

Junkyard

Reference Manual

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This document describes Junkyard version 1.0
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a10n(1)	abbreviate words in the a10n style	1
add-up-files(1)	select recent files to a size limit	2
alarm-hhmm(1)	calculate hh:mm:ss until given time	3
apm_grope(1)	print battery and power information	4
apm_online(1)	test online power status	5
apple2unix(1)	convert apple text files into unix text files	6
archive-photographs(1)	archive photographs from removable media	7
auto-camel-case(1)	convert strings into CamelCase	8
beep(1)	ring the terminal bell	9
bench-plans(1)	draw workshop bench plans	10
binary-ascii(1)	translate ascii to binary and back again	11
brain-teaser(1)	generate and solve 9-letter puzzles	12
cage-rolls(1)	draw phasmid cage roll pages	13
cgi-echo(1)	echo information given to CGI scripts	14
check-for-meta(1)	check for meta characters	15
check-open-ports(1)	check for open ports through firewalls	16
check-photograph-dates(1)	check file mod times against EXIF data	17
cklinlen(1)	check line lengths	18
clone-mod-time(1)	add description here	19
cmpls(1)	complete the sequence	20
compositor(1)	composit images by script	22
confstr(1)	Get configuration information at runtime	24
copfix(1)	copyright notice fixer	25
c-to-c++(1)	convert language comments	26
c++_to_c(1)	convert language comments	27
cut-template(1)	print photo positioning templates	28
deep-listing(1)	list directory tree	29
detab(1)	expand tabs to spaces	31
dir-flatten(1)	flatten a directory tree into one directory	32
dir-mod-time(1)	set directory mod-times from contents	33
dir-to-index-html(1)	walk directory trees building index.html	34
dms-to-deg(1)	convert degrees minutes and seconds to decimal degrees	35
dos-to-unix(1)	translate DOS text format to UNIX text format	36
downcase-file-names(1)	rename file in a tree to be lower case	37
dumb-database(1)	simple text database tool	38
english-to-number(1)	translate a number in English into a decimal number	39
feminine-suffix(1)	look for feminine/masculine word pairs	40
file-date(1)	print date and time for files	41
find-broken-symlinks(1)	walk directory looking for broken symbolic links	42
fix-copyright-indent(1)	adjust header comments at top of file	43
fix-dos-files(1)	walk a dir tree converting DOS files to UNIX files	44
fix-pace-types(1)	replace Pace's dumb types with C standard types	45
fix-unprintable-filenames(1)	rename files with unprintable names	46
fix-white-space(1)	remove trailing white space	47
fsf-address-fix(1)	repair obsolete FSF postal addresses	48
geotrans-ang(1)	longitude and latitude to eastings and northings	49
geotrans-mgrs(1)	convert between lat/long and MGRS	50
geotrans-triangle-node(1)	translate e/n triangle nodes to l/l	51
getaddrinfo(1)	network address and service translation	52
getrlimit(1)	get resource limits	53
google-translate(1)	translate text via the Google translate web page	54
gpl-version-fix(1)	change GPL version numbers	55
gps-track-plot(1)	plot GPS tracks and waypoints on image	56
gps-track-split(1)	add description here	57

graph-paper(1)	draw graph paper	58
guess-txt-paragraphs(1)	clean up .txt files ready for ebook-convert	59
heart-rate-training-zone(1)	calculate your training zone	60
ip-list(1)	list network interfaces	61
is-dos-format(1)	list DOS text files	62
is-not-binary(1)	list text (non-binary) files	63
life-search-ga(1)	life search using genetic algorithms	64
link-tree-path(1)	make links into a search tree union	65
lspath(1)	list search path	66
luhn(1)	add description here	67
magic-square(1)	generate magic squares	68
mastermind(1)	the game of mastermind	70
maths-tables(1)	calculate and print maths tables	71
msg-comment-check(1)	check .po entries for comments	72
net-connect-times(1)	time how long connections take	73
no-spaces-in-file-names(1)	rename files to remove spaces	74
number-to-english(1)	turn a number into English text	75
obfuscate-url(1)	make email URLs less greppable	76
p2u(1)	Primos to Unix text files	77
palindromic-numbers(1)	find palindromic numbers	78
pathconf(1)	Get configuration information at runtime	79
path-env-pack(1)	remove redundant search path elements	80
polyfit(1)	least squares polynomial curve fitting	81
ppm15puzzle(1)	animate an image mapped onto a 15-puzzle	82
prime-after(1)	find next prime number	83
prime-factors(1)	determine the prime factors of a number	84
primes(1)	find and print prime numbers	85
print_exit_status(1)	execute command and print exit status	86
print-file-date(1)	add description here	87
pwgen(1)	random passowrd generator	88
quoted-printable(1)	MIME quoted printable encoding	89
rad-50(1)	Radix-50 encode and decode	90
railroad-diagram(1)	draw railroad syntax diagrams	92
random_lines(1)	randomize line order	93
readlink(1)	add description here	94
redent(1)	change a file's indenting	95
remove-meta-characters(1)	remove unprintable (non-ascii-7) text	96
rgb_hunt(1)	search rgb.txt	97
robots-txt-gen(1)	generate top-level robots.txt file from subdirectories	98
roman-numerals(1)	print roman numerals representation of decimal value	99
rs400(1)	access PolarTech RS400 heart rate monitor watch	100
scramble(1)	scramble letters within words	101
sigmonster(1)	generate signatures with random quotes	102
sleep-until(1)	sleep until a specific time	103
small-box-plans(1)	plans for small dovetail boxes	104
sort-url(1)	sort URLs	105
sqrt_approx(1)	fractional approximations	106
strip-nul(1)	strip NUL characters from text files	107
sturm(1)	Sturm sequence solver	108
sysconf(1)	Get configuration information at runtime	109
un-camel-case(1)	turn CamelCase identifiers into lower-case and underscore	110
unit-tray-template(1)	draw plans for insect unit trays	111
unix2dos(1)	convert Unix format text file to DOS format text file	112
unprintable(1)	check for unprintable characters	113

unrelative(1)	make a filename relative if possible, absolute otherwise	114
warp-map-to-map(1)	overlay one map on another	115
web_hit_counter(1)	CGI program to count references	116
wildebloods-empire(1)	encode and decode by atomic numbers	117
winsize(1)	print size of terminal window	118
workshop-cupboard-plans(1)	draw plans for new workshop overhead cupboard	119
wrap-file-header(1)	reformat file headers	120
x11-idle-seconds(1)	print number of seconds X11 has been idle	121

Table of Contents(Junkyard)

a10n(1)	1
unrelative(1)	114
rs400(1)	100
clone-mod-time(1)	19
gps-track-split(1)	57
luhn(1)	67
print-file-date(1)	87
readlink(1)	94
getaddrinfo(1)	52
fsf-address-fix(1)	48
fsf-address-fix(1)	48
add-up-files(1)	2
fix-copyright-indent(1)	43
prime-after(1)	83
binary-ascii(1)	11
check-photograph-dates(1)	17
alarm-hhmm(1)	3
life-search-ga(1)	64
geotrans-ang(1)	49
ppm15puzzle(1)	82
ppm15puzzle(1)	82
warp-map-to-map(1)	115
apm_grope(1)	4
apm_online(1)	5
apple2unix(1)	6
apple2unix(1)	6
sqrt_approx(1)	106
sqrt_approx(1)	106
archive-photographs(1)	7
archive-photographs(1)	7
remove-meta-characters(1)	96
binary-ascii(1)	11
binary-ascii(1)	11
wildebloods-empire(1)	117
confstr(1)	24
pathconf(1)	79
sysconf(1)	109
fix-copyright-indent(1)	43

Table of Contents(Junkyard)

a10n - abbreviate words in the a10n style
unrelative - make a filename relative if possible,
rs400 - access PolarTech RS400 heart rate monitor watch
clone-mod-time - add description here
gps-track-split - add description here
luhn - add description here
print-file-date - add description here
readlink - add description here
getaddrinfo - network address and service translation
fsf-address-fix - repair obsolete FSF postal addresses
fsf-address-fix - repair obsolete FSF postal addresses
add-up-files - select recent files to a size limit
fix-copyright-indent - adjust header comments at top of file
prime-after - find next prime number again
binary-ascii - translate ascii to binary and back
check-photograph-dates - check file mod times against EXIF data
alarm-hhmm - calculate hh:mm:ss until given time
life-search-ga - life search using genetic algorithms
geotrans-ang - convert longitude and latitude to eastings and northings
ppm15puzzle - animate an image mapped onto a 15-puzzle
ppm15puzzle - animate an image mapped onto a 15-puzzle
warp-map-to-map - overlay one map on another
apm_grope - print battery and power information
apm_online - test online power status
apple2unix - convert apple text files into unix text files
apple2unix - convert apple text files into unix text files
sqrt - fractional approximations
sqrt approx - fractional approximations
archive-photographs - archive photographs from removable media
archive-photographs - archive photographs from removable media
remove-meta-characters - remove unprintable (non-ascii-7) text
binary-ascii - translate ascii to binary and back again
binary-ascii - translate ascii to binary and back again
wildebloods-empire - encode and decode by atomic numbers
confstr - Get configuration information at runtime
pathconf - Get configuration information at runtime
sysconf - Get configuration information at runtime
fix-copyright-indent - adjust header comments at top of file

Table of Contents(Junkyard)

auto-camel-case(1) 8

binary-ascii(1) 11

apm_grope(1) 4

x11-idle-seconds(1) 121

beep(1) 9

beep(1) 9

bench-plans(1) 10

bench-plans(1) 10

geotrans-mgrs(1) 50

binary-ascii(1) 11

binary-ascii(1) 11

is-not-binary(1) 63

is-not-binary(1) 63

small-box-plans(1) 104

small-box-plans(1) 104

brain-teaser(1) 12

find-broken-symlinks(1) 42

find-broken-symlinks(1) 42

dir-to-index-html(1) 34

cage-rolls(1) 13

cage-rolls(1) 13

maths-tables(1) 71

alarm-hhmm(1) 3

heart-rate-training-zone(1) 60

auto-camel-case(1) 8

auto-camel-case(1) 8

un-camel-case(1) 110

un-camel-case(1) 110

downcase-file-names(1) 37

un-camel-case(1) 110

auto-camel-case(1) 8

un-camel-case(1) 110

c-to-c++(1) 26

c++_to_c(1) 27

cgi-echo(1) 14

web_hit_counter(1) 116

cgi-echo(1) 14

redent(1) 95

gpl-version-fix(1) 55

check-for-meta(1) 15

unprintable(1) 113

Table of Contents(Junkyard)

auto-camel-case - convert strings into CamelCase

back again

battery and power information

been idle

beep - ring the terminal bell

bell

bench plans

bench-plans - draw workshop bench plans

between lat/long and MGRS

binary and back again

binary-ascii - translate ascii to binary and back again

binary files

binary - list text (non-binary) files

boxes

box-plans - plans for small dovetail boxes

brain-teaser - generate and solve 9-letter puzzles

broken symbolic links

broken-symlinks - walk directory looking for broken symbolic links

building index.html

cage roll pages

cage-rolls - draw phasmid cage roll pages

calculate and print maths tables

calculate hh:mm:ss until given time

calculate your training zone

CamelCase

camel-case - convert strings into CamelCase

CamelCase identifiers into lower-case and underscore

camel-case - turn CamelCase identifiers into lower-case and underscore

case

case and underscore

case - convert strings into CamelCase

case - turn CamelCase identifiers into lower-case and underscore

c++ - convert language comments

c - convert language comments

cgi-echo - echo information given to CGI scripts

CGI program to count references

CGI scripts

change a file's indenting

change GPL version numbers

characters

characters

binary-ascii - translate ascii to binary and X11 has

apm grope - print

x11-idle-seconds - print number of seconds

beep - ring the terminal

bench-plans - draw workshop

geotrans-mgrs - convert

binary-ascii - translate ascii to

is-not-binary - list text (non-binary) files

small-box-plans - plans for small dovetail

small-

find-broken-symlinks - walk directory looking for

find-

dir-to-index-html - walk directory trees

cage-rolls - draw phasmid

maths-tables -

alarm-hhmm -

heart-rate-training-zone -

auto-camel-case - convert strings into

un-camel-case - turn

un-

downcase-file-names - rename file in a tree to be lower

un-camel-case - turn CamelCase identifiers into lower-

auto-camel-

un-camel-

c-to-

c++ to

web hit counter -

cgi-echo - echo information given to

redent -

gpl-version-fix -

check-for-meta - check for meta

unprintable - check for unprintable

Table of Contents(Junkyard)

strip-nul(1)	107
remove-meta-characters(1)	96
msg-comment-check(1)	72
check-photograph-dates(1)	17
check-for-meta(1)	15
check-for-meta(1)	15
check-open-ports(1)	16
unprintable(1)	113
cklinlen(1)	18
check-open-ports(1)	16
check-photograph-dates(1)	17
msg-comment-check(1)	72
cklinlen(1)	18
guess-txt-paragraphs(1)	59
clone-mod-time(1)	19
cmpls(1)	20
print_exit_status(1)	86
msg-comment-check(1)	72
c++_to_c(1)	27
c-to-c++(1)	26
msg-comment-check(1)	72
fix-copyright-indent(1)	43
cmpls(1)	20
compositor(1)	22
compositor(1)	22
confstr(1)	24
pathconf(1)	79
sysconf(1)	109
confstr(1)	24
net-connect-times(1)	73
net-connect-times(1)	73
dir-mod-time(1)	33
guess-txt-paragraphs(1)	59
apple2unix(1)	6
geotrans-mgrs(1)	50
dms-to-deg(1)	35
fix-dos-files(1)	44
c++_to_c(1)	27
c-to-c++(1)	26
geotrans-ang(1)	49
auto-camel-case(1)	8
unix2dos(1)	112
copfix(1)	25

Table of Contents(Junkyard)

strip-nul - strip NUL	characters from text files
remove-meta-	characters - remove unprintable (non-ascii-7) text
msg-comment-	check - check .po entries for comments
check-photograph-dates -	check file mod times against EXIF data
check-for-meta -	check for meta characters
check-for-meta -	check-for-meta - check for meta character
check-open-ports -	check for open ports through firewalls
unprintable -	check for unprintable characters
cklinlen -	check line lengths
check-open-ports -	check-open-ports - check for open ports through firewalls
check-photograph-dates -	check-photograph-dates - check file mod times against EXIF data
msg-comment-check -	check .po entries for comments
cklinlen -	cklinlen - check line lengths
guess-txt-paragraphs -	clean up .txt files ready for ebook-convert
clone-mod-time -	clone-mod-time - add description here
cmpls -	cmpls - complete the sequence
print exit status - execute	command and print exit status
msg-	comment-check - check .po entries for comments
c++ to c - convert language	comments
c-to-c++ - convert language	comments
msg-comment-check - check .po entries for	comments
fix-copyright-indent - adjust header	comments at top of file
cmpls -	complete the sequence
compositor -	composit images by script
confstr - Get	compositor - composit images by script
pathconf - Get	configuration information at runtime
sysconf - Get	configuration information at runtime
confstr - Get	configuration information at runtime
net-connect-times - time how long	connections take
net-	connect-times - time how long connection take
dir-mod-time - set directory mod-times from	contents
guess-txt-paragraphs - clean up .txt files	convert
apple2unix -	convert apple text files into unix text files
geotrans-mgrs -	convert between lat/long and MGRS
dms-to-deg -	convert degrees minutes and seconds to decimal degrees
fix-dos-files - walk a directory tree	converting DOS files to UNIX files
c++ to c -	convert language comments
c-to-c++ -	convert language comments
geotrans-ang -	convert longitude and latitude to eastings and northings
auto-camel-case -	convert strings into CamelCase
unix2dos -	convert Unix format text file to DOS format text file
copfix -	copyright notice fixer

Table of Contents(Junkyard)

fix-copyright-indent(1)	43
copfix(1)	25
web_hit_counter(1)	116
web_hit_counter(1)	116
fix-pace-types(1)	45
c++_to_c(1)	27
c-to-c++(1)	26
workshop-cupboard-plans(1)	119
workshop-cupboard-plans(1)	119
polyfit(1)	81
cut-template(1)	28
check-photograph-dates(1)	17
dumb-database(1)	38
dumb-database(1)	38
print-file-date(1)	87
file-date(1)	41
file-date(1)	41
check-photograph-dates(1)	17
dms-to-deg(1)	35
english-to-number(1)	39
roman-numerals(1)	99
rad-50(1)	90
wildebloods-empire(1)	117
deep-listing(1)	29
dms-to-deg(1)	35
dms-to-deg(1)	35
dms-to-deg(1)	35
clone-mod-time(1)	19
gps-track-split(1)	57
luhn(1)	67
print-file-date(1)	87
readlink(1)	94
detab(1)	31
prime-factors(1)	84
railroad-diagram(1)	92
railroad-diagram(1)	92
robots-txt-gen(1)	98
dir-flatten(1)	32
find-broken-symlinks(1)	42

Table of Contents(Junkyard)

fix-copyright-indent - adjust header comment at top of file
copfix - copyright notice fixer
web hit counter - CGI program to count references
web hit counter - CGI program to count references
fix-pace-types - replace Pace's dumb types with C standard types
c++ to c - convert language comments
c-to-c++ - convert language comments
workshop-cupboard-plans - draw plans for new workshop overhead cupboard
workshop-cupboard-plans - draw plans for new workshop overhead cupboard
polyfit - least squares polynomial curve fitting
cut-template - print photo positioning templates
check-photograph-dates - check file mod times against EXIF data
dumb-database - simple text database tool
dumb-database - simple text database tool
print-file-date - add description here
file-date - print date and time for files
file-date - print date and time for files
check-photograph-dates - check file mod times against EXIF data
dms-to-deg - convert degrees minutes and seconds to decimal degrees
english-to-number - translate a number in English into a decimal number
roman-numerals - print a roman numerals decimal value representation of a
rad-50 - Radix-50 encode and decode
wildebloods-empire - encode and decode by atomic numbers
deep-listing - list directory tree
dms-to-deg - convert degrees minutes and seconds to decimal degrees
dms-to-deg - convert degrees minutes and seconds to decimal degrees
dms-to-deg - convert degrees minutes and seconds to decimal degrees
clone-mod-time - add description here
gps-track-split - add description here
luhn - add description here
print-file-date - add description here
readlink - add description here
detab - expand tabs to spaces
prime-factors - determine the prime factors of a number
railroad-diagram - draw railroad syntax diagrams
railroad-diagram - draw railroad syntax diagrams
robots-txt-gen - generate top-level robots.txt directories
robots-txt-gen - generate top-level robots.txt file from sub-directories
dir-flatten - flatten a directory tree into one directory
find-broken-symlinks - walk directory looking for broken symbolic link

Table of Contents(Junkyard)

dir-mod-time(1)	33
deep-listing(1)	29
fix-dos-files(1)	44
dir-flatten(1)	32
dir-to-index-html(1)	34
dir-flatten(1)	32
dir-mod-time(1)	33
dir-to-index-html(1)	34
dms-to-deg(1)	35
unix2dos(1)	112
fix-dos-files(1)	44
fix-dos-files(1)	44
is-dos-format(1)	62
unix2dos(1)	112
is-dos-format(1)	62
dos-to-unix(1)	36
dos-to-unix(1)	36
small-box-plans(1)	104
downcase-file-names(1)	37
graph-paper(1)	58
cage-rolls(1)	13
unit-tray-template(1)	111
workshop-cupboard-plans(1)	119
railroad-diagram(1)	92
bench-plans(1)	10
dumb-database(1)	38
fix-pace-types(1)	45
geotrans-ang(1)	49
guess-txt-paragraphs(1)	59
cgi-echo(1)	14
cgi-echo(1)	14
path-env-pack(1)	80
obfuscate-url(1)	76
wildebloods-empire(1)	117
rad-50(1)	90
wildebloods-empire(1)	117
quoted-printable(1)	89
english-to-number(1)	39

Table of Contents(Junkyard)

dir-mod-time - set	directory mod-times from contents
deep-listing - list	directory tree
fix-dos-files - walk a	directory tree converting DOS files to UNIX files
dir-flatten - flatten a	directory tree into one directory
dir-to-index-html - walk	directory trees building index.html
	dir-flatten - flatten a directory tree into one directory
	dir-mod-time - set directory mod-times from contents
	dir-to-index-html - walk directory trees building index.html
	dms-to-deg - convert degrees minutes and seconds to decimal degrees
unix2	dos - convert Unix format text file to DOS format text file
fix-dos-files - walk a directory tree converting	DOS files to UNIX files
fix-	dos-files - walk a directory tree converting DOS files to UNIX files
is-	dos-format - list DOS text files
unix2dos - convert Unix format text file to	DOS format text file
is-dos-format - list	DOS text files
dos-to-unix - translate	DOS text format to UNIX text format
	dos-to-unix - translate DOS text format to UNIX text format
small-box-plans - plans for small	dovetail boxes
	downcase-file-names - rename file in a tree to be lower case
graph-paper -	draw graph paper
cage-rolls -	draw phasmid cage roll pages
unit-tray-template -	draw plans for insect unit trays
workshop-cupboard-plans -	draw plans for new workshop overhead cupboard
railroad-diagram -	draw railroad syntax diagrams
bench-plans -	draw workshop bench plans
fix-pace-types - replace Pace's	dumb-database - simple text database tool
geotrans-ang - convert longitude and latitude	dumb types with C standard types
	eastings and northings
guess-txt-paragraphs - clean up .txt files	ebook-convert
	ready for
cgi-	echo - echo information given to CGI scripts
cgi-echo -	echo information given to CGI scripts
path-env-pack - remove redundant search	elements
	path
obfuscate-url - make	email URLs less greppable
wildebloods-	empire - encode and decode by atomic numbers
rad-50 - Radix-50	encode and decode
wildebloods-empire -	encode and decode by atomic numbers
quoted-printable - MIME quoted printable	encoding
english-to-number - translate a number in	English into a decimal number

Table of Contents(Junkyard)

number-to-english(1)	75
english-to-number(1)	39
number-to-english(1)	75
geotrans-triangle-node(1)	51
msg-comment-check(1)	72
path-env-pack(1)	80
print_exit_status(1)	86
check-photograph-dates(1)	17
print_exit_status(1)	86
print_exit_status(1)	86
detab(1)	31
prime-factors(1)	84
prime-factors(1)	84
feminine-suffix(1)	40
feminine-suffix(1)	40
fix-copyright-indent(1)	43
unix2dos(1)	112
print-file-date(1)	87
file-date(1)	41
robots-txt-gen(1)	98
wrap-file-header(1)	120
wrap-file-header(1)	120
downcase-file-names(1)	37
check-photograph-dates(1)	17
unrelative(1)	114
downcase-file-names(1)	37
no-spaces-in-file-names(1)	74
fix-unprintable-filenames(1)	46
apple2unix(1)	6
file-date(1)	41
fix-dos-files(1)	44
is-dos-format(1)	62
is-not-binary(1)	63
p2u(1)	77
strip-nul(1)	107
redent(1)	95
apple2unix(1)	6
guess-txt-paragraphs(1)	59
add-up-files(1)	2

Table of Contents(Junkyard)

number-to-english - turn a number into English text
english-to-number - translate a number in English into a decimal number
number-to-english - turn a number into English text
geotrans-triangle-node - translate e/n triangle nodes to l/l
msg-comment-check - check .po entries for comments
path-env-pack - remove redundant search path elements
print exit status - execute command and print exit status
check-photograph-dates - check file mod times against EXIF data
print exit status - execute command and print exit status
print exit status - execute command and print exit status
detab - expand tabs to spaces
prime-factors - determine the prime factors of a number
prime-factors - determine the prime factors of a number
feminine-suffix - look for feminine/masculine word pairs
feminine-suffix - look for feminine/masculine word pairs
fix-copyright-indent - adjust header comments at top of file
unix2dos - convert Unix format text file to DOS format text
print-file-date - add description here
file-date - print date and time for files from sub-directories
robots-txt-gen - generate top-level robots.txt
wrap-file-header - reformat file headers
wrap-file-header - reformat file headers
downcase-file-names - rename file in a tree to be lower case
check-photograph-dates - check file mod times against EXIF data
unrelative - make a filename relative if possible, absolute otherwise
downcase-file-names - rename file in a tree to be lower case
no-spaces-in-file-names - rename files to remove spaces
fix-unprintable-filenames - rename files with unprintable names
apple2unix - convert apple text files into unix text
file-date - print date and time for files
fix-dos-files - walk a directory tree converting DOS files to UNIX
is-dos-format - list DOS text files
is-not-binary - list text (non-binary) files
p2u - Primos to Unix text files
strip-nul - strip NUL characters from text files
redent - change a file's indenting
apple2unix - convert apple text files into unix text files
guess-txt-paragraphs - clean up .txt files ready for ebook-convert
add-up-files - select recent files to a size limit

Table of Contents(Junkyard)

add-up-files(1)	2
no-spaces-in-file-names(1)	74
fix-dos-files(1)	44
fix-dos-files(1)	44
fix-unprintable-filenames(1)	46
unix2dos(1)	112
primes(1)	85
find-broken-symlinks(1)	42
prime-after(1)	83
palindromic-numbers(1)	78
check-open-ports(1)	16
polyfit(1)	81
gpl-version-fix(1)	55
fix-copyright-indent(1)	43
fix-dos-files(1)	44
copfix(1)	25
fix-pace-types(1)	45
fsf-address-fix(1)	48
fix-unprintable-filenames(1)	46
fix-white-space(1)	47
dir-flatten(1)	32
dir-flatten(1)	32
find-broken-symlinks(1)	42
msg-comment-check(1)	72
guess-txt-paragraphs(1)	59
feminine-suffix(1)	40
file-date(1)	41
unit-tray-template(1)	111
dos-to-unix(1)	36
is-dos-format(1)	62
unix2dos(1)	112
unix2dos(1)	112
dos-to-unix(1)	36
check-for-meta(1)	15
check-for-meta(1)	15
workshop-cupboard-plans(1)	119
check-open-ports(1)	16
small-box-plans(1)	104
unprintable(1)	113

Table of Contents(Junkyard)

add-up-files - select recent	files to a size limit
no-spaces-in-file-names - rename	files to remove spaces
fix-dos-files - walk a directory tree	files to UNIX files
converting DOS	
fix-dos-	files - walk a directory tree converting DOS
	files to UNIX files
fix-unprintable-filenames - rename	files with unprintable names
unix2dos - convert Unix format text	file to DOS format text file
primes -	find and print prime numbers
	find-broken-symlinks - walk directory
	looking for broken symbolic links
prime-after -	find next prime number
palindromic-numbers -	find palindromic numbers
check-open-ports - check for open ports	firewalls
through	
polyfit - least squares polynomial curve	fitting
gpl-version-	fix - change GPL version numbers
	fix-copyright-indent - adjust header
	comments at top of file
	fix-dos-files - walk a directory tree
	converting DOS files to UNIX files
copfix - copyright notice	fixer
	fix-pace-types - replace Pace's dumb type
	with C standard types
fsf-address-	fix - repair obsolete FSF postal addresses
	fix-unprintable-filenames - rename files w
	unprintable names
	fix-white-space - remove trailing white
	space
dir-flatten -	flatten a directory tree into one directory
dir-	flatten - flatten a directory tree into one
	directory
find-broken-symlinks - walk directory	for broken symbolic links
looking	
msg-comment-check - check .po entries	for comments
guess-txt-paragraphs - clean up .txt files	for ebook-convert
ready	
feminine-suffix - look	for feminine/masculine word pairs
file-date - print date and time	for files
unit-tray-template - draw plans	for insect unit trays
dos-to-unix - translate DOS text format to	format
UNIX text	
is-dos-	format - list DOS text files
unix2dos - convert Unix format text file to	format text file
DOS	
unix2dos - convert Unix	format text file to DOS format text file
dos-to-unix - translate DOS text	format to UNIX text format
check-for-meta - check	for meta characters
check-	for-meta - check for meta characters
workshop-cupboard-plans - draw plans	for new workshop overhead cupboard
check-open-ports - check	for open ports through firewalls
small-box-plans - plans	for small dovetail boxes
unprintable - check	for unprintable characters

Table of Contents(Junkyard)

sqrt_approx(1) 106
 dir-mod-time(1) 33
 archive-photographs(1) 7
 robots-txt-gen(1) 98
 strip-nul(1) 107
 fsf-address-fix(1) 48
 fsf-address-fix(1) 48
 life-search-ga(1) 64
 mastermind(1) 70
 brain-teaser(1) 12
 magic-square(1) 68
 sigmonster(1) 102
 robots-txt-gen(1) 98
 pwgen(1) 88
 life-search-ga(1) 64
 robots-txt-gen(1) 98
 geotrans-ang(1) 49
 geotrans-mgrs(1) 50
 geotrans-triangle-node(1) 51
 getaddrinfo(1) 52
 confstr(1) 24
 pathconf(1) 79
 sysconf(1) 109
 getrlimit(1) 53
 getrlimit(1) 53
 alarm-hhmm(1) 3
 cgi-echo(1) 14
 google-translate(1) 54
 google-translate(1) 54
 gpl-version-fix(1) 55
 gpl-version-fix(1) 55
 gps-track-plot(1) 56
 gps-track-plot(1) 56
 gps-track-split(1) 57
 graph-paper(1) 58
 graph-paper(1) 58
 obfuscate-url(1) 76
 apm_grope(1) 4
 guess-txt-paragraphs(1) 59
 x11-idle-seconds(1) 121

Table of Contents(Junkyard)

sqrt approx - fractional approximations
 dir-mod-time - set directory mod-times from contents
 archive-photographs - archive photographs from removable media
 robots-txt-gen - generate top-level robots.txt from sub-directories
 strip-nul - strip NUL characters from text files
 fsf-address-fix - repair obsolete FSF postal addresses
 fsf-address-fix - repair obsolete FSF postal addresses
 life-search-ga - life search using genetic algorithms
 mastermind - the game of mastermind
 brain-teaser - generate and solve 9-letter puzzles
 magic-square - generate magic squares
 sigmonster - generate signatures with random quotes
 robots-txt-gen - generate top-level robots.txt file from sub-directories
 pwgen - random password generator
 life-search-ga - life search using genetic algorithms
 robots-txt-gen - generate top-level robots.txt file from sub-directories
 geotrans-ang - convert longitude and latitude to eastings and northings
 geotrans-mgrs - convert between lat/long and MGRS
 geotrans-triangle-node - translate e/n triangle nodes to l/l
 getaddrinfo - network address and service translation
 confstr - Get configuration information at runtime
 pathconf - Get configuration information at runtime
 sysconf - Get configuration information at runtime
 getrlimit - get resource limits
 getrlimit - get resource limits
 alarm-hhmm - calculate hh:mm:ss until given time
 cgi-echo - echo information given to CGI scripts
 google-translate - translate text via the Google translate web page
 google-translate - translate text via the Google translate web page
 gpl-version-fix - change GPL version numbers
 gpl-version-fix - change GPL version numbers
 gps-track-plot - plot GPS tracks and waypoints on image
 gps-track-plot - plot GPS tracks and waypoints on image
 gps-track-split - add description here
 graph-paper - draw graph paper
 graph-paper - draw graph paper
 obfuscate-url - make email URLs less greppable
 apm_grope - print battery and power information
 guess-txt-paragraphs - clean up .txt files ready for ebook-convert
 x11-idle-seconds - print number of seconds has been idle
 X11

Table of Contents(Junkyard)

fix-copyright-indent(1) 43
wrap-file-header(1) 120
wrap-file-header(1) 120
rs400(1) 100
heart-rate-training-zone(1) 60

clone-mod-time(1) 19
gps-track-split(1) 57
luhn(1) 67
print-file-date(1) 87
readlink(1) 94
alarm-hhmm(1) 3
alarm-hhmm(1) 3
web_hit_counter(1) 116

net-connect-times(1) 73
dir-to-index-html(1) 34

dir-to-index-html(1) 34

rgb_hunt(1) 97
un-camel-case(1) 110
x11-idle-seconds(1) 121

x11-idle-seconds(1) 121

unrelative(1) 114
gps-track-plot(1) 56

ppm15puzzle(1) 82
compositor(1) 22
downcase-file-names(1) 37
fix-copyright-indent(1) 43

redent(1) 95
dir-to-index-html(1) 34

dir-to-index-html(1) 34

english-to-number(1) 39
no-spaces-in-file-names(1) 74

apm_grope(1) 4
confstr(1) 24
pathconf(1) 79
sysconf(1) 109
cgi-echo(1) 14
unit-tray-template(1) 111
ip-list(1) 61
a10n(1) 1
english-to-number(1) 39

link-tree-path(1) 65

Table of Contents(Junkyard)

fix-copyright-indent - adjust header comments at top of file
wrap-file-header - reformat file headers
wrap-file-header - reformat file headers
rs400 - access PolarTech RS400 heart rate monitor watch
heart-rate-training-zone - calculate your training zone

clone-mod-time - add description here
gps-track-split - add description here
luhn - add description here
print-file-date - add description here
readlink - add description here
alarm-hhmm - calculate hh:mm:ss until given time
alarm-hhmm - calculate hh:mm:ss until given time
web_hit_counter - CGI program to count references

net-connect-times - time how long connections take
dir-to-index-html - walk directory trees building index.html

dir-to-index-html - walk directory trees building index.html

rgb_hunt - search rgb.txt
un-camel-case - turn CamelCase identifiers into lower-case and underscore
x11-idle-seconds - print number of seconds idle

x11-idle-seconds - print number of seconds X11 has been idle

unrelative - make a filename relative if possible, absolute otherwise
gps-track-plot - plot GPS tracks and image

ppm15puzzle - animate an image mapped onto a 15-puzzle
compositor - composit images by script
downcase-file-names - rename file in a tree to be lower case
fix-copyright-indent - adjust header comments at top of file

redent - change a file's indenting
dir-to-index-html - walk directory trees building index.html

dir-to-index-html - walk directory trees building index.html

english-to-number - translate a number in English into a decimal number
no-spaces-in-file-names - rename files to remove spaces

apm_grope - print battery and power information
confstr - Get configuration information at runtime
pathconf - Get configuration information at runtime
sysconf - Get configuration information at runtime
cgi-echo - echo information given to CGI scripts
unit-tray-template - draw plans for insect unit trays
ip-list - list network interfaces
a10n - abbreviate words in the a10n style
english-to-number - translate a number in English into a decimal number

link-tree-path - make links into a search tree union

Table of Contents(Junkyard)

auto-camel-case(1)	8
number-to-english(1)	75
un-camel-case(1)	110
dir-flatten(1)	32
apple2unix(1)	6
ip-list(1)	61
is-dos-format(1)	62
is-not-binary(1)	63
geotrans-triangle-node(1)	51
c++_to_c(1)	27
c-to-c++(1)	26
geotrans-ang(1)	49
geotrans-mgrs(1)	50
polyfit(1)	81
cklinlen(1)	18
obfuscate-url(1)	76
brain-teaser(1)	12
scramble(1)	101
robots-txt-gen(1)	98
life-search-ga(1)	64
life-search-ga(1)	64
add-up-files(1)	2
getrlimit(1)	53
cklinlen(1)	18
random_lines(1)	93
random_lines(1)	93
find-broken-symlinks(1)	42
link-tree-path(1)	65
link-tree-path(1)	65
deep-listing(1)	29
is-dos-format(1)	62
deep-listing(1)	29
ip-list(1)	61
ip-list(1)	61
lspath(1)	66
is-not-binary(1)	63
geotrans-triangle-node(1)	51
geotrans-mgrs(1)	50
net-connect-times(1)	73
geotrans-ang(1)	49
feminine-suffix(1)	40
find-broken-symlinks(1)	42
downcase-file-names(1)	37
un-camel-case(1)	110
lspath(1)	66

Table of Contents(Junkyard)

auto-camel-case - convert strings	into CamelCase
number-to-english - turn a number	into English text
un-camel-case - turn CamelCase identifiers	into lower-case and underscore
dir-flatten - flatten a directory tree	into one directory
apple2unix - convert apple text files	into unix text files
ip-list - list network interfaces	ip-list - list network interfaces
is-dos-format - list DOS text files	is-dos-format - list DOS text files
is-not-binary - list text (non-binary) files	is-not-binary - list text (non-binary) files
geotrans-triangle-node - translate e/n	l
triangle nodes to l/	
c++ to c - convert	language comments
c-to-c++ - convert	language comments
geotrans-ang - convert longitude and	latitude to eastings and northings
geotrans-mgrs - convert between	lat/long and MGRS
polyfit -	least squares polynomial curve fitting
cklinlen - check line	lengths
obfuscate-url - make email URLs	less greppable
brain-teaser - generate and solve 9-	letter puzzles
scramble - scramble	letters within words
robots-txt-gen - generate top-	level robots.txt file from sub-directories
life-search-ga -	life-search-ga - life search using genetic
life search using genetic algorithms	algorithms
add-up-files - select recent files to a size	limit
getrlimit - get resource	limits
cklinlen - check	line lengths
random lines - randomize	line order
random	lines - randomize line order
find-broken-symlinks - walk directory	links
looking for broken symbolic	
link-tree-path - make	links into a search tree union
link-tree-path - make links into a search tr	union
deep-listing -	list directory tree
is-dos-format -	list DOS text files
deep-	listing - list directory tree
ip-	list - list network interfaces
ip-list -	list network interfaces
lspath -	list search path
is-not-binary -	list text (non-binary) files
geotrans-triangle-node - translate e/n	l/l
triangle nodes to	
geotrans-mgrs - convert between lat/	long and MGRS
net-connect-times - time how	long connections take
geotrans-ang - convert	longitude and latitude to eastings and
	northings
feminine-suffix -	look for feminine/masculine word pairs
find-broken-symlinks - walk directory	looking for broken symbolic links
downcase-file-names - rename file in a tree	lower case
to be	
un-camel-case - turn CamelCase identifiers	lower-case and underscore
into	
lspath - list search path	lspath - list search path

Table of Contents(Junkyard)

luhn(1)	67
magic-square(1)	68
magic-square(1)	68
unrelative(1)	114
obfuscate-url(1)	76
link-tree-path(1)	65
warp-map-to-map(1)	115
warp-map-to-map(1)	115
ppm15puzzle(1)	82
warp-map-to-map(1)	115
feminine-suffix(1)	40
mastermind(1)	70
mastermind(1)	70
maths-tables(1)	71
maths-tables(1)	71
archive-photographs(1)	7
check-for-meta(1)	15
remove-meta-characters(1)	96
check-for-meta(1)	15
geotrans-mgrs(1)	50
geotrans-mgrs(1)	50
quoted-printable(1)	89
dms-to-deg(1)	35
alarm-hhmm(1)	3
clone-mod-time(1)	19
check-photograph-dates(1)	17
dir-mod-time(1)	33
dir-mod-time(1)	33
rs400(1)	100
msg-comment-check(1)	72
a10n(1)	1
fix-unprintable-filenames(1)	46
downcase-file-names(1)	37
no-spaces-in-file-names(1)	74
net-connect-times(1)	73
getaddrinfo(1)	52
ip-list(1)	61
workshop-cupboard-plans(1)	119
prime-after(1)	83
geotrans-triangle-node(1)	51
geotrans-triangle-node(1)	51

Table of Contents(Junkyard)

luhn - add description here
magic-square - generate magic squares
magic squares
make a filename relative if possible, absolute otherwise
make email URLs less greppable
make links into a search tree union
map on another
map - overlay one map on another
mapped onto a 15-puzzle
map-to-map - overlay one map on another
masculine word pairs
mastermind
mastermind - the game of mastermind
maths tables
maths-tables - calculate and print tables
media
meta characters
meta-characters - remove unprintable (non-ascii-7) text
meta - check for meta characters
MGRS
mgrs - convert between lat/long and MGRS
MIME quoted printable encoding
minutes and seconds to decimal degrees
mm:ss until given time
mod-time - add description here
mod times against EXIF data
mod-time - set directory mod-times from contents
mod-times from contents
monitor watch
msg-comment-check - check .po entries for comments
n - abbreviate words in the a10n style
names
names - rename file in a tree to be lower case
names - rename files to remove spaces
net-connect-times - time how long connections take
network address and service translation
network interfaces
new workshop overhead cupboard
next prime number
nodes to l/l
node - translate e/n triangle nodes to l/l

Table of Contents(Junkyard)

remove-meta-characters(1)	96
is-not-binary(1)	63
geotrans-ang(1)	49
no-spaces-in-file-names(1)	74
is-not-binary(1)	63
copfix(1)	25
a10n(1)	1
geotrans-triangle-node(1)	51
strip-nul(1)	107
strip-nul(1)	107
english-to-number(1)	39
prime-after(1)	83
prime-factors(1)	84
english-to-number(1)	39
number-to-english(1)	75
x11-idle-seconds(1)	121
gpl-version-fix(1)	55
palindromic-numbers(1)	78
primes(1)	85
wildebloods-empire(1)	117
palindromic-numbers(1)	78
number-to-english(1)	75
english-to-number(1)	39
roman-numerals(1)	99
roman-numerals(1)	99
obfuscate-url(1)	76
fsf-address-fix(1)	48
warp-map-to-map(1)	115
dir-flatten(1)	32
warp-map-to-map(1)	115
gps-track-plot(1)	56
apm_online(1)	5
apm_online(1)	5
ppm15puzzle(1)	82
check-open-ports(1)	16
check-open-ports(1)	16
random_lines(1)	93
unrelative(1)	114
workshop-cupboard-plans(1)	119

Table of Contents(Junkyard)

remove-meta-characters - remove unprintable (is-not-binary - list text (geotrans-ang - convert longitude and latitude to eastings and	non-ascii-7) text non-binary) files northings no-spaces-in-file-names - rename files to remove spaces not-binary - list text (non-binary) files notice fixer n style n triangle nodes to l/l NUL characters from text files nul - strip NUL characters from text files number number number number in English into a decimal number number into English text number of seconds X11 has been idle numbers numbers numbers numbers numbers numbers - find palindromic numbers number-to-english - turn a number into English text number - translate a number in English into a decimal number numerals - print a roman numerals representation of a decimal value numerals representation of a decimal value obfuscate-url - make email URLs less greppable obsolete FSF postal addresses on another one directory one map on another on image online power status online - test online power status onto a 15-puzzle open-ports - check for open ports through firewalls open ports through firewalls order otherwise overhead cupboard
english-to-number - translate a number in English into a decimal	
prime-after - find next prime	
prime-factors - determine the prime factors of a	
english-to-number - translate a number-to-english - turn a	
x11-idle-seconds - print	
gpl-version-fix - change GPL version	
palindromic-numbers - find palindromic	
primes - find and print prime	
wildebloods-empire - encode and decode by atomic	
palindromic-	
english-to-	
roman-	
roman-numerals - print a roman	
fsf-address-fix - repair	
warp-map-to-map - overlay one map	
dir-flatten - flatten a directory tree into	
warp-map-to-map - overlay	
gps-track-plot - plot GPS tracks and waypoints	
apm online - test	
apm	
ppm15puzzle - animate an image mapped	
check-	
check-open-ports - check for	
random lines - randomize line	
unrelative - make a filename relative if possible, absolute	
workshop-cupboard-plans - draw plans for new workshop	

Table of Contents(Junkyard)

warp-map-to-map(1)	115
p2u(1)	77
fix-pace-types(1)	45
fix-pace-types(1)	45
path-env-pack(1)	80
google-translate(1)	54
cage-rolls(1)	13
feminine-suffix(1)	40
palindromic-numbers(1)	78
palindromic-numbers(1)	78
graph-paper(1)	58
graph-paper(1)	58
guess-txt-paragraphs(1)	59
pwgen(1)	88
lspath(1)	66
pathconf(1)	79
path-env-pack(1)	80
path-env-pack(1)	80
link-tree-path(1)	65
cage-rolls(1)	13
check-photograph-dates(1)	17
archive-photographs(1)	7
archive-photographs(1)	7
cut-template(1)	28
bench-plans(1)	10
workshop-cupboard-plans(1)	119
bench-plans(1)	10
unit-tray-template(1)	111
workshop-cupboard-plans(1)	119
small-box-plans(1)	104
small-box-plans(1)	104
gps-track-plot(1)	56
gps-track-plot(1)	56
msg-comment-check(1)	72
rs400(1)	100
polyfit(1)	81
polyfit(1)	81
check-open-ports(1)	16
check-open-ports(1)	16

Table of Contents(Junkyard)

warp-map-to-map - overlay one map on another
p2u - Primos to Unix text files
fix-pace-types - replace Pace's dumb types with C standard types
fix-pace-types - replace Pace's dumb types with C standard types
path-env-pack - remove redundant search path elements
google-translate - translate text via the Google translate web page
cage-rolls - draw phasmid cage roll pages
feminine-suffix - look for feminine/masculine word pairs
palindromic-numbers - find palindromic numbers
palindromic-numbers - find palindromic numbers
graph-paper - draw graph paper
graph-paper - draw graph paper
guess-txt-paragraphs - clean up .txt files ready for ebook-convert
pwgen - random password generator
lspath - list search path
pathconf - Get configuration information at runtime
path-env-pack - remove redundant search path elements
path-env-pack - remove redundant search path elements
link-tree-path - make links into a search tree union
cage-rolls - draw phasmid cage roll pages
check-photograph-dates - check file mod times against EXIF data
archive-photographs - archive photographs from removable media
archive-photographs - archive photographs from removable media
cut-template - print photo positioning templates
bench-plans - draw workshop bench plans
workshop-cupboard-plans - draw plans for new workshop overhead cupboard
bench-plans - draw workshop bench plans
unit-tray-template - draw plans for insect unit trays
workshop-cupboard-plans - draw plans for new workshop overhead cupboard
small-box-plans - plans for small dovetail boxes
small-box-plans - plans for small dovetail boxes
gps-track-plot - plot GPS tracks and waypoints on image
gps-track-plot - plot GPS tracks and waypoints on image
msg-comment-check - check .po entries for comments
rs400 - access PolarTech RS400 heart rate monitor watch
polyfit - least squares polynomial curve fitting
polyfit - least squares polynomial curve fitting
check-open-ports - check for open ports through firewalls
check-open-ports - check for open ports through firewalls

Table of Contents(Junkyard)

cut-template(1)	28
unrelative(1)	114
fsf-address-fix(1)	48
apm_grope(1)	4
apm_online(1)	5
ppm15puzzle(1)	82
prime-after(1)	83
prime-factors(1)	84
prime-factors(1)	84
prime-after(1)	83
primes(1)	85
primes(1)	85
p2u(1)	77
quoted-printable(1)	89
quoted-printable(1)	89
roman-numerals(1)	99
apm_grope(1)	4
file-date(1)	41
print_exit_status(1)	86
print_exit_status(1)	86
print-file-date(1)	87
maths-tables(1)	71
x11-idle-seconds(1)	121
cut-template(1)	28
primes(1)	85
winsize(1)	118
web_hit_counter(1)	116
ppm15puzzle(1)	82
ppm15puzzle(1)	82
brain-teaser(1)	12
pwgen(1)	88
quoted-printable(1)	89
quoted-printable(1)	89
sigmonster(1)	102
rad-50(1)	90
rad-50(1)	90
railroad-diagram(1)	92
railroad-diagram(1)	92
random_lines(1)	93
random_lines(1)	93
pwgen(1)	88
sigmonster(1)	102
rs400(1)	100

Table of Contents(Junkyard)

cut-template - print photo	positioning templates
unrelative - make a filename relative if possible, absolute otherwise	possible, absolute otherwise
fsf-address-fix - repair obsolete FSF	postal addresses
apm grope - print battery and	power information
apm online - test online	power status
ppm15puzzle - animate an image mapped onto a 15-puzzle	ppm15puzzle - animate an image mapped onto a 15-puzzle
prime-after - find next prime number	prime-after - find next prime number
prime-factors - determine the prime factors of a number	prime-factors - determine the prime factors of a number
prime-factors - determine the	prime factors of a number
prime-after - find next	prime number
primes - find and print	prime numbers
p2u -	Primos to Unix text files
quoted-printable - MIME quoted	printable encoding
quoted-printable -	printable - MIME quoted printable encoding
roman-numerals -	print a roman numerals representation of a decimal value
apm grope -	print battery and power information
file-date -	print date and time for files
print exit status - execute command and	print exit status
print exit status - execute command and	print exit status - execute command and
print exit status -	print exit status
print-file-date -	print-file-date - add description here
maths-tables - calculate and	print maths tables
x11-idle-seconds -	print number of seconds X11 has been idle
cut-template -	print photo positioning templates
primes - find and	print prime numbers
winsize -	print size of terminal window
web hit counter - CGI	program to count references
ppm15puzzle - animate an image mapped onto a 15-	puzzle
ppm15	puzzle - animate an image mapped onto a 15-puzzle
brain-teaser - generate and solve 9-letter	puzzles
pwgen -	pwgen - random password generator
quoted-printable - MIME	quoted printable encoding
quoted-printable -	quoted-printable - MIME quoted printable encoding
sigmonster - generate signatures with	quotes
random	
rad-50 - Radix-50 encode and decode	rad-50 - Radix-50 encode and decode
Radix-50 encode and decode	Radix-50 encode and decode
railroad-diagram - draw railroad syntax	railroad-diagram - draw railroad syntax
diagrams	diagrams
railroad-diagram - draw	railroad syntax diagrams
random lines -	randomize line order
random lines - randomize line order	random lines - randomize line order
pwgen -	random password generator
sigmonster - generate signatures with	random quotes
rs400 - access PolarTech RS400 heart	rate monitor watch

Table of Contents(Junkyard)

heart-rate-training-zone(1) 60
 readlink(1) 94
 guess-txt-paragraphs(1) 59
 add-up-files(1) 2
 redent(1) 95
 path-env-pack(1) 80
 web_hit_counter(1) 116
 wrap-file-header(1) 120
 unrelative(1) 114
 archive-photographs(1) 7
 remove-meta-characters(1) 96
 path-env-pack(1) 80
 no-spaces-in-file-names(1) 74
 fix-white-space(1) 47
 remove-meta-characters(1) 96
 downcase-file-names(1) 37
 no-spaces-in-file-names(1) 74
 fix-unprintable-filenames(1) 46
 fsf-address-fix(1) 48
 fix-pace-types(1) 45
 roman-numerals(1) 99
 getrlimit(1) 53
 rgb_hunt(1) 97
 rgb_hunt(1) 97
 beep(1) 9
 robots-txt-gen(1) 98
 robots-txt-gen(1) 98
 cage-rolls(1) 13
 cage-rolls(1) 13
 roman-numerals(1) 99
 roman-numerals(1) 99
 rs400(1) 100
 rs400(1) 100
 confstr(1) 24
 pathconf(1) 79
 sysconf(1) 109
 scramble(1) 101
 scramble(1) 101
 compositor(1) 22
 cgi-echo(1) 14
 fix-pace-types(1) 45
 life-search-ga(1) 64
 lspath(1) 66
 path-env-pack(1) 80

Table of Contents(Junkyard)

heart-rate-training-zone - calculate your training zone
 readlink - add description here
 ready for ebook-convert
 recent files to a size limit
 redent - change a file's indenting
 redundant search path elements
 references
 reformat file headers
 relative if possible, absolute otherwise
 removable media
 remove-meta-characters - remove unprintable (non-ascii-7) text
 remove redundant search path elements
 remove spaces
 remove trailing white space
 remove unprintable (non-ascii-7) text
 rename file in a tree to be lower case
 rename files to remove spaces
 rename files with unprintable names
 repair obsolete FSF postal addresses
 replace Pace's dumb types with C standard types
 representation of a decimal value
 resource limits
 rgb hunt - search rgb.txt
 rgb.txt
 ring the terminal bell
 robots.txt file from sub-directories
 robots-txt-gen - generate top-level robots file from sub-directories
 roll pages
 rolls - draw phasmid cage roll pages
 roman-numerals - print a roman numerals representation of a decimal value
 roman numerals representation of a decimal value
 rs400 - access PolarTech RS400 heart rate monitor watch
 RS400 heart rate monitor watch
 runtime
 runtime
 runtime
 scramble letters within words
 scramble - scramble letters within words
 script
 scripts
 s dumb types with C standard types
 search-ga - life search using genetic algorithms
 search path
 search path elements

Table of Contents(Junkyard)

rgb_hunt(1)	97
link-tree-path(1)	65
life-search-ga(1)	64
x11-idle-seconds(1)	121
dms-to-deg(1)	35
x11-idle-seconds(1)	121
add-up-files(1)	2
cmpls(1)	20
sturm(1)	108
getaddrinfo(1)	52
dir-mod-time(1)	33
sigmonster(1)	102
sigmonster(1)	102
dumb-database(1)	38
redent(1)	95
add-up-files(1)	2
winsize(1)	118
sleep-until(1)	103
sleep-until(1)	103
small-box-plans(1)	104
small-box-plans(1)	104
brain-teaser(1)	12
sturm(1)	108
sort-url(1)	105
sort-url(1)	105
fix-white-space(1)	47
fix-white-space(1)	47
detab(1)	31
no-spaces-in-file-names(1)	74
no-spaces-in-file-names(1)	74
sleep-until(1)	103
gps-track-split(1)	57
sqrt_approx(1)	106
magic-square(1)	68
magic-square(1)	68
polyfit(1)	81
alarm-hhmm(1)	3
fix-pace-types(1)	45
apm_online(1)	5
print_exit_status(1)	86
print_exit_status(1)	86
auto-camel-case(1)	8
strip-nul(1)	107
strip-nul(1)	107

Table of Contents(Junkyard)

rgb hunt - search rgb.txt
link-tree-path - make links into a search tree union
life-search-ga - life search using genetic algorithms
x11-idle-seconds - print number of seconds X11 has been idle
dms-to-deg - convert degrees minutes and seconds to decimal degrees
x11-idle-seconds - print number of seconds X11 has been idle
add-up-files - select recent files to a size limit
cmpls - complete the sequence
sturm - Sturm sequence solver
getaddrinfo - network address and service translation
dir-mod-time - set directory mod-times from contents
sigmonster - generate signatures with random quotes
sigmonster - generate signatures with random quotes
dumb-database - simple text database tool
redent - change a file's indenting
add-up-files - select recent files to a size limit
winsize - print size of terminal window
sleep-until - sleep until a specific time
sleep-until - sleep until a specific time
small-box-plans - plans for small dovetail boxes
small-box-plans - plans for small dovetail boxes
brain-teaser - generate and solve 9-letter puzzles
sturm - Sturm sequence solver
sort-url - sort URLs
sort-url - sort URLs
fix-white-space - remove trailing white space
fix-white-space - remove trailing white space
detab - expand tabs to spaces
no-spaces-in-file-names - rename files to spaces
no-spaces-in-file-names - rename files to remove spaces
sleep-until - sleep until a specific time
gps-track-split - add description here
sqrt_approx - fractional approximations
magic-square - generate magic squares
magic-square - generate magic squares
polyfit - least squares polynomial curve fitting
alarm-hhmm - calculate hh:mm:ss until given time
fix-pace-types - replace Pace's dumb types with standard types
fix-pace-types - replace Pace's dumb types with C standard types
apm online - test online power status
print exit status - execute command and print exit status
print exit status - execute command and print exit status
auto-camel-case - convert strings into CamelCase
strip-nul - strip NUL characters from text files
strip-nul - strip NUL characters from text files

Table of Contents(Junkyard)

sturm(1) 108
 sturm(1) 108
 a10n(1) 1
 robots-txt-gen(1) 98
 feminine-suffix(1) 40
 find-broken-symlinks(1) 42
 find-broken-symlinks(1) 42
 railroad-diagram(1) 92
 sysconf(1) 109
 maths-tables(1) 71
 maths-tables(1) 71
 detab(1) 31
 net-connect-times(1) 73
 brain-teaser(1) 12
 unit-tray-template(1) 111
 cut-template(1) 28
 cut-template(1) 28
 beep(1) 9
 winsize(1) 118
 apm_online(1) 5
 number-to-english(1) 75
 remove-meta-characters(1) 96
 dumb-database(1) 38
 unix2dos(1) 112
 apple2unix(1) 6
 is-dos-format(1) 62
 p2u(1) 77
 strip-nul(1) 107
 apple2unix(1) 6
 unix2dos(1) 112
 dos-to-unix(1) 36
 dos-to-unix(1) 36
 is-not-binary(1) 63
 google-translate(1) 54
 check-open-ports(1) 16
 alarm-hhmm(1) 3
 sleep-until(1) 103
 clone-mod-time(1) 19
 file-date(1) 41
 net-connect-times(1) 73
 check-photograph-dates(1) 17

Table of Contents(Junkyard)

sturm - Sturm sequence solver
 sturm - Sturm sequence solver
 style
 sub-directories
 suffix - look for feminine/masculine word pairs
 symbolic links
 symlinks - walk directory looking for broken symbolic links
 syntax diagrams
 sysconf - Get configuration information at runtime
 tables
 tables - calculate and print maths tables
 tabs to spaces
 take
 teaser - generate and solve 9-letter puzzles
 template - draw plans for insect unit trays
 template - print photo positioning templates
 templates
 terminal bell
 terminal window
 test online power status
 text
 text
 text database tool
 text file
 text files
 text files
 text files
 text files
 text files into unix text files
 text file to DOS format text file
 text format
 text format to UNIX text format
 text (non-binary) files
 text via the Google translate web page through firewalls
 time
 time
 time - add description here
 time for files
 time how long connections take
 times against EXIF data

Table of Contents(Junkyard)

dir-mod-time(1)	33
dir-mod-time(1)	33
net-connect-times(1)	73
dumb-database(1)	38
robots-txt-gen(1)	98
fix-copyright-indent(1)	43
gps-track-plot(1)	56
gps-track-plot(1)	56
gps-track-split(1)	57
fix-white-space(1)	47
heart-rate-training-zone(1)	60
heart-rate-training-zone(1)	60
english-to-number(1)	39
binary-ascii(1)	11
dos-to-unix(1)	36
geotrans-triangle-node(1)	51
google-translate(1)	54
google-translate(1)	54
google-translate(1)	54
getaddrinfo(1)	52
unit-tray-template(1)	111
unit-tray-template(1)	111
deep-listing(1)	29
fix-dos-files(1)	44
dir-flatten(1)	32
link-tree-path(1)	65
dir-to-index-html(1)	34
downcase-file-names(1)	37
link-tree-path(1)	65
geotrans-triangle-node(1)	51
geotrans-triangle-node(1)	51
number-to-english(1)	75
un-camel-case(1)	110
rgb_hunt(1)	97

Table of Contents(Junkyard)

dir-mod-time - set directory mod-	
times from contents	
net-connect-	
times - time how long connections take	
tool	
dumb-database - simple text database	
robots-txt-gen - generate	
top-level robots.txt file from sub-directori	
fix-copyright-indent - adjust header	
comments at	
gps-	
track-plot - plot GPS tracks and waypoint	
on image	
gps-track-plot - plot GPS	
tracks and waypoints on image	
gps-	
track-split - add description here	
fix-white-space - remove	
trailing white space	
heart-rate-training-zone - calculate your	
training zone	
heart-rate-	
training-zone - calculate your training zon	
english-to-number -	
translate a number in English into a decidm	
number	
binary-ascii -	
translate ascii to binary and back again	
dos-to-unix -	
translate DOS text format to UNIX text	
format	
geotrans-triangle-node -	
translate e/n triangle nodes to l/l	
google-translate -	
translate text via the Google translate web	
page	
google-	
translate - translate text via the Google	
translate web page	
google-	
translate - translate text via the Google	
translate web page	
Google	
getaddrinfo - network address and service	
translation	
unit-tray-template - draw plans for insect	
trays	
unit	
unit-	
tray-template - draw plans for insect unit	
trays	
tree	
deep-listing - list directory	
tree converting DOS files to UNIX files	
fix-dos-files - walk a directory	
tree into one directory	
dir-flatten - flatten a directory	
tree-path - make links into a search tree	
link-	
tree-path - make links into a search tree	
union	
dir-to-index-html - walk directory	
trees building index.html	
downcase-file-names - rename file in a	
tree to be lower case	
link-tree-path - make links into a search	
tree union	
geotrans-triangle-node - translate e/n	
triangle nodes to l/l	
geotrans-	
triangle-node - translate e/n triangle nodes	
l/l	
turn	
number-to-english -	
turn a number into English text	
turn CamelCase	
turn CamelCase identifiers	
turn CamelCase identifiers into	
turn CamelCase identifiers into lower-	
turn CamelCase identifiers into lower-cas	
and	
un-camel-case -	
turn CamelCase identifiers into lower-cas	
and underscore	
rgb hunt - search rgb.	
txt	

Table of Contents(Junkyard)

robots-txt-gen(1) 98
 guess-txt-paragraphs(1) 59
 robots-txt-gen(1) 98
 guess-txt-paragraphs(1) 59
 fix-pace-types(1) 45
 fix-pace-types(1) 45
 fix-pace-types(1) 45
 un-camel-case(1) 110
 un-camel-case(1) 110
 link-tree-path(1) 65
 unit-tray-template(1) 111
 unit-tray-template(1) 111
 unix2dos(1) 112
 apple2unix(1) 6
 fix-dos-files(1) 44
 unix2dos(1) 112
 apple2unix(1) 6
 p2u(1) 77
 dos-to-unix(1) 36
 dos-to-unix(1) 36
 unprintable(1) 113
 unprintable(1) 113
 fix-unprintable-filenames(1) 46
 fix-unprintable-filenames(1) 46
 remove-meta-characters(1) 96
 unrelative(1) 114
 sleep-until(1) 103
 alarm-hhmm(1) 3
 sleep-until(1) 103
 add-up-files(1) 2
 p2u(1) 77
 guess-txt-paragraphs(1) 59
 obfuscate-url(1) 76
 sort-url(1) 105
 obfuscate-url(1) 76
 sort-url(1) 105
 life-search-ga(1) 64
 roman-numerals(1) 99

Table of Contents(Junkyard)

robots-txt-gen - generate top-level robots.txt file from sub-directories
 guess-txt-paragraphs - clean up .txt files ready for ebook-convert
 robots-txt-gen - generate top-level robots.txt file from sub-directories
 guess-txt-paragraphs - clean up .txt files ready for ebook-convert
 types
 fix-pace-types - replace Pace's dumb types with C standard types
 fix-pace-types - replace Pace's dumb types with C standard types
 fix-pace-types - replace Pace's dumb types with C standard types
 un-camel-case - turn CamelCase identifiers into lower-case and underscore
 un-camel-case - turn CamelCase identifiers into lower-case and underscore
 link-tree-path - make links into a search tree
 unit-tray-template - draw plans for insect unit trays
 unit-tray-template - draw plans for insect unit trays
 unix2dos - convert Unix format text file to DOS format text file
 apple2 - convert apple text files into unix text files
 apple2 - convert apple text files into unix text files
 fix-dos-files - walk a directory tree converting DOS files to UNIX files
 unix2dos - convert Unix format text file to DOS format text file
 apple2unix - convert apple text files into unix text files
 p2u - Primos to Unix text files
 dos-to-unix - translate DOS text format to UNIX text format
 dos-to-unix - translate DOS text format to UNIX text format
 unprintable - check for unprintable characters
 unprintable - check for unprintable characters
 fix-unprintable-filenames - rename files with unprintable names
 fix-unprintable-filenames - rename files with unprintable names
 remove-meta-characters - remove unprintable (non-ascii-7) text
 unrelative - make a filename relative if possible, absolute otherwise
 sleep-until - sleep until a specific time
 alarm-hhmm - calculate hh:mm:ss until given time
 sleep-until - sleep until a specific time
 add-up-files - select recent files to a size limit
 p2u - Primos to Unix text files
 guess-txt-paragraphs - clean up .txt files ready for ebook-convert
 obfuscate-url - make email URLs less greppable
 sort-url - sort URLs
 obfuscate-url - make email URLs less greppable
 sort-url - sort URLs
 life-search-ga - life search using genetic algorithms
 roman-numerals - print a roman numerals value
 roman-numerals - print a roman numerals representation of a decimal

Table of Contents(Junkyard)

gpl-version-fix(1) 55
 gpl-version-fix(1) 55
 google-translate(1) 54
 fix-dos-files(1) 44

 find-broken-symlinks(1) 42

 dir-to-index-html(1) 34
 warp-map-to-map(1) 115

 rs400(1) 100

 gps-track-plot(1) 56
 web_hit_counter(1) 116

 google-translate(1) 54

 fix-white-space(1) 47
 fix-white-space(1) 47
 wildebloods-empire(1) 117

 winsize(1) 118
 winsize(1) 118
 fix-pace-types(1) 45
 scramble(1) 101
 sigmonster(1) 102
 fix-unprintable-filenames(1) 46
 feminine-suffix(1) 40

 scramble(1) 101
 a10n(1) 1
 bench-plans(1) 10
 workshop-cupboard-plans(1) 119

 workshop-cupboard-plans(1) 119

 wrap-file-header(1) 120
 x11-idle-seconds(1) 121
 x11-idle-seconds(1) 121

 heart-rate-training-zone(1) 60
 heart-rate-training-zone(1) 60
 heart-rate-training-zone(1) 60

Table of Contents(Junkyard)

gpl-version-fix - change GPL version number
 gpl-version-fix - change GPL version numbers
 google-translate - translate text via the Google translate web page
 fix-dos-files - walk a directory tree converting DOS files to UNIX files

 find-broken-symlinks - walk directory looking for broken symbolic links

 dir-to-index-html - walk directory trees building index.html
 warp-map-to-map - overlay one map on another
 watch
 rs400 - access PolarTech RS400 heart rate monitor
 gps-track-plot - plot GPS tracks and waypoints on image
 web_hit_counter - CGI program to count references
 web page
 google-translate - translate text via the Google translate
 fix-white-space - remove trailing white space
 fix-white-space - remove trailing white space
 wildebloods-empire - encode and decode atomic numbers
 window
 winsize - print size of terminal window
 fix-pace-types - replace Pace's dumb types with C standard types
 scramble - scramble letters within words
 sigmonster - generate signatures with random quotes
 fix-unprintable-filenames - rename files with unprintable names
 feminine-suffix - look for word pairs
 feminine/masculine
 scramble - scramble letters within words
 a10n - abbreviate words in the a10n style
 bench-plans - draw workshop bench plans
 workshop-cupboard-plans - draw plans for new workshop overhead cupboard
 workshop-cupboard-plans - draw plans for new workshop overhead cupboard
 wrap-file-header - reformat file headers
 x11-idle-seconds - print number of seconds X11 has been idle
 x11-idle-seconds - print number of seconds X11 has been idle
 heart-rate-training-zone - calculate your training zone
 heart-rate-training-zone - calculate your training zone
 heart-rate-training-zone - calculate your training zone

NAME

a10n – abbreviate words in the a10n style

SYNOPSIS

a10n [*option...*] *word*

a10n [*option...*] *pattern*

a10n -V

DESCRIPTION

The *a10n* program is used to abbreviate and unabbreviate words, in the style which includes the first and last letters, and the number of elided letters. For example, it is common (in programming) to abbreviate “internationalisation” as “i18n”.

Given an abbreviation, it will look up /usr/share/dict/words for matches. Given an unabbreviated word, it will print the abbreviation.

OPTIONS

The following options are understood:

-V

Print the version of the *a10n* program being executed.

All other options will produce a diagnostic error.

EXIT STATUS

The *a10n* command terminates with an exit status of 1 for all errors. It will only have an exit status of 0 if there are no errors.

COPYRIGHT

a10n version 1.0.D414

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AUTHOR

Peter Miller E-Mail: pmiller@opensource.org.au
/\ \ \ * WWW: http://miller.emu.id.au/pmiller/

NAME

add-up-files – select recent files to a size limit

SYNOPSIS

add-up-files [*option...*] [*directory...*]

add-up-files -V

DESCRIPTION

The *add-up-files* program is used to select recent files to a size limit. E.g. to give a list of files to rsync, to the limit of your MP3 player.

OPTIONS

The following options are understood:

-E *pattern*

Exclude files who's path matches the file globbing expression given.

-I *pattern*

Include files who's path matches the file globbing expression given.

-M *size* Set the maximum size of the files to be selected. Suffixes 'k', 'M', 'G' and 'T' are understood. For example, "1.9G".

-V Print the version of the *add-up-files* program being executed.

All other options will produce a diagnostic error.

EXIT STATUS

The *add-up-files* command terminates with an exit status of 1 for all errors. It will only have an exit status of 0 if there are no errors.

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add-up-files version 1.0.D414

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NAME

alarm-hhmm – calculate hh:mm:ss until given time

SYNOPSIS

alarm-hhmm *end-time*

alarm-hhmm *start-time end-time*

alarm-hhmm **-V**

DESCRIPTION

The *alarm-hhmm* program is used to calculate the hours, minutes and seconds (hh:mm:ss format) until the given time. This can be useful when setting electronic timers.

OPTIONS

The following options are understood:

-V

Print the version of the *alarm-hhmm* program being executed.

All other options will produce a diagnostic error.

EXIT STATUS

The *alarm-hhmm* command terminates with an exit status of 1 for all errors. It will only have an exit status of 0 if there are no errors.

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alarm-hhmm version 1.0.D414

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/\ \ * WWW: http://miller.emu.id.au/pmiller/

NAME

apm_grope – print battery and power information

SYNOPSIS

apm_grope [*option...*]
apm_grope -V

DESCRIPTION

The *apm_grope* program is used to print battery and power information on laptops.

OPTIONS

The following options are understood:

-V

Print the version of the *apm_grope* program being executed.

All other options will produce a diagnostic error.

EXIT STATUS

The *apm_grope* command terminates with an exit status of 1 for all errors. It will only have an exit status of 0 if there are no errors.

FILES

/proc/apm
kernel interface

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apm_grope version 1.0.D414
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NAME

apm_online – test online power status

SYNOPSIS

apm_online [*option...*]
apm_online -V

DESCRIPTION

The *apm_online* program is used to test for onlien powers status. It prints nnothing. It exits 0 (success) if the laptop is connected to mains power, or exits 1 (failure) it it isn't.

OPTIONS

The following options are understood:

-V

Print the version of the *apm_online* program being executed.

All other options will produce a diagnostic error.

EXIT STATUS

The *apm_online* command terminates with an exit status of 1 for all errors. It will only have an exit status of 0 if there are no errors.

FILES

/proc/apm

Kernel interface.

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NAME

apple2unix – convert apple text files into unix text files

SYNOPSIS

apple2unix < *infile* > *outfile*

apple2unix *filename*

apple2unix -V

DESCRIPTION

The *apple2unix* program is used to convert Apple][Pascal text file into Unix text files.

Files named on the command line are converted *in situ*. If no file names, the standard input is converted and written to the standard output.

OPTIONS

The following options are understood:

-V

Print the version of the *apple2unix* program being executed.

All other options will produce a diagnostic error.

EXIT STATUS

The *apple2unix* command terminates with an exit status of 1 for all errors. It will only have an exit status of 0 if there are no errors.

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NAME

archive-photographs – archive photographs from removable media

SYNOPSIS

archive-photographs [*option...*]
archive-photographs -V

DESCRIPTION

The *archive-photographs* program is used to archive photographs from removable media.

OPTIONS

The following options are understood:

- D** Do not cope with duplicates, throw an error if two different files with the same name are found. (It will silently ignore two identical files of the same name.)
- d path** This option may be used to specify the directory from which to take images. Usually this is defaulted by walking the mount table looking for likely candidates.
- K** Use this option if it is OK to over-write existing files.
- k** Use this option if you want to keep the source files after they are copied. The default is to delete them.
- t path** This option may be used to set the destination directory. It defaults to \$HOME/images/photographs
- V** Print the version of the *archive-photographs* program being executed.

All other options will produce a diagnostic error.

EXIT STATUS

The *archive-photographs* command terminates with an exit status of 1 for all errors. It will only have an exit status of 0 if there are no errors.

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NAME

auto-camel-case – convert strings into CamelCase

SYNOPSIS

auto-camel-case [*string...*]

DESCRIPTION

The *auto-camel-case* program is used to convert unreadable variables names composed of English words into CamelCase; that is, with the first letter of each word capitalised.

If any arguments are specified on the command line, these are taken to be the strings to convert to CamelCase, printed one per line on this standard output.

If no strings are given on the command line, the standard input is read, and each word will be converted to CamelCase and printed on the standard output.

OPTIONS

The following command options are understood:

-f *filename*

This option may be used to specify the name of the file to read the word list from. Defaults to `/usr/share/dict/words` if not set.

-s Make each word lower case, and separated by spaces, rather than capitalised.

-V Print the version of the auto-camel-case program and quit.

All other options will give a diagnostic error.

EXIT STATUS

The *auto-camel-case* command terminates with an exit status of 1 for all errors. It will only have an exit status of 0 if there are no errors.

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NAME

beep – ring the terminal bell

SYNOPSIS

beep [*count*]

beep -V

DESCRIPTION

The *beep*(1) program is used to ring the terminal bell. This is done by writing BEL (0x07) characters to the standard error.

If no *count* argument is specified, a count of one is assumed.

OPTIONS

The following options are understood:

-V

Print the version of the *beep* program being executed.

All other options will produce a diagnostic error.

EXIT STATUS

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NAME

bench-plans – draw workshop bench plans

SYNOPSIS

bench-plans [*option...*]

bench-plans -V

DESCRIPTION

The *bench-plans* program is used to draw workshop bench plans.

OPTIONS

The following options are understood:

-s *number*

This option may be used to set the required scale for the plans.

-V Print the version of the *bench-plans* program being executed.

All other options will produce a diagnostic error.

EXIT STATUS

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NAME

binary-ascii – translate ascii to binary and back again

SYNOPSIS

binary-ascii -e [*infile* [*outfile*]]

binary-ascii -d [*infile* [*outfile*]]

binary-ascii -V

DESCRIPTION

The *binary-ascii* program is used to

OPTIONS

The following options are understood:

-d Decode the file from binary to ascii.

-e Encode the file from ascii to binary.

-V Print the version of the *binary-ascii* program being executed.

All other options will produce a diagnostic error.

EXIT STATUS

The *binary-ascii* command terminates with an exit status of 1 for all errors. It will only have an exit status of 0 if there are no errors.

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NAME

brain-teaser – generate and solve 9-letter puzzles

SYNOPSIS

brain-teaser [*option...*] *anagram*

brain-teaser -g [*option...*]

brain-teaser -V

DESCRIPTION

The *brain-teaser* program is used to solve the 9-letter "Brain Teaser" puzzles often found in newspapers. These consist of a 3x3 array of letters, with the central letter highlighted, this is the letter which must appear in all solutions.

The *brain-teaser* -g option can also be used to generate these puzzles. It even will display it in the traditional 3x3 array.

OPTIONS

The following options are understood:

-D *filename*

This option may be used to specify the dictionary file to be used. Defaults to */usr/share/dict/words* if not specified.

-f The first letter must be present somewhere in all solutions.

-g This option may be used to generate a puzzle, rather than the default which is to solve a puzzle.

-M *length*

The option may be used to specify the minimum word length. Defaults to 4 if not specified.

-u This option may be used to exclude proper nouns.

-V Print the version of the *brain-teaser* program being executed.

All other options will produce a diagnostic error.

EXIT STATUS

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cage-rolls – draw phasmid cage roll pages

SYNOPSIS

cage-rolls [*option...*]
cage-rolls -V

DESCRIPTION

The *cage-rolls* program is used to draw phasmid cage roll pages

OPTIONS

The following options are understood:

-V

Print the version of the *cage-rolls* program being executed.

All other options will produce a diagnostic error.

EXIT STATUS

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cgi-echo – echo information given to CGI scripts

SYNOPSIS

cgi-echo
cgi-echo -V

DESCRIPTION

The *cgi-echo* program is used to print the information given to CGI scripts by a web server.

OPTIONS

The following options are understood:

-V

Print the version of the *cgi-echo* program being executed.

All other options will produce a diagnostic error.

EXIT STATUS

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NAME

check-for-meta – check for meta characters

SYNOPSIS

check-for-meta *filename...*
check-for-meta **-V**

DESCRIPTION

The *check-for-meta* program is used to check source file for the presence of meta-characters. Meta-characters are considered an error, the value and line number of such characters will be printed when found.

The *check-for-meta* program may be used to make sure your source code is 7-bit clean.

OPTIONS

The following options are understood:

-V

Print the version of the *check-for-meta* program being executed.

All other options will produce a diagnostic error.

EXIT STATUS

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NAME

check-open-ports – check for open ports through firewalls

SYNOPSIS

check-open-ports [*option...*][*host-name*]
check-open-ports -**V**

DESCRIPTION

The *check-open-ports* program is used to check for open ports through firewalls. By default, it examines all ports from 1 to 65535, trying to connect to the specified host (or `www.google.com` by default). Successful connects, or explicit connection refused messages indicate that a port is open through all firewalls between the executing machine and the destination host. A connect timeout, or a host unreachable error, indicate the a firewall somewhere is dropping the packets (or the destination host is operating in sleuth mode).

OPTIONS

The following options are understood:

-**f** *number*

The first port to start scanning from. Defaults to 1.

-**m** *number*

The last port to finish scanning at. Defaults to 65535.

-**t** *seconds*

The number of seconds before the connection attempt times out. Default to 4 seconds.

-**V**

Print the version of the *check-open-ports* program being executed.

-**v**

This option is more verbose - it prints failed ports in addition to use usual successful ports. Scanning 64K ports for 4 seconds each takes 73 hours, so the feedback can be important. On the other hand, all the failure messages can obscure the few success messages.

All other options will produce a diagnostic error.

EXIT STATUS

The *check-open-ports* command terminates with an exit status of 1 for all errors. It will only have an exit status of 0 if there are no errors.

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NAME

check-photograph-dates – check file mod times against EXIF data

SYNOPSIS

check-photograph-dates [*option...*]
check-photograph-dates **-V**

DESCRIPTION

The *check-photograph-dates* program is used to check the file modification times against EXIF data. It is assumed that the photographs are sorted into a directory tree “year/month/day”.

OPTIONS

The following options are understood:

-d *directory-path*

Use this option to set the directory to be scanned. Defaults to “\$HOME/images/photographs” if not set.

-V

Print the version of the *check-photograph-dates* program being executed.

All other options will produce a diagnostic error.

EXIT STATUS

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NAME

cklinlen – check line lengths

SYNOPSIS

cklinlen *filename* ...

DESCRIPTION

The *cklinlen* program is used to check that line lengths in code source files do not exceed 80 characters.

It also checks that C files do not contain C++ comments, and the C++ files do not contain C comments.

It also checks that each file contains a current copyright statement.

OPTIONS

The following command options are understood:

-V Print the version of the *cklinlen* program and quit.

All other options will give a diagnostic error.

EXIT STATUS

The *cklinlen* command terminates with an exit status of 1 for all errors. It will only have an exit status of 0 if there are no errors.

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NAME

clone-mod-time – add description here

SYNOPSIS

clone-mod-time [*option...*] *from-file to-file*
clone-mod-time -V

DESCRIPTION

The *clone-mod-time* program is used to apply the mod tiem of the first file to the second file. Effectively, they look to have both been most recently modified at the same time. Works on directories as well as files.

OPTIONS

The following options are understood:

-V

Print the version of the *clone-mod-time* program being executed.

All other options will produce a diagnostic error.

EXIT STATUS

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NAME

cmpls – complete the sequence

SYNOPSIS

cmpls [*v*]

cmpls [*v*] *number...*

cmpls -**V**

DESCRIPTION

The *cmpls* program is used to complete the sequence.

You probably know those quizzes in Sunday magazines: given the sequence 1, 2, 3, 4, 5, what is the next number? Sometimes it is very easy to answer, sometimes it could be pretty hard. The *cmpls* program assumes the number sequence can be solved by describing the sequence as a polynomial.

If numbers are given on the command line, the next number in the sequence will be printed. If no numbers are given, the ACM Central European Programming Contest Prague 2000 input format is used.

Input

There is a single positive integer *T* on the first line of input (equal to about 5000). It stands for the number of test cases to follow. Each test case consists of two lines. First line of each test case contains two integer numbers *S* and *C* separated by a single space, $1 \leq S < 100$, $1 \leq C < 100$, $(S+C) \leq 100$. The first number, *S*, stands for the length of the given sequence, the second number, *C* is the amount of numbers you are to find to complete the sequence.

The second line of each test case contains *S* integer numbers X_1, X_2, \dots, X_S separated by spaces. These numbers form the given sequence. The sequence can always be described by a polynomial $P(n)$ such that for every *i*, $X_i = P(i)$. Among these polynomials, we can find the polynomial *P_{min}* with the lowest possible degree. This polynomial is used for completing the sequence.

Output

For every test case, a single line is printed containing *C* integer numbers, separated by spaces. These numbers are the values completing the sequence according to the polynomial of the lowest possible degree. In other words, you are to print values $P_{min}(S+1), P_{min}(S+2), \dots, P_{min}(S+C)$.

OPTIONS

The following options are understood:

-**v** Verbose. Print the equation fitted to the sequence.

-**V**

 Print the version of the *cmpls* program being executed.

All other options will produce a diagnostic error.

SEE ALSO

ACM Central European Programming Contest, Prague 2000

<http://www.spoj.pl/problems/classical/>

<http://www.spoj.pl/problems/CMPLS/>

EXIT STATUS

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NAME

compositor – composit images by script

SYNOPSIS

compositor [*option...*] **-f** *script-file* **-o** *output-file*

compositor [*option...*] *expression...* **-o** *output-file*

compositor **-V**

DESCRIPTION

The *compositor* program is used to composite images. A rich language of graphical operations is available to describe how to perform the compositing.

Expressions

New images may be constructed by compositing other images. The method of composition is given as compositing expressions. These expressions take one of several forms:

filename If you name a file, the expression value is the image in the file. Only a limited from of file names are understood, for more unusual file names, use **file**("filename") instead.

lhs over [*alignment*] *rhs*

You can layer one image over another. The image on the left hand side (lhs) is placed “above” the image on the right hand side (rhs). Transparent portions of the left image will allow the right image to be seen.

The optional alignment allows you to move images relative to one another. The alignment may be given a s a mixture of the words *top bottom left right* and *centre*. If no alignment is given, the images will be stacked with their (0,0) points (top left corners) together.

lhs under [*alignment*] *rhs*

This works much like the **over** expression, except that the images are stacked in the opposite order.

function-name (*expression* , ...)

There are various functions defined. The number of arguemnts varies depending on the function.

Functions

There are several functions defined:

file(*string*)

The file method is used to load an image file. This is used for files with names sufficiently ugly that the parser can’t handle the unquoted form, such as file names with spaces or punctuation in them.

offset(*image*, *x*, *y*)

The offset function may be used to shift the relative position of an image. The result of the function is the same image, but in a different position.

rotate(*image*, *angle*)

The rotate function may be used to rotate an image around its centre. The angle is in degrees anti-clockwise.

OPTIONS

The following options are understood:

-f *filename*

This option is used to name a file to read the compositing expression from. If no file is given, the expression must be given on the command line.

-o *filename*

This option is used to name the output file in which the composite image is placed.

-V

Print the version of the *compositor* program being executed.

-y

This option may be used to enable the generation of debug output in the parser. This is only of use to developers debugging the parser.

All other options will produce a diagnostic error.

EXIT STATUS

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NAME

confstr – Get configuration information at runtime

SYNOPSIS

confstr [*option-name ...*]

DESCRIPTION

The *confstr* program is used to obtain values of *confstr(3)* options, used to get configuration information at runtime.

The named options will be printed. If no options are named, all options will be printed.

OPTIONS

The following options are understood:

-V

Print the version of the *confstr* program being executed.

All other options will produce a diagnostic error.

EXIT STATUS

The *confstr* command terminates with an exit status of 1 for all errors. It will only have an exit status of 0 if there are no errors.

SEE ALSO

confstr(3)

Get configuration information at runtime.

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NAME

copfix – copyright notice fixer

SYNOPSIS

copfix [*filename...*]
copfix -V

DESCRIPTION

The *copfix* program is used to insert the current year into copyright notices. If no filenames appear on the command line it reads the standard input and writes the standard output. If file names are present, they are fixed *in situ*.

OPTIONS

The following options are understood:

- b Process binary files, too. The default is to leave binary files alone.
- V Print the version of the *copfix* program being executed.
- v Print the name of each file as it is processed.
- y *year* This option may be used to specify the year to insert. Defaults to the current year if not set.

All other options will produce a diagnostic error.

EXIT STATUS

The *copfix* command terminates with an exit status of 1 for all errors. It will only have an exit status of 0 if there are no errors.

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c-to-c++ – convert language comments

SYNOPSIS

c-to-c++

DESCRIPTION

The *c-to-c++* program is used to convert C comments to C++ comments. It leaves the contents of strings alone.

The source code to be converted reads from the standard input and writes to the standard output.

OPTIONS

The following command options are understood:

-V Print the version of the c-to-c++ program and quit.

All other options will give a diagnostic error.

EXIT STATUS

The *c-to-c++* command terminates with an exit status of 1 for all errors. It will only have an exit status of 0 if there are no errors.

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c++_to_c – convert language comments

SYNOPSIS

c++_to_c

DESCRIPTION

The *c++_to_c* program is used to convert C++ comments to C comments. It leaves the contents of strings alone.

The source code to be converted reads from the standard input and writes to the standard output.

OPTIONS

The following command options are understood:

-V Print the version of the *c++_to_c* program and quit.

All other options will give a diagnostic error.

EXIT STATUS

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cut-template – print photo positioning templates

SYNOPSIS

cut-template *width1 height1 width2 height2*
cut-template -V

DESCRIPTION

The *cut-template* program is used to print photo positioning templates. The first pair of sizes are the outside rectangle, and the second pair of sizes is the inner rectangle.

OPTIONS

The following options are understood:

-V

Print the version of the *cut-template* program being executed.

All other options will produce a diagnostic error.

EXIT STATUS

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deep-listing – list directory tree

SYNOPSIS

deep-listing [*option...*][*directory...*]
deep-listing -**V**

DESCRIPTION

The *deep-listing* program is used to list information about the files and directories on the command line. Directories are always recursively descended. All files in all directories are sorted as a single list.

OPTIONS

The following options are understood:

- C** Sort files by the ctime (time of last modification of file status information) or mtime (time of last modification), whichever is later. This is often more useful than the file's modification time, because the mtime can be set by the user, but the ctime is set by the kernel (in particular, when the mtime is set). Files are ordered from most recent to least recent time stamp.
- c** Sort files by the ctime (time of last modification of file status information). Files are ordered from most recent to least recent time stamp.
- F** append an indicator (one of */=>@/) to file names to indicate file type.
- G** List in long format, but omit group.
- g** List in long format, but omit owner.
- i** Include the inode number in the long listing.
- l** Use the long listing format.
- n** In the long listing, print numeric owner and group identifiers.
- o** List in long format, but omit group.
- q** Print a question mark (?) instead of non-graphic characters.
- r** reverse order while sorting
- s** In long format, print size of each file, in blocks.
- S** Sort by file size. Files are ordered from smallest to largest.
- t** Sort by modification time. Files are ordered from most recent to least recent time stamp.
- u** Sort by access time. Files are ordered from most recent to least recent time stamp.
- V**
Print the version of the *deep-listing* program being executed.
- xP** Do not cross device boundaries, remain in the one file system.

All other options will produce a diagnostic error.

EXIT STATUS

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NAME

detab – expand tabs to spaces

SYNOPSIS

detab [*infile* [*outfile*]]
detab -V

DESCRIPTION

The *detab* program is used to expand tabs in a file into spaces.

If no files are given on the command line, the standard input is read and the results are written on the standard output. If one file is given on the command line, the file is read and the results are written on the standard output. If two files are given on the command line, the first file is read and the results are written to the second file.

OPTIONS

The following options are understood:

-V

Print the version of the *detab* program being executed.

All other options will produce a diagnostic error.

EXIT STATUS

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dir-flatten – flatten a directory tree into one directory

SYNOPSIS

dir-flatten [*dir-name*]
dir-flatten -V

DESCRIPTION

The *dir-flatten* program is used to flatten a directory tree into a single directory. Think of it as replacing all the slash (“/”) characters with underscore (“_”) characters.

OPTIONS

The following options are understood:

-V

Print the version of the *dir-flatten* program being executed.

All other options will produce a diagnostic error.

EXIT STATUS

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dir-mod-time – set directory mod-times from contents

SYNOPSIS

dir-mod-time [*directory...*]

DESCRIPTION

The *dir-mod-time* program is used to recursively descend directory trees and use the most recent last-modified time-stamp of the contents to set the directory's last-modified time stamp.

If no directories are named on the command line, the current directory is assumed. The time set for each directory named is printed.

OPTIONS

The following options are understood:

- n** This option may be used to specify that no action be taken, only print the times, do not change the directory meta-data.
- v** This option may be used to request verbose output, printing the time for every directory processed, no just the top-level directories.
- V** Print the version of the *dir-mod-time* program being executed.

All other options will produce a diagnostic error.

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dir-to-index-html – walk directory trees building index.html

SYNOPSIS

dir-to-index-html *dir-name*
dir-to-index-html -V

DESCRIPTION

The *dir-to-index-html* program is used to walk a directory tree, and build an `index.html` file for that directory tree, linked to all the other `index.html` files in the tree. The result is written to the standard output.

OPTIONS

The following options are understood:

-o *filename*

Write the output to the named file, rather than to the `index.html` file in the give directory. The name "-" means the standard output.

-V

Print the version of the *dir-to-index-html* program being executed.

All other options will produce a diagnostic error.

EXIT STATUS

The *dir-to-index-html* command terminates with an exit status of 1 for all errors. It will only have an exit status of 0 if there are no errors.

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dms-to-deg – convert degrees minutes and seconds to decimal degrees

SYNOPSIS

dms-to-deg *deg:min:sec* ...

dms-to-deg -V

DESCRIPTION

The *dms-to-deg* program is used to convert from degrees minutes and seconds to decimal degrees. You may specify *degrees:minutes* or *degrees:minutes:seconds* arguments on the command line, and each will be interpreted and printed on the standard output, one perline.

OPTIONS

The following options are understood:

-V

Print the version of the *dms-to-deg* program being executed.

All other options will produce a diagnostic error.

EXIT STATUS

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NAME

dos-to-unix – translate DOS text format to UNIX text format

SYNOPSIS

dos-to-unix [*option...*] [*filename...*]
dos-to-unix -V

DESCRIPTION

The *dos-to-unix* program is used to translate DOS text format to UNIX text format. The output is wrtten to the standard output. The translation is **not** done *in situ*. If more than one file is named, all will be translated, and appear on the standard output concatenated head-to-tail.

OPTIONS

The following options are understood:

- i Process filenames on the command line in place, replacing each named file with the translated text when finished.
- r Recursively descend any directories named, translating the files found in place. If no files named on the command line, it process all files below the current directory (“.”). (Also implies the -i option.)
- V Print the version of the *dos-to-unix* program being executed.

All other options will produce a diagnostic error.

EXIT STATUS

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downcase-file-names – rename file in a tree to be lower case

SYNOPSIS

downcase-file-names [*directory...*]

DESCRIPTION

The *downcase-file-names* program is used to recursively descend directory trees and rename files to be all lower case.

If no directories are named on the command line, the current directory is assumed. The time set for each directory named is printed.

OPTIONS

The following options are understood:

- f** This option may be used to turn all shell special characters (just about all non-alpha-numeric characters) into underscores.
- n** This option may be used to specify that no action be taken, only print commands, do not change the file names.
- S** Replace spaces in file names with minus.
- s** Replace spaces in file names with underscore.
- C *char*** Replace spaces in file names with the specified character. The character **must** be a punctuation character.
- v** This option may be used to request verbose output, printing the commands before they are executed.
- V** Print the version of the *downcase-file-names* program being executed.

All other options will produce a diagnostic error.

EXIT STATUS

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dumb-database – simple text database tool

SYNOPSIS

dumb-database [*option...*]
dumb-database -V

DESCRIPTION

The *dumb-database* program is used to access a simple text database.

OPTIONS

The following options are understood:

-e

export

-V

Print the version of the *dumb-database* program being executed.

All other options will produce a diagnostic error.

EXIT STATUS

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english-to-number – translate a number in English into a decimal number

SYNOPSIS

english-to-number [*option...*]
english-to-number -V

DESCRIPTION

The *english-to-number* program is used to translate a number in English into a decimal number.

OPTIONS

The following options are understood:

- t
This option is used to trace the calculated values, as the number is parsed.
- V
Print the version of the *english-to-number* program being executed.
- y
This option is used to turn on yacc grammar debugging as the number is parsed.

All other options will produce a diagnostic error.

EXIT STATUS

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NAME

feminine-suffix – look for feminine/masculine word pairs

SYNOPSIS

feminine-suffix [*option...*]
feminine-suffix -**V**

DESCRIPTION

The *feminine-suffix* program is used to look for feminine/masculine word pairs in an English dictionary file.

OPTIONS

The following options are understood:

-**f** *filename*

This option may be used to read in the given file into the word list to be checked.

Examples of feminine and masculine word pairs are *aviatrix* and *aviator*.

-**V**

Print the version of the *feminine-suffix* program being executed.

All other options will produce a diagnostic error.

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NAME

file-date – print date and time for files

SYNOPSIS

file-date [*option...*]
file-date -V

DESCRIPTION

The *file-date* program is used to print the date and time for files.

OPTIONS

The following options are understood:

- a Print the last access time of the file.
- c Print the last inode change time of the file.
- F *string*
 Use this format when printing the date and time. See *strftime(3)* for details. The default format is "%c", the locale's generic format.
- m Print the last modification time of the file.
- n Do not print the names of files. This is the default if only one file is named on the command line.
- p Print the name of each file, and a tab, before printing the date. This is the default if more than one file is named on the command line.
- r Print the last modification time of the file, or the inode change time of the file, whichever is most recent. This is the default.
- V Print the version of the *file-date* program being executed.

All other options will produce a diagnostic error.

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find-broken-symlinks – walk directory looking for broken symbolic links

SYNOPSIS

find-broken-symlinks [*directory*]
find-broken-symlinks -V

DESCRIPTION

The *find-broken-symlinks* program is used to recursively walk a directory tree looking for broken (dangling) symbolic links. If no directory is given, the current directory is assumed.

OPTIONS

The following options are understood:

-V

Print the version of the *find-broken-symlinks* program being executed.

All other options will produce a diagnostic error.

EXIT STATUS

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NAME

fix-copyright-indent – adjust header comments at top of file

SYNOPSIS

fix-copyright-indent [*option...*]
fix-copyright-indent -V

DESCRIPTION

The *fix-copyright-indent* program is used to adjust the header comments at the top of a C++ source file.

OPTIONS

The following options are understood:

-V

Print the version of the *fix-copyright-indent* program being executed.

All other options will produce a diagnostic error.

EXIT STATUS

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fix-dos-files – walk a directory tree converting DOS files to UNIX files

SYNOPSIS

fix-dos-files [*option...*]
fix-dos-files -V

DESCRIPTION

The *fix-dos-files* program is used to walk a directory, converting all the files with CRLF line termination (DOS) into LF line termination (Unix).

OPTIONS

The following options are understood:

- b Normally binary files are left unchanged. This option requests that binary files also be changed.
- l List the problem files, rather than converting them.
- V Print the version of the *fix-dos-files* program being executed.

All other options will produce a diagnostic error.

EXIT STATUS

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fix-pace-types – replace Pace’s dumb types with C standard types

SYNOPSIS

fix-pace-types [*option...*] *filename...*

fix-pace-types [*option...*]

fix-pace-types -V

DESCRIPTION

The *fix-pace-types* program is used to replace Pace’s dumb types with C standard types.

If given a list of file names, it will fix those files *in situ*. If given no file names, it will translate the standard input to the standard output.

OPTIONS

The following options are understood:

-V Print the version of the *fix-pace-types* program being executed.

All other options will produce a diagnostic error.

EXIT STATUS

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NAME

fix-unprintable-filenames – rename files with unprintable names

SYNOPSIS

fix-unprintable-filenames [*pathname...*]
fix-unprintable-filenames -V

DESCRIPTION

The *fix-unprintable-filenames* program is used to rename file with unprintable names, recursively descending directories find necessary. Unprintable characters are replaced with underscore (_). If no directory is named, the current directory is assumed.

OPTIONS

The following options are understood:

-V

Print the version of the *fix-unprintable-filenames* program being executed.

All other options will produce a diagnostic error.

EXIT STATUS

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fix-white-space – remove trailing white space

SYNOPSIS

fix-white-space [*option...*]
fix-white-space -V

DESCRIPTION

The *fix-white-space* program is used to remove trailing white space from text files. If no filenames appear on the command line it reads the standard input and writes the standard output. If file names are present, they are fixed *in situ*.

OPTIONS

The following options are understood:

-V

Print the version of the *fix-white-space* program being executed.

All other options will produce a diagnostic error.

EXIT STATUS

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fsf-address-fix – repair obsolete FSF postal addresses

SYNOPSIS

fsf-address-fix [*option...*] *filename...*
fsf-address-fix -V

DESCRIPTION

The *fsf-address-fix* program is used to repair obsolete FSF postal addresses in source files.

OPTIONS

The following options are understood:

-I *number*

Set the length of text lines for line wrapping. Defaults to 75 if not set (the same as the *fmt*(1) command).

-V

Print the version of the *fsf-address-fix* program being executed.

All other options will produce a diagnostic error.

EXIT STATUS

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geotrans-ang – convert longitude and latitude to eastings and northings

SYNOPSIS

geotrans-ang *longitude latitude...*]
geotrans-ang -i [*-z zone*] *easting northing...*]
geotrans-ang -V

DESCRIPTION

The *geotrans-ang* program is used to form longitude and latitude to pre-1966 Australian National Grid (ANG) eastings and northings, or the inverse.

OPTIONS

The following options are understood:

- c** Perform a correction so that degrees are in the WGR84 datum, not the ANG datum. This is approximate, there is no officially published correction.
- i** Perform the inverse.
- V** Print the version of the *geotrans-ang* program being executed.
- z zone** The zone of the eastings and northings. Zone 1 is 116 degees east, zone 8 is 151 degrees east.

All other options will produce a diagnostic error.

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NAME

geotrans-mgrs – convert between lat/long and MGRS

SYNOPSIS

geotrans-mgrs *longitude latitude*
geotrans-mgrs -i *easting northing*
geotrans-mgrs -V

DESCRIPTION

The *geotrans-mgrs* program is used to convert from longitude and latitude to an MGRS WGR84 easting and northing, or its inverse.

OPTIONS

The following options are understood:

-i Perform the inverse calculation.

-V

Print the version of the *geotrans-mgrs* program being executed.

All other options will produce a diagnostic error.

EXIT STATUS

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NAME

geotrans-triangle-node – translate e/n triangle nodes to l/l

SYNOPSIS

geotrans-triangle-node **-a** [[*in-file* [*out-file*]]
geotrans-triangle-node **-V**

DESCRIPTION

The *geotrans-triangle-node* program is used to translate *triangle(1)* node files with eastings and northings to have latitude and longitude attributes as well.

This is most often used to take a node file which maps image pixel values to graticule intersection points. This is used as input to the *gps-track-plot(1)* command.

Input Format

The input format is that of *triangle(1)* node files, but it is expected to have 2 additional attributes. The output to augment these attributes with two more. The columns are as follows:

1. The node number, counting from one.
2. The X pixel coordinate of the image.
3. The Y pixel coordinate of the image.
4. The easting of the coordinate.
5. The northing of the coordinate.
6. The longitude of the coordinate (output only).
7. The latitude of the coordinate (output only).

This is then passed to the *triangle(1)* command to produce a list of elements.

OPTIONS

The following options are understood:

- a** Use the pre-1966 Australian National Grid (ANG). The default is to use MGRS WGR84.
- c** Perform an ANG correction so that degrees are in the WGR84 datum, not the ANG datum (only meaningful with the **-a** option). This is approximate, there is no officially published correction.
- V** Print the version of the *geotrans-triangle-node* program being executed.

All other options will produce a diagnostic error.

EXIT STATUS

The *geotrans-triangle-node* command terminates with an exit status of 1 for all errors. It will only have an exit status of 0 if there are no errors.

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getaddrinfo – network address and service translation

SYNOPSIS

getaddrinfo **-n** *node-name*
getaddrinfo **-s** *service-name*
getaddrinfo **-V**

DESCRIPTION

The *getaddrinfo* program is used to query the *getaddrinfo(3)* system call about a given node or service.

OPTIONS

The following options are understood:

-n *node-name*

This option is used to specify a node to query.

-s *service-name*

This option is used to specify a service to query.

-V Print the version of the *getaddrinfo* program being executed.

All other options will produce a diagnostic error.

EXIT STATUS

The *getaddrinfo* command terminates with an exit status of 1 for all errors. It will only have an exit status of 0 if there are no errors.

SEE ALSO

getaddrinfo(3)
network address and service translation

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NAME

getrlimit – get resource limits

SYNOPSIS

getrlimit [**-V**]

DESCRIPTION

The *getrlimit* program is used to print the values of the various resource limits.

Usually the program prints a simple table on the standard output. If invoked as a CGI program by a web server, it emits HTML of the same table.

OPTIONS

The following options are understood:

-V

Print the version of the *getrlimit* program being executed.

All other options will produce a diagnostic error.

EXIT STATUS

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NAME

google-translate – translate text via the Google translate web page

SYNOPSIS

google-translate [*option...*]
google-translate -V

DESCRIPTION

The *google-translate* program is used to translate text from one language to another, via the Google translate web page. You must be connected to the Internet for this to work.

OPTIONS

The following options are understood:

- F *lang* The language to translate from (international standard 2-character abbreviation).
- T *lang* The language to translate to (international standard 2-character abbreviation).
- t '*text*' Specify some text to translate. If the option is not used, the text is read from the standard input.
- V Print the version of the *google-translate* program being executed.
- v Increase verbosity, mostly only useful for debugging.

All other options will produce a diagnostic error.

EXIT STATUS

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NAME

gpl-version-fix – change GPL version numbers

SYNOPSIS

gpl-version-fix [*option...*]
gpl-version-fix -V

DESCRIPTION

The *gpl-version-fix* program is used to change GPL version numbers in file header comments.

OPTIONS

The following options are understood:

- L Instead of changing the version, look for "GNU General Public License" and replace it with "GNU Lesser General Public License".
- l *number*
 Length of line for line wrapping purposes. Defaults to 75, same as *fmt(1)*.
- n *number*
 The desired GNU GPL version number. Defaults to three.
- v This option may be used to have the name of each file printed as it is processed.
- V Print the version of the *gpl-version-fix* program being executed.

All other options will produce a diagnostic error.

EXIT STATUS

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NAME

gps-track-plot – plot GPS tracks and waypoints on image

SYNOPSIS

gps-track-plot [*option...*]
gps-track-plot -V

DESCRIPTION

The *gps-track-plot* program is used to plot GPS waypoints and track logs on images.

It uses triangle informed generated by the *triangle(1)* program to map the latitudes and longitudes into image pixel coordinates.

Use the *geotrans-triangle-node(1)* command to map eastings and northings into latitudes and longitudes.

Use the *gpstrans(1)* command to download waypoints and tracks from your GPS.

File Names

The image files and their related node files and elements files are closely related. If your image is *fubar.png* then the node file is expected to be *fubar.node* and your elements file is expected to be *fubar.ele*. Use symlinks or hard links if necessary.

OPTIONS

The following options are understood:

-i *input-image*

The image to be read, and have points plotted on it.

-o *output-image*

The file to have the image written to. It will be same format as the input file, no matter what file suffix you use.

-t *track-file*

The track file downloaded by the *gpstrans(1)* command.

-V Print the version of the *gps-track-plot* program being executed.

All other options will produce a diagnostic error.

EXIT STATUS

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NAME

gps-track-split – add description here

SYNOPSIS

gps-track-split *filename*
gps-track-split **-V**

DESCRIPTION

The *gps-track-split* program is used to split GPS track files (as downloaded by the *gpstrans*(1) command) into individual files by date.

The output file names are based on the input file name, which a sortable date inserted.

OPTIONS

The following options are understood:

- q** Do not print progress messages.
- V** Print the version of the *gps-track-split* program being executed.

All other options will produce a diagnostic error.

EXIT STATUS

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NAME

graph-paper – draw graph paper

SYNOPSIS

graph-paper [*pattern...*]
graph-paper -V

DESCRIPTION

The *graph-paper* program is used to draw A4 sheets of graph paper.

You specify the pattern to be drawn on the command line. You may specify more than one, and you will get that many pages of output. Known patterns are: square (the default), polar and triangle. Pattern names may be abbreviated to the first letter.

OPTIONS

The following options are understood:

-V

Print the version of the *graph-paper* program being executed.

All other options will produce a diagnostic error.

EXIT STATUS

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NAME

guess-txt-paragraphs – clean up .txt files ready for ebook-convert

SYNOPSIS

guess-txt-paragraphs [*option...*] [*infile* [*outfile*]]
guess-txt-paragraphs -V

DESCRIPTION

The *guess-txt-paragraphs* program is used to prepare a .txt file for conversion by the *ebook-convert*(1) program.

OPTIONS

The following options are understood:

- c By default, CRLF line termination is transparently mapped into LF line termination. This option says not to do that (which will confuse some of the later options).
- f By default, form feed characters (used by some programs to indicate a new page in the book) are removed, carefully joining sentences that span page boundaries. This option says not to filter out form feed characters.
- m By default, white space is added either side of mdash characters, so that the ebook reader has better line wrap options. This option says no to add white space either side of mdash characters.
- p By default, multi-line paragraphs are folded into a single line per paragraph, because this works best with *ebook-convert*(1), but is much harder for humans to read the resulting .txt file. This option says not to put one paragraph per line, but instead separate multi-line paragraphs with a blank line.
- q By default, when necessary, white space is added to the left of opening double quotes characters, and to the right of closing double quote characters. This option says not to add this white space.
- V Print the version of the *guess-txt-paragraphs* program being executed.

All other options will produce a diagnostic error.

EXIT STATUS

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NAME

heart-rate-training-zone – calculate your training zone

SYNOPSIS

heart-rate-training-zone *age-in-years*

heart-rate-training-zone **-V**

DESCRIPTION

The *heart-rate-training-zone* program is used to calculate you optimal heart rate training zone.

OPTIONS

The following options are understood:

-V

Print the version of the *heart-rate-training-zone* program being executed.

All other options will produce a diagnostic error.

EXIT STATUS

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NAME

ip-list – list network interfaces

SYNOPSIS

ip-list [*option...*]
ip-list -V

DESCRIPTION

The *ip-list* program is used to list the known network interfaces, both up and down.

OPTIONS

The following options are understood:

-V

Print the version of the *ip-list* program being executed.

All other options will produce a diagnostic error.

EXIT STATUS

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NAME

is-dos-format – list DOS text files

SYNOPSIS

```
is-dos-format [ option... ] filename...
is-dos-format [ option... ] -f file-of-filenames ]
is-dos-format -V
```

DESCRIPTION

The *is-dos-format* program is given a list of files on the command line, and prints the names of all DOS formatted text files on the standard output.

One common use for this program is to filter the results if the *find*(1) command. For example:

```
find . -type f | is-dos-text -f- | xargs -l dos2unix
```

This pipeline ensures that *dos2unix*(1) is only ever passed DOS formatted text files.

OPTIONS

The following options are understood:

-f *filename*

The **-f** option may be used to specify a file to read the filenames from, rather than the command line, one file name per line. The filename "-" is understood to mean the standard input.

-n Invert the result, print the names of all binary files on the standard output.

-V Print the version of the *is-dos-format* program being executed.

All other options will produce a diagnostic error.

EXIT STATUS

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is-not-binary – list text (non-binary) files

SYNOPSIS

is-not-binary [*option...*] *filename...*
is-not-binary [*option...*] **-f** *file-of-filenames*]
is-not-binary **-V**

DESCRIPTION

The *is-not-binary* program is given a list of files on the command line, and prints the names of all non-binary files on the standard output. Because text files can contain just about anything these days, to encompass all of the necessary characters sets, binary files contain a NUL character (the only character that text encodings never use).

One common use for this program is to filter the results if the *find*(1) command. For example:

```
find . -type f | xargs is-not-binary | xargs grep blah
```

This pipeline ensures that *grep*(1) is only ever passed text files.

OPTIONS

The following options are understood:

-f *filename*

The **-f** option may be used to specify a file to read the filenames from, rather than the command line, one file name per line. The filename "-" is understood to mean the standard input.

-n Invert the result, print the names of all binary files on the standard output.

-V Print the version of the *is-not-binary* program being executed.

All other options will produce a diagnostic error.

EXIT STATUS

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NAME

life-search-ga – life search using genetic algorithms

SYNOPSIS

life-search-ga [*option...*]

life-search-ga -V

DESCRIPTION

The *life-search-ga* program is used to search for gliders and space ships in Conway's game of Life.

OPTIONS

The following options are understood:

-w *number*

width

-h *number*

height

-x *number*

how far to move x-wards in one period

-y *number*

how far to move y-wards in one period

-p *number*

period

-V Print the version of the *life-search-ga* program being executed.

All other options will produce a diagnostic error.

EXIT STATUS

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link-tree-path – make links into a search tree union

SYNOPSIS

link-tree-path [*option...*]
link-tree-path -V

DESCRIPTION

The *link-tree-path* program is used to make a tree of symbolic links into a union search tree.

OPTIONS

The following options are understood:

-V Print the version of the *link-tree-path* program being executed.

-v Echo each of the actions performed, as they are performed.

-*xpattern*

This option may be used to exclude files from being linked. It is a regular “glob” pattern. This option may be used more than once.

All other options will produce a diagnostic error.

EXIT STATUS

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NAME

lspath – list search path

SYNOPSIS

lspath [*option...*]
lspath -V

DESCRIPTION

The *lspath* program is used to list the executables found along the command search PATH environment variable. Output is sorted by file name.

OPTIONS

The following options are understood:

-d

List all duplicates found, not just the first found.

-E *environment-variable-name*

Use the path found in the named environment variable. The default is the PATH environment variable.

-P *string*

Search the given path list. Directories to search are separated by colons.

-r

Search for readable files. May be used with the **-x** option to specify readable or executable, or may be used without the **-x** to specify readable files only. The default is to search for executable files only.

-V

Print the version of the *lspath* program being executed.

-x

Search for executable files. May be used with the **-r** option to specify readable or executable files. The default is to search for executable files only.

All other options will produce a diagnostic error.

EXIT STATUS

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NAME

luhn – add description here

SYNOPSIS

luhn [*-g*] *number*

luhn *-V*

DESCRIPTION

The *luhn* program is used to calculate Luhn checksums. If the result printed is zero, the number includes a valid checksum.

For more information see http://www.webopedia.com/TERM/L/Luhn_formula.html or http://en.wikipedia.org/wiki/Luhn_algorithm

Based on ANSI X4.13, the LUHN formula (also known as the modulus 10 -- or mod 10 -- algorithm) is used to generate and/or validate and verify the accuracy of credit-card numbers.

The LUHN formula was created in the late 1960s by a group of mathematicians. Shortly thereafter, credit card companies adopted it. Because the algorithm is in the public domain, it can be used by anyone.

OPTIONS

The following options are understood:

-V Print the version of the *luhn* program being executed.

-g Generate a check digit, rather than validating.

All other options will produce a diagnostic error.

EXIT STATUS

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NAME

magic-square – generate magic squares

SYNOPSIS

magic-square [*option...*]

magic-square -V

DESCRIPTION

The *magic-square* program is used to generate magic squares.

In recreational mathematics, a magic square of order n is an arrangement of $n \times n$ numbers, usually distinct integers, in a square, such that the n numbers in all rows, all columns, and both diagonals sum to the same constant. A normal magic square contains the integers from 1 to $n \times n$.

See http://en.wikipedia.org/wiki/Magic_square for more information.

The *magic-square* program is able to generate magic squares of arbitrary size, by using several different algorithms, depending on the order or magic square desired.

OPTIONS

The following options are understood:

--file=path | **-fpath**

This option may be used to read in a magic square from a text file. It is expected that each row of the magic square will appear as a single line of text. Comments start with a hash “#” and extend until the end of the line. Comments and blank lines are ignored. Numbers are permitted to be negative.

When *magic-square*(1) prints magic squares, the output format matches this input format. This permits round-trip behavior, including calculation temporaries, *etc.*

If a comment of the form “# Name: *text*” is seen, this will set the name of the magic square. This is to permit consistent round-trip behavior. No other attributes are preserved, because they are all able to be calculated from the magic square’s data.

--frenicle-standard-form | **-F**

The option may be used to transform the magic square to be in Frenicle standard form, if necessary. Using Frenicle standard form allows you to easily see of magic squares are “essentially similar”, or not.

--file=name | **-fname**

This option is used to read a magic square from a text file.

--horizontal-flip | **-h**

This option may be used to flip the magic square left for right.

--list | **-l**

This option is used to print a list of known magic-square names, and exit.

--list-by-size=size | **-Lsize**

This option is used to print a list of the names of known magic-square algorithms that are able to generate magic squares of the size given.

--multiple=n | **-m n**

This option may be used to multiply each cell of the magic square by a given constant. It will still be a magic square after this transform.

--name=string | **-n string**

blah blah

--offset=n | **-o n**

This option may be used to add a fix constant to each cell of the magic square. It will still be a magic square after this transform.

--rotate=angle | **-rangle**

This option may be used to rotate the magic square *angle* degrees. Positive angles rotate clockwise, negative angles rotate anti-clockwise. Only angles of 90, 180 and 270 degrees are supported.

--size=n | **-s n**

This option may be used to select the size of magic square that is desired. This is the number of cells along each edge of the magic square.

--transpose | **-t**

This option may be used to swap the X and Y axes of the magic square (or you can think of it as a diagonal mirror). It will still be a magic square after this transform.

--version | **-V**

Print the version of the *magic-square* program being executed.

--vertical-flip | **-v**

This option may be used to flip the magic square top for bottom.

All other options will produce a diagnostic error.

EXIT STATUS

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mastermind – the game of mastermind

SYNOPSIS

mastermind [*option...*]
mastermind -V

DESCRIPTION

The *mastermind* program is used to play the game of mastermind. It isn't much use to a game player, though, because the computer plays both halves. The program was used, instead, to calculate the average number of guesses required to solve the puzzle.

OPTIONS

The following options are understood:

-c *number*

The number of colours possible in each position. Defaults to 6 if not set.

-p *number*

The number of positions in each code. Defaults to 4 if not set.

-r *number*

The number of games to play in order to average meaningfully. Defaults to 100 if not set.

-v Verbose. Print a trace of every game played.

-V Print the version of the *mastermind* program being executed.

All other options will produce a diagnostic error.

EXIT STATUS

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maths-tables – calculate and print maths tables

SYNOPSIS

maths-tables [*option...*] *function*

maths-tables -V

DESCRIPTION

The *maths-tables* program is used to calculate and print maths tables, much like those that were in use until electronic calculators became ubiquitous.

OPTIONS

The following options are understood:

-d *number*

level of detail, used to adjust the number of decimal places.

-V

Print the version of the *maths-tables* program being executed.

All other options will produce a diagnostic error.

EXIT STATUS

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NAME

msg-comment-check – check .po entries for comments

SYNOPSIS

msg-comment-check *filename*
msg-comment-check **-V**

DESCRIPTION

The *msg-comment-check* program is used to check that message catalog files have #. comments extracted from the code. This makes it possible to ensure that all messages in the catalogue are described for the translators.

OPTIONS

The following options are understood:

-V

Print the version of the *msg-comment-check* program being executed.

All other options will produce a diagnostic error.

EXIT STATUS

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NAME

net-connect-times – time how long connections take

SYNOPSIS

net-connect-times [*option...*] *hostname...*
net-connect-times -**V**

DESCRIPTION

The *net-connect-times* program is used to time how long connections take. This is an indication of how fast the connection to a site is. You may name more than one host, in order to perform a comparison.

This command is useful to figure out which SourceForge.net mirror is best, or which Ubuntu mirror is best.

To sort the results, with the fastest last, use the

```
net-connect-times hostnames... | sort +3nr
```

command, with appropriate host names.

This command can run quite slowly if you name many hosts, or if some hosts on the list do not replay and the connect attempts have to time out. The connection attempts are *not* run in parallel.

OPTIONS

The following options are understood:

-**n** *number*

This may be used to specify the number of iterations. Defaults to 10 if not set.

-**p** *number*

This may be used to specify the port to connect to. Defaults to 80 if not set.

-**v** Verbose. Prints out a comforting progress message each time around the probe loop.

-**V** Print the version of the *net-connect-times* program being executed.

All other options will produce a diagnostic error.

EXIT STATUS

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NAME

no-spaces-in-file-names – rename files to remove spaces

SYNOPSIS

no-spaces-in-file-names [*option...*]
no-spaces-in-file-names **-V**

DESCRIPTION

The *no-spaces-in-file-names* program is used to rename files so that there are no spaces (or other shell special characters) in the file name. It works recursively. If no directory is named, the current directory(.) is used.

OPTIONS

The following options are understood:

- n** Perform no action, useful in combination with **-v** to see what would happen.
- v** Print verbose progress messages, one for each file or directory renamed.
- V** Print the version of the *no-spaces-in-file-names* program being executed.

All other options will produce a diagnostic error.

EXIT STATUS

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NAME

number-to-english – turn a number into English text

SYNOPSIS

number-to-english [*option...*] *number*
number-to-english -V

DESCRIPTION

The *number-to-english* program is used to turn a number into English text.

OPTIONS

The following options are understood:

- a Use ugly American values (billion is 1e9) and phrasing.
- e Use correct English values (billion is 1e12) and phrasing. This is the default.
- V Print the version of the *number-to-english* program being executed.

All other options will produce a diagnostic error.

EXIT STATUS

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NAME

obfuscate-url – make email URLs less greppable

SYNOPSIS

obfuscate-url [*option...*] *mail-address...*
obfuscate-url -V

DESCRIPTION

The *obfuscate-url* program is used to replace special characters in email addresses with appropriate text such that web browsers can still display them correctly but spammers mostly fail to see.

OPTIONS

The following options are understood:

-V

Print the version of the *obfuscate-url* program being executed.

All other options will produce a diagnostic error.

EXIT STATUS

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NAME

p2u – Primos to Unix text files

SYNOPSIS

p2u [*filename...*]
p2u -R [*directory...*]
p2u -V

DESCRIPTION

The *p2u* program is used to convert text files in Primos format into text files in Unix format. Files which are not Primos text files will be left alone. When files are converted *in situ* their last-time-modified will be preserved.

If file names are specified on the command line, they will be converted *in situ*. If no files are named on the command line, the standard input will be converted and written to the standard output.

If the recursive option is specified, the directories named will be walked. If no directories are named, the current directory is assumed.

OPTIONS

The following options are understood:

- R** Recursively descend directories, converting all Primos text files found.
- V** Print the version of the *p2u* program being executed.

All other options will produce a diagnostic error.

EXIT STATUS

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NAME

palindromic-numbers – find palindromic numbers

SYNOPSIS

palindromic-numbers [*option...*]
palindromic-numbers -V

DESCRIPTION

The *palindromic-numbers* program is used to find palindromic numbers.

It is a curious property of most base 10 numbers that if you take almost any number, and reverse the digits and add it to the original number, after a few iterations you will arrive at a number which is a palindrome (the same forwards as backwards).

There are exceptions. It is not know whether *all* numbers will eventually reach a palindrome, or that some never converge.

OPTIONS

The following options are understood:

-V

Print the version of the *palindromic-numbers* program being executed.

All other options will produce a diagnostic error.

EXIT STATUS

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NAME

pathconf – Get configuration information at runtime

SYNOPSIS

pathconf [*option-name* ...]

DESCRIPTION

The *pathconf* program is used to obtain values of *pathconf*(3) options, used to get configuration information at runtime.

The named options will be printed. If no options are named, all options will be printed.

OPTIONS

The following options are understood:

-f *filename*

Specify the file or directory you want the attributes of. Defaults to dot ("."), the current directory if not specified.

-V

Print the version of the *pathconf* program being executed.

All other options will produce a diagnostic error.

EXIT STATUS

The *pathconf* command terminates with an exit status of 1 for all errors. It will only have an exit status of 0 if there are no errors.

SEE ALSO

pathconf(3)

Get configuration information at runtime.

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NAME

path-env-pack – remove redundant search path elements

SYNOPSIS

path-env-pack [*option...*] *directory...*
path-env-pack -V

DESCRIPTION

The *path-env-pack* program is used to remove redundant directory from search paths in environment variables, such as \$PATH or \$MANPATH.

OPTIONS

The following options are understood:

- e *name* This option may be used to process the value of the given environment variable into the list of directories being built.
- r This option may be used to remove non-existent directory from the search path.
- V Print the version of the *path-env-pack* program being executed.

All other options will produce a diagnostic error.

EXIT STATUS

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NAME

polyfit – least squares polynomial curve fitting

SYNOPSIS

polyfit [*-option...*] [*filename*]
polyfit -V

DESCRIPTION

The *polyfit* program is used to fit a polynomial to a set of points. The least squares algorithm is used.

The file is read for (*x*, *y*) coordinates, space separated, one pair per line. If no file is named, the standard input is read.

OPTIONS

The following options are understood:

-o *number*

This option may be set to the order of polynomial desired. For example **-o2** fits a parabola to the points. Defaults to 1 (fits a straight line) if not set.

-V

Print the version of the *polyfit* program being executed.

All other options will produce a diagnostic error.

EXIT STATUS

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NAME

ppm15puzzle – animate an image mapped onto a 15-puzzle

SYNOPSIS

ppm15puzzle [*option...*]
ppm15puzzle -V

DESCRIPTION

The *ppm15puzzle* program is used to animate an image mapped onto a 15-puzzle.

OPTIONS

The following options are understood:

- b
 make it blue
- V
 Print the version of the *ppm15puzzle* program being executed.
- w
 make it white

All other options will produce a diagnostic error.

EXIT STATUS

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prime-after – find next prime number

SYNOPSIS

prime-after *number*
prime-after -V

DESCRIPTION

The *prime-after* program is used to find the next prime number after the number specified on the command line.

OPTIONS

The following options are understood:

-V

Print the version of the *prime-after* program being executed.

All other options will produce a diagnostic error.

EXIT STATUS

The *prime-after* command terminates with an exit status of 1 for all errors. It will only have an exit status of 0 if there are no errors.

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prime-factors – determine the prime factors of a number

SYNOPSIS

prime-factors *number*

prime-factors **-V**

DESCRIPTION

The *prime-factors* program is used to determine the prime factors of a number supplied on the command line.

OPTIONS

The following options are understood:

-V

Print the version of the *prime-factors* program being executed.

All other options will produce a diagnostic error.

EXIT STATUS

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primes – find and print prime numbers

SYNOPSIS

primes [*minimum* [*maximum*]]
primes -**V**

DESCRIPTION

The *primes* program is used to find and print prime numbers. If no minimum is given, 2 is assumed. If no maximum is given, an interval of 1000 is assumed.

OPTIONS

The following options are understood:

-**V**

Print the version of the *primes* program being executed.

All other options will produce a diagnostic error.

EXIT STATUS

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print_exit_status – execute command and print exit status

SYNOPSIS

print_exit_status *command...*]
print_exit_status -V

DESCRIPTION

The *print_exit_status* program is used to execute another command and print its exit status on the standard output.

OPTIONS

The following options are understood:

-V

Print the version of the *print_exit_status* program being executed.

All other options will produce a diagnostic error.

EXIT STATUS

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print-file-date – add description here

SYNOPSIS

print-file-date [*option...*] *filename...*
print-file-date -V

DESCRIPTION

The *print-file-date* program is used to print a list of files and their dates. The list is sorted on last-time-modified. If directories are named, they will be recursively traversed.

OPTIONS

The following options are understood:

-V

Print the version of the *print-file-date* program being executed.

All other options will produce a diagnostic error.

EXIT STATUS

The *print-file-date* command terminates with an exit status of 1 for all errors. It will only have an exit status of 0 if there are no errors.

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pwgen – random password generator

SYNOPSIS

pwgen

DESCRIPTION

The *pwgen* program is used to generate random 8-character passwords. The result is printed on the standard output.

OPTIONS

The following command options are understood:

-a

--alpha

Only use the 26 ascii lower-case alphabetical characters.

-a

--hex

Only use the 16 ascii lower-case hexadecimal characters.

-L

--label

Construct a new 11-character disk label, composed from (1) your login name, (b) a hyphen character, and (c) as many numeric digits as required to be 11 characters in total.

-l *number*

--length=*number*

Set the length of the output string (including the prefix). Defaults to 8 if not set.

-p *string*

--prefix=*string*

This option may be used to force a particular string prefix.

-V

--version

Print the version of the pwgen program and quit.

All other options will give a diagnostic error.

EXIT STATUS

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quoted-printable – MIME quoted printable encoding

SYNOPSIS

quoted-printable -d [*infile* [*outfile*]]

quoted-printable -e [*infile* [*outfile*]]

quoted-printable -V

DESCRIPTION

The *quoted-printable* program is used to encode and decode the MIME Quoted Printable encoding.

OPTIONS

The following options are understood:

-d Decode MIME Quoted Printable to plain text.

-e Encode plain text as MIME Quoted Printable.

-V

Print the version of the *quoted-printable* program being executed.

All other options will produce a diagnostic error.

EXIT STATUS

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rad-50 – Radix-50 encode and decode

SYNOPSIS

rad-50 [*option...*]
rad-50 -V

DESCRIPTION

The *rad-50* program is used to encode and decode "Rad-50" text.

First Source

Radix-50 was invented by DEC for use on their PDP series of computers. It uses a 40 character subset of ASCII to fit three characters into a 16-bit word (40 in decimal is 50 in octal, the predominant number base used when programming PDP machines). It is used on the ANS to keep the packet size to a minimum. ANS devices rarely actually have to encode or decode Radix-50 strings at run-time, usually it is sufficient to compare encoded strings.

The ANS version of Radix-50 is slightly different to the DEC version. The dollar is replaced by an underscore and the unassigned DEC character position is replaced by the null character and moved to the end of the character table. This character may be used to pad strings which do not exactly fill a whole number of 16-bit words.

All Radix-50 strings must be a multiple of three characters long and should be padded by spaces at the end if necessary. To encode the character sequence "xyz" into the 16-bit word *e* the following formula should be used:

$$e = (((x * 40) + y) * 40) + z$$

Second Source

RADIX-50, commonly called "Rad-50", is a character encoding created by DEC for use on their PDP series and DECsystem-10 and DECSYSTEM-20 computers. RADIX-50's 40-character repertoire (050 in octal) allows up to 3 characters to be encoded and packed into 16 bits (PDP-11) or 6 characters plus flag information into one 36-bit word (PDP-6, PDP-10, DECsystems). The 40 characters are (in order) space, uppercase A-Z, \$ (dollar sign), . (period), "undefined", and 0-9. Some applications may substitute another character such as % (percent) for the undefined code.

Strings are encoded big-endian, with the first character in the most significant position. For example, the string "ABC", with character values 1, 2, and 3, would be encoded as $(1*40 + 2) * 40 + 3 = 1683$. When there are fewer than three characters, they are padded with trailing spaces. 16-bit encoded values range from 0 (three spaces) to 63999 ("999").

The use of Rad-50 was the source of the filename size conventions used by the PDP-11 operating systems. Using Rad-50 encoding, six characters of filename could be stored in two sixteen-bit words while three more characters of extension (filetype) could be stored in a third sixteen-bit word. The period that separated the filename and extension was implied (not stored and always present). Rad-50 was also commonly used in the symbol tables of the various PDP-11 programming languages.

OPTIONS

The following options are understood:

-V

Print the version of the *rad-50* program being executed.

All other options will produce a diagnostic error.

SEE ALSO

<http://www.doc.ic.ac.uk/~asher/ubi/ans/radix50.html>

<http://en.wikipedia.org/wiki/RADIX-50>

EXIT STATUS

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railroad-diagram – draw railroad syntax diagrams

SYNOPSIS

railroad-diagram *filename*
railroad-diagram **-V**

DESCRIPTION

The *railroad-diagram* program is used to draw railroad syntax diagrams. The output is PostScript.

OPTIONS

The following options are understood:

-V

Print the version of the *railroad-diagram* program being executed.

All other options will produce a diagnostic error.

INPUT

The input is a very simple format. A name (using C rules) is drawn as a terminal in a box. The input contains a series of productions of the form

name = term ;

Each of the terms are composed of sequences, alterates and loops. The normal case of sequences simple occur one after the other, there is no separator between sequential terms. The terms will be drawn left to right. Here is an example

production = first second third ;

Alternatives are composed as follows with a vertical bar between terms. The terms will be drawn stacked on below the other. Here is an example

production = first | second | third ;

Optional terms are enclosed in square brackets. They are drawn stacked below an empty term. Here is an example

production = [optional] ;

this is a special case of the alternative form

production = EMPTY | optional ;

Loops are delimited with curly braces. They are drawn with a backwards line with an arrow for clarity. Here is an example

production = { one_or_more } ;

You can also use parentheses for grouping. Here is an example

production = one (two | three) four ;

Each of these examples can be used and mised to create arbitrarily complex diagrams.

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random_lines – randomize line order

SYNOPSIS

random_lines [*option...*]
random_lines -V

DESCRIPTION

The *random_lines* program is used to read a text file, and print out the lines of text in a random order.

OPTIONS

The following options are understood:

-V

Print the version of the *random_lines* program being executed.

All other options will produce a diagnostic error.

EXIT STATUS

The *random_lines* command terminates with an exit status of 1 for all errors. It will only have an exit status of 0 if there are no errors.

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NAME

readlink – add description here

SYNOPSIS

readlink *filename...*
readlink -V

DESCRIPTION

The *readlink* program is used to read the text value of symbolic links and print them out.

OPTIONS

The following options are understood:

-V

Print the version of the *readlink* program being executed.

All other options will produce a diagnostic error.

EXIT STATUS

The *readlink* command terminates with an exit status of 1 for all errors. It will only have an exit status of 0 if there are no errors.

SEE ALSO

readlink(2)
read value of a symbolic link

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redent – change a file’s indenting

SYNOPSIS

redent [*option...*]

redent [*option...*] *filename...*

redent -V

DESCRIPTION

The *redent* program is used to change a text file’s indenting. This is of most use when dealing with program source code files. The current source indent multiple of the text is determined automatically.

If no files are named on the command line, it acts as a filter, reading from stdin and writing to stdout. If any files are named on the command line, each file is processed *in situ*, allowing batches of files to be re-indented in a single command.

OPTIONS

The following options are understood:

-I Rather than re-indent each file, this option requests that the automatically determined input shift width be displayed; the input files will be unaltered.

-s *number*

This option is used to set the desired shift width. Defaults to 4 if not set.

-T *tab-stop*

This option is used to specify the column width of the horizontal tab character. It defaults to 8. No tabs are used on output.

-V Print the version of the *redent* program being executed.

All other options will produce a diagnostic error.

EXIT STATUS

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remove-meta-characters – remove unprintable (non-ascii-7) text

SYNOPSIS

remove-meta-characters [*option...*]
remove-meta-characters -V

DESCRIPTION

The *remove-meta-characters* program is used to filter a text stream to remove unprintable characters and over-long lines.

Input is read from the standard input and written to the standard output. No provision is made to read from or write to files.

OPTIONS

The following options are understood:

-V

Print the version of the *remove-meta-characters* program being executed.

All other options will produce a diagnostic error.

EXIT STATUS

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rgb_hunt – search rgb.txt

SYNOPSIS

rgb_hunt *red green blue*
rgb_hunt **-V**

DESCRIPTION

The *rgb_hunt* program is used to search the X11 `rgb.txt` file for the named colour most closely matching the RGB triple given on the command line.

OPTIONS

The following options are understood:

-V

Print the version of the *rgb_hunt* program being executed.

All other options will produce a diagnostic error.

EXIT STATUS

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robots-txt-gen – generate top-level robots.txt file from sub-directories

SYNOPSIS

robots-txt-gen [*option...*]
robots-txt-gen -V

DESCRIPTION

The *robots-txt-gen* program is used to generate the top-level `robots.txt` file from the file of the same name in sub-directories.

The Apache configuration file is read to locate all of the other places which need to be scanned by recursive descent.

OPTIONS

The following options are understood:

-a *pattern*

Add the given pattern to the allowed list. It is a normal shell file globbing pattern, except that the slash (/) character is not special (matches wildcards).

-c *filename*

The absolute path of the Apache configuration file. Defaults to `/etc/apache/httpd.conf` if not set.

-d *pattern*

Add the given pattern to the disallowed list. It is a normal shell file globbing pattern, except that the slash (/) character is not special (matches wildcards).

-V

Print the version of the *robots-txt-gen* program being executed.

All other options will produce a diagnostic error.

EXIT STATUS

The *robots-txt-gen* command terminates with an exit status of 1 for all errors. It will only have an exit status of 0 if there are no errors.

SEE ALSO

<http://www.robotstxt.org/wc/norobots.html>

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roman-numerals – print a roman numerals representation of a decimal value

SYNOPSIS

roman-numerals [*option...*] *number*
roman-numerals -V

DESCRIPTION

The *roman-numerals* program is used to turn a decimal value (or any other value in C format) into roman numerals on the standard output.

OPTIONS

The following options are understood:

- l Print the value in lower case. The default is to use upper case.
- V Print the version of the *roman-numerals* program being executed.

All other options will produce a diagnostic error.

EXIT STATUS

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rs400 – access PolarTech RS400 heart rate monitor watch

SYNOPSIS

rs400 [*option...*]
rs400 -V

DESCRIPTION

The *rs400* program is used to access PolarTech RS400 heart rate monitor watch.

OPTIONS

The following options are understood:

- c
convert
- f *date'n'time*
“from” date and time
- t *date'n'time*
“to” date and time
- V
Print the version of the *rs400* program being executed.

All other options will produce a diagnostic error.

EXIT STATUS

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scramble – scramble letters within words

SYNOPSIS

scramble [-V]

DESCRIPTION

The *scramble* program is used to scramble letters within words.

A while back an internet posting appeared which claimed that words were still readable if you kept the first and last letters correct, and scrambled all the other letters.

Search Google for "letter scramble first last" for more information.

Or the original Slashdot article: <http://science.slashdot.org/article.pl?sid=03/09/15/2227256&tid=134&tid=133&tid=14>

OPTIONS

The following options are understood:

-V

Print the version of the *scramble* program being executed.

All other options will produce a diagnostic error.

EXIT STATUS

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sigmonster – generate signatures with random quotes

SYNOPSIS

sigmonster [*option...*]
sigmonster -V

DESCRIPTION

The *sigmonster* program is used to generate signatures with random quotes. It's output is intended for *evolution*(1), which expects HTML signatures, even when the email being composed it to be plain text. The signature is printed to the standard output.

Header

The signature will start with text from `$HOME/.sigmonster/sig-begin.txt` if it exists and is readable.

Quotes

The quotes are stored in the `.sigmonster` directory within the user's home directory. Files with numeric names (*e.g.* 1, 42, 1023, *etc*) are assumed to be quotes to be inserted into the signature. One will be selected at random.

Footer

The signature will end with text from `$HOME/.sigmonster/sig-end.txt` if it exists and is readable.

OPTIONS

The following options are understood:

-V

Print the version of the *sigmonster* program being executed.

All other options will produce a diagnostic error.

EXIT STATUS

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NAME

sleep-until – sleep until a specific time

SYNOPSIS

sleep-until [*option...*] *when*
sleep-until -V

DESCRIPTION

The *sleep-until* program is used to sleep until a specific time. If the time has already passed, no sleep is done.

OPTIONS

The following options are understood:

- d Increase the debug level. Useful when trying to figure out why a given text string does not parse as you expect.
- V Print the version of the *sleep-until* program being executed.

All other options will produce a diagnostic error.

EXIT STATUS

The *sleep-until* command terminates with an exit status of 1 for all errors. It will only have an exit status of 0 if there are no errors.

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small-box-plans – plans for small dovetail boxes

SYNOPSIS

small-box-plans [*option...*] *width thickness*
small-box-plans -V

DESCRIPTION

The *small-box-plans* program is used to draw plans for small dovetail boxes, given the width and thickness of a board.

OPTIONS

The following options are understood:

-V

Print the version of the *small-box-plans* program being executed.

All other options will produce a diagnostic error.

EXIT STATUS

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sort-url – sort URLs

SYNOPSIS

sort-url [*option...*] [*filename...*]
sort-url -V

DESCRIPTION

The *sort-url* program is used to read a list of URLs, sort them, and write them to stdout.

OPTIONS

The following options are understood:

- o *filename*
Write the results to the given file name, rather than stdout.
- u Only write unique URLs to the output.
- V Print the version of the *sort-url* program being executed.

All other options will produce a diagnostic error.

EXIT STATUS

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sqrt_approx – fractional approximations

SYNOPSIS

```
sqrt_approx number
sqrt_approx -f function number
sqrt_approx -e expression
sqrt_approx -V
```

DESCRIPTION

The *sqrt_approx* program is used to calculate fractional approximations for function values. The default function is *sqrt*, but others are possible.

Alternatively, you can use an arithmetic expression. Be sure to quote the expression to protect it from the shell. For example:

```
sqrt_approx -e '(1+sqrt(5))/2'
```

will print fractional approximations of the golden ratio.

Several values will be printed, in order of increasing denominator. The list ceases when an exact fraction is found, or the error drops below the mantissa's resolution.

OPTIONS

The following options are understood:

-e *expression*

An arithmetic expression to be evaluated, to calculate the value to be approximated. The constants "e" and "pi" are also available.

-f *name* The name of the function to calculate. The default is *sqrt*.

-l List the available functions.

-m *number*

Limit the number of fractional approximations printed to the number given.

-V Print the version of the *sqrt_approx* program being executed.

All other options will produce a diagnostic error.

EXIT STATUS

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strip-nul – strip NUL characters from text files

SYNOPSIS

strip-nul [*infile* [*outfile*]]
strip-nul -V

DESCRIPTION

The *strip-nul* program is used to strip NUL characters from text files. Some files would be text except for the NUL characters, such as files stores as 16-bit or 32-bit characters instead of 8-bit characters.

OPTIONS

The following options are understood:

-V

Print the version of the *strip-nul* program being executed.

All other options will produce a diagnostic error.

EXIT STATUS

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sturm – Sturm sequence solver

SYNOPSIS

sturm
sturm -V

DESCRIPTION

The *sturm* program is used to solve for roots of polynomials.

Using Sturm Sequences to Bracket Real Roots of Polynomial Equations
by D.G. Hook and P.R. McAree
from "Graphics Gems", Academic Press, 1990

OPTIONS

The following options are understood:

-V

Print the version of the *sturm* program being executed.

All other options will produce a diagnostic error.

EXIT STATUS

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sysconf – Get configuration information at runtime

SYNOPSIS

sysconf [*option-name ...*]

DESCRIPTION

The *sysconf* program is used to obtain values of *sysconf(3)* options, used to get configuration information at runtime.

The named options will be printed. If no options are named, all options will be printed.

OPTIONS

The following options are understood:

-V

Print the version of the *sysconf* program being executed.

All other options will produce a diagnostic error.

EXIT STATUS

The *sysconf* command terminates with an exit status of 1 for all errors. It will only have an exit status of 0 if there are no errors.

SEE ALSO

sysconf(3)

Get configuration information at runtime.

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un-camel-case – turn CamelCase identifiers into lower-case and underscore

SYNOPSIS

un-camel-case
un-camel-case *filename...*
un-camel-case **-V**

DESCRIPTION

The *un-camel-case* program is used to translate C source code from CamCase identifiers into lower-case-and-underscore identifiers.

If no files are named on the command line, the standard input is translated to the standard output. If any files are named on the command line, they are translated *in-situ*.

OPTIONS

The following options are understood:

-V

Print the version of the *un-camel-case* program being executed.

All other options will produce a diagnostic error.

EXIT STATUS

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NAME

unit-tray-template – draw plans for insect unit trays

SYNOPSIS

unit-tray-template [*option...*]
unit-tray-template -V

DESCRIPTION

The *unit-tray-template* program is used to draw plans for insect unit trays.

OPTIONS

The following options are understood:

-a *number*

This option may be used to set the paper size. For example, -a3 means A3 paper. The default is A4 paper.

-d *x-dim***xy-dim**

This option may be used to set the dimensions of the box, rather than using a system (see **-s** and **-n** below).

-l

This option may be used to list the available systems and the names of boxes within that system.

-n *string*

The name of the unit tray, within the system (see below).

-s *string*

system of unit trays. Default is AustEntoSupplies

-V

Print the version of the *unit-tray-template* program being executed.

-z *number*

height of the box, in inches

All other options will produce a diagnostic error.

EXIT STATUS

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unix2dos – convert Unix format text file to DOS format text file

SYNOPSIS

```
unix2dos [ infile [ outfile ] ]  
unix2dos -V
```

DESCRIPTION

The *unix2dos* program is used to convert Unix format text files to DOS format text files.

If no files are specified, the standard input is read and the results are written to the standard output. If one file is specified, the input is read from this file and the results are written to the standard output. If two files are specified, the input is read from the first file and the results are written to the second file.

OPTIONS

The following options are understood:

-V

Print the version of the *unix2dos* program being executed.

All other options will produce a diagnostic error.

EXIT STATUS

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NAME

unprintable – check for unprintable characters

SYNOPSIS

unprintable [*option...*] *filename...*

unprintable -V

DESCRIPTION

The *unprintable* program is used to check files for unprintable characters, as will happen with non-ASCII encodings.

OPTIONS

The following options are understood:

-t Also check for horizontal tab characters.

-V Print the version of the *unprintable* program being executed.

All other options will produce a diagnostic error.

EXIT STATUS

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NAME

unrelative – make a filename relative if possible, absolute otherwise

SYNOPSIS

unrelative *path...*

unrelative **-V**

DESCRIPTION

The *unrelative* program is used to make a filename relative if possible, absolute otherwise.

OPTIONS

The following options are understood:

-d *path*

By default, file names are rewritten relative to the current directory. This option may be used to specify a different directory.

-V

Print the version of the *unrelative* program being executed.

All other options will produce a diagnostic error.

EXIT STATUS

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warp-map-to-map – overlay one map on another

SYNOPSIS

warp-map-to-map *top-file bottom-file* **-o** *out-file*
warp-map-to-map **-V**

DESCRIPTION

The *warp-map-to-map* program is used to map one image into another, via a pair of Delaunay triangularizations. The first input file is mapped into the coordinate system of the second input file, and laid over the top of it. Transparency is applied, if present. The output will be the same size as the second input file.

It is assumed that there will be node and element files for each input image file. For example, an input file called *fubar.png* is expected to be accompanied by a *fubar.node* file and a *fubar.ele* file. These are produced by the *triangle(1)* command. Use symlinks or hard links if necessary.

OPTIONS

The following options are understood:

-o *out-file*

This option is used to specify the name of the output file. The image format is taken from the extension, it does not have to be the same as either input file.

-V

Print the version of the *warp-map-to-map* program being executed.

All other options will produce a diagnostic error.

EXIT STATUS

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web_hit_counter – CGI program to count references

SYNOPSIS

web_hit_counter [*option...*] '*query*'

web_hit_counter -V

DESCRIPTION

The *web_hit_counter* program is used to count the number of times the program is asked to generate an PNG image of the counter it maintains.

OPTIONS

The following options are understood:

-d *directory*

This option may be used to set the directory to be used to count hits.

-m

Do not print a Content-Type header in the return text.

-V

Print the version of the *web_hit_counter* program being executed.

All other options will produce a diagnostic error.

EXIT STATUS

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NAME

wildebloods-empire – encode and decode by atomic numbers

SYNOPSIS

wildebloods-empire -e [*infile* [*outfile*]]

wildebloods-empire -d [*infile* [*outfile*]]

wildebloods-empire -V

DESCRIPTION

The *wildebloods-empire* program is used to encode and decode texts by replacing letter sequences with atomic numbers, where those letter sequences are valid element abbreviations. This was inspired a science fiction story: Stableford, Brian M. (1997) *Wildeblood's Empire*.

OPTIONS

The following options are understood:

-d This option is used to request text be decoded.

-e This option is used to request text be encoded.

-V Print the version of the *wildebloods-empire* program being executed.

All other options will produce a diagnostic error.

EXIT STATUS

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winsize – print size of terminal window

SYNOPSIS

winsize [*option...*]
winsize -V

DESCRIPTION

The *winsize* program is used to print the size of the terminal window. It simply calls the TIOCGWINSZ ioctl on the standard output, and prints the result.

OPTIONS

The following options are understood:

-V

Print the version of the *winsize* program being executed.

All other options will produce a diagnostic error.

EXIT STATUS

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workshop-cupboard-plans – draw plans for new workshop overhead cupboard

SYNOPSIS

workshop-cupboard-plans [*option...*]
workshop-cupboard-plans -**V**

DESCRIPTION

The *workshop-cupboard-plans* program is used to draw plans for the new workshop overhead cupboard.

OPTIONS

The following options are understood:

-**C** *mm*

left column width

-**c** *mm*

right column width

-**D** *mm*

column depth

-**d** *mm*

overall depth

-**h** *mm* overall height

-**o** *filename* *fp*

This option may be used to redirect the standard output (the PostScript formatted plans) to the named file.

-**p** *mm* ply thickness

-**w** *mm* overall width

-**V**

Print the version of the *workshop-cupboard-plans* program being executed.

All other options will produce a diagnostic error.

EXIT STATUS

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NAME

wrap-file-header – reformat file headers

SYNOPSIS

wrap-file-header *filename...*

wrap-file-header **-V**

DESCRIPTION

The *wrap-file-header* program is used to reformat the GNU file header to remove tabs and excessive white space, and then reformat via the *par(1)* command.

Each filename on the command line is repaired *in situ*.

OPTIONS

The following options are understood:

-V

Print the version of the *wrap-file-header* program being executed.

All other options will produce a diagnostic error.

EXIT STATUS

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NAME

x11-idle-seconds – print number of seconds X11 has been idle

SYNOPSIS

x11-idle-seconds [*option...*]
x11-idle-seconds -V

DESCRIPTION

The *x11-idle-seconds* program is used to print the number of seconds that X11 has been idle.

OPTIONS

The following options are understood:

-V

Print the version of the *x11-idle-seconds* program being executed.

All other options will produce a diagnostic error.

EXIT STATUS

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