNALS</code>	Implementation supports the Realtime Signals Extension option.
<code>_POSIX_SEMAPHORES</code>	Implementation supports the Semaphores option.
<code>_POSIX_SHARED_MEMORY_OBJECTS</code>	Implementation supports the Shared Memory Objects option.
<code>_POSIX_SYNCHRONIZED_IO</code>	Implementation supports the Synchronized Input and Output option.
<code>_POSIX_TIMERS</code>	Implementation supports the Timers option.

The following symbolic constants are always defined to unspecified values to indicate that the functionality is always present on XSI-conformant systems.

<code>_POSIX_FSYNC</code>	Implementation supports the File Synchronisation option.
<code>_POSIX_MAPPED_FILES</code>	Implementation supports the Memory Mapped Files option.

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Execution-time Symbolic Constants	<code>_POSIX_MEMORY_PROTECTION</code>	Implementation supports the Memory Protection option.
	If any of the following constants are not defined in the header <code><unistd.h></code> , the value varies depending on the file to which it is applied.	
	If any of the following constants are defined to have value <code>-1</code> in the header <code><unistd.h></code> , the implementation will not provide the option on any file; if any are defined to have a value other than <code>-1</code> in the header <code><unistd.h></code> , the implementation will provide the option on all applicable files.	
	All of the following constants, whether defined in <code><unistd.h></code> or not, may be queried with respect to a specific file using the <code>pathconf()</code> or <code>fpathconf()</code> functions.	
	<code>_POSIX_ASYNC_IO</code>	Asynchronous input or output operations may be performed for the associated file.
	<code>_POSIX_PRIO_IO</code>	Prioritized input or output operations may be performed for the associated file.
	<code>_POSIX_SYNC_IO</code>	Synchronized input or output operations may be performed for the associated file.
Constants for Functions	The following constant is defined:	
	<code>NULL</code>	Null pointer.
	The following symbolic constants are defined for the <code>access(2)</code> function:	
	<code>R_OK</code>	Test for read permission.
	<code>W_OK</code>	Test for write permission.
	<code>X_OK</code>	Test for execute (search) permission.
	<code>F_OK</code>	Test for existence of file. The constants <code>F_OK</code> , <code>R_OK</code> , <code>W_OK</code> , and <code>X_OK</code> , and the expressions <code>R_OK W_OK</code> , <code>R_OK X_OK</code> , and <code>R_OK W_OK X_OK</code> all have distinct values.
	The following symbolic constants are defined for the <code>lockf(3C)</code> function:	
	<code>F_ULOCK</code>	Unlock a previously locked region.
	<code>F_LOCK</code>	Lock a region for exclusive use.
	<code>F_TLOCK</code>	Test and lock a region for exclusive use.
	<code>F_TEST</code>	Test a region for other processes locks.
	The following symbolic constants are defined for the <code>lseek(2)</code> and <code>fcntl(2)</code> functions (they have distinct values):	
	<code>SEEK_SET</code>	Set file offset to <i>offset</i> .

<code>SEEK_CUR</code>	Set file offset to current plus <i>offset</i> .
<code>SEEK_END</code>	Set file offset to EOF plus <i>offset</i> .

The following symbolic constants are defined for the `confstr(3C)` function for both SPARC and x86:

<code>_CS_LFS64_CFLAGS</code>	<code>_CS_LFS64_LDFLAGS</code>
<code>_CS_LFS64_LIBS</code>	<code>_CS_LFS64_LINTFLAGS</code>
<code>_CS_LFS_CFLAGS</code>	<code>_CS_LFS_LDFLAGS</code>
<code>_CS_LFS_LIBS</code>	<code>_CS_LFS_LINTFLAGS</code>
<code>_CS_PATH</code>	<code>_CS_XBS5_ILP32_OFF32_CFLAGS</code>
<code>_CS_XBS5_ILP32_OFF32_LDFLAGS</code>	<code>_CS_XBS5_ILP32_OFF32_LIBS</code>
<code>_CS_XBS5_ILP32_OFF32_LINTFLAGS</code>	<code>_CS_XBS5_ILP32_OFFBIG_CFLAGS</code>
<code>_CS_XBS5_ILP32_OFFBIG_LDFLAGS</code>	<code>_CS_XBS5_ILP32_OFFBIG_LIBS</code>
<code>_CS_XBS5_ILP32_OFFBIG_LINTFLAGS</code>	

The following symbolic constants are defined for the `confstr()` function for SPARC only:

<code>_CS_XBS5_LP64_OFF64_CFLAGS</code>	<code>_CS_XBS5_LP64_OFF64_LDFLAGS</code>
<code>_CS_XBS5_LP64_OFF64_LIBS</code>	<code>_CS_XBS5_LP64_OFF64_LINTFLAGS</code>
<code>_CS_XBS5_LPBIG_OFFBIG_CFLAGS</code>	<code>_CS_XBS5_LPBIG_OFFBIG_LDFLAGS</code>
<code>_CS_XBS5_LPBIG_OFFBIG_LIBS</code>	<code>_CS_XBS5_LPBIG_OFFBIG_LINTFLAGS</code>

The following symbolic constants are defined for the `sysconf(3C)` function:

<code>_SC_2_C_BIND</code>	<code>_SC_2_C_DEV</code>
<code>_SC_2_C_VERSION</code>	<code>_SC_2_FORT_DEV</code>
<code>_SC_2_FORT_RUN</code>	<code>_SC_2_LOCALEDEF</code>
<code>_SC_2_SW_DEV</code>	<code>_SC_2_UPE</code>
<code>_SC_2_VERSION</code>	<code>_SC_AIO_LISTIO_MAX</code>
<code>_SC_AIO_MAX</code>	<code>_SC_AIO_PRIO_DELTA_MAX</code>
<code>_SC_ARG_MAX</code>	<code>_SC_SYNCHRONOUS_IO</code>

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_SC_ATEXIT_MAX	_SC_AVPHYS_PAGES
_SC_BC_BASE_MAX	_SC_BC_DIM_MAX
_SC_BC_SCALE_MAX	_SC_BC_STRING_MAX
_SC_CHILD_MAX	_SC_CLK_TCK
_SC_COLL_WEIGHTS_MAX	_SC_DELAYTIMER_MAX
_SC_EXPR_NEST_MAX	_SC_FSYNC
_SC_GETGR_R_SIZE_MAX	_SC_GETPW_R_SIZE_MAX
_SC_IOV_MAX	_SC_JOB_CONTROL
_SC_LINE_MAX	_SC_LOGIN_NAME_MAX
_SC_LOGNAME_MAX	_SC_MAPPED_FILES
_SC_MEMLOCK	_SC_MEMLOCK_RANGE
_SC_MEMORY_PROTECTION	_SC_MESSAGE_PASSING
_SC_MQ_OPEN_MAX	_SC_MQ_PRIO_MAX
_SC_NGROUPS_MAX	_SC_NPROCESSORS_CONF
_SC_NPROCESSORS_ONLN	_SC_OPEN_MAX
_SC_PAGESIZE	_SC_PAGE_SIZE
_SC_PASS_MAX	_SC_PHYS_PAGES
_SC_PRIORITIZED_IO	_SC_PRIORITY_SCHEDULING
_SC_REALTIME_SIGNALS	_SC_RE_DUP_MAX
_SC_RTSIG_MAX	_SC_SAVED_IDS
_SC_SEMAPHORES	_SC_SEM_NSEMS_MAX
_SC_SEM_VALUE_MAX	_SC_SHARED_MEMORY_OBJECTS
_SC_SIGQUEUE_MAX	_SC_STREAM_MAX
_SC_SYNCHRONIZED_IO	_SC_THREAD_ATTR_STACKADDR
_SC_THREAD_ATTR_STACKSIZE	_SC_THREAD_DESTRUCTOR_ITERATIONS
_SC_THREAD_KEYS_MAX	_SC_THREAD_PRIO_INHERIT
_SC_THREAD_PRIO_PROTECT	_SC_THREAD_PRIORITY_SCHEDULING
_SC_THREAD_PROCESS_SHARED	_SC_THREADS
_SC_THREAD_SAFE_FUNCTIONS	_SC_THREAD_STACK_MIN
_SC_THREAD_THREADS_MAX	_SC_TIMER_MAX

_SC_TIMERS	_SC_TTY_NAME_MAX
_SC_TZNAME_MAX	_SC_VERSION
_SC_XBS5_ILP32_OFF32	_SC_XBS5_ILP32_OFFBIG
_SC_XBS5_LP64_OFF64	_SC_XBS5_LPBIG_OFFBIG
_SC_XOPEN_CRYPT	_SC_XOPEN_ENH_I18N
_SC_XOPEN_SHM	_SC_XOPEN_UNIX
_SC_XOPEN_VERSION	_SC_XOPEN_XCU_VERSION

The two constants `_SC_PAGESIZE` and `_SC_PAGE_SIZE` may be defined to have the same value.

The following symbolic constants are defined for the `fpathconf(2)` function:

_PC_ASYNC_IO	_PC_CHOWN_RESTRICTED
_PC_FILESIZEBITS	_PC_LINK_MAX
_PC_MAX_CANON	_PC_MAX_INPUT
_PC_NAME_MAX	_PC_NO_TRUNC
_PC_PATH_MAX	_PC_PIPE_BUF
_PC_PRIO_IO	_PC_SYNC_IO
_PC_VDISABLE	_PC_XATTR_ENABLED
_PC_XATTR_EXISTS	

The following symbolic constants are defined for file streams:

STDIN_FILENO	File number (0) of <code>stdin</code> .
STDOUT_FILENO	File number (1) of <code>stdout</code> .
STDERR_FILENO	File number (2) of <code>stderr</code> . The following pathnames are defined:
GF_PATH	Pathname of the group file.
PF_PATH	Pathname of the passwd file.

SEE ALSO `access(2)`, `exec(2)`, `fcntl(2)`, `fpathconf(2)`, `lseek(2)`, `confstr(3C)`, `lockf(3C)`, `sysconf(3C)`, `termios(3C)`, `group(4)`, `passwd(4)`, `standards(5)`, `termio(7I)`

values(3HEAD)

NAME	values – machine-dependent values
SYNOPSIS	#include <values.h>
DESCRIPTION	<p>This file contains a set of manifest constants, conditionally defined for particular processor architectures.</p> <p>The model assumed for integers is binary representation (one's or two's complement), where the sign is represented by the value of the high-order bit.</p>
BITS (type)	The number of bits in a specified type (for example, int).
HIBITS	The value of a short integer with only the high-order bit set.
HIBITL	The value of a long integer with only the high-order bit set.
HIBITI	The value of a regular integer with only the high-order bit set.
MAXSHORT	The maximum value of a signed short integer.
MAXLONG	The maximum value of a signed long integer.
MAXINT	The maximum value of a signed regular integer.
MAXFLOAT, LN_MAXFLOAT	The maximum value of a single-precision floating-point number, and its natural logarithm.
MAXDOUBLE, LN_MAXDOUBLE	The maximum value of a double-precision floating-point number, and its natural logarithm.
MINFLOAT, LN_MINFLOAT	The minimum positive value of a single-precision floating-point number, and its natural logarithm.
MINDOUBLE, LN_MINDOUBLE	The minimum positive value of a double-precision floating-point number, and its natural logarithm.
FSIGNIF	The number of significant bits in the mantissa of a single-precision floating-point number.
DSIGNIF	The number of significant bits in the mantissa of a double-precision floating-point number.

`values(3HEAD)`

SEE ALSO | `intro(3) math(3HEAD)`

varargs(3HEAD)

NAME	varargs – handle variable argument list
SYNOPSIS	<pre>#include <varargs.h> va_alist va_dcl va_list pvar; void va_start(va_list pvar); type va_arg(va_list pvar, type); void va_end(va_list pvar);</pre>
DESCRIPTION	<p>This set of macros allows portable procedures that accept variable argument lists to be written. Routines that have variable argument lists (such as <code>printf(3C)</code>) but do not use varargs are inherently non-portable, as different machines use different argument-passing conventions.</p> <p><code>va_alist</code> is used as the parameter list in a function header.</p> <p><code>va_dcl</code> is a declaration for <code>va_alist</code>. No semicolon should follow <code>va_dcl</code>.</p> <p><code>va_list</code> is a type defined for the variable used to traverse the list.</p> <p><code>va_start</code> is called to initialize <code>pvar</code> to the beginning of the list.</p> <p><code>va_arg</code> will return the next argument in the list pointed to by <code>pvar</code>. <code>type</code> is the type the argument is expected to be. Different types can be mixed, but it is up to the routine to know what type of argument is expected, as it cannot be determined at runtime.</p> <p><code>va_end</code> is used to clean up.</p> <p>Multiple traversals, each bracketed by <code>va_start</code> and <code>va_end</code>, are possible.</p>
EXAMPLES	<p>EXAMPLE 1 A sample program.</p> <p>This example is a possible implementation of <code>execl</code> (see <code>exec(2)</code>).</p> <pre>#include <unistd.h> #include <varargs.h> #define MAXARGS 100 /* execl is called by execl(file, arg1, arg2, ..., (char *)0); */ execl(va_alist) va_dcl { va_list ap; char *file; char *args[MAXARGS]; /* assumed big enough*/ int argno = 0; va_start(ap); file = va_arg(ap, char *); while ((args[argno++] = va_arg(ap, char *)) != 0)</pre>

EXAMPLE 1 A sample program. *(Continued)*

```
;  
va_end(ap);  
return execv(file, args);  
}
```

SEE ALSO exec(2), printf(3C), vprintf(3C), stdarg(3HEAD)

NOTES It is up to the calling routine to specify in some manner how many arguments there are, since it is not always possible to determine the number of arguments from the stack frame. For example, `exec1` is passed a zero pointer to signal the end of the list. `printf` can tell how many arguments are there by the format.

It is non-portable to specify a second argument of `char`, `short`, or `float` to `va_arg`, since arguments seen by the called function are not `char`, `short`, or `float`. C converts `char` and `short` arguments to `int` and converts `float` arguments to `double` before passing them to a function.

`stdarg` is the preferred interface.

wstat(3HEAD)

NAME	wstat – wait status
SYNOPSIS	#include <sys/wait.h>
DESCRIPTION	When a process waits for status from its children via either the <code>wait</code> or <code>waitpid</code> function, the status returned may be evaluated with the following macros, defined in <code><sys/wait.h></code> . These macros evaluate to integral expressions. The <i>stat</i> argument to these macros is the integer value returned from <code>wait</code> or <code>waitpid</code> .
WIFEXITED (<i>stat</i>)	Evaluates to a non-zero value if status was returned for a child process that terminated normally.
WEXITSTATUS (<i>stat</i>)	If the value of <code>WIFEXITED</code> (<i>stat</i>) is non-zero, this macro evaluates to the exit code that the child process passed to <code>_exit()</code> (see <code>exit(2)</code>) or <code>exit(3C)</code> , or the value that the child process returned from <code>main</code> .
WIFSIGNALED (<i>stat</i>)	Evaluates to a non-zero value if status was returned for a child process that terminated due to the receipt of a signal.
WTERMSIG (<i>stat</i>)	If the value of <code>WIFSIGNALED</code> (<i>stat</i>) is non-zero, this macro evaluates to the number of the signal that caused the termination of the child process.
WIFSTOPPED (<i>stat</i>)	Evaluates to a non-zero value if status was returned for a child process that is currently stopped.
WSTOPSIG (<i>stat</i>)	If the value of <code>WIFSTOPPED</code> (<i>stat</i>) is non-zero, this macro evaluates to the number of the signal that caused the child process to stop.
WIFCONTINUED (<i>stat</i>)	Evaluates to a non-zero value if status was returned for a child process that has continued.
WCOREDUMP (<i>stat</i>)	If the value of <code>WIFCONTINUED</code> (<i>stat</i>) is non-zero, this macro evaluates to a non-zero value if a core image of the terminated child was created.
SEE ALSO	<code>exit(2)</code> , <code>wait(2)</code> , <code>waitpid(2)</code> , <code>exit(3C)</code>

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