CDO Reference Card

Climate Data Operators Version 1.4.6 September 2010

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http://code.zmaw.de/projects/cdo

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griddes

vct

zaxisdes

Syntax

				File operation
Operator1	Operator2	OperatorN	1	1

Options

cdo [Options]

Syntax

-		
-a	Generate an absolute time axis	
-b < nbits >	Set the number of bits for the output precision	
	(I8/I16/I32/F32/F64 for nc,nc2,nc4;	
	F32/F64 for srv,ext,ieg; 1-32 for grb)	
	Add L or B for Little or Big endian byteorder	
$-\mathbf{f} < format >$	Output file format (grb,nc,nc2,nc4,srv,ext,ieg)	
-g < grid >	Grid or file name	
	Grid names: r <nx>x<ny>, n<n>, gme<ni></ni></n></ny></nx>	
-h	Help information for the operators	
-M	Indicate that the I/O streams have missing values	
-m < missval >	Set the default missing value (default: -9e+33)	
-R	Convert GRIB data from reduced to regular grid	
-r	Generate a relative time axis	
-s	Silent mode	
-t	Set the parameter table name or file	
	Predefined tables: echam4 echam5 mpiom1	
-V	Print the version number	
-v	Print extra details for some operators	
-z szip	Compress GRIB records with szip	

Operators

Information

info	Dataset information listed by code number
infov	Dataset information listed by variable name
map	Dataset information and simple map
Syntax	< operator > ifiles
sinfo	Short dataset information listed by code number
sinfov	Short dataset information listed by variable name
Syntax	<pre><operator> ifiles</operator></pre>
diff	Compare two datasets listed by code number
diffv	Compare two datasets listed by variable name
Syntax	<pre><operator> ifile1 ifile2</operator></pre>
npar	Number of parameters
nlevel	Number of levels
nyear	Number of years
nmon	Number of months
ndate	Number of dates
ntime	Number of time steps
Syntax	< operator > ifile
showformat	Show file format
showcode	Show code numbers
showname	Show variable names
showstdname	Show standard names
showlevel	Show levels
showltype	Show GRIB level types
showyear	Show years
showmon	Show months
showdate	Show date information
showtime	Show time information
showtimestam	p Show timestamp
Syntax	< operator > ifile

copy	Copy datasets
cat	Concatenate datasets
Syntax	< operator > ifiles ofile
replace	Replace variables
Syntax	replace ifile1 ifile2 ofile
merge	Merge datasets with different fields
mergetime	Merge datasets sorted by date and time
Syntax	<pre><operator> ifiles ofile</operator></pre>
splitcode	Split code numbers
splitname	Split variable names
splitlevel	Split levels
splitgrid	Split grids
splitzaxis	Split z-axes
splittabnum	Split parameter table numbers
Syntax	<pre><operator> ifile oprefix</operator></pre>
splithour	Split hours
splitday	Split days
splitmon	Split months
splitseas	Split seasons
splityear	Split years
Syntax	<pre><operator> ifile oprefix</operator></pre>
splitsel Split time selection	
Syntax	splitsel nsets/ noffset/ nskipl ifile oprefix

Parameter description

Vertical coordinate table

Grid description Z-axis description

<operator> ifile

Selection

selcode	Select variables by code number
delcode	Delete variables by code number
Syntax	<pre><operator>,codes ifile ofile</operator></pre>
selname	Select variables by name
delname	Delete variables by name
Syntax	<pre><operator>,varnames ifile ofile</operator></pre>
selstdname	Select variables by standard name
Syntax	selstdname,stdnames ifile ofile
sellevel	Select levels
Syntax	sellevel, levels ifile ofile
sellevidx	Select levels by index
Syntax	sellevidx, levidx ifile ofile
selgrid	Select grids
Syntax	selgrid, grids ifile ofile
selzaxis	Select z-axes
Syntax	selzaxis,zaxes ifile ofile
selltype	Select GRIB level types
Syntax	selltype, ltypes ifile ofile
seltabnum	Select parameter table numbers
Syntax	seltabnum,tabnums ifile ofile
	delcode Syntax selname delname Syntax selstdname Syntax sellevel Syntax sellevidx Syntax selgrid Syntax selzaxis Syntax seltaype Syntax seltabnum

seltimestep	Select time steps	S
Syntax	seltimestep,timesteps ifile ofile	
seltime	Select times	S
Syntax	seltime, times ifile ofile	
selhour	Select hours	S
Syntax	selhour, hours ifile ofile	
selday	Select days	S
Syntax	selday,days ifile ofile	
selmon	Select months	S
Syntax	selmon, months ifile ofile	
selyear	Select years	S
Syntax	selyear, years ifile ofile	
selseas	Select seasons	S
Syntax	selseas,seasons ifile ofile	
seldate	Select dates	S
Syntax	seldate,date1[,date2] ifile ofile	
selsmon	Select single month	S
Syntax	selsmon,month[,nts1[,nts2]] ifile ofile	
sellonlatbox	Select a longitude/latitude box	s
Syntax	sellonlatbox,lon1,lon2,lat1,lat2 ifile ofile	
selindexbox	selindexbox Select an index box	
Syntax	selindexbox,idx1,idx2,idy1,idy2 ifile ofile	
		C

Conditional selection

ifthen	If then
ifnotthen	If not then
Syntax	$<\!operator\!>$ ifile1 ifile2 ofile
ifthenelse	If then else
Syntax	ifthenelse ifile1 ifile2 ifile3 ofile
ifthenc	If then constant
ifnotthenc	If not then constant
Syntax	<pre>< operator > c ifile ofile</pre>

Comparison

	Equal
	Not equal
	Less equal
	Less than
	Greater equal
	Greater than
Syntax	<pre><operator> ifile1 ifile2 ofile</operator></pre>
	Equal constant
	Not equal constant
	Less equal constant
	Less than constant
	Greater equal constant
	Greater than constant
Syntax	<pre><operator>,c ifile ofile</operator></pre>
	V

Modification

setpartab	Set parameter table
Syntax	setpartab, table ifile ofile
setcode	Set code number
Syntax	setcode,code ifile ofile
setname	Set variable name
Syntax	setname,name ifile ofile
setlevel	Set level
Syntax	setlevel, level ifile ofile
setltype	Set GRIB level type
Syntax	setltype, ltype ifile ofile

setdate	Set date
Syntax	setdate,date ifile ofile
settime	Set time of the day
Syntax	settime, time ifile ofile
setday	Set day
Syntax	setday,day ifile ofile
setmon	Set month
Syntax	setmon, month ifile ofile
setyear	Set year
Syntax	setyear, year ifile ofile
settunits	Set time units
Syntax	settunits,units ifile ofile
settaxis	Set time axis
Syntax	settaxis,date,time[,inc] ifile ofile
setreftime	Set reference time
Syntax	setreftime,date,time[,units] ifile ofile
setcalendar	Set calendar
Syntax	setcalendar,calendar ifile ofile
shifttime	Shift time steps
Syntax	shifttime,sval ifile ofile
chcode	Change code number
Syntax	<pre>chcode,oldcode,newcode[,] ifile ofile</pre>
chname	Change variable name
Syntax	chname,oldname,newname, ifile ofile
chlevel	Change level

chlevelc	Change level of one code
Syntax	chlevelc,code,oldlev,newlev ifile ofile
chlevelv	Change level of one variable
Syntax	chlevelv,name,oldlev,newlev ifile ofile
setgrid	Set grid
Syntax	setgrid,grid ifile ofile
setgridtype	Set grid type
Syntax	setgridtype,gridtype ifile ofile
•	
setzaxis	Set z-axis

Syntax chlevel,oldlev,newlev,... ifile ofile

,	Symax	Setzaxis,zaxis illie ollie
	setgatt	Set global attribute
	Syntax	setgatt, attname, attstring ifile ofile
	setgatts	Set global attributes
	Syntax	setgatts,attfile ifile ofile

cotrovic comic ifile ofile

Syntax	setgatts,attile ifile ofile
invertlat	Invert latitudes
Syntax	invertlat ifile ofile
inventless	Invent lovels

Syntax	invertlev ifile ofile
maskregion	Mask regions
Syntax	maskregion, regions ifile ofile

masklonlatbox	Mask a longitude/latitude box
Syntax	${f masklonlatbox}, lon1, lon2, lat1, lat2 \ {f ifile}$ of ile
maskindexbox	Mask an index box
Syntax	${f maskindexbox}, idx1, idx2, idy1, idy2 \ {\tt ifile} \ {\tt ofile}$
setclonlatbox	Set a longitude/latitude box to constant
Syntax	${f setclonlatbox}, c, lon1, lon2, lat1, lat2 \ {f ifile}$ of ile
setcindexbox	Set an index box to constant
Syntax	setcindexbox cidy1 idy2 idy1 idy2 ifile ofile

Syntax	${\bf setcindexbox}, c, idx1, idx2, idy1, idy2 \ {\tt ifile}$	ofil
enlarge	Enlarge fields	
emarge	Emarge nerds	

	Syntax	enlarge,grid ifile ofile
	setmissval	Set a new missing value
	Syntax	setmissval, newmiss ifile ofile
	setctomiss	Set constant to missing value
	setmisstoc	Set missing value to constant
ĺ	Syntax	< operator >, c ifile ofile
ĺ	setrtomiss	Set range to missing value
ĺ	setvrange	Set valid range
ĺ	Syntax	<pre><operator>,rmin,rmax ifile ofile</operator></pre>

Arithmetic			fld < STAT >	Statistical values over a field	yseaspctl	Multi-year seasonal percentiles	intyear	Interpolation between two years
			Syntax	<pre><operator> ifile ofile</operator></pre>	Syntax	yseaspctl,p ifile1 ifile2 ifile3 ofile	Syntax	intyear, years ifile1 ifile2 oprefix
expr	Evaluate expressions		fldpctl	Field percentiles	ydrun <stat< td=""><td>Multi-year daily running statistical values</td><td></td><td></td></stat<>	Multi-year daily running statistical values		
Syntax	expr,instr ifile ofile		Syntax	fldpctl,p ifile ofile	Syntax	<pre><operator>,nts ifile ofile</operator></pre>	TD C	
exprf	Evaluate expressions from		zon < STAT >	Zonal statistical values	ydrunpctl	Multi-year daily running percentiles	Transformation	
Syntax	exprf,filename ifile ofi	116	Syntax	<pre><operator> ifile ofile</operator></pre>	Syntax	ydrunpctl,p,nts ifile1 ifile2 ifile3 ofile	sp2gp	Spectral to gridpoint
abs	Absolute value		zonpctl	Zonal percentiles	Dyntax	ydrumpeti,p,nes illier lillez lilles offie	sp2gpl	Spectral to gridpoint (linear)
int	Integer value		Syntax	zonpctl,p ifile ofile			gp2sp	Gridpoint to spectral
nint	Nearest integer value		mer < STAT >	Meridional statistical values	Correlation		gp2spl	Gridpoint to spectral (linear)
pow	Power		Syntax	<pre><operator> ifile ofile</operator></pre>	fldcor	Completion in smid success	Syntax	<pre><operator> ifile ofile</operator></pre>
sqr	Square		merpctl	Meridional percentiles		Correlation in grid space	sp2sp	Spectral to spectral
sqrt	Square root		Syntax	merpctl,p ifile ofile	Syntax	fldcor ifile1 ifile2 ofile	Syntax	sp2sp,trunc ifile ofile
exp	Exponential			1 11	timcor	Correlation over time	dv2uv	Divergence and vorticity to U and V wind
ln	Natural logarithm			Statistical values over grid boxes	Syntax	timcor ifile1 ifile2 ofile	dv2uvl	Divergence and vorticity to U and V wind (linear)
log10	Base 10 logarithm		Syntax	<pre><operator>,nx,,ny ifile ofile</operator></pre>			uv2dv	U and V wind to divergence and vorticity
sin	Sine		vert < STAT >	Vertical statistical values			uv2dvl	U and V wind to divergence and vorticity (linear)
cos	Cosine		Syntax	<pre><operator> ifile ofile</operator></pre>	Regression		Syntax	<pre><operator> ifile ofile</operator></pre>
tan	Tangent		timeol < STAT	Time range statistical values	regres	Regression		
asin	Arc sine		Syntax	<pre>< operator > ,nsets[,noffset[,nskip]] ifile ofile</pre>	Syntax	regres ifile ofile		
acos	Arc cosine			<pre>< operator >, insets[, nonset[, nskip]] iffie offie</pre>	Symax	regres fifte office	Import/Expo	ort
reci	Reciprocal value		timselpctl	Time range percentiles	detrend	Detrend	immont binour	Import binary data sets
Syntax	<pre>< operator > ifile ofile</pre>	e	Syntax	<pre>timselpctl,p,nsets[,noffset[,nskip]] ifile1 ifile2 i</pre>	Syntax	detrend ifile ofile		import_binary ifile ofile
addc	Add a constant		run < STAT >	Running statistical values	trend	Trend	Syntax	
subc	Subtract a constant		Syntax	<pre><pre><pre><pre><pre><pre><pre><pre></pre></pre></pre></pre></pre></pre></pre></pre>	Syntax	trend ifile ofile1 ofile2	import_cmsaf	Import CM-SAF HDF5 files
mulc	Multiply with a constant						Syntax	import_cmsaf ifile ofile
divc	Divide by a constant		runpctl	Running percentiles	subtrend	Subtract trend	import_amsr	Import AMSR binary files
Syntax	<pre><operator>,c ifile ofi</operator></pre>	le.	Syntax	runpctl,p,nts ifile1 ofile	Syntax	subtrend ifile1 ifile2 ifile3 ofile	Syntax	import_amsr ifile ofile
add	Add two fields		tim < STAT >	Statistical values over all time steps			· ·	-
sub	Subtract two fields		Syntax	<pre><pre><pre><pre>coperator > ifile ofile</pre></pre></pre></pre>			input	ASCII input
mul	Multiply two fields			•	EOFs		Syntax	input,grid ofile
div	Divide two fields		timpctl	Time percentiles	eof	Calculate EOFs in spatial or time space	inputsrv	SERVICE ASCII input
min	Minimum of two fields		Syntax	timpctl,p ifile1 ifile2 ifile3 ofile	eoftime	Calculate EOFs in time space	inputext	EXTRA ASCII input
max	Maximum of two fields		hour $< STAT >$	Hourly statistical values	eofspatial	Calculate EOFs in spatial space	Syntax	<pre><operator> ofile</operator></pre>
atan2	Arc tangent of two fields		Syntax	<pre>< operator > ifile ofile</pre>	Syntax	<pre>< operator > ,neof ifile ofile1 ofile2</pre>	output	ASCII output
Syntax	<pre>< cangent of two fields </pre> <pre>< operator > ifile1 ifilence</pre>	loo ofilo					Syntax	output ifiles
		iez ollie	hourpctl	Hourly percentiles	eofcoeff	Calculate principal coefficients of EOFs	outputf	Formatted output
monadd	Add monthly time series		Syntax	hourpctl,p ifile1 ifile2 ifile3 ofile	Syntax	eofcoeff ifile1 ifile2 obase	Syntax	outputf,format,nelem ifiles
monsub	Subtract monthly time se		day < STAT >	Daily statistical values			outputint	Integer output
monmul	Multiply monthly time se		Syntax	<pre><operator> ifile ofile</operator></pre>	T . 1		outputsrv	SERVICE ASCII output
mondiv	Divide mentle time							
mondiv	Divide monthly time serie			•	Interpolation			
Syntax	<pre>coperator > ifile1 ifile1</pre>		daypctl	Daily percentiles	Interpolation	Bilinear interpolation	outputext	EXTRA ASCII output
Syntax	<pre><operator> ifile1 ifil</operator></pre>	le2 ofile		•				
Syntax ymonadd	<pre><operator> ifile1 ifil Add multi-year monthly t</operator></pre>	le2 ofile time series	daypctl	Daily percentiles	remapbil	Bilinear interpolation	outputext	EXTRA ASCII output
Syntax ymonadd ymonsub	<pre>< operator > ifile1 ifil Add multi-year monthly t Subtract multi-year mont</pre>	time series hly time series	daypctl	Daily percentiles daypctl,p ifile1 ifile2 ifile3 ofile	remapbil remapbic	Bilinear interpolation Bicubic interpolation	outputext Syntax	EXTRA ASCII output <pre></pre> <pr< td=""></pr<>
ymonadd ymonsub ymonmul	<pre><operator> ifile1 ifil Add multi-year monthly t Subtract multi-year mont Multiply multi-year mont</operator></pre>	time series hly time series hly time series	daypctl Syntax mon <stat> Syntax </stat>	Daily percentiles daypctl,p ifile1 ifile2 ifile3 ofile Monthly statistical values <operator> ifile ofile</operator>	remapbil remapbic remapdis	Bilinear interpolation Bicubic interpolation Distance-weighted average remapping	outputext Syntax Miscellaneous	EXTRA ASCII output <pre><pre><pre><pre><pre><pre><pre><pre></pre></pre></pre></pre></pre></pre></pre></pre>
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