

Permuted Index: PIASD Manual Pages

<p>gapsta: list statistics of gaps tidhar: harmonic analysis of tides getdat, datput: convert ASCII data getdat, datput: convert ASCII data filtds: designs equiripple FIR filters compute discrete Fourier transforms fits and subtracts a mean and trend time tfind, thfind: finds dates taper pro1, hann: apply a stickon:append shred: list, tidhar: harmonic all of an niolib data file to calculate discrete Fourier transform at autocl: or cosine taper pro1, hann: shells, shelli, sortr: sort an /intio, shrtio, return, longis: transfer coefficients for real series treated file getdat, datput: convert edbase: convert between binary and file getdat, datput: convert calculate discrete Fourier transform squash: runmed: make nonlinear power spectrum of a series by section edbase: convert over gaps filcop, linter: copy data /shrtio, return, longis: transfer arrays datsec, secdat: convert edbase: convert between any frequency sft: timfnd, numday: time, scan count, and system by Cholesky decomposition. positive-definite linear system by with/ send12, sendeg, rcurl2, earth tides or Munk-Cartwright complex realtr: find Fourier merged: rcurl2, chrbig, resett: low-level Fourier transform of multivariate coefficients for real series treated as gappy data for power spectrum dbydt: Munk-Cartwright coefficients ertid: gener: radiational potential insol: section averaging power: spcmat: multivariate complex data fft, nfac: (power of two) fftwo, fftinv: filter firres: linear phase shift filter krner: perosp: solve over-determined least-squares, hartid: predicts tides from harmonic numday: time, scan count, and calendar to niolib file getdat, datput: niolib format deice: format edbase: to niolib file getdat, datput: year datsec, secdat: deki: perform keyit: create, fill, edit, and</p>	<p>(bad data) (fitting sinusoids) (in file or typed) to niolib file (in file or typed) to niolib file (lowpass, highpass, Hilbert transform./ (power of two) fftwo, fftinv: (straight line fit) dtrend: (times) of terms, and term number for 4-pi prolate spheroidal taper or cosine all of an niolib data file to another alter, and reset edits files analysis of tides (fitting sinusoids) another stickon:append any frequency sft: apply edits to a data file apply a 4-pi prolate spheroidal taper array arrays between diskfiles and memory./ as complex realtr: find Fourier ASCII data (in file or typed) to niolib ASCII edits format ASCII data (in file or typed) to niolib at any frequency sft: autocl: apply edits to a data file automatic data editing and resetting averages of data, including medians averaging power: compute between binary and ASCII edits format between files, linear interpolation between diskfiles and memory, and get/ between date and seconds in the year binary and ASCII edits format calculate discrete Fourier transform at calendar conversion iscnsp, chol: solve positive-definite linear Cholesky decomposition. chol: solve chrbig, resett: low-level communication coefficients /compute theoretical coefficients for real series treated as combine two or more edits files communication with Tektronix /sendeg, complex data fft, nfac: compute complex /find Fourier computation tapir: preprocess compute differentiating filters compute theoretical earth tides or compute various deterministic functions compute insolation or Munk-Cartwright compute power spectrum of a series by compute a cross-spectrum compute Fourier transform of compute discrete Fourier transforms compute reponse of a linear-phase FIR compute weights for a nearly equiripple compute cross-spectral matrix compute covariance matrix qr, qrcov: constants conversion iscnsp, timfnd, convert ASCII data (in file or typed) convert Ice-9 datalogger files to convert between binary and ASCII edits convert ASCII data (in file or typed) convert between date and seconds in the convolution, filtering, and decimation copy data files</p>	<p>gapsta(1L) tidhar(1L) datput(1L) putdat(1L) filtds(1L) fftwo(3L) dtrend(1L) tfind(1L) pro1(3L) stickon(1L) shred(1L) tidhar(1L) stickon(1L) sft(3L) autocl(1L) pro1(3L) shells(3L) niolib(3L) realtr(3L) datput(1L) edbase(1L) putdat(1L) sft(3L) autocl(1L) squash(1L) runmed(1L) power(1L) edbase(1L) iosubs(3L) niolib(3L) secdat(3L) edbase(1L) sft(3L) timsubs(3L) chol(3L) chol(3L) graflib(3L) ertid(1L) realtr(3L) merged(1L) graflib(3L) fft(3L) realtr(3L) tapir(1L) dbydt(1L) ertid(1L) gener(1L) insol(1L) power(1L) spcmat(1L) fft(3L) fftwo(3L) firres(3L) krner(3L) perosp(3L) qr(3L) hartid(1L) timsubs(3L) datput(1L) deice(1L) edbase(1L) putdat(1L) secdat(3L) deki(1L) keyit(1L)</p>
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interpolation over/	filcop, linter: header: create, a 4-pi prolate spheroidal taper or iscnsp, timfnd, numday: time, scan over-determined least-squares, compute	copy data between files, linear copy, list, and edit header files cosine taper	iosubs(3L) header(1L) prol(3L) timsubs(3L)
in a series	gredit: header:	prol, hann: apply count, and calendar conversion covariance matrix	qr(3L) gredit(1L) header(1L) keyit(1L) credit(1L)
files	keyit:	qr, qrcov: solve create edits file from flagged values create, copy, list, and edit header create, fill, edit, and copy data files credit: interactive editing of data	keyit(1L) credit(1L) pcrosp(3L) spcmat(1L) autocl(1L) credit(1L) datput(1L) ddrift(1L) edjoy(1L) expunge(1L) interp(1L) keyit(1L) lsd(1L) putdat(1L) squash(1L) stats(1L) stickon(1L) tapir(1L) white(1L)
series	pcrosp: compute spemat: compute a autocl: apply edits to a credit: interactive editing of getdat, datput: convert ASCII ddrift: fit a spline through edjoy: join edits files for expunge: remove interp: interpolate keyit: create, fill, edit, and copy lsd, lsd: list niolib getdat, datput: convert ASCII squash: automatic stats: find statistics of a stickon: append all of an niolib tapir: preprocess gappy white: produce transform of multivariate complex	cross-spectral matrix cross-spectrum data file data series data (in file or typed) to niolib file data values to remove drift data segments data files data to a finer spacing data files data files by their true names data (in file or typed) to niolib file data editing and resetting data file data file to another data for power spectrum computation data files of random noise data	fft(3L) iosubs(3L) spline(3L) gapsta(1L) datred(1L) runmed(1L) deice(1L) intercal(1L) secdat(3L) tfind(1L) datput(1L) putdat(1L) datred(1L) secdat(3L) dbydt(1L) ddrift(1L) dectid(1L) selectp(1L) deki(1L) toffs(3L) svd(3L) chol(3L) dectid(1L) deice(1L) deki(1L) selectp(1L) pinjoy(1L) header(5L) filtds(1L) gener(1L) jacobi(3L) nscale(1L) dbydt(1L) ffitwo(3L) sft(3L) niolib(3L) niolib(3L) hist(1L) ddrift(1L) dtren(3L) dtrend(1L) lsqfit(1L) ertid(1L) edbase(1L) header(1L) keyit(1L)
interpolation/	filcop, linter: copy of unequally and equally spaced gapsta: list statistics of gaps (bad	data /nfac: compute Fourier data between files, linear data /spline interpolation data) data, makes printer plots and Tektronix data, including medians datalogger files to niolib format date	date /linear or dates (times) of terms, and term number datput: convert ASCII data (in file or datput: convert ASCII data (in file or datred: lists data, makes printer plots datesec, secdat: convert between date dbydt: compute differentiating filters ddrift: fit a spline through data decimate series given by header files decimate, demultiplex, and select from decimation deki: decimation toffs: find the decomposition decomposition. /positive-definite
plots	dated: lists runmed: make nonlinear averages of deice: convert Ice-9 spline interpolation of values given by datesec, secdat: convert between	date and seconds in the year dates (times) of terms, and term number datput: convert ASCII data (in file or datput: convert ASCII data (in file or dated: lists data, makes printer plots datesec, secdat: convert between date dbydt: compute differentiating filters ddrift: fit a spline through data decimate series given by header files decimate, demultiplex, and select from decimation deki: decimation toffs: find the decomposition decomposition. /positive-definite	date /linear or dates (times) of terms, and term number datput: convert ASCII data (in file or datput: convert ASCII data (in file or dated: lists data, makes printer plots datesec, secdat: convert between date dbydt: compute differentiating filters ddrift: fit a spline through data dectid(1L) dectid(1L) selectp(1L) deki(1L) toffs(3L) svd(3L) chol(3L) dectid(1L) deice(1L) deki(1L) selectp(1L) pinjoy(1L) header(5L) filtds(1L) gener(1L) jacobi(3L) nscale(1L) dbydt(1L) ffitwo(3L) sft(3L) niolib(3L) niolib(3L) hist(1L) ddrift(1L) dtren(3L) dtrend(1L) lsqfit(1L) ertid(1L) edbase(1L) header(1L) keyit(1L)
for time	tfind, thfind: finds dated: lists	date	date
typed) to niolib file	getdat, typed) to niolib file	date	date
and Tektronix plots	dated: lists	date	date
and seconds in the year	dated: lists	date	date
values to remove drift	dectid: join and selectp:	date	date
a series	perform convolution, filtering, and time shift for 'good' filtering with svd: singular value linear system by Cholesky	date	date
by header files	selectp: decimate, pinjoy: join files header:	date	date
to niolib format	selectp: decimate, pinjoy: join files header:	date	date
and decimation	selectp: decimate, pinjoy: join files header:	date	date
(lowpass, highpass, Hilbert/	filtds: gener: compute various jacobi: nscale: scale and offset dbydt: compute	date	date
two)	ffitwo, fftinv: compute frequency	date	date
frequency	sft: calculate between diskfiles and memory, and get /return, longis: transfer arrays between hist: list and make a histogram of the a spline through data values to remove	date	date
trend (straight line fit)	least-squares fitting of series to ertid: compute theoretical	date	date
ASCII edits format	header: create, copy, list, and keyit: create, fill,	date	date

credit: interactive	editing of data series	credit(1L)
squash: automatic data	editing and resetting	squash(1L)
autoel: apply	edits to a data file	autoel(1L)
convert between binary and ASCII	edits format edbasc:	edbasc(1L)
edjoy: join	edits files for data segments	edjoy(1L)
series gsedit: create	edits file from flagged values in a	gsedit(1L)
happed: join groups of	edits files referenced by a header	happed(1L)
merged: combine two or more	edits files	merged(1L)
shred: list, alter, and reset	edits files	shred(1L)
segments	edjoy: join edits files for data	edjoy(1L)
spline interpolation of unequally and	enjoin: join series together	enjoin(1L)
highpass, Hilbert/ filtds: designs	equally spaced data /eval, evaleq:	spline(3L)
krner: compute weights for a nearly	equiripple FIR filters (lowpass,	filtds(1L)
or Munk-Cartwright coefficients	equiripple linear phase shift filter	krner(3L)
(lowpass, highpass, Hilbert transform,	ertid: compute theoretical earth tides	ertid(1L)
unequally and/ spline, splneq,	etc.) /FIR filters	filtds(1L)
unequally and/ spline, splneq, eval,	eval, evaleq: spline interpolation of	spline(3L)
extend:	evaleq: spline interpolation of	spline(3L)
series	expunge: remove data files	expunge(1L)
lists of numbers	extend, truncate, or reverse a series	extend(1L)
multivariate complex data	extend: extend, truncate, or reverse a	extend(1L)
transforms (power of two) fftwo,	ffin, listin: read input numbers, and	termlib(3L)
Fourier transforms (power of two)	fft, nfac: compute Fourier transform of	fft(3L)
files, linear interpolation over/	fftinv: compute discrete Fourier	fftwo(3L)
autoel: apply edits to a data	fftwo, fftinv: compute discrete	iosubs(3L)
getdat, datput: convert ASCII data (in	filcop, linter: copy data between	autoel(1L)
ASCII data (in file or typed) to niolib	file	datput(1L)
gsedit: create edits	file or typed) to niolib file	datput(1L)
getdat, datput: convert ASCII data (in	file /datput: convert	gsedit(1L)
ASCII data (in file or typed) to niolib	file from flagged values in a series	putdat(1L)
stats: find statistics of a data	file or typed) to niolib file	putdat(1L)
stickon:append all of an niolib data	file /datput: convert	stats(1L)
header: description of header	file	stickon(1L)
and decimate series given by header	file to another	header(5L)
deice: convert Ice-9 datalogger	file format	dectid(1L)
edjoy: join edits	files dectid: join	deice(1L)
expunge: remove data	files to niolib format	edjoy(1L)
happdat: join groups of	files for data segments	expunge(1L)
happed: join groups of edits	files	happdat(1L)
create, copy, list, and edit header	files referenced by a header	happed(1L)
create, fill, edit, and copy data	files referenced by a header	header(1L)
lsd, lsdt: list niolib data	files header:	keyit(1L)
merged: combine two or more edits	files keyit:	lsd(1L)
pinjoy: join	files by their true names	merged(1L)
shred: list, alter, and reset edits	files	pinjoy(1L)
white: produce data	files described by headers	shred(1L)
filcop, linter: copy data between	files	white(1L)
keyit: create,	files of random noise	iosubs(3L)
(lowpass, highpass, Hilbert/	files, linear interpolation over gaps	keyit(1L)
compute reponse of a linear-phase FIR	fill, edit, and copy data files	filtds(1L)
a nearly equiripple linear phase shift	filtds: designs equiripple FIR filters	firres(3L)
toffs: find the time shift for 'good'	filter firres:	krner(3L)
deki: perform convolution,	filter /weights for	toffs(3L)
dbydt: compute differentiating	filtering with decimation	deki(1L)
filtds: designs equiripple FIR	filtering, and decimation	dbydt(1L)
stats:	filters	filtds(1L)
series treated as complex realtr:	filters (lowpass, highpass, Hilbert/	stats(1L)
filtering with decimation toffs:	find statistics of a data file	realtr(3L)
number for time tfind, thfind:	find Fourier coefficients for real	toffs(3L)
interp: interpolate data to a	find the time shift for 'good'	tfind(1L)
filtds: designs equiripple	finds dates (times) of terms, and term	interp(1L)
compute reponse of a linear-phase	finer spacing	filtds(1L)
linear-phase FIR filter	FIR filters (lowpass, highpass, Hilbert/	firres(3L)
remove drift ddrift:	FIR filter firres:	firres(3L)
a mean and trend (straight line	firres: compute reponse of a	ddrift(1L)
fit) dtrend:	fit a spline through data values to	dtrend(1L)
lsqfit: least-squares	fit) /fits and subtracts	lsqfit(1L)
gsedit: create edits file from	fits and subtracts a mean and trend	gsedit(1L)
Ice-9 datalogger files to niolib	fitting of series to each other	deice(1L)
convert between binary and ASCII edits	flagged values in a series	edbasc(1L)
	format deice: convert	
	format edbasc:	

header: description of header file	format	header(5L)
plot: write a Unix plotfile from	Fortran	plot(3L)
fourier: forward and inverse	forward and inverse Fourier transform	fourier(1L)
complex data	Fourier transform	fourier(1L)
fft, nfac: compute	Fourier transform of multivariate	fft(3L)
fftwo, fftinv: compute discrete	Fourier transforms (power of two)	fftwo(3L)
treated as complex	Fourier coefficients for real series	realtr(3L)
realtr: find	Fourier transform at any frequency	sft(3L)
sft: calculate discrete	fourier: forward and inverse Fourier	fourier(1L)
transform	frequency	sft(3L)
discrete Fourier transform at any	from flagged values in a series	gsedit(1L)
gsedit: create edits file	from harmonic constants	hartid(1L)
hartid: predicts tides	from a series	selectcp(1L)
decimate, demultiplex, and select	from Fortran	plot(3L)
plot: write a Unix plotfile	functions	gener(1L)
gener: compute various deterministic	gappy data for power spectrum	tapir(1L)
computation	gaps (bad data)	gapsta(1L)
tapir: preprocess	gaps	iosubs(3L)
gapsta: list statistics of	gaps	gapsta(1L)
files, linear interpolation over	gapsta: list statistics of gaps (bad	gener(1L)
data)	gener: compute various deterministic	niolib(3L)
functions	get diskfile length	datput(1L)
between diskfiles and memory, and	getdat, datput: convert ASCII data (in	putdat(1L)
file or typed) to niolib file	getdat, datput: convert ASCII data (in	dectid(1L)
file or typed) to niolib file	given by header files	intercal(1L)
dectid: join and decimate series	given by date	intercal: linear
or spline interpolation of values	groups of files referenced by a header	happdat(1L)
happdat: join	groups of edits files referenced by a	happedit(1L)
header	gsedit: create edits file from flagged	gsedit(1L)
happedit: join	hann: apply a 4-pi prolate spheroidal	prol(3L)
values in a series	happdat: join groups of files	happdat(1L)
taper or cosine taper	happedit: join groups of edits files	happedit(1L)
prol:	harmonic constants	hartid(1L)
referenced by a header	harmonic analysis of tides (fitting	tidhar(1L)
referenced by a header	hartid: predicts tides from harmonic	hartid(1L)
hartid: predicts tides from	header files	dectid(1L)
sinusoids)	header	happdat(1L)
constants	header	happedit(1L)
join and decimate series given by	header files	header(1L)
join groups of files referenced by a	header file format	header(5L)
groups of edits files referenced by a	header: create, copy, list, and edit	header(1L)
header: create, copy, list, and edit	header: description of header file	header(5L)
header: description of	headers	pinjoy(1L)
header files	highpass, Hilbert transform, etc.)	filtds(1L)
format	Hilbert transform, etc.)	filtds(1L)
pinjoy: join files described by	hist: list and make a histogram of the	hist(1L)
/equripple FIR filters (lowpass,	histogram of the distribution of values	hist(1L)
FIR filters (lowpass, highpass,	hlth: produces various x-y versions of	hlth(1L)
distribution of values	Ice-9 datalogger files to niolib format	deice(1L)
hist: list and make a	in a series	gsedit(1L)
a time series.	in the year	datsec, secdat:
deice: convert	including medians	runmed(1L)
create edits file from flagged values	input numbers, and lists of numbers	termlib(3L)
convert between date and seconds	insol: compute insolation or	insol(1L)
make nonlinear averages of data,	insolation or Munk-Cartwright	insol(1L)
ffin, listin: read	interactive editing of data series	credit(1L)
Munk-Cartwright radiational/	intercal: linear or spline	intercal(1L)
radiational potential	interp: interpolate data to a finer	interp(1L)
insol: compute	interpolate data to a finer spacing	interp(1L)
credit:	interpolation of values given by date	intercal(1L)
interpolation of values given by/	interpolation over gaps	iosubs(3L)
spacing	interpolation of unequally and equally/	spline(3L)
interp:	intio, shrtio, return, longis: transfer	niolib(3L)
intercal: linear or spline	inverse Fourier transform	fourier(1L)
linter: copy data between files, linear	invert a square matrix	invert(3L)
spline, splneq, eval, evaleq: spline	invert: invert a square matrix	invert(3L)
arrays between diskfiles and/	iscnsp, timfnd, numday: time, scan	timsups(3L)
realio,	it a script	rescript(1L)
fourier: forward and	jacobi: diagonalize symmetric matrix	jacobi(3L)
invert:	join and decimate series given by	dectid(1L)
count, and calendar conversion	join edits files for data segments	edjoy(1L)
process a listing of a session to make	join series together	enjoin(1L)
header files	join groups of files referenced by a	happdat(1L)
dectid:		
edjoy:		
enjoin:		
header		

by a header	happed: pinjoy:	join groups of edits files referenced	happed(1L) pinjoy(1L)
data files		join files described by headers	keyit(1L)
equiripple linear phase shift/		keyit: create, fill, edit, and copy	krner(3L)
other	lsqfit: qr, qrcov: solve over-determined diskfiles and memory, and get diskfile subtracts a mean and trend (straight line fit)	krner: compute weights for a nearly least-squares fitting of series to each least-squares, compute covariance/ length /arrays between line fit) dtrend: fits and linear or spline interpolation of	lsqfit(1L) qr(3L) niolib(3L) dtrend(1L)
values given by date	intercal: chol: solve positive-definite /linter: copy data between files, compute weights for a nearly equiripple firres: compute reponse of a	linter: copy data between files, linear linear phase shift filter krner: linear-phase FIR filter	intercal(1L) chol(3L) iosubs(3L) krner(3L) firres(3L)
interpolation over gaps	filcop, gapsta:	linter: copy data between files, linear list statistics of gaps (bad data)	iosubs(3L) gapsta(1L)
distribution of values	hist:	list and make a histogram of the list niolib data files by their true list, and edit header files	hist(1L) lsd(1L)
names	lsd, lsd: header: create, copy, shred:	list, alter, and reset edits files	header(1L) shred(1L)
of numbers	ffin,	listin: read input numbers, and lists	termlib(3L)
script	rescript: process a	listing of a session to make it a	rescript(1L)
Tektronix plots	datred:	lists data, makes printer plots and	datred(1L)
	ffin, listin: read input numbers, and realio, intio, shrtio, return, send12, sendeg, rcur12, chrbig, resett:	lists of numbers	termlib(3L)
their true names		longis: transfer arrays between/ low-level communication with Tektronix	niolib(3L) graflib(3L)
true names	lsd,	lsd, lsd: list niolib data files by	lsd(1L)
to each other	lsd,	lsd: list niolib data files by their lsqfit: least-squares fitting of series	lsd(1L) lsqfit(1L)
values	hist: list and process a listing of a session to	make a histogram of the distribution of make it a script rescript:	hist(1L) rescript(1L)
including medians	runmed:	make nonlinear averages of data,	runmed(1L)
	datred: lists data, mult: multiply invert: invert a square jacobi: diagonalize symmetric pcrosp: compute cross-spectral least-squares, compute covariance dtrend: fits and subtracts a dtren: remove nonlinear averages of data, including /transfer arrays between diskfiles and	makes printer plots and Tektronix plots	datred(1L)
files		matrices	mult(3L)
	merged: combine two or	matrix	invert(3L)
series		matrix	jacobi(3L)
	mult: fft, nfac: compute Fourier transform of compute theoretical earth tides or insol: compute insolation or list niolib data files by their true names lsd, lsd: nearly equiripple linear phase shift nfac: compute Fourier transform of	matrix /solve over-determined mean and trend (straight line fit) mean and trend	perosp(3L) qr(3L) dtrend(1L) dtren(3L)
	niolib file getdat, datput: convert niolib format deice: niolib data files by their true names	medians runmed: make memory, and get diskfile length	runmed(1L) niolib(3L)
	niolib file getdat, datput: convert niolib data file to another	merged: combine two or more edits more edits files	merged(1L)
	noise	mulsum: sum together several scaled	merged(1L) mulsum(1L)
	runmed: make nonlinear averages of data, including nscale: scale and offset different number for time tfind, thfind: numbers ffin, listin: numbers, and lists of numbers	mult: multiply matrices	mult(3L) mult(3L) fft(3L)
	stickon:append all of an white: produce data files of random	multiply matrices	ertid(1L)
medians		Munk-Cartwright coefficients ertid: Munk-Cartwright radiational potential	insol(1L)
parts of a series	runmed: make finds dates (times) of terms, and term read input numbers, and lists of ffin, listin: read input iscnsp, timfnd, nscale: scale and sarit: perform term-by-term least-squares fitting of series to each between files, linear interpolation	names lsd, lsd: nearly equiripple linear phase shift nfac: compute Fourier transform of	lsd(1L) krner(3L) fft(3L)
conversion	iscnsp, timfnd, nscale: scale and sarit: perform term-by-term least-squares fitting of series to each between files, linear interpolation	niolib file getdat, datput: convert niolib format deice: niolib data files by their true names	datput(1L) deice(1L) lsd(1L) putdat(1L) stickon(1L) white(1L)
covariance matrix	qr, qrcov: solve nscale: scale and offset different	niolib file getdat, datput: convert niolib data file to another	runmed(1L) nscale(1L) tfind(1L)
decimation	deki:	noise	termlib(3L)
		nonlinear averages of data, including nscale: scale and offset different number for time tfind, thfind: numbers ffin, listin: numbers, and lists of numbers nmday: time, scan count, and calendar offset different parts of a series operations on time series	termlib(3L) timsubs(3L) nscale(1L) sarit(1L) lsqfit(1L) iosubs(3L)
		other lsqfit: over gaps /linter: copy data over-determined least-squares, compute parts of a series	qr(3L) nscale(1L)
		pcrosp: compute cross-spectral matrix	perosp(3L)
		perform convolution, filtering, and	deki(1L)

series	weights for a nearly equiripple linear	perform term-by-term operations on time	phase shift filter	krner: compute	pinjoy: join files described by headers	plot: write a Unix plotfile from	plotfile from Fortran	plots and Tektronix plots	plots	dated: lists positive-definite linear system by	potential	insol: compute insolation	power spectrum of a series by section	power spectrum computation	power: compute power spectrum of a	predicts tides from harmonic constants	preprocess gappy data for power	printer plots and Tektronix plots	process a listing of a session to make	produce data files of random noise	produces various x-y versions of a time	prol, hann: apply a 4-pi	prolate spheroidal taper or cosine	qr, qrcov: solve over-determined	qrcov: solve over-determined	radiational potential	insol: random noise	rcur12, chrbig, resett: low-level	read input numbers, and lists of	real series treated as complex	realio, intio, shrtio, return, longis:	realtr: find Fourier coefficients for	referenced by a header	referenced by a header	remove drift	ddrift: remove data files	remove mean and trend	reponse of a linear-phase FIR filter	rescript: process a listing of a	reset edits files	resett: low-level communication with/	resetting	return, longis: transfer arrays between	reverse a series	runmed: make nonlinear averages of	sarit: perform term-by-term operations	scale and offset different parts of a	scaled series	scan count, and calendar conversion	script	rescript: process	seconds in the year	datsec: convert between date and	seconds in the year	datsec: compute power spectrum of a series by	edjoy: join edits files for data	selectp: decimate, demultiplex, and	select from a series	selectp: decimate, demultiplex, and	send12, sendeg, rcur12, chrbig, resett:	sendeg, rcur12, chrbig, resett:	series	series given by header files	series together	series	series	gsedit: create	series to each other	series	nscale: series by section averaging	series	sarit: series	selectp: decimate, series treated as complex	realtr: series	hlth: session to make it a script	several scaled series	sft: calculate discrete Fourier	shelli, sortr: sort an array	sarit(1L)	krner(3L)	pinjoy(1L)	plot(3L)	plot(3L)	dated(1L)	dated(1L)	chol(3L)	insol(1L)	power(1L)	tapir(1L)	power(1L)	hartid(1L)	tapir(1L)	dated(1L)	rescript(1L)	white(1L)	hlth(1L)	prol(3L)	prol(3L)	qr(3L)	qr(3L)	insol(1L)	white(1L)	graflib(3L)	termlib(3L)	realtr(3L)	niolib(3L)	realtr(3L)	happdat(1L)	happd(1L)	ddrift(1L)	expunge(1L)	dtren(3L)	firres(3L)	rescript(1L)	shred(1L)	graflib(3L)	squash(1L)	niolib(3L)	extend(1L)	runmed(1L)	sarit(1L)	nscale(1L)	mulsum(1L)	timsups(3L)	rescript(1L)	seccdat(3L)	seccdat(3L)	power(1L)	edjoy(1L)	selectp(1L)	selectcp(1L)	graflib(3L)	graflib(3L)	credit(1L)	dectid(1L)	enjoin(1L)	extend(1L)	gsedit(1L)	lsqfit(1L)	mulsum(1L)	nscale(1L)	power(1L)	sarit(1L)	selectcp(1L)	realtr(3L)	hlth(1L)	rescript(1L)	mulsum(1L)	sft(3L)	shells(3L)
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for a nearly equiripple linear phase	shells, shelli, sortr: sort an array	shells(3L)
decimation toffs: find the time	shift filter /compute weights	krner(3L)
files	shift for 'good' filtering with	toffs(3L)
between diskfiles and/ realio, intio,	shred: list, alter, and reset edits	shred(1L)
svd:	shrtio, return, longis: transfer arrays	niolib(3L)
harmonic analysis of tides (fitting	singular value decomposition	svd(3L)
by Cholesky decomposition. chol:	sinusoids) tidhar:	tidhar(1L)
compute covariance matrix qr, qrcov:	solve positive-definite linear system	chol(3L)
shells, shelli, sortr:	solve over-determined least-squares,	qr(3L)
shells, shelli,	sort an array	shells(3L)
interpolation of unequally and equally	sortr: sort an array	shells(3L)
interp: interpolate data to a finer	spaced data /evaleq: spline	spline(3L)
spacing	spacing	interp(1L)
averaging power: compute power	spcmat: compute a cross-spectrum	spcmat(1L)
tapir: preprocess gappy data for power	spectrum of a series by section	power(1L)
prol, hann: apply a 4-pi prolate	spectrum computation	tapir(1L)
drift ddrift: fit a	spheroidal taper or cosine taper	prol(3L)
date interval: linear or	spline through data values to remove	ddrift(1L)
spline, splneq, eval, evaleq:	spline interpolation of values given by	interval(1L)
interpolation of unequally and/	spline interpolation of unequally and/	spline(3L)
interpolation of unequally/ spline,	spline, splneq, eval, evaleq: spline	spline(3L)
invert: invert a	splneq, eval, evaleq: spline	invert(3L)
resetting	square matrix	squash(1L)
gapsta: list	squash: automatic data editing and	gapsta(1L)
stats: find	statistics of gaps (bad data)	stats(1L)
file to another	statistics of a data file	stats(1L)
line fit) dtrend: fits and	stats: find statistics of a data file	stickon(1L)
mulsum:	stickon:append all of an niolib data	dtrend(1L)
jacobi: diagonalize	subtracts a mean and trend (straight	mulsum(1L)
chol: solve positive-definite linear	sum together several scaled series	svd(3L)
hann: apply a 4-pi prolate spheroidal	svd: singular value decomposition	jacobi(3L)
4-pi prolate spheroidal taper or cosine	symmetric matrix	chol(3L)
spectrum computation	system by Cholesky decomposition.	prol(3L)
lists data, makes printer plots and	taper or cosine taper prol,	prol(3L)
resett: low-level communication with	taper /hann: apply a	prol(3L)
finds dates (times) of terms, and	tapir: preprocess gappy data for power	tapir(1L)
sarit: perform	Tektronix plots datted:	datted(1L)
tfind, thfind: finds dates (times) of	Tektronix /rcur12, chrbig,	graflib(3L)
terms, and term number for time	term number for time tfind, thfind:	tfind(1L)
lsd, lsdt: list niolib data files by	term-by-term operations on time series	sarit(1L)
Munk-Cartwright/ ertid: compute	terms, and term number for time	tfind(1L)
and term number for time tfind,	tfind, thfind: finds dates (times) of	tfind(1L)
ddrift: fit a spline	their true names	lsd(1L)
ertid: compute theoretical earth	theoretical earth tides or	ertid(1L)
hartid: predicts	thfind: finds dates (times) of terms,	tfind(1L)
tidhar: harmonic analysis of	through data values to remove drift	ddrift(1L)
(fitting sinusoids)	tides or Munk-Cartwright coefficients	ertid(1L)
produces various x-y versions of a	tides from harmonic constants	hartid(1L)
perform term-by-term operations on	tides (fitting sinusoids)	tidhar(1L)
(times) of terms, and term number for	tidhar: harmonic analysis of tides	tidhar(1L)
decimation toffs: find the	time series. hlth:	hlth(1L)
conversion iscnsp, timfnd, numday:	time series sarit:	sarit(1L)
calendar conversion iscnsp,	time /thfind: finds dates	tfind(1L)
filtering with decimation	time shift for 'good' filtering with	toffs(3L)
enjoin: join series	time, scan count, and calendar	timsubs(3L)
mulsum: sum	timfnd, numday: time, scan count, and	timsubs(3L)
realio, intio, shrtio, return, longis:	toffs: find the time shift for 'good'	toffs(3L)
fourier: forward and inverse Fourier	together	enjoin(1L)
fft, nfac: compute Fourier	together several scaled series	mulsum(1L)
sft: calculate discrete Fourier	transfer arrays between diskfiles and/	niolib(3L)
FIR filters (lowpass, highpass, Hilbert	transform	fourier(1L)
ffitinv: compute discrete Fourier	transform of multivariate complex data	fft(3L)
Fourier coefficients for real series	transform at any frequency	sft(3L)
dtrend: fits and subtracts a mean and	transform, etc.) /equiripple	filtds(1L)
dtren: remove mean and	transforms (power of two) ffitwo,	ffitwo(3L)
lsdt: list niolib data files by their	treated as complex realtr: find	realtr(3L)
extend: extend,	trend (straight line fit)	dtrend(1L)
merged: combine	trend	dtren(3L)
discrete Fourier transforms (power of	true names lsd,	lsd(1L)
two) /ffitinv: compute	truncate, or reverse a series	extend(1L)
	two or more edits files	merged(1L)
	two) /ffitinv: compute	ffitwo(3L)

datput: convert ASCII data (in file or datput: convert ASCII data (in file or /eval, evaleq: spline interpolation of plot: write a svd: singular ddrift: fit a spline through data gsedit: create edits file from flagged make a histogram of the distribution of linear or spline interpolation of gener: compute hlth: produces hlth: produces various x-y phase shift filter krner: compute noise	typed) to niolib file getdat, typed) to niolib file getdat, unequally and equally spaced data Unix plotfile from Fortran value decomposition values to remove drift values in a series values hist: list and values given by date intercal: various deterministic functions various x-y versions of a time series. versions of a time series. weights for a nearly equiripple linear white: produce data files of random with Tektronix /sendeg, rcur12, with decimation toffs: find write a Unix plotfile from Fortran x-y versions of a time series. year datsec, secdat: 'good' filtering with decimation	datput(1L) putdat(1L) spline(3L) plot(3L) svd(3L) ddrift(1L) gsedit(1L) hist(1L) intercal(1L) gener(1L) hlth(1L) hlth(1L) krner(3L) white(1L) graflib(3L) toffs(3L) plot(3L) hlth(1L) secdat(3L) toffs(3L)
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