

!

!:	Connectives for test
!=:	String tests

%

%:	Numeric expressions
%b:	printf invocation
%q:	printf invocation

&

&:	Relations for expr
----	--------------------

*

*:	Numeric expressions
----	---------------------

+

+: +:	String expressions
+: +page_range:	Numeric expressions pr invocation

-

-:	Numeric expressions
-:	env invocation
- and Unix rm:	rm invocation
‘-’, removing files beginning with:	rm invocation
--:	Common options
--across:	pr invocation
--additional-suffix:	split invocation
--address-radix:	od invocation
--adjustment:	nice invocation
--all:	unexpand invocation
--all:	Which files are listed
--all:	df invocation
--all:	du invocation
--all:	stty invocation
--all:	who invocation
--all:	nproc invocation
--all:	uname invocation
--all-repeated:	uniq invocation
--almost-all:	Which files are listed
--apparent-size:	du invocation
--append:	tee invocation
--archive:	cp invocation
--attributes-only:	cp invocation
--author:	What information is

	listed
--auto-reference:	Output formatting in ptx
--backup:	Backup options
--backup:	cp invocation
--backup:	install invocation
--backup:	mv invocation
--backup:	ln invocation
--base16:	basenc invocation
--base2lsbf:	basenc invocation
--base2msbf:	basenc invocation
--base32:	basenc invocation
--base32hex:	basenc invocation
--base64:	basenc invocation
--base64url:	basenc invocation
--batch-size:	sort invocation
--before:	tac invocation
--binary:	md5sum invocation
--block-size:	Block size
--block-size:	df invocation
--block-size:	du invocation
--block-size=size:	Block size
--body-numbering:	nl invocation
--boot:	who invocation

<code>--bourne-shell:</code>	dircolors invocation
<code>--break-file:</code>	Input processing in ptx
<code>--buffer-size:</code>	sort invocation
<code>--bytes:</code>	fold invocation
<code>--bytes:</code>	head invocation
<code>--bytes:</code>	tail invocation
<code>--bytes:</code>	split invocation
<code>--bytes:</code>	wc invocation
<code>--bytes:</code>	cut invocation
<code>--bytes:</code>	du invocation
<code>--c-shell:</code>	dircolors invocation
<code>--cached=<i>mode</i>:</code>	stat invocation
<code>--canonicalize:</code>	readlink invocation
<code>--canonicalize-existing:</code>	readlink invocation
<code>--canonicalize-existing:</code>	realpath invocation
<code>--canonicalize-missing:</code>	readlink invocation
<code>--canonicalize-missing:</code>	realpath invocation
<code>--changes:</code>	chown invocation
<code>--changes:</code>	chgrp invocation
<code>--changes:</code>	chmod invocation
<code>--characters:</code>	cut invocation
<code>--chars:</code>	wc invocation
<code>--chdir:</code>	env invocation

--check:	sort invocation
--check:	sort invocation
--check-chars:	uniq invocation
--classify:	General output formatting
--color:	General output formatting
--columns:	pr invocation
--compare:	install invocation
--complement:	cut invocation
--compute:	runcon invocation
--context:	What information is listed
--context:	cp invocation
--context:	install invocation
--context:	mv invocation
--context:	mkdir invocation
--context:	mkfifo invocation
--context:	mknod invocation
--context:	id invocation
--count:	uniq invocation
--count:	who invocation
--count-links:	du invocation
--crown-margin:	fmt invocation

<code>--csh:</code>	dircolors invocation
<code>--data:</code>	sync invocation
<code>--date:</code>	touch invocation
<code>--date:</code>	Options for date
<code>--dead:</code>	who invocation
<code>--debug:</code>	Options for date
<code>--debug:</code>	env invocation
<code>--debug:</code>	numfmt invocation
<code>--decode:</code>	base64 invocation
<code>--delimiter:</code>	cut invocation
<code>--delimiter:</code>	numfmt invocation
<code>--delimiters:</code>	paste invocation
<code>--dereference:</code>	Which files are listed
<code>--dereference:</code>	cp invocation
<code>--dereference:</code>	chown invocation
<code>--dereference:</code>	chgrp invocation
<code>--dereference:</code>	du invocation
<code>--dereference:</code>	stat invocation
<code>--dereference:</code>	chcon invocation
<code>--dereference-args:</code>	du invocation
<code>--dereference-command-line:</code>	Which files are listed
<code>--dereference-command-line-</code> <code>symlink-to-dir:</code>	Which files are listed
<code>--dictionary-order:</code>	sort invocation

<code>--digits:</code>	csplit invocation
<code>--dir:</code>	rm invocation
<code>--directory:</code>	Which files are listed
<code>--directory:</code>	install invocation
<code>--directory:</code>	ln invocation
<code>--directory:</code>	mktemp invocation
<code>--dired:</code>	What information is listed
<code>--double-space:</code>	pr invocation
<code>--dry-run:</code>	mktemp invocation
<code>--echo:</code>	shuf invocation
<code>--elide-empty-files:</code>	split invocation
<code>--elide-empty-files:</code>	csplit invocation
<code>--endian:</code>	od invocation
<code>--equal-width:</code>	seq invocation
<code>--error:</code>	stdbuf invocation
<code>--escape:</code>	Formatting the file names
<code>--exact:</code>	shred invocation
<code>--exclude-from=<i>file</i>:</code>	du invocation
<code>--exclude-type:</code>	df invocation
<code>--exclude=<i>pattern</i>:</code>	du invocation
<code>--expand-tabs:</code>	pr invocation
<code>--field:</code>	numfmt invocation

<code>--field-separator:</code>	sort invocation
<code>--fields:</code>	cut invocation
<code>--file:</code>	stty invocation
<code>--file:</code>	Options for date
<code>--file-system:</code>	stat invocation
<code>--file-system:</code>	sync invocation
<code>--file-type:</code>	General output formatting
<code>--files0-from=<i>file</i>:</code>	wc invocation
<code>--files0-from=<i>file</i>:</code>	sort invocation
<code>--files0-from=<i>file</i>:</code>	du invocation
<code>--filter:</code>	split invocation
<code>--first-line-number:</code>	pr invocation
<code>--flag-truncation:</code>	Output formatting in ptx
<code>--follow:</code>	tail invocation
<code>--footer-numbering:</code>	nl invocation
<code>--force:</code>	cp invocation
<code>--force:</code>	mv invocation
<code>--force:</code>	rm invocation
<code>--force:</code>	shred invocation
<code>--force:</code>	ln invocation
<code>--foreground:</code>	timeout invocation
<code>--form-feed:</code>	pr invocation

<code>--format:</code>	od invocation
<code>--format:</code>	What information is listed
<code>--format:</code>	General output formatting
<code>--format:</code>	General output formatting
<code>--format:</code>	General output formatting
<code>--format:</code>	General output formatting
<code>--format:</code>	numfmt invocation
<code>--format:</code>	seq invocation
<code>--format=<i>format</i>:</code>	stat invocation
<code>--format=roff:</code>	Output formatting in ptx
<code>--format=tex:</code>	Output formatting in ptx
<code>--from:</code>	chown invocation
<code>--from:</code>	numfmt invocation
<code>--from-unit:</code>	numfmt invocation
<code>--full-time:</code>	What information is listed
<code>--gap-size:</code>	Output formatting in ptx

<code>--general-numeric-sort:</code>	sort invocation
<code>--goal:</code>	fmt invocation
<code>--group:</code>	uniq invocation
<code>--group:</code>	install invocation
<code>--group:</code>	id invocation
<code>--group-directories-first:</code>	Which files are listed
<code>--grouping:</code>	numfmt invocation
<code>--groups:</code>	id invocation
<code>--groups:</code>	chroot invocation
<code>--hardware-platform:</code>	uname invocation
<code>--head-count:</code>	shuf invocation
<code>--header:</code>	pr invocation
<code>--header:</code>	General options in join
<code>--header:</code>	numfmt invocation
<code>--header-numbering:</code>	nl invocation
<code>--header=N:</code>	numfmt invocation
<code>--heading:</code>	who invocation
<code>--help:</code>	Common options
<code>--hex-suffixes:</code>	split invocation
<code>--hide-control-chars:</code>	Formatting the file names
<code>--hide=<i>pattern</i>:</code>	Which files are listed
<code>--human-numeric-sort:</code>	sort invocation

<code>--human-readable:</code>	Block size
<code>--human-readable:</code>	What information is listed
<code>--human-readable:</code>	df invocation
<code>--human-readable:</code>	du invocation
<code>--hyperlink:</code>	General output formatting
<code>--ignore:</code>	nproc invocation
<code>--ignore-backups:</code>	Which files are listed
<code>--ignore-case:</code>	sort invocation
<code>--ignore-case:</code>	uniq invocation
<code>--ignore-case:</code>	Charset selection in ptx
<code>--ignore-case:</code>	General options in join
<code>--ignore-environment:</code>	env invocation
<code>--ignore-fail-on-non-empty:</code>	rmdir invocation
<code>--ignore-file:</code>	Input processing in ptx
<code>--ignore-garbage:</code>	base64 invocation
<code>--ignore-interrupts:</code>	tee invocation
<code>--ignore-leading-blanks:</code>	sort invocation
<code>--ignore-missing:</code>	md5sum invocation
<code>--ignore-nonprinting:</code>	sort invocation
<code>--ignore=<i>pattern</i>:</code>	Which files are listed

<code>--indent:</code>	pr invocation
<code>--indicator-style:</code>	General output formatting
<code>--indicator-style:</code>	General output formatting
<code>--indicator-style:</code>	General output formatting
<code>--indicator-style:</code>	General output formatting
<code>--initial:</code>	expand invocation
<code>--inode:</code>	What information is listed
<code>--inodes:</code>	df invocation
<code>--inodes:</code>	du invocation
<code>--input:</code>	stdbuf invocation
<code>--input-range:</code>	shuf invocation
<code>--interactive:</code>	cp invocation
<code>--interactive:</code>	mv invocation
<code>--interactive:</code>	rm invocation
<code>--interactive:</code>	ln invocation
<code>--invalid:</code>	numfmt invocation
<code>--io-blocks:</code>	truncate invocation
<code>--iso-8601[=<i>timespec</i>]:</code>	Options for date
<code>--iterations=<i>number</i>:</code>	shred invocation
<code>--join-blank-lines:</code>	nl invocation

<code>--join-lines:</code>	pr invocation
<code>--keep-files:</code>	csplit invocation
<code>--kernel-name:</code>	uname invocation
<code>--kernel-release:</code>	uname invocation
<code>--kernel-version:</code>	uname invocation
<code>--key:</code>	sort invocation
<code>--kibibytes:</code>	General output formatting
<code>--kill-after:</code>	timeout invocation
<code>--length:</code>	pr invocation
<code>--length:</code>	b2sum invocation
<code>--line-bytes:</code>	split invocation
<code>--line-increment:</code>	nl invocation
<code>--lines:</code>	head invocation
<code>--lines:</code>	tail invocation
<code>--lines:</code>	split invocation
<code>--lines:</code>	wc invocation
<code>--link:</code>	cp invocation
<code>--literal:</code>	Formatting the file names
<code>--local:</code>	df invocation
<code>--logical:</code>	ln invocation
<code>--logical:</code>	realpath invocation
<code>--logical:</code>	pwd invocation

<code>--login:</code>	who invocation
<code>--lookup:</code>	who invocation
<code>--machine:</code>	uname invocation
<code>--macro-name:</code>	Output formatting in ptx
<code>--max-depth=<i>depth</i>:</code>	du invocation
<code>--max-line-length:</code>	wc invocation
<code>--max-unchanged-stats:</code>	tail invocation
<code>--merge:</code>	pr invocation
<code>--merge:</code>	sort invocation
<code>--mesg:</code>	who invocation
<code>--message:</code>	who invocation
<code>--mode:</code>	install invocation
<code>--mode:</code>	mkdir invocation
<code>--mode:</code>	mkfifo invocation
<code>--mode:</code>	mknod invocation
<code>--month-sort:</code>	sort invocation
<code>--multiple:</code>	basename invocation
<code>--name:</code>	id invocation
<code>--no-clobber:</code>	cp invocation
<code>--no-clobber:</code>	mv invocation
<code>--no-create:</code>	touch invocation
<code>--no-create:</code>	truncate invocation
<code>--no-dereference:</code>	cp invocation

--no-dereference:	ln invocation
--no-dereference:	chown invocation
--no-dereference:	chgrp invocation
--no-dereference:	touch invocation
--no-dereference:	du invocation
--no-dereference:	chcon invocation
--no-file-warnings:	pr invocation
--no-group:	What information is listed
--no-newline:	readlink invocation
--no-preserve-root:	rm invocation
--no-preserve-root:	chown invocation
--no-preserve-root:	chgrp invocation
--no-preserve-root:	chmod invocation
--no-preserve-root:	chcon invocation
--no-renumber:	nl invocation
--no-symlinks:	realpath invocation
--no-sync:	df invocation
--no-target-directory:	Target directory
--no-target-directory:	cp invocation
--no-target-directory:	install invocation
--no-target-directory:	mv invocation
--no-target-directory:	ln invocation
--nodename:	uname invocation

--null:	du invocation
--null:	printenv invocation
--null:	env invocation
--number:	cat invocation
--number:	split invocation
--number-format:	nl invocation
--number-lines:	pr invocation
--number-nonblank:	cat invocation
--number-separator:	nl invocation
--number-width:	nl invocation
--numeric-sort:	sort invocation
--numeric-suffixes:	split invocation
--numeric-uid-gid:	What information is listed
--omit-header:	pr invocation
--omit-pagination:	pr invocation
--one-file-system:	cp invocation
--one-file-system:	rm invocation
--one-file-system:	du invocation
--only-delimited:	cut invocation
--only-file:	Input processing in ptx
--operating-system:	uname invocation
--output:	sort invocation

<code>--output:</code>	shuf invocation
<code>--output:</code>	df invocation
<code>--output:</code>	stdbuf invocation
<code>--output-delimiter:</code>	cut invocation
<code>--output-duplicates:</code>	od invocation
<code>--output-error:</code>	tee invocation
<code>--output-tabs:</code>	pr invocation
<code>--owner:</code>	install invocation
<code>--padding:</code>	numfmt invocation
<code>--pages=<i>page_range</i>:</code>	pr invocation
<code>--page_width:</code>	pr invocation
<code>--parallel:</code>	sort invocation
<code>--parents:</code>	cp invocation
<code>--parents:</code>	mkdir invocation
<code>--parents:</code>	rmdir invocation
<code>--physical:</code>	ln invocation
<code>--physical:</code>	realpath invocation
<code>--physical:</code>	pwd invocation
<code>--pid:</code>	tail invocation
<code>--portability:</code>	df invocation
<code>--portability:</code>	pathchk invocation
<code>--prefix:</code>	csplit invocation
<code>--preserve:</code>	cp invocation
<code>--preserve-context:</code>	install invocation

--preserve-root:	rm invocation
--preserve-root:	chown invocation
--preserve-root:	chgrp invocation
--preserve-root:	chmod invocation
--preserve-root:	chcon invocation
--preserve-status:	timeout invocation
--preserve-timestamps:	install invocation
--print-database:	dircolors invocation
--print-type:	df invocation
--printf= <i>format</i> :	stat invocation
--process:	who invocation
--processor:	uname invocation
--quiet:	head invocation
--quiet:	tail invocation
--quiet:	csplit invocation
--quiet:	md5sum invocation
--quiet:	readlink invocation
--quiet:	chown invocation
--quiet:	chgrp invocation
--quiet:	chmod invocation
--quiet:	mktemp invocation
--quiet:	realpath invocation
--quiet:	tty invocation
--quote-name:	Formatting the file

	names
--quoting-style:	Formatting the file names
--quoting-style:	Formatting the file names
--quoting-style:	Formatting the file names
--quoting-style:	Formatting the file names
--random-sort:	sort invocation
--random-source:	sort invocation
--random-source:	shuf invocation
--random-source:	shred invocation
--range:	chcon invocation
--range:	runcon invocation
--read-bytes:	od invocation
--real:	id invocation
--recursive:	Which files are listed
--recursive:	cp invocation
--recursive:	rm invocation
--recursive:	chown invocation
--recursive:	chgrp invocation
--recursive:	chmod invocation
--recursive:	chcon invocation

<code>--reference:</code>	chown invocation
<code>--reference:</code>	chgrp invocation
<code>--reference:</code>	chmod invocation
<code>--reference:</code>	touch invocation
<code>--reference:</code>	truncate invocation
<code>--reference:</code>	Options for date
<code>--reference:</code>	chcon invocation
<code>--references:</code>	Input processing in ptx
<code>--reflink[=<i>when</i>]:</code>	cp invocation
<code>--regex:</code>	tac invocation
<code>--relative:</code>	ln invocation
<code>--relative-base:</code>	realpath invocation
<code>--relative-base:</code>	Realpath usage examples
<code>--relative-to:</code>	realpath invocation
<code>--relative-to:</code>	Realpath usage examples
<code>--remove:</code>	shred invocation
<code>--remove-destination:</code>	cp invocation
<code>--remove=unlink:</code>	shred invocation
<code>--remove=wipe:</code>	shred invocation
<code>--remove=wipesync:</code>	shred invocation
<code>--repeat:</code>	shuf invocation

<code>--repeated:</code>	uniq invocation
<code>--retry:</code>	tail invocation
<code>--reverse:</code>	sort invocation
<code>--reverse:</code>	Sorting the output
<code>--rfc-2822:</code>	Options for date
<code>--rfc-3339=<i>timespec</i>:</code>	Options for date
<code>--rfc-822:</code>	Options for date
<code>--rfc-email:</code>	Options for date
<code>--right-side-refs:</code>	Output formatting in ptx
<code>--role:</code>	chcon invocation
<code>--role:</code>	runcon invocation
<code>--round:</code>	numfmt invocation
<code>--round=down:</code>	numfmt invocation
<code>--round=from-zero:</code>	numfmt invocation
<code>--round=nearest:</code>	numfmt invocation
<code>--round=towards-zero:</code>	numfmt invocation
<code>--round=up:</code>	numfmt invocation
<code>--runlevel:</code>	who invocation
<code>--save:</code>	stty invocation
<code>--section-delimiter:</code>	nl invocation
<code>--sentence-regexp:</code>	Input processing in ptx
<code>--sep-string:</code>	pr invocation

<code>--separate-dirs:</code>	du invocation
<code>--separator:</code>	tac invocation
<code>--separator:</code>	pr invocation
<code>--separator:</code>	split invocation
<code>--separator:</code>	seq invocation
<code>--serial:</code>	paste invocation
<code>--set:</code>	Options for date
<code>--sh:</code>	dircolors invocation
<code>--show-all:</code>	cat invocation
<code>--show-control-chars:</code>	pr invocation
<code>--show-control-chars:</code>	Formatting the file names
<code>--show-ends:</code>	cat invocation
<code>--show-nonprinting:</code>	cat invocation
<code>--show-nonprinting:</code>	pr invocation
<code>--show-tabs:</code>	cat invocation
<code>--si:</code>	Block size
<code>--si:</code>	What information is listed
<code>--si:</code>	df invocation
<code>--si:</code>	du invocation
<code>--signal:</code>	timeout invocation
<code>--silent:</code>	head invocation
<code>--silent:</code>	tail invocation

<code>--silent:</code>	csplit invocation
<code>--silent:</code>	readlink invocation
<code>--silent:</code>	chown invocation
<code>--silent:</code>	chgrp invocation
<code>--silent:</code>	chmod invocation
<code>--silent:</code>	tty invocation
<code>--size:</code>	What information is listed
<code>--size:</code>	truncate invocation
<code>--size=bytes:</code>	shred invocation
<code>--skip-bytes:</code>	od invocation
<code>--skip-chars:</code>	uniq invocation
<code>--skip-chdir:</code>	chroot invocation
<code>--skip-fields:</code>	uniq invocation
<code>--sleep-interval:</code>	tail invocation
<code>--sort:</code>	sort invocation
<code>--sort:</code>	sort invocation
<code>--sort:</code>	sort invocation
<code>--sort:</code>	sort invocation
<code>--sort:</code>	sort invocation
<code>--sort:</code>	Sorting the output
<code>--sort:</code>	Sorting the output
<code>--sort:</code>	Sorting the output
<code>--sort:</code>	Sorting the output

<code>--sort:</code>	Sorting the output
<code>--spaces:</code>	fold invocation
<code>--sparse=<i>when</i>:</code>	cp invocation
<code>--split-only:</code>	fmt invocation
<code>--split-string:</code>	env invocation
<code>--squeeze-blank:</code>	cat invocation
<code>--stable:</code>	sort invocation
<code>--starting-line-number:</code>	nl invocation
<code>--status:</code>	md5sum invocation
<code>--strict:</code>	md5sum invocation
<code>--strings:</code>	od invocation
<code>--strip:</code>	install invocation
<code>--strip:</code>	realpath invocation
<code>--strip-program:</code>	install invocation
<code>--strip-trailing-slashes:</code>	cp invocation
<code>--strip-trailing-slashes:</code>	mv invocation
<code>--suffix:</code>	Backup options
<code>--suffix:</code>	cp invocation
<code>--suffix:</code>	install invocation
<code>--suffix:</code>	mv invocation
<code>--suffix:</code>	ln invocation
<code>--suffix:</code>	basename invocation
<code>--suffix:</code>	mktemp invocation
<code>--suffix:</code>	numfmt invocation

<code>--suffix-format:</code>	csplit invocation
<code>--suffix-length:</code>	split invocation
<code>--summarize:</code>	du invocation
<code>--suppress-matched:</code>	csplit invocation
<code>--symbolic:</code>	ln invocation
<code>--symbolic-link:</code>	cp invocation
<code>--sync:</code>	df invocation
<code>--sysv:</code>	sum invocation
<code>--tabs:</code>	expand invocation
<code>--tabs:</code>	unexpand invocation
<code>--tabsize:</code>	General output formatting
<code>--tag:</code>	md5sum invocation
<code>--tagged-paragraph:</code>	fmt invocation
<code>--target-directory:</code>	Target directory
<code>--target-directory:</code>	cp invocation
<code>--target-directory:</code>	install invocation
<code>--target-directory:</code>	mv invocation
<code>--target-directory:</code>	ln invocation
<code>--temporary-directory:</code>	sort invocation
<code>--terse:</code>	stat invocation
<code>--text:</code>	md5sum invocation
<code>--threshold:</code>	du invocation
<code>--time:</code>	Sorting the output

<code>--time:</code>	Sorting the output
<code>--time:</code>	Sorting the output
<code>--time:</code>	touch invocation
<code>--time:</code>	touch invocation
<code>--time:</code>	du invocation
<code>--time:</code>	du invocation
<code>--time:</code>	du invocation
<code>--time:</code>	who invocation
<code>--time-style:</code>	Formatting file timestamps
<code>--time-style:</code>	du invocation
<code>--tmpdir:</code>	mktemp invocation
<code>--to:</code>	numfmt invocation
<code>--to-unit:</code>	numfmt invocation
<code>--total:</code>	df invocation
<code>--total:</code>	du invocation
<code>--traditional:</code>	od invocation
<code>--type:</code>	df invocation
<code>--type:</code>	chcon invocation
<code>--type:</code>	runcon invocation
<code>--unbuffered:</code>	split invocation
<code>--uniform-spacing:</code>	fmt invocation
<code>--unique:</code>	sort invocation
<code>--unique:</code>	uniq invocation

--universal:	Options for date
--unset:	env invocation
--update:	cp invocation
--update:	mv invocation
--user:	id invocation
--user:	chcon invocation
--user:	runcon invocation
--userspec:	chroot invocation
--utc:	Options for date
--verbose:	head invocation
--verbose:	tail invocation
--verbose:	split invocation
--verbose:	cp invocation
--verbose:	install invocation
--verbose:	mv invocation
--verbose:	rm invocation
--verbose:	shred invocation
--verbose:	ln invocation
--verbose:	mkdir invocation
--verbose:	readlink invocation
--verbose:	rmdir invocation
--verbose:	chown invocation
--verbose:	chgrp invocation
--verbose:	chmod invocation

<code>--verbose:</code>	chcon invocation
<code>--verbose:</code>	timeout invocation
<code>--version:</code>	Common options
<code>--version-sort:</code>	sort invocation
<code>--warn:</code>	md5sum invocation
<code>--width:</code>	od invocation
<code>--width:</code>	fmt invocation
<code>--width:</code>	pr invocation
<code>--width:</code>	fold invocation
<code>--width:</code>	Output formatting in ptx
<code>--width:</code>	General output formatting
<code>--word-regexp:</code>	Input processing in ptx
<code>--words:</code>	wc invocation
<code>--wrap:</code>	base64 invocation
<code>--writable:</code>	who invocation
<code>--z85:</code>	basenc invocation
<code>--zero:</code>	md5sum invocation
<code>--zero:</code>	shred invocation
<code>--zero:</code>	readlink invocation
<code>--zero:</code>	basename invocation
<code>--zero:</code>	dirname invocation

--zero:	realpath invocation
--zero:	id invocation
--zero-terminated:	head invocation
--zero-terminated:	tail invocation
--zero-terminated:	sort invocation
--zero-terminated:	shuf invocation
--zero-terminated:	uniq invocation
--zero-terminated:	comm invocation
--zero-terminated:	cut invocation
--zero-terminated:	paste invocation
--zero-terminated:	General options in join
--zero-terminated:	numfmt invocation
-0:	du invocation
-0:	printenv invocation
-0:	env invocation
-1:	comm invocation
-1:	General options in join
-1:	General output formatting
-2:	comm invocation
-2:	General options in join

-3:	comm invocation
-A:	cat invocation
-A:	od invocation
-a:	od invocation
-a:	pr invocation
-a:	split invocation
-A:	Output formatting in ptx
-a:	General options in join
-a:	unexpand invocation
-a:	Which files are listed
-A:	Which files are listed
-a:	cp invocation
-a:	touch invocation
-a:	df invocation
-a:	du invocation
-a:	Connectives for test
-a:	tee invocation
-a:	basename invocation
-a:	stty invocation
-a:	who invocation
-a:	uname invocation
-b:	Backup options

-b:	cat invocation
-b:	tac invocation
-b:	nl invocation
-b:	od invocation
-b:	fold invocation
-b:	split invocation
-b:	csplit invocation
-b:	md5sum invocation
-b:	sort invocation
-b:	Input processing in ptx
-b:	cut invocation
-B:	Which files are listed
-b:	Formatting the file names
-b:	dircolors invocation
-b:	cp invocation
-b:	install invocation
-b:	mv invocation
-b:	ln invocation
-B:	df invocation
-B:	du invocation
-b:	du invocation
-b:	File type tests

-b:	who invocation
-c:	od invocation
-c:	fmt invocation
-c:	pr invocation
-c:	head invocation
-c:	tail invocation
-C:	split invocation
-c:	wc invocation
-c:	sort invocation
-c:	sort invocation
-c:	shuf invocation
-c:	uniq invocation
-c:	cut invocation
-c:	Sorting the output
-C:	General output formatting
-c:	dircolors invocation
-C:	install invocation
-c:	install invocation
-c:	chown invocation
-c:	chgrp invocation
-c:	chmod invocation
-c:	touch invocation
-c:	du invocation

-C:	stat invocation
-C:	truncate invocation
-C:	File type tests
-C:	runcon invocation
-C:	env invocation
-column:	pr invocation
-d:	nl invocation
-d:	od invocation
-d:	base64 invocation
-d:	pr invocation
-d:	split invocation
-d:	sort invocation
-d:	uniq invocation
-D:	uniq invocation
-d:	cut invocation
-d:	paste invocation
-d:	Which files are listed
-D:	What information is listed
-d:	cp invocation
-D:	install invocation
-d:	install invocation
-d:	rm invocation
-d:	ln invocation

-d:	touch invocation
-D:	du invocation
-d:	File type tests
-d:	mktemp invocation
-d:	who invocation
-d:	Options for date
-d:	numfmt invocation
-d <i>depth</i> :	du invocation
-e:	cat invocation
-E:	cat invocation
-e:	pr invocation
-e:	split invocation
-e:	General options in join
-e:	readlink invocation
-e:	echo invocation
-E:	echo invocation
-e:	File characteristic tests
-e:	realpath invocation
-e:	stdbuf invocation
-ef:	File characteristic tests
-eq:	Numeric tests

-f:	nl invocation
-f:	od invocation
-F:	pr invocation
-f:	pr invocation
-f:	tail invocation
-F:	tail invocation
-f:	csplit invocation
-f:	sort invocation
-f:	uniq invocation
-f:	Charset selection in ptx
-F:	Output formatting in ptx
-f:	cut invocation
-f:	Sorting the output
-F:	General output formatting
-f:	cp invocation
-f:	mv invocation
-f:	rm invocation
-f:	shred invocation
-F:	ln invocation
-f:	ln invocation
-f:	readlink invocation

-f:	chown invocation
-f:	chgrp invocation
-f:	chmod invocation
-f:	touch invocation
-f:	stat invocation
-f:	File type tests
-F:	stty invocation
-f:	Options for date
-f:	seq invocation
-g:	fmt invocation
-g:	sort invocation
-g:	Output formatting in ptx
-g:	What information is listed
-G:	What information is listed
-g:	install invocation
-g:	Access permission tests
-G:	Access permission tests
-g:	stty invocation
-g:	id invocation
-G:	id invocation

-ge:	Numeric tests
-gt:	Numeric tests
-h:	Block size
-H:	Traversing symlinks
-h:	nl invocation
-h:	pr invocation
-h:	sort invocation
-H:	Which files are listed
-h:	What information is listed
-H:	cp invocation
-h:	chown invocation
-H:	chown invocation
-h:	chgrp invocation
-H:	chgrp invocation
-h:	touch invocation
-h:	df invocation
-H:	df invocation
-H:	du invocation
-h:	du invocation
-h:	File type tests
-H:	who invocation
-h:	chcon invocation
-H:	chcon invocation

-i:	nl invocation
-i:	od invocation
-i:	base64 invocation
-i:	pr invocation
-i:	sort invocation
-i:	shuf invocation
-i:	uniq invocation
-i:	Input processing in ptx
-i:	General options in join
-i:	expand invocation
-I:	Which files are listed
-i:	What information is listed
-i:	cp invocation
-i:	mv invocation
-i:	rm invocation
-I:	rm invocation
-i:	ln invocation
-i:	df invocation
-i:	tee invocation
-i:	uname invocation
-i:	env invocation

-i:	stdbuf invocation
-I[<i>timespec</i>]:	Options for date
-j:	od invocation
-J:	pr invocation
-k:	Block size
-k:	csplit invocation
-k:	sort invocation
-k:	General output formatting
-k:	df invocation
-k:	du invocation
-k:	Access permission tests
-k:	timeout invocation
-L:	Traversing symlinks
-l:	nl invocation
-l:	od invocation
-l:	pr invocation
-l:	split invocation
-l:	wc invocation
-L:	wc invocation
-l:	b2sum invocation
-L:	Which files are listed
-l:	What information is

	listed
-l:	cp invocation
-L:	cp invocation
-L:	ln invocation
-L:	chown invocation
-L:	chgrp invocation
-l:	df invocation
-L:	du invocation
-l:	du invocation
-L:	stat invocation
-L:	File type tests
-L:	realpath invocation
-L:	pwd invocation
-l:	who invocation
-L:	chcon invocation
-l:	chcon invocation
-l:	runcon invocation
-le:	Numeric tests
-lt:	Numeric tests
-m:	pr invocation
-m:	wc invocation
-m:	sort invocation
-M:	sort invocation
-M:	Output formatting in

	ptx
-m:	General output formatting
-m:	install invocation
-m:	mkdir invocation
-m:	mkfifo invocation
-m:	mknod invocation
-m:	readlink invocation
-m:	touch invocation
-m:	du invocation
-m:	realpath invocation
-m:	who invocation
-m:	uname invocation
-n:	cat invocation
-n:	nl invocation
-N:	od invocation
-n:	pr invocation
-N:	pr invocation
-n:	head invocation
-n:	tail invocation
-n:	split invocation
-n:	csplit invocation
-n:	sort invocation
-n:	shuf invocation

-n:	cut invocation
-n:	What information is listed
-N:	Formatting the file names
-n:	cp invocation
-n:	mv invocation
-n:	ln invocation
-n:	readlink invocation
-n:	echo invocation
-N:	File characteristic tests
-n:	String tests
-n:	id invocation
-n:	uname invocation
-n:	nice invocation
-n <i>number</i> :	shred invocation
-ne:	Numeric tests
-nt:	File characteristic tests
-o:	od invocation
-o:	pr invocation
-o:	sort invocation
-o:	shuf invocation

-o:	Input processing in ptx
-O:	Output formatting in ptx
-o:	What information is listed
-o:	install invocation
-o:	truncate invocation
-O:	Access permission tests
-o:	Connectives for test
-o:	uname invocation
-o:	stdbuf invocation
-ot:	File characteristic tests
-P:	Traversing symlinks
-p:	nl invocation
-p:	General output formatting
-p:	dircolors invocation
-P:	cp invocation
-p:	cp invocation
-p:	install invocation
-P:	ln invocation
-p:	mkdir invocation

-p:	rmdir invocation
-P:	chown invocation
-P:	chgrp invocation
-P:	df invocation
-P:	du invocation
-p:	File type tests
-p:	tee invocation
-p:	pathchk invocation
-P:	pathchk invocation
-p:	mktemp invocation
-P:	realpath invocation
-P:	pwd invocation
-p:	who invocation
-p:	uname invocation
-P:	chcon invocation
-q:	head invocation
-q:	tail invocation
-q:	csplit invocation
-q:	Formatting the file names
-Q:	Formatting the file names
-q:	readlink invocation
-q:	mktemp invocation

-q:	realpath invocation
-q:	who invocation
-r:	tac invocation
-r:	pr invocation
-r:	sum invocation
-r:	sort invocation
-R:	sort invocation
-r:	shuf invocation
-r:	Input processing in ptx
-R:	Output formatting in ptx
-R:	Which files are listed
-r:	Sorting the output
-R:	cp invocation
-r:	cp invocation
-r:	rm invocation
-R:	rm invocation
-r:	ln invocation
-R:	chown invocation
-R:	chgrp invocation
-R:	chmod invocation
-r:	touch invocation
-r:	truncate invocation

-r:	Access permission tests
-r:	id invocation
-r:	who invocation
-r:	Options for date
-R:	Options for date
-r:	uname invocation
-R:	chcon invocation
-r:	chcon invocation
-r:	runcon invocation
-S:	Backup options
-S:	cat invocation
-S:	tac invocation
-S:	nl invocation
-S:	od invocation
-S:	od invocation
-S:	fmt invocation
-S:	pr invocation
-S:	pr invocation
-S:	fold invocation
-S:	tail invocation
-S:	csplit invocation
-S:	sum invocation
-S:	sort invocation

-S:	sort invocation
-S:	uniq invocation
-S:	Input processing in ptx
-S:	cut invocation
-S:	paste invocation
-S:	What information is listed
-S:	Sorting the output
-S:	cp invocation
-S:	cp invocation
-S:	install invocation
-S:	install invocation
-S:	mv invocation
-S:	ln invocation
-S:	ln invocation
-S:	readlink invocation
-S:	du invocation
-S:	du invocation
-S:	truncate invocation
-S:	File type tests
-S:	File characteristic tests
-S:	basename invocation

-S:	realpath invocation
-S:	tty invocation
-S:	who invocation
-S:	Options for date
-S:	uname invocation
-S:	env invocation
-S:	timeout invocation
-S:	seq invocation
-s <i>bytes</i> :	shred invocation
-S, env and single quotes:	env invocation
-t:	cat invocation
-T:	cat invocation
-t:	od invocation
-t:	fmt invocation
-t:	pr invocation
-T:	pr invocation
-t:	split invocation
-t:	md5sum invocation
-t:	sort invocation
-T:	sort invocation
-T:	Output formatting in ptx
-t:	expand invocation
-t:	unexpand invocation

-t:	Sorting the output
-T:	General output formatting
-t:	cp invocation
-T:	cp invocation
-t:	install invocation
-T:	install invocation
-t:	mv invocation
-T:	mv invocation
-t:	ln invocation
-T:	ln invocation
-t:	df invocation
-T:	df invocation
-t:	du invocation
-t:	stat invocation
-t:	File type tests
-t:	mktemp invocation
-t:	who invocation
-T:	who invocation
-t:	chcon invocation
-t:	runcon invocation
-u:	cat invocation
-u:	fmt invocation
-u:	split invocation

-u:	sort invocation
-u:	uniq invocation
-u:	Sorting the output
-U:	Sorting the output
-u:	cp invocation
-u:	mv invocation
-u:	shred invocation
-u:	Access permission tests
-u:	mktemp invocation
-u:	id invocation
-u:	who invocation
-u:	Options for date
-u:	chcon invocation
-u:	runcon invocation
-u:	env invocation
-v:	cat invocation
-v:	nl invocation
-v:	od invocation
-v:	pr invocation
-v:	head invocation
-v:	tail invocation
-V:	sort invocation
-v:	Sorting the output

-v:	cp invocation
-v:	install invocation
-v:	mv invocation
-v:	rm invocation
-v:	shred invocation
-v:	ln invocation
-v:	mkdir invocation
-v:	readlink invocation
-v:	rmdir invocation
-v:	chown invocation
-v:	chgrp invocation
-v:	chmod invocation
-v:	uname invocation
-v:	chcon invocation
-v:	env invocation
-v:	timeout invocation
-w:	nl invocation
-w:	od invocation
-w:	base64 invocation
-w:	fmt invocation
-w:	pr invocation
-W:	pr invocation
-w:	fold invocation
-w:	wc invocation

-w:	md5sum invocation
-w:	uniq invocation
-W:	Input processing in ptx
-w:	Output formatting in ptx
-w:	General output formatting
-w:	Access permission tests
-w:	who invocation
-w:	seq invocation
-width:	fmt invocation
-x:	od invocation
-x:	split invocation
-X:	Sorting the output
-x:	General output formatting
-x:	cp invocation
-x:	shred invocation
-x:	df invocation
-x:	du invocation
-x:	Access permission tests
-X <i>file</i> :	du invocation

-Z:	head invocation
-Z:	tail invocation
-Z:	csplit invocation
-Z:	md5sum invocation
-Z:	sort invocation
-Z:	shuf invocation
-Z:	uniq invocation
-Z:	comm invocation
-Z:	cut invocation
-Z:	paste invocation
-Z:	General options in join
-Z:	What information is listed
-Z:	cp invocation
-Z:	install invocation
-Z:	mv invocation
-Z:	shred invocation
-Z:	mkdir invocation
-Z:	mkfifo invocation
-Z:	mknod invocation
-Z:	readlink invocation
-Z:	String tests
-Z:	basename invocation

-z:	dirname invocation
-z:	realpath invocation
-Z:	id invocation
-Z:	id invocation
-Z:	numfmt invocation

/

/:	Numeric expressions
----	---------------------

1

128-bit checksum:	md5sum invocation
16-bit checksum:	sum invocation
160-bit checksum:	sha1sum invocation

2

224-bit checksum:	sha2 utilities
256-bit checksum:	sha2 utilities

3

384-bit checksum:	sha2 utilities
-------------------	----------------

5

512-bit checksum:

b2sum invocation

512-bit checksum:

sha2 utilities

<

<:

Relations for expr

<=:

Relations for expr

=

=:

Relations for expr

=:

String tests

==:

Relations for expr

==:

String tests

>

>:

Relations for expr

>=:

Relations for expr

\

\(regexp operator:

String expressions

\+ regexp operator:

String expressions

\? regexp operator:

String expressions

\c:

printf invocation

<code>\ooo:</code>	printf invocation
<code>\uhhhh:</code>	printf invocation
<code>\Uhhhhhhhhh:</code>	printf invocation
<code>\xhh:</code>	printf invocation
<code>\ </code> regexp operator:	String expressions

—

<code>_POSIX2_VERSION:</code>	Standards conformance
<code>_POSIX2_VERSION:</code>	tail invocation
<code>_POSIX2_VERSION:</code>	sort invocation
<code>_POSIX2_VERSION:</code>	uniq invocation
<code>_POSIX2_VERSION:</code>	touch invocation

|

<code> :</code>	Relations for expr
-----------------	--------------------

A

abbreviations for months:	Calendar date items
access permission tests:	Access permission tests
access permissions, changing:	chmod invocation
access time, changing:	touch invocation

access timestamp:	dd invocation
access timestamp, printing or sorting files by:	Sorting the output
access timestamp, show the most recent:	du invocation
across columns:	pr invocation
across, listing files:	General output formatting
adding permissions:	Setting Permissions
addition:	Numeric expressions
ago in date strings:	Relative items in date strings
all lines, grouping:	uniq invocation
all repeated lines, outputting:	uniq invocation
alnum:	Character sets
alpha:	Character sets
alternate ebcdic, converting to:	dd invocation
always color option:	General output formatting
always hyperlink option:	General output formatting
always interactive option:	rm invocation
am i:	who invocation
am in date strings:	Time of day items
and operator:	Connectives for test

and operator:	Relations for expr
append:	dd invocation
appending to the output file:	dd invocation
appropriate privileges:	install invocation
appropriate privileges:	Setting the time
appropriate privileges:	hostname invocation
appropriate privileges:	nice invocation
arbitrary date strings, debugging:	Options for date
arbitrary date strings, parsing:	Options for date
arbitrary text, displaying:	echo invocation
arch:	arch invocation
arithmetic tests:	Numeric tests
ASCII dump of files:	od invocation
ascii, converting to:	dd invocation
atime:	File timestamps
atime, changing:	touch invocation
atime, printing or sorting files by:	Sorting the output
atime, show the most recent:	du invocation
attribute caching:	stat invocation
attributes, file:	Changing file attributes
authors of <code>parse_datetime</code> :	Authors of <code>parse_datetime</code>
auto color option:	General output

	formatting
auto hyperlink option:	General output formatting

B

b for block special file:	mknod invocation
b2sum:	b2sum invocation
background jobs, stopping at terminal write:	Local
backslash escapes:	Character sets
backslash escapes:	echo invocation
backslash escapes:	echo invocation
backslash sequences for file names:	Formatting the file names
backup files, ignoring:	Which files are listed
backup options:	Backup options
backup suffix:	Backup options
backups, making:	Backup options
backups, making:	cp invocation
backups, making:	install invocation
backups, making:	mv invocation
backups, making:	ln invocation
backups, making only:	cp invocation
base32:	base32 invocation

base32 encoding:	base32 invocation
base32 encoding:	basenc invocation
base64:	base64 invocation
Base64 decoding:	base64 invocation
base64 encoding:	base64 invocation
basename:	basename invocation
basenc:	basenc invocation
baud rate, setting:	Special
beeping at input buffer full:	Input
beginning of time:	Time conversion specifiers
beginning of time, for POSIX:	Seconds since the Epoch
Bellovin, Steven M.:	Authors of parse_datetime
Berets, Jim:	Authors of parse_datetime
Berry, K.:	Introduction
Berry, K.:	Authors of parse_datetime
binary:	dd invocation
binary I/O:	dd invocation
binary input files:	md5sum invocation
bind mount:	rm invocation
bind mount:	stat invocation

birth time, printing or sorting files by:	Sorting the output
birthtime:	File timestamps
BLAKE2:	b2sum invocation
BLAKE2 hash length:	b2sum invocation
blank:	Character sets
blank lines, numbering:	nl invocation
blanks, ignoring leading:	sort invocation
block (space-padding):	dd invocation
block size:	Block size
block size:	dd invocation
block size of conversion:	dd invocation
block size of input:	dd invocation
block size of output:	dd invocation
block special check:	File type tests
block special files:	mknod invocation
block special files, creating:	mknod invocation
BLOCKSIZE:	Block size
BLOCK_SIZE:	Block size
body, numbering:	nl invocation
Bourne shell syntax for color setup:	dircolors invocation
breaks, cause interrupts:	Input
breaks, ignoring:	Input
brkint:	Input

bs:	dd invocation
BSD output:	md5sum invocation
BSD sum:	sum invocation
BSD tail:	tail invocation
BSD touch compatibility:	touch invocation
bsn:	Output
btrfs file system type:	df invocation
bugs, reporting:	Introduction
built-in shell commands, conflicts with:	mknod invocation
built-in shell commands, conflicts with:	stat invocation
built-in shell commands, conflicts with:	echo invocation
built-in shell commands, conflicts with:	printf invocation
built-in shell commands, conflicts with:	test invocation
built-in shell commands, conflicts with:	pwd invocation
built-in shell commands, conflicts with:	nice invocation
built-in shell commands, conflicts with:	kill invocation
built-in shell commands, conflicts with:	sleep invocation

with:

byte count: [wc invocation](#)

byte-swapping: [od invocation](#)

byte-swapping: [dd invocation](#)

C

[c](#) for character special file: [mknod invocation](#)

C shell syntax for color setup: [dircolors invocation](#)

C-s/C-q flow control: [Input](#)

calendar date item: [Calendar date items](#)

calling combined multi-call program: [Multi-call invocation](#)

canonical file name: [readlink invocation](#)

canonical file name: [realpath invocation](#)

canonicalize a file name: [readlink invocation](#)

canonicalize a file name: [realpath invocation](#)

case folding: [sort invocation](#)

case translation: [Local](#)

case, ignored in dates: [General date syntax](#)

cat: [cat invocation](#)

cbreak: [Combination](#)

cbs: [dd invocation](#)

CD-ROM file system type: [df invocation](#)

cdfs file system type: [df invocation](#)

<code>cdtrdsr:</code>	Control
change or print terminal settings:	<code>stty</code> invocation
change SELinux context:	<code>chcon</code> invocation
changed files, verbosely describing:	<code>chgrp</code> invocation
changed owners, verbosely describing:	<code>chown</code> invocation
changing access permissions:	<code>chmod</code> invocation
changing file attributes:	Changing file attributes
changing file ownership:	<code>chown</code> invocation
changing file timestamps:	<code>touch</code> invocation
changing group ownership:	<code>chown</code> invocation
changing group ownership:	<code>chgrp</code> invocation
changing security context:	<code>chcon</code> invocation
changing special mode bits:	Changing Special Mode Bits
character classes:	Character sets
character count:	<code>wc</code> invocation
character size:	Control
character special check:	File type tests
character special files:	<code>mknod</code> invocation
character special files, creating:	<code>mknod</code> invocation
characters, special:	Characters
<code>chcon:</code>	<code>chcon</code> invocation

check file types:	test invocation
checking for sortedness:	sort invocation
checking for sortedness:	sort invocation
checksum, 128-bit:	md5sum invocation
checksum, 16-bit:	sum invocation
checksum, 160-bit:	sha1sum invocation
checksum, 224-bit:	sha2 utilities
checksum, 256-bit:	sha2 utilities
checksum, 384-bit:	sha2 utilities
checksum, 512-bit:	b2sum invocation
checksum, 512-bit:	sha2 utilities
chgrp:	chgrp invocation
chmod:	chmod invocation
chown:	chown invocation
chroot:	chroot invocation
cio:	dd invocation
cksum:	cksum invocation
clocal:	Control
clock skew:	Formatting file timestamps
clock skew:	File timestamps
clone:	cp invocation
cmspar:	Control
cntrl:	Character sets

color database, printing:	dircolors invocation
color setup:	dircolors invocation
color, distinguishing file types with:	General output formatting
cols:	Special
column to wrap data after:	base64 invocation
COLUMNS:	General output formatting
COLUMNS:	Special
columns:	Special
combination settings:	Combination
combined:	Multi-call invocation
combined date and time of day item:	Combined date and time of day items
comm:	comm invocation
command-line operands to shuffle:	shuf invocation
commands for controlling processes:	Process control
commands for delaying:	Delaying
commands for exit status:	Conditions
commands for file name manipulation:	File name manipulation
commands for invoking other commands:	Modified command invocation
commands for printing text:	Printing text
commands for printing the working	Working context

context:	
commands for printing user information:	User information
commands for redirection:	Redirection
commands for SELinux context:	SELinux context
commands for system context:	System context
commas, outputting between files:	General output formatting
comments, in dates:	General date syntax
common field, joining on:	join invocation
common lines:	comm invocation
common options:	Common options
compare values:	test invocation
comparing sorted files:	comm invocation
comparison operators:	Relations for expr
concatenate and write files:	cat invocation
concurrent I/O:	dd invocation
conditional executability:	Conditional Executability
conditions:	Conditions
conflicts with shell built-ins:	mknod invocation
conflicts with shell built-ins:	stat invocation
conflicts with shell built-ins:	echo invocation
conflicts with shell built-ins:	printf invocation

conflicts with shell built-ins:	test invocation
conflicts with shell built-ins:	pwd invocation
conflicts with shell built-ins:	nice invocation
conflicts with shell built-ins:	kill invocation
conflicts with shell built-ins:	sleep invocation
connectives, logical:	Connectives for test
connectives, logical:	Relations for expr
constant parity:	Control
context splitting:	csplit invocation
context, system:	System context
control characters, using ‘^C’:	Local
control settings:	Control
controlling terminal:	dd invocation
conv:	dd invocation
conversion block size:	dd invocation
conversion specifiers, date:	Date conversion specifiers
conversion specifiers, literal:	Literal conversion specifiers
conversion specifiers, time:	Time conversion specifiers
converting tabs to spaces:	expand invocation
converting while copying a file:	dd invocation
cooked:	Combination

Coordinated Universal Time:	Options for date
copy on write:	cp invocation
copying directories recursively:	cp invocation
copying directories recursively:	cp invocation
copying existing permissions:	Copying Permissions
copying files:	cat invocation
copying files and directories:	cp invocation
copying files and setting attributes:	install invocation
core utilities:	Top
count:	dd invocation
count_bytes:	dd invocation
COW:	cp invocation
cp:	cp invocation
crashes and corruption:	sync invocation
CRC checksum:	cksum invocation
cread:	Control
creating directories:	mkdir invocation
creating FIFOs (named pipes):	mkfifo invocation
creating links (hard only):	link invocation
creating links (hard or soft):	ln invocation
creating output file, avoiding:	dd invocation
creating output file, requiring:	dd invocation
creation timestamp, printing or sorting files by:	Sorting the output

<code>crn:</code>	Output
<code>crown margin:</code>	<code>fmt</code> invocation
<code>crt:</code>	Combination
<code>crterase:</code>	Local
<code>crtkill:</code>	Local
<code>crtsects:</code>	Control
<code>cs</code> syntax for color setup:	<code>dircolors</code> invocation
<code>csn:</code>	Control
<code>csplit:</code>	<code>csplit</code> invocation
<code>cstopb:</code>	Control
<code>ctime:</code>	File timestamps
<code>ctime</code> , printing or sorting by:	Sorting the output
<code>ctime</code> , show the most recent:	<code>du</code> invocation
<code>ctlecho:</code>	Local
current working directory, printing:	<code>pwd</code> invocation
<code>cut:</code>	<code>cut</code> invocation
cyclic redundancy check:	<code>cksum</code> invocation

D

data, erasing:	<code>shred</code> invocation
database for color setup, printing:	<code>dircolors</code> invocation
<code>date:</code>	<code>date</code> invocation
date and time of day format, ISO	Combined date and

8601:	time of day items
date conversion specifiers:	Date conversion specifiers
date format, ISO 8601:	Calendar date items
date input formats:	Date input formats
date options:	Options for date
date strings, debugging:	Options for date
date strings, parsing:	Options for date
day in date strings:	Relative items in date strings
day in date strings:	Relative items in date strings
day of week item:	Day of week items
dd:	dd invocation
ddrescue:	dd invocation
debugging date strings:	Options for date
debugging, env -S:	env invocation
dec:	Combination
decctlq:	Combination
Decode base64 data:	base64 invocation
delay for a specified time:	sleep invocation
delaying commands:	Delaying
deleting characters:	Squeezing and deleting

dereferencing symbolic links:	ln invocation
descriptor follow option:	tail invocation
destination directory:	Target directory
destination directory:	Target directory
destination directory:	cp invocation
destination directory:	cp invocation
destination directory:	install invocation
destination directory:	install invocation
destination directory:	mv invocation
destination directory:	mv invocation
destination directory:	ln invocation
destination directory:	ln invocation
destinations, multiple output:	tee invocation
device file, disk:	df invocation
df:	df invocation
DF_BLOCK_SIZE:	Block size
diagnostic:	chcon invocation
dictionary order:	sort invocation
differing lines:	comm invocation
digit:	Character sets
dir:	dir invocation
dircolors:	dircolors invocation
direct:	dd invocation
direct I/O:	dd invocation

directories, copying:	cp invocation
directories, copying recursively:	cp invocation
directories, copying recursively:	cp invocation
directories, creating:	mkdir invocation
directories, creating with given attributes:	install invocation
directories, removing:	rm invocation
directories, removing (recursively):	rm invocation
directories, removing empty:	rmdir invocation
directory:	dd invocation
directory check:	File type tests
directory components, printing:	dirname invocation
directory deletion, ignoring failures:	rmdir invocation
directory deletion, reporting:	rmdir invocation
directory I/O:	dd invocation
directory listing:	ls invocation
directory listing, brief:	dir invocation
directory listing, recursive:	Which files are listed
directory listing, verbose:	vdir invocation
directory order, listing by:	Sorting the output
directory, creating temporary:	mktemp invocation
directory, stripping from file names:	basename invocation
direct Emacs mode support:	What information is listed

dirname:	dirname invocation
disabling special characters:	Characters
disambiguating group names and IDs:	Disambiguating names and IDs
discard:	Characters
discarding file cache:	dd invocation
disk allocation:	What information is listed
disk device file:	df invocation
disk usage:	Disk usage
disk usage by file system:	df invocation
disk usage for files:	du invocation
disks, failing:	dd invocation
displacement of dates:	Relative items in date strings
displaying text:	echo invocation
displaying value of a symbolic link:	readlink invocation
division:	Numeric expressions
do nothing, successfully:	true invocation
do nothing, unsuccessfully:	false invocation
DOS file system:	df invocation
double spacing:	pr invocation
down columns:	pr invocation
drain:	Special

<code>dsusp:</code>	Characters
<code>dsync:</code>	<code>dd</code> invocation
DTR/DSR flow control:	Control
<code>du:</code>	<code>du</code> invocation
<code>DU_BLOCK_SIZE:</code>	Block size
DVD file system type:	<code>df</code> invocation

E

<code>ebcdic, converting to:</code>	<code>dd</code> invocation
<code>echo:</code>	<code>echo</code> invocation
<code>echo:</code>	Local
<code>echoctl:</code>	Local
<code>echoe:</code>	Local
<code>echok:</code>	Local
<code>echoke:</code>	Local
<code>echonl:</code>	Local
<code>echoprt:</code>	Local
effective user and group IDs, printing:	<code>id</code> invocation
effective user ID, printing:	<code>whoami</code> invocation
Eggert, Paul:	Authors of <code>parse_datetime</code>
eight-bit characters:	Control
eight-bit characters:	Combination

eight-bit input:	Input
ek:	Combination
empty files, creating:	touch invocation
empty lines, numbering:	nl invocation
endianness:	od invocation
entire files, output of:	Output of entire files
env:	env invocation
env -S, and single quotes:	env invocation
env -S, debugging:	env invocation
env in scripts:	env invocation
environment variables, printing:	printenv invocation
environment, printing:	env invocation
environment, running a program in a modified:	env invocation
eof:	Characters
eol:	Characters
eol2:	Characters
epoch, for POSIX:	Seconds since the Epoch
epoch, seconds since:	Time conversion specifiers
equal string check:	String tests
equal string check:	String tests
equivalence classes:	Character sets

erase:	Characters
erasing data:	shred invocation
error messages, omitting:	chown invocation
error messages, omitting:	chgrp invocation
error messages, omitting:	chmod invocation
evaluation of expressions:	expr invocation
even parity:	Control
evenp:	Combination
exabyte, definition of:	Block size
examples of date :	Examples of date
examples of expr :	Examples of expr
exbibyte, definition of:	Block size
excl:	dd invocation
excluding files from du :	du invocation
excluding files from du :	du invocation
executable file check:	Access permission tests
executables and file type, marking:	General output formatting
execute/search permission:	Mode Structure
execute/search permission, symbolic:	Setting Permissions
existence-of-file check:	File characteristic tests
existing backup method:	Backup options

exit status commands:	Conditions
exit status of <code>chroot</code> :	<code>chroot</code> invocation
exit status of <code>env</code> :	<code>env</code> invocation
exit status of <code>expr</code> :	<code>expr</code> invocation
exit status of <code>false</code> :	<code>false</code> invocation
exit status of <code>ls</code> :	<code>ls</code> invocation
exit status of <code>mktemp</code> :	<code>mktemp</code> invocation
exit status of <code>nice</code> :	<code>nice</code> invocation
exit status of <code>nohup</code> :	<code>nohup</code> invocation
exit status of <code>pathchk</code> :	<code>pathchk</code> invocation
exit status of <code>printenv</code> :	<code>printenv</code> invocation
exit status of <code>realpath</code> :	<code>realpath</code> invocation
exit status of <code>runcon</code> :	<code>runcon</code> invocation
exit status of <code>sort</code> :	<code>sort</code> invocation
exit status of <code>stdbuf</code> :	<code>stdbuf</code> invocation
exit status of <code>test</code> :	<code>test</code> invocation
exit status of <code>timeout</code> :	<code>timeout</code> invocation
exit status of <code>true</code> :	<code>true</code> invocation
exit status of <code>tty</code> :	<code>tty</code> invocation
<code>expand</code> :	<code>expand</code> invocation
<code>expr</code> :	<code>expr</code> invocation
expression evaluation:	<code>test</code> invocation
expression evaluation:	<code>expr</code> invocation
expressions, numeric:	Numeric expressions

expressions, string:	String expressions
ext2 file system type:	df invocation
ext3 file system type:	df invocation
ext4 file system type:	df invocation
extended attributes, xattr:	install invocation
extended attributes, xattr:	mv invocation
extension, sorting files by:	Sorting the output
extproc:	Local

F

factor:	factor invocation
failure exit status:	false invocation
false:	false invocation
fat file system file:	df invocation
fdatasync:	dd invocation
ffn:	Output
field separator character:	sort invocation
fields, padding numeric:	Padding and other flags
FIFOs, creating:	mkfifo invocation
file attributes, changing:	Changing file attributes
file characteristic tests:	File characteristic tests

file contents, dumping unambiguously:	od invocation
file information, preserving:	cp invocation
file information, preserving, extended attributes, xattr:	cp invocation
file mode bits, numeric:	Numeric Modes
file name manipulation:	File name manipulation
file names, canonicalization:	realpath invocation
file names, checking validity and portability:	pathchk invocation
file names, creating temporary:	mktemp invocation
file names, stripping directory and suffix:	basename invocation
file offset radix:	od invocation
file ownership, changing:	chown invocation
file sizes:	du invocation
file space usage:	du invocation
file status:	stat invocation
file system disk usage:	df invocation
file system sizes:	df invocation
file system space, retrieving current data more slowly:	df invocation
file system space, retrieving old data more quickly:	df invocation

file system status:	stat invocation
file system types, limiting output to certain:	df invocation
file system types, limiting output to certain:	df invocation
file system types, printing:	df invocation
file systems:	stat invocation
file systems and hard links:	ln invocation
file systems, omitting copying to different:	cp invocation
file timestamp resolution:	File timestamps
file timestamps, changing:	touch invocation
file type and executables, marking:	General output formatting
file type tests:	File type tests
file type, marking:	General output formatting
file type, marking:	General output formatting
file types:	Special file types
file types, special:	Special file types
file utilities:	Top
files beginning with ‘-’, removing:	rm invocation
files, copying:	cp invocation
files, creating:	truncate invocation

fingerprint, 128-bit:	md5sum invocation
fingerprint, 160-bit:	sha1sum invocation
fingerprint, 224-bit:	sha2 utilities
fingerprint, 256-bit:	sha2 utilities
fingerprint, 384-bit:	sha2 utilities
fingerprint, 512-bit:	b2sum invocation
fingerprint, 512-bit:	sha2 utilities
first in date strings:	General date syntax
first part of files, outputting:	head invocation
fixed-length records, converting to variable-length:	dd invocation
floating point:	Floating point
flow control, hardware:	Control
flow control, hardware:	Control
flow control, software:	Input
flush :	Characters
flushing, disabling:	Local
flusho :	Local
fmt :	fmt invocation
fold :	fold invocation
folding long input lines:	fold invocation
footers, numbering:	nl invocation
force deletion:	shred invocation
formatting file contents:	Formatting file

	contents
formatting of numbers in <code>seq</code> :	<code>seq</code> invocation
formatting times:	<code>pr</code> invocation
formatting times:	date invocation
<code>fortnight</code> in date strings:	Relative items in date strings
<code>fsync</code> :	<code>dd</code> invocation
<code>fullblock</code> :	<code>dd</code> invocation

G

general date syntax:	General date syntax
general numeric sort:	sort invocation
gibibyte, definition of:	Block size
gigabyte, definition of:	Block size
giving away permissions:	Umask and Protection
GMT:	Options for date
grand total of disk size, usage and available space:	<code>df</code> invocation
grand total of disk space:	<code>du</code> invocation
<code>graph</code> :	Character sets
Greenwich Mean Time:	Options for date
group IDs, disambiguating:	Disambiguating names and IDs

group names, disambiguating:	Disambiguating names and IDs
group owner, default:	Mode Structure
group ownership of installed files, setting:	install invocation
group ownership, changing:	chown invocation
group ownership, changing:	chgrp invocation
group, permissions for:	Setting Permissions
groups:	groups invocation
growing files:	tail invocation

H

hangups, immunity to:	nohup invocation
hard link check:	File characteristic tests
hard link, defined:	ln invocation
hard links:	dd invocation
hard links to directories:	ln invocation
hard links to symbolic links:	ln invocation
hard links, counting in du:	du invocation
hard links, creating:	link invocation
hard links, creating:	ln invocation
hard links, preserving:	cp invocation
hardware class:	uname invocation

hardware flow control:	Control
hardware flow control:	Control
hardware platform:	uname invocation
hardware type:	uname invocation
hat notation for control characters:	Local
head:	head invocation
head of output:	shuf invocation
headers, numbering:	nl invocation
help, online:	Common options
hex dump of files:	od invocation
holes, copying files with:	cp invocation
holes, creating files with:	truncate invocation
horizontal, listing files:	General output formatting
host processor type:	uname invocation
hostid:	hostid invocation
hostname:	hostname invocation
hostname:	uname invocation
hour in date strings:	Relative items in date strings
human numeric sort:	sort invocation
human-readable output:	Block size
human-readable output:	What information is listed

human-readable output:	df invocation
human-readable output:	du invocation
hup[c1]:	Control
hurd, author, printing:	What information is listed
hyperlink, linking to files:	General output formatting

I

ibs:	dd invocation
icanon:	Local
icrnl:	Input
id:	id invocation
idle time:	who invocation
IEEE floating point:	Floating point
iexten:	Local
if:	dd invocation
iflag:	dd invocation
ignbrk:	Input
igncr:	Input
ignore file systems:	df invocation
Ignore garbage in base64 stream:	base64 invocation
ignoring case:	sort invocation
ignpar:	Input

imaxbel:	Input
immunity to hangups:	nohup invocation
implementation, hardware:	uname invocation
indenting lines:	pr invocation
index:	String expressions
information, about current users:	who invocation
initial part of files, outputting:	head invocation
initial tabs, converting:	expand invocation
inlcr:	Input
inode number, printing:	What information is listed
inode usage:	df invocation
inode usage, dereferencing in du :	du invocation
inode, and hard links:	ln invocation
inodes, written buffered:	sync invocation
inpck:	Input
input block size:	dd invocation
input encoding, UTF-8:	Input
input range to shuffle:	shuf invocation
input settings:	Input
input tabs:	pr invocation
install:	install invocation
intr:	Characters
invocation of commands, modified:	Modified command

	invocation
isig:	Local
ISO 8601 date and time of day format:	Combined date and time of day items
ISO 8601 date format:	Calendar date items
ISO/IEC 10646:	printf invocation
ISO9660 file system type:	df invocation
iso9660 file system type:	df invocation
ispeed:	Special
istrip:	Input
items in date strings:	General date syntax
iterations, selecting the number of:	shred invocation
iuc1c:	Input
iutf8:	Input
ixany:	Input
ixoff:	Input
ixon:	Input

J

join:	join invocation
--------------	-----------------

K

kernel name:	uname invocation
--------------	------------------

kernel release:	uname invocation
kernel version:	uname invocation
kibibyte, definition of:	Block size
kibibytes for file sizes:	du invocation
kibibytes for file system sizes:	df invocation
kill:	kill invocation
kill:	Characters
kilobyte, definition of:	Block size
Knuth, Donald E.:	fmt invocation

L

language, in dates:	General date syntax
language, in dates:	General date syntax
last <i>day</i> :	Day of week items
last <i>day</i> :	Options for date
last in date strings:	General date syntax
last modified dates, displaying in du:	du invocation
last part of files, outputting:	tail invocation
lcase:	Combination
LCASE:	Combination
lcase, converting to:	dd invocation
lchown:	chown invocation
lchown:	chown invocation

lchown:	chgrp invocation
lchown:	chgrp invocation
LC_ALL:	sort invocation
LC_ALL:	ls invocation
LC_COLLATE:	sort invocation
LC_COLLATE:	uniq invocation
LC_COLLATE:	comm invocation
LC_COLLATE:	Sorting files for join
LC_COLLATE:	Relations for expr
LC_CTYPE:	sort invocation
LC_CTYPE:	sort invocation
LC_CTYPE:	sort invocation
LC_CTYPE:	sort invocation
LC_CTYPE:	printf invocation
LC_MESSAGES:	pr invocation
LC_NUMERIC:	Block size
LC_NUMERIC:	Floating point
LC_NUMERIC:	sort invocation
LC_NUMERIC:	sort invocation
LC_NUMERIC:	sort invocation
LC_NUMERIC:	printf invocation
LC_TIME:	pr invocation
LC_TIME:	sort invocation
LC_TIME:	Formatting file

	timestamps
LC_TIME:	Formatting file timestamps
LC_TIME:	Formatting file timestamps
LC_TIME:	du invocation
LC_TIME:	date invocation
leading directories, creating missing:	install invocation
leading directory components, stripping:	basename invocation
leap seconds:	touch invocation
leap seconds:	Time conversion specifiers
leap seconds:	Time conversion specifiers
leap seconds:	Options for date
leap seconds:	Examples of date
leap seconds:	General date syntax
leap seconds:	Time of day items
leap seconds:	Seconds since the Epoch
left margin:	pr invocation
length:	String expressions
limiting output of du:	du invocation
line:	Special

line buffered:	stdbuf invocation
line count:	wc invocation
line numbering:	nl invocation
line separator character:	split invocation
line settings of terminal:	stty invocation
line-breaking:	fmt invocation
line-by-line comparison:	comm invocation
LINES:	Special
link:	link invocation
links, creating:	link invocation
links, creating:	ln invocation
Linux file system types:	df invocation
literal conversion specifiers:	Literal conversion specifiers
litout:	Combination
ln:	ln invocation
ln format for nl:	nl invocation
lnext:	Characters
local file system types:	df invocation
local settings:	Local
logging out and continuing to run:	nohup invocation
logical and operator:	Connectives for test
logical and operator:	Relations for expr
logical connectives:	Connectives for test

logical connectives:	Relations for expr
logical or operator:	Connectives for test
logical or operator:	Relations for expr
logical pages, numbering on:	nl invocation
login name, printing:	logname invocation
login sessions, printing users with:	users invocation
login time:	who invocation
logname:	logname invocation
long ls format:	What information is listed
lower:	Character sets
lowercase, translating to output:	Output
ls:	ls invocation
LS_BLOCK_SIZE:	Block size
LS_COLORS:	General output formatting
LS_COLORS:	dircolors invocation
lutimes:	touch invocation

M

machine type:	uname invocation
machine-readable stty output:	stty invocation
MacKenzie, D.:	Introduction
MacKenzie, David:	Authors of

	parse_datetime
Makefiles, installing programs in:	install invocation
manipulating files:	Basic operations
manipulation of file names:	File name manipulation
mark parity:	Control
match:	String expressions
matching patterns:	String expressions
MD5:	md5sum invocation
md5sum:	md5sum invocation
mebibyte, definition of:	Block size
mebibytes for file sizes:	du invocation
megabyte, definition of:	Block size
merging files:	paste invocation
merging files in parallel:	pr invocation
merging sorted files:	sort invocation
message status:	who invocation
message-digest, 128-bit:	md5sum invocation
message-digest, 160-bit:	sha1sum invocation
message-digest, 224-bit:	sha2 utilities
message-digest, 256-bit:	sha2 utilities
message-digest, 384-bit:	sha2 utilities
message-digest, 512-bit:	b2sum invocation
message-digest, 512-bit:	sha2 utilities

Meyering, J.:	Introduction
Meyering, Jim:	Authors of <code>parse_datetime</code>
<code>midnight</code> in date strings:	Time of day items
<code>min</code> :	Special
<code>minute</code> in date strings:	Relative items in date strings
minutes, time zone correction by:	Time of day items
<code>mkdir</code> :	<code>mkdir</code> invocation
<code>mkfifo</code> :	<code>mkfifo</code> invocation
<code>mknod</code> :	<code>mknod</code> invocation
<code>mktemp</code> :	<code>mktemp</code> invocation
modem control:	Control
modes and umask:	Umask and Protection
modes of created directories, setting:	<code>mkdir</code> invocation
modes of created FIFOs, setting:	<code>mkfifo</code> invocation
<code>modification_timestamp</code> , sorting files by:	Sorting the output
modified command invocation:	Modified command invocation
modified environment, running a program in a:	<code>env</code> invocation
<code>modify</code> time, changing:	<code>touch</code> invocation
<code>month</code> in date strings:	Relative items in date

	strings
month names in date strings:	Calendar date items
months, sorting by:	sort invocation
months, written-out:	General date syntax
MS-DOS file system:	df invocation
MS-Windows file system:	df invocation
mtime:	File timestamps
mtime, changing:	touch invocation
mtime-greater-atime file check:	File characteristic tests
multicall:	Multi-call invocation
multicolumn output, generating:	pr invocation
multiple changes to permissions:	Multiple Changes
multiplication:	Numeric expressions
multipliers after numbers:	dd invocation
multithreaded sort:	sort invocation
mv:	mv invocation

N

name follow option:	tail invocation
name of kernel:	uname invocation
named pipe check:	File type tests
named pipes, creating:	mkfifo invocation

network node name:	uname invocation
never interactive option:	rm invocation
newer files, copying only:	cp invocation
newer files, moving only:	mv invocation
newer-than file check:	File characteristic tests
newline echoing after kill :	Local
newline, echoing:	Local
newline, translating to crlf:	Output
newline, translating to return:	Input
next <i>day</i> :	Day of week items
next <i>day</i> :	Options for date
next in date strings:	General date syntax
NFS file system type:	df invocation
NFS mounts from BSD to HP-UX:	What information is listed
NFS mounts from BSD to HP-UX:	du invocation
nice :	nice invocation
niceness:	nice invocation
nl :	nl invocation
nl :	Combination
nl <i>n</i> :	Output
no dereference:	chcon invocation
no-op:	true invocation

<code>noatime:</code>	dd invocation
<code>nocache:</code>	dd invocation
<code>nocreat:</code>	dd invocation
<code>noctty:</code>	dd invocation
<code>node name:</code>	uname invocation
<code>noerror:</code>	dd invocation
<code>noflsh:</code>	Local
<code>nofollow:</code>	dd invocation
<code>nohup:</code>	nohup invocation
<code>nohup.out:</code>	nohup invocation
<code>nohup.out:</code>	nohup invocation
<code>nolinks:</code>	dd invocation
<code>non-directories, copying as special files:</code>	cp invocation
<code>non-directories, copying as special files:</code>	cp invocation
<code>non-directory suffix, stripping:</code>	dirname invocation
<code>nonblock:</code>	dd invocation
<code>nonblocking I/O:</code>	dd invocation
<code>nonblocking stty setting:</code>	Special
<code>none backup method:</code>	Backup options
<code>none color option:</code>	General output formatting
<code>none dd status=:</code>	dd invocation

<code>none</code> <code>hyperlink</code> option:	General output formatting
<code>none</code> , sorting option for <code>ls</code> :	Sorting the output
<code>nonempty</code> file check:	File characteristic tests
<code>nonprinting</code> characters, ignoring:	<code>sort</code> invocation
<code>nonzero-length</code> string check:	String tests
<code>noon</code> in date strings:	Time of day items
<code>not-equal</code> string check:	String tests
<code>notrunc</code> :	<code>dd</code> invocation
<code>now</code> in date strings:	Relative items in date strings
<code>noxfcr</code> <code>dd</code> status=:	<code>dd</code> invocation
<code>NO_NEW_PRIVS</code> :	<code>runcon</code> invocation
<code>nproc</code> :	<code>nproc</code> invocation
NTFS file system:	<code>df</code> invocation
<code>ntfs</code> file system file:	<code>df</code> invocation
number of inputs to merge, <code>nmerge</code> :	<code>sort</code> invocation
<code>numbered</code> backup method:	Backup options
numbering lines:	<code>nl</code> invocation
numbers, written-out:	General date syntax
numeric expressions:	Numeric expressions
numeric field padding:	Padding and other flags

numeric modes:	Numeric Modes
numeric operations:	Numeric operations
numeric sequences:	seq invocation
numeric sort:	sort invocation
numeric tests:	Numeric tests
numeric uid and gid:	What information is listed
numeric user and group IDs:	What information is listed
numfmt:	numfmt invocation

O

obs:	dd invocation
ocrnl:	Output
octal dump of files:	od invocation
octal numbers for file modes:	Numeric Modes
od:	od invocation
odd parity:	Control
oddp:	Combination
of:	dd invocation
ofdel:	Output
ofill:	Output
oflag:	dd invocation
olcuc:	Output

older-than file check:	File characteristic tests
once interactive option:	rm invocation
one file system, restricting du to:	du invocation
one file system, restricting rm to:	rm invocation
one-line output format:	df invocation
onlcr:	Output
onlret:	Output
onocr:	Output
operating on characters:	Operating on characters
operating on sorted files:	Operating on sorted files
operating system name:	uname invocation
opost:	Output
option delimiter:	Common options
options for date:	Options for date
or operator:	Connectives for test
or operator:	Relations for expr
ordinal numbers:	General date syntax
ospeed:	Special
other permissions:	Setting Permissions
output block size:	dd invocation
output file name prefix:	split invocation

output file name prefix:	csplit invocation
output file name suffix:	csplit invocation
output format:	stat invocation
output format:	stat invocation
output format, portable:	df invocation
output NUL-byte-terminated lines:	md5sum invocation
output NUL-byte-terminated lines:	readlink invocation
output NUL-byte-terminated lines:	du invocation
output NUL-byte-terminated lines:	basename invocation
output NUL-byte-terminated lines:	dirname invocation
output NUL-byte-terminated lines:	realpath invocation
output NUL-byte-terminated lines:	printenv invocation
output NUL-byte-terminated lines:	env invocation
output of entire files:	Output of entire files
output of parts of files:	Output of parts of files
output settings:	Output
output tabs:	pr invocation
overwriting of input, allowed:	sort invocation
overwriting of input, allowed:	shuf invocation
owned by effective group ID check:	Access permission tests
owned by effective user ID check:	Access permission tests

owner of file, permissions for:	Setting Permissions
owner, default:	Mode Structure
ownership of installed files, setting:	install invocation

P

p for FIFO file:	mknod invocation
pad character:	Output
pad instead of timing for delaying:	Output
padding of numeric fields:	Padding and other flags
paragraphs, reformatting:	fmt invocation
parenb:	Control
parent directories and cp:	cp invocation
parent directories, creating:	mkdir invocation
parent directories, creating missing:	install invocation
parent directories, removing:	rmdir invocation
parentheses for grouping:	expr invocation
parity:	Combination
parity errors, marking:	Input
parity, ignoring:	Input
parmrk:	Input
parodd:	Control
parse_datetime:	Date input formats

parsing date strings:	Options for date
parts of files, output of:	Output of parts of files
pass8:	Combination
paste:	paste invocation
Paterson, R.:	Introduction
PATH:	env invocation
pathchk:	pathchk invocation
pattern matching:	String expressions
pebibyte, definition of:	Block size
permission tests:	Access permission tests
permissions of installed files, setting:	install invocation
permissions, changing access:	chmod invocation
permissions, copying existing:	Copying Permissions
permissions, for changing file timestamps:	touch invocation
permissions, output by ls:	What information is listed
petabyte, definition of:	Block size
phone directory order:	sort invocation
pieces, splitting a file into:	split invocation
Pinard, F.:	Introduction
Pinard, F.:	Authors of parse_datetime

pipe fitting:	tee invocation
Plass, Michael F.:	fmt invocation
platform, hardware:	uname invocation
pm in date strings:	Time of day items
portable file names, checking for:	pathchk invocation
portable output format:	df invocation
POSIX:	Introduction
POSIX output format:	df invocation
POSIXLY_CORRECT:	Common options
POSIXLY_CORRECT:	Standards
	conformance
POSIXLY_CORRECT:	pr invocation
POSIXLY_CORRECT:	sort invocation
POSIXLY_CORRECT:	sort invocation
POSIXLY_CORRECT:	dd invocation
POSIXLY_CORRECT:	echo invocation
POSIXLY_CORRECT:	printf invocation
POSIXLY_CORRECT:	id invocation
POSIXLY_CORRECT, and block size:	Block size
pr:	pr invocation
prime factors:	factor invocation
print:	Character sets
print machine hardware name:	arch invocation
print name of current directory:	pwd invocation

print system information:	uname invocation
print terminal file name:	tty invocation
Print the number of processors:	nproc invocation
printenv:	printenv invocation
printf:	printf invocation
printing all or some environment variables:	printenv invocation
printing color database:	dircolors invocation
printing current user information:	who invocation
printing current usernames:	users invocation
printing groups a user is in:	groups invocation
printing real and effective user and group IDs:	id invocation
printing text:	echo invocation
printing text, commands for:	Printing text
printing the current time:	date invocation
printing the effective user ID:	whoami invocation
printing the host identifier:	hostid invocation
printing the hostname:	hostname invocation
printing the system uptime and load:	uptime invocation
printing user's login name:	logname invocation
printing, preparing files for:	pr invocation
process zero-terminated items:	head invocation
process zero-terminated items:	tail invocation

process zero-terminated items:	sort invocation
process zero-terminated items:	shuf invocation
process zero-terminated items:	uniq invocation
process zero-terminated items:	comm invocation
process zero-terminated items:	cut invocation
process zero-terminated items:	paste invocation
process zero-terminated items:	General options in join
process zero-terminated items:	numfmt invocation
processes, commands for controlling:	Process control
progress dd status=:	dd invocation
prompting, and ln:	ln invocation
prompting, and mv:	mv invocation
prompting, and rm:	rm invocation
prompts, forcing:	mv invocation
prompts, omitting:	mv invocation
prompts, omitting:	mv invocation
prterase:	Local
ptx:	ptx invocation
punct:	Character sets
pure numbers in date strings:	Pure numbers in date strings
pwd:	pwd invocation

Q

<code>quit:</code>	Characters
<code>quoting style:</code>	Formatting the file names

R

<code>radix for file offsets:</code>	<code>od</code> invocation
<code>random seed:</code>	Random sources
<code>random sort:</code>	<code>sort</code> invocation
<code>random source for shredding:</code>	<code>shred</code> invocation
<code>random source for shuffling:</code>	<code>shuf</code> invocation
<code>random source for sorting:</code>	<code>sort</code> invocation
<code>random sources:</code>	Random sources
<code>ranges:</code>	Character sets
<code>raw:</code>	Combination
<code>read errors, ignoring:</code>	<code>dd</code> invocation
<code>read from stdin and write to stdout and files:</code>	<code>tee</code> invocation
<code>read permission:</code>	Mode Structure
<code>read permission, symbolic:</code>	Setting Permissions
<code>read</code> system call, and holes:	<code>cp</code> invocation
<code>readable file check:</code>	Access permission tests
<code>readlink:</code>	<code>readlink</code> invocation

real user and group IDs, printing:	id invocation
realpath:	realpath invocation
realpath:	realpath invocation
realpath:	realpath invocation
realpath:	readlink invocation
record separator character:	split invocation
recursive directory listing:	Which files are listed
recursively changing access permissions:	chmod invocation
recursively changing file ownership:	chown invocation
recursively changing group ownership:	chgrp invocation
recursively copying directories:	cp invocation
recursively copying directories:	cp invocation
redirection:	Redirection
reference file:	chcon invocation
reformatting paragraph text:	fmt invocation
regular expression matching:	String expressions
regular file check:	File type tests
relations, numeric or string:	Relations for expr
relative items in date strings:	Relative items in date strings
release of kernel:	uname invocation
relpath:	realpath invocation

remainder:	Numeric expressions
remote hostname:	who invocation
removing characters:	Squeezing and deleting
removing empty directories:	rmdir invocation
removing files after shredding:	shred invocation
removing files or directories:	rm invocation
removing files or directories (via the unlink syscall):	unlink invocation
removing permissions:	Setting Permissions
repeat output values:	shuf invocation
repeated characters:	Character sets
repeated lines, outputting:	uniq invocation
repeated output of a string:	yes invocation
restricted deletion flag:	Mode Structure
restricted security context:	runcon invocation
return, ignoring:	Input
return, translating to newline:	Input
return, translating to newline:	Output
reverse sorting:	sort invocation
reverse sorting:	Sorting the output
reversing files:	tac invocation
rm:	rm invocation
rmdir:	rmdir invocation

rn format for nl :	nl invocation
root as default owner:	install invocation
root directory, allow recursive destruction:	rm invocation
root directory, allow recursive modification:	chown invocation
root directory, allow recursive modification:	chgrp invocation
root directory, allow recursive modification:	chmod invocation
root directory, disallow recursive destruction:	rm invocation
root directory, disallow recursive modification:	chown invocation
root directory, disallow recursive modification:	chgrp invocation
root directory, disallow recursive modification:	chmod invocation
root directory, running a program in a specified:	chroot invocation
rows :	Special
rprnt :	Characters
RTS/CTS flow control:	Control
run commands with bounded time:	timeout invocation
run with security context:	runcon invocation

runcon:	runcon invocation
running a program in a modified environment:	env invocation
running a program in a specified root directory:	chroot invocation
rz format for nl:	nl invocation

S

Salz, Rich:	Authors of parse_datetime
same file check:	File characteristic tests
sane:	Combination
scheduling, affecting:	nice invocation
screen columns:	fold invocation
scripts arguments:	env invocation
seconds since the epoch:	Time conversion specifiers
section delimiters of pages:	nl invocation
security context:	What information is listed
security context:	cp invocation
security context:	install invocation
security context:	install invocation

security context:	mv invocation
security context:	mkdir invocation
security context:	mkfifo invocation
security context:	mknod invocation
security context:	id invocation
seek:	dd invocation
seek_bytes:	dd invocation
self-backups:	cp invocation
SELinux:	What information is listed
SELinux:	install invocation
SELinux:	id invocation
SELinux context:	SELinux context
SELinux, context:	SELinux context
SELinux, restoring security context:	mv invocation
SELinux, setting/restoring security context:	cp invocation
SELinux, setting/restoring security context:	install invocation
SELinux, setting/restoring security context:	mkdir invocation
SELinux, setting/restoring security context:	mkfifo invocation
SELinux, setting/restoring security context:	mknod invocation

send a signal to processes:	kill invocation
sentences and line-breaking:	fmt invocation
separator for numbers in <code>seq</code> :	seq invocation
<code>seq</code> :	seq invocation
sequence of numbers:	seq invocation
set-group-ID:	Mode Structure
set-group-ID check:	Access permission tests
set-user-ID:	Mode Structure
set-user-ID check:	Access permission tests
setgid:	Mode Structure
setting permissions:	Setting Permissions
setting the hostname:	hostname invocation
setting the time:	Setting the time
setuid:	Mode Structure
setup for color:	dircolors invocation
sh syntax for color setup:	dircolors invocation
SHA-1:	sha1sum invocation
SHA-2:	sha2 utilities
sha1sum:	sha1sum invocation
sha224sum:	sha2 utilities
sha256sum:	sha2 utilities
sha384sum:	sha2 utilities

<code>sha512sum</code> :	sha2 utilities
shebang arguments:	env invocation
<code>SHELL</code> environment variable, and color:	General output formatting
<code>SHELL</code> environment variable, and color:	dircolors invocation
shell utilities:	Top
<code>shred</code> :	shred invocation
<code>shuf</code> :	shuf invocation
shuffling files:	shuf invocation
SI output:	Block size
SI output:	What information is listed
SI output:	df invocation
SI output:	du invocation
signals, specifying:	Signal specifications
<code>simple</code> backup method:	Backup options
<code>SIMPLE_BACKUP_SUFFIX</code> :	Backup options
single quotes, and <code>env -S</code> :	env invocation
<code>single-column</code> output of files:	General output formatting
<code>size</code> :	Special
size for main memory sorting:	sort invocation
size of file to shred:	shred invocation

size of files, reporting:	What information is listed
size of files, sorting files by:	Sorting the output
skip:	dd invocation
skip_bytes:	dd invocation
sleep:	sleep invocation
socket check:	File type tests
software flow control:	Input
sort:	sort invocation
sort field:	sort invocation
sort stability:	sort invocation
sort stability:	sort invocation
sort's last-resort comparison:	sort invocation
sort's last-resort comparison:	sort invocation
sorted files, operations on:	Operating on sorted files
sorting files:	sort invocation
sorting ls output:	Sorting the output
space:	Character sets
space parity:	Control
sparse:	dd invocation
sparse files, copying:	cp invocation
sparse files, creating:	truncate invocation
special characters:	Characters

special file types:	Special file types
special file types:	Special file types
special files:	mknod invocation
special settings:	Special
specifying sets of characters:	Character sets
speed:	Special
split:	split invocation
splitting a file into pieces:	split invocation
splitting a file into pieces by context:	csplit invocation
squeezing blank lines:	cat invocation
squeezing empty lines:	cat invocation
squeezing repeat characters:	Squeezing and deleting
Stallman, R.:	Introduction
standard input:	Common options
standard output:	Common options
standard streams, buffering:	stdbuf invocation
start:	Characters
stat:	stat invocation
status:	dd invocation
status:	Characters
status time, printing or sorting by:	Sorting the output
status time, show the most	du invocation

recent:	
stdbuf:	stdbuf invocation
stick parity:	Control
sticky:	Mode Structure
sticky bit check:	Access permission tests
stop:	Characters
stop bits:	Control
strftime and date:	date invocation
string constants, outputting:	od invocation
string expressions:	String expressions
string tests:	String tests
strip directory and suffix from file names:	basename invocation
stripping non-directory suffix:	dirname invocation
stripping symbol table information:	install invocation
stripping trailing slashes:	cp invocation
stripping trailing slashes:	mv invocation
stty:	stty invocation
substr:	String expressions
subtracting permissions:	Setting Permissions
subtraction:	Numeric expressions
successful exit:	true invocation
suffix, stripping from file names:	basename invocation

sum:	sum invocation
summarizing files:	Summarizing files
superblock, writing:	sync invocation
supplementary groups, printing:	groups invocation
susp:	Characters
swab (byte-swapping):	dd invocation
swap space, saving text image in:	Mode Structure
swtch:	Characters
symbol table information, stripping:	install invocation
symbol table information, stripping, program:	install invocation
symbolic (soft) links, creating:	ln invocation
symbolic link check:	File type tests
symbolic link to directory, controlling traversal of:	Traversing symlinks
symbolic link to directory, never traverse:	Traversing symlinks
symbolic link to directory, never traverse:	chown invocation
symbolic link to directory, never traverse:	chgrp invocation
symbolic link to directory, never traverse:	chcon invocation
symbolic link to directory, traverse each that is encountered:	Traversing symlinks

symbolic link to directory, traverse each that is encountered:	chown invocation
symbolic link to directory, traverse each that is encountered:	chgrp invocation
symbolic link to directory, traverse each that is encountered:	chcon invocation
symbolic link to directory, traverse if on the command line:	Traversing symlinks
symbolic link to directory, traverse if on the command line:	chown invocation
symbolic link to directory, traverse if on the command line:	chgrp invocation
symbolic link to directory, traverse if on the command line:	chcon invocation
symbolic link, defined:	ln invocation
symbolic links and ln:	ln invocation
symbolic links and pwd:	pwd invocation
symbolic links, changing group:	chgrp invocation
symbolic links, changing owner:	chown invocation
symbolic links, changing owner:	chown invocation
symbolic links, changing owner:	chown invocation
symbolic links, changing owner:	chgrp invocation
symbolic links, changing time:	touch invocation
symbolic links, copying:	cp invocation
symbolic links, copying:	cp invocation

symbolic links, copying with:	cp invocation
symbolic links, dereferencing:	Which files are listed
symbolic links, dereferencing:	Which files are listed
symbolic links, dereferencing:	Which files are listed
symbolic links, dereferencing in du:	du invocation
symbolic links, dereferencing in du:	du invocation
symbolic links, dereferencing in stat:	stat invocation
symbolic links, following:	dd invocation
symbolic links, permissions of:	chmod invocation
symbolic modes:	Symbolic Modes
symlinks, resolution:	realpath invocation
sync:	sync invocation
sync:	dd invocation
sync (padding with ASCII NULs):	dd invocation
Synchronize cached writes to persistent storage:	sync invocation
synchronize disk and memory:	sync invocation
synchronized data and metadata I/O:	dd invocation
synchronized data and metadata writes, before finishing:	dd invocation
synchronized data reads:	dd invocation
synchronized data writes, before finishing:	dd invocation

system context:	System context
system information, printing:	arch invocation
system information, printing:	nproc invocation
system information, printing:	uname invocation
system name, printing:	hostname invocation
System V sum:	sum invocation

T

tab stops, setting:	expand invocation
tabn :	Output
tabs :	Combination
tabs to spaces, converting:	expand invocation
tac :	tac invocation
tagged paragraphs:	fmt invocation
tail :	tail invocation
tandem :	Input
target directory:	Target directory
target directory:	Target directory
target directory:	Target directory
target directory:	cp invocation
target directory:	cp invocation
target directory:	install invocation
target directory:	install invocation

target directory:	mv invocation
target directory:	mv invocation
target directory:	ln invocation
target directory:	ln invocation
tebibyte, definition of:	Block size
tee:	tee invocation
telephone directory order:	sort invocation
temporary directory:	sort invocation
temporary files and directories:	mktemp invocation
terabyte, definition of:	Block size
terminal check:	File type tests
terminal file name, printing:	tty invocation
terminal lines, currently used:	who invocation
terminal settings:	stty invocation
terminal, using color iff:	General output formatting
terminal, using hyperlink iff:	General output formatting
terse output:	stat invocation
test:	test invocation
text:	dd invocation
text I/O:	dd invocation
text image, saving in swap space:	Mode Structure
text input files:	md5sum invocation

text utilities:	Top
text, displaying:	echo invocation
text, reformatting:	fmt invocation
this in date strings:	Relative items in date strings
time:	touch invocation
time:	Special
time conversion specifiers:	Time conversion specifiers
time formats:	pr invocation
time formats:	date invocation
time limit:	timeout invocation
time of day item:	Time of day items
time setting:	Setting the time
time style:	Formatting file timestamps
time style:	du invocation
time units:	timeout invocation
time units:	sleep invocation
time zone correction:	Time of day items
time zone item:	General date syntax
time zone item:	Time zone items
time, printing or setting:	date invocation
timeout:	timeout invocation

timestamps of installed files, preserving:	install invocation
timestamps, changing file:	touch invocation
TIME_STYLE:	Formatting file timestamps
TIME_STYLE:	du invocation
TMPDIR:	sort invocation
TMPDIR:	sort invocation
today in date strings:	Relative items in date strings
tomorrow:	Options for date
tomorrow in date strings:	Relative items in date strings
topological sort:	tsort invocation
tostop:	Local
total counts:	wc invocation
touch:	touch invocation
tr:	tr invocation
trailing slashes:	Trailing slashes
translating characters:	Translating
true:	true invocation
truncate:	truncate invocation
truncating output file, avoiding:	dd invocation
truncating, file sizes:	truncate invocation

tsort:	tsort invocation
tty:	tty invocation
two-way parity:	Control
type size:	od invocation
TZ:	pr invocation
TZ:	Formatting file timestamps
TZ:	touch invocation
TZ:	stat invocation
TZ:	who invocation
TZ:	date invocation
TZ:	Options for date
TZ:	Specifying time zone rules

U

u, and disabling special characters:	Characters
ucase, converting to:	dd invocation
umask and modes:	Umask and Protection
uname:	uname invocation
unblock:	dd invocation
unexpand:	unexpand invocation
Unicode:	printf invocation

<code>uniq:</code>	<code>uniq</code> invocation
unique lines, outputting:	<code>uniq</code> invocation
uniquify files:	<code>uniq</code> invocation
uniquifying output:	<code>sort</code> invocation
Universal Time:	Options for date
<code>unlink:</code>	<code>unlink</code> invocation
unprintable characters, ignoring:	<code>sort</code> invocation
unsorted directory listing:	Sorting the output
<code>upper:</code>	Character sets
uppercase, translating to lowercase:	Input
<code>uptime:</code>	<code>uptime</code> invocation
<code>use time</code> , changing:	<code>touch</code> invocation
<code>use time</code> , printing or sorting files by:	Sorting the output
<code>use time</code> , printing or sorting files by:	Sorting the output
<code>use time</code> , show the most recent:	<code>du</code> invocation
user IDs, disambiguating:	Disambiguating names and IDs
user information, commands for:	User information
user name, printing:	<code>logname</code> invocation
user names, disambiguating:	Disambiguating names and IDs
usernames, printing current:	<code>users</code> invocation

<code>users:</code>	users invocation
<code>UTC:</code>	Options for date
<code>utmp:</code>	logname invocation
<code>utmp:</code>	users invocation
<code>utmp:</code>	who invocation

V

valid file names, checking for:	pathchk invocation
variable-length records, converting to fixed-length:	dd invocation
<code>vdir:</code>	vdir invocation
<code>verbose ls</code> format:	What information is listed
verifying MD5 checksums:	md5sum invocation
verifying MD5 checksums:	md5sum invocation
verifying MD5 checksums:	md5sum invocation
verifying MD5 checksums:	md5sum invocation
verifying MD5 checksums:	md5sum invocation
version number sort:	sort invocation
version number, finding:	Common options
version of kernel:	uname invocation
<code>version</code> , sorting option for <code>ls</code> :	Sorting the output
<code>version-control</code> Emacs variable:	Backup options

<code>VERSION_CONTROL:</code>	Backup options
<code>VERSION_CONTROL:</code>	cp invocation
<code>VERSION_CONTROL:</code>	install invocation
<code>VERSION_CONTROL:</code>	mv invocation
<code>VERSION_CONTROL:</code>	ln invocation
<code>vertical</code> sorted files in columns:	General output formatting
<code>vtn:</code>	Output

W

<code>wc:</code>	wc invocation
<code>week</code> in date strings:	Relative items in date strings
<code>werase:</code>	Characters
<code>who:</code>	who invocation
<code>who am i:</code>	who invocation
<code>whoami:</code>	whoami invocation
<code>word count:</code>	wc invocation
<code>working context:</code>	Working context
<code>working directory, printing:</code>	pwd invocation
<code>wrap data:</code>	base64 invocation
<code>wrapping long input lines:</code>	fold invocation
<code>writable file check:</code>	Access permission tests

write permission:	Mode Structure
write permission, symbolic:	Setting Permissions
write, allowed:	who invocation
wtmp:	users invocation
wtmp:	who invocation

X

xcase:	Local
xdigit:	Character sets
xfs file system type:	df invocation
XON/XOFF flow control:	Input

Y

year in date strings:	Relative items in date strings
yes:	yes invocation
yesterday:	Options for date
yesterday in date strings:	Relative items in date strings
yottabyte, definition of:	Block size
Youmans, B.:	Introduction

Z

zero-length string check:

String tests

zettabyte, definition of:

Block size