DASMod console reference

September 26, 2022

break [text]

Pauses the console script and displays [text] if submitted.

cadd [number]

Adds cases to the data set.

[number] positive integer of cases to add

case [bool_value]

Executes commands (from here on) only if [bool_value]=1, otherwise the commands are skipped. Defined is BREAK=[bool_value]=1.

cassign [data stack name] [cluster-variable]

Assigns [cluster-variable] values to the cases. The clusters are described by [data stack name].

chartop [parameter]

Set chart-related options and perform operations.

[parameter]

ABS	report absolute frequencies (pre freq)
REL	report relative frequencies (pre freq)
COUNT [value]	count observations of [value] (splitby)
COUNT	turn off count-mode
SAVE [filename]	saves the chart as [filename] (post freq)
SIZE [width] [height]	set chart size, [width] mm width and [height] mm height
TITLE [title]	denotes the chart title with [title] (post freq)
XTITLE [x-axis_title]	denotes the X axis with [x-axis_title] (post freq)
XINTERVAL [interval]	interval width for labeling on the X axis (interval=0 is reset to auto)

clrscr

Clears the output screen.

cmean [cluster_variable] [variable_list]

Calculates the cluster means.

[cluster_variable]	cluster-identifying variable; if end-marked with colon - [cluster_variable]: - cluster means are stored as variables
[variable_list]	list of variables whose cluster means to be calculated

coma [data_stack_name] [variable_list] [parameter]

Generates a correlation matrix of the variables in [variable_list] and writes the matrix to [data_stack_name].

optional [parameter]

/NDIAG	fills the diagonal with zeros

combi [out_variable] [variable_list]

Codes at least two variables by one variable.

[out_variable]	variable that represents the value combination of the variables to be combined
[variable_list]	variables whose values are to be combined

compute [variable] [equation]

Generates a variable.

[variable]	designation of the variable
[equation]	right-hand side of the equation (leaving blank sets up variable with missing values)

inline equation sub-commands

$ABS($x$) returns the absolute value of x

$DO([cmd];[cmd];...) process [cmd].

$ESTIM([variable]) returns the last estimate for [variable]; same as $ESTIM([variable];b), which return coefficient; $ESTIM([variable];s) returns standard error; $ESTIM([variable];r) returns the rho coefficient (beta weight)

$ESTIM([model_statistic];m) return the statistic for the last estimated model; available model statistics are "Rsq" for R^2

$EXP($x$) returns the result of e^x

$FLOOR($x$) returns the floor (integer part) of x

$I() returns the number of the case

$INC(#[global_var]) increase the value of #[global_var]

$IS([value or variable x];[relation];[value or variable y]) returns 0 (false) or 1 (true)

$LN($x$) returns the logarithm of x

$OBS($x$) returns the number of valid cases of variable x

$PI() returns π

$POW([base];[exponent]) returns the [exponent]-power of [base]; that is multiplying the [base]-value [exponent]-times by itself

$RND() returns a random number from the interval [0,1]

$RNDI(), $RNDI([max value]), $RNDI([min value];[max value]) returns a random non-negative integer number

$ROUND($x$) returns the value of x rounded to an integer

$SDCOLN([data_stack_name]) returns the number of columns in [data_stack_name]

$SDROWN([data_stack_name]) returns the number of rows in [data_stack_name]

$SIN($x$) returns the sinus of x

$SUM([variable]) returns the sum of valid values from [variable]

$VMIN([variable]) returns the minimum value of [variable]

$VMAX([variable]) returns the maximum value of [variable]

cpropag [data_stack_name] [cluster_variable]

Propagates variable values according to the cluster used as a filter (defined by [cluster_variable] in [data_stack_name]) that has the largest likelihood for each case.

dscopy [source_data_stack_name] [destination_data_stack_name]

Copies [source_data_stack_name] to [destination_data_stack_name].

dsexport [data_stack_name] [filename]

Exports [data_stack_name] in CSV-file format to [filename].

dsimport [filename]

Imports data from CSV-file [filename] into data-stack.

dsremove [data_stack_list]

Removes [data_stack_list].

eop

Signals the end of a procedure (return).

estimate [parameter]

Estimates the specified model.

optional [parameter]

/RHO /BETA	reports rho or beta (instead of the raw coefficients)
/STD	reports standardized coefficients
/IMP	performs imputation of predicted values
/PRED	stores the predicted values in variable *pred* $\sim$[*y*]
/REPLE	stores the estimates per replication in data-stack *REPLE*
/RETDS	stores the final estimates in data-stack *ESTIMATION REPORT*

export [filename] [parameter]

Exports the data to CSV [filename] into the working directory.

optional [parameter]

/LABELS	exports value labels (if defined) instead of numerical values

filter [parameter]

Sets or turns off a data filter.

[parameter]

OFF	turn off filter
DROP	the filtered out cases are discarded and the filter is turned off
[variable] [value]	use cases where the value of the variable [variable] equals [value]

freq [variable] [parameter]

Counts the frequency of the values of [variable].

optional [parameter]

/VALID	counts valid values only
/DUMMIES	generates a dummy variable for each value
/HIST	shows a histogram (instead of a bar chart), valid values only

group [in_variable] [out_variable]

Groups values from [in_variable] to [out_variable].

img_load_filter [filter_edge_length] [image_file]

Reads image data from [image_file] as a data set and generates information for a square window filter with the edge length of [filter_edge_length] pixels.

img_save [width_pixel] [height_pixel] [image_file]

Stores image data to [image_file]. Image data requires the variables X, Y, R, G, and B.

import [filename]

Imports data from CSV [filename].

kdcode [variable]

Generates a dummy variable for each value of [variable].

kde [variable] [parameter]

Performs a kernel density estimation based on the empirical distribution of [variable]. As a result, cases with appropriate weights are added to the data.

optional [parameter]

[sensitivity value]	a value in the interval $[0, 1]$

labels [variable] [parameter]

Labels the values of [variable].

[parameter]

>VAL: [values]	list of values to label
>LAB: [labels]	list of labels
/CLR	deletes all value labels of the variable

load [filename]

Loads data from DMD [filename].

modcon [con_var] [parameter]

Constructs and estimates a model with effects conditioned by [con_var].

[parameter]

>X: [variable_list]	list of independent variables
>Y: [variable]	dependent variable
/UNWARY	also includes Level 2 units whose n is less than 5%
/SKEEP	preserves the variables in the model that may have already been constructed and adds the specified variables

For independent variables preceded by "\" in the list, the unconditioned effect is estimated.

model [parameter]

Constructs a model

[parameter]

>X: [variable_list]	list of independent variables
>Y: [variable_list]	list of dependent variables
>KEEP	preserves the variables in the model that may have already been constructed and adds the specified variables

modfix #[variable] [value]

Tests a fixed target value model.

[parameter]

#[variable]	target variable
[value]	fixed outcome of [variable]

print [text]

Generates [text] as output. Text fragments are separated by "§". The values of global variables must be output as a separate text fragment, specifying the corresponding variable name and prefixing it with "#".

proc [procedure_name] [parameters]

Calls a custom procedure [procedure_name] and submits [parameters].

rank [in_variable] [out_variable] [parameter]

Transforms the values of the [in_variable] to rank values and stores the result in [out_variable].

optional [parameter]

/LIST	provides list ranks (instead of observation ranks)
/CPOS	provides continuous position ranks of the cases (instead of value ranks)

recode [out_variable] [new_value] [in_variable] [old_values_specification]

Re-codes [out_variable].

[out_variable]	variable whose values are encoded
[new_value]	value to assign to [out_variable]
[in_variable]	variable that provides the values to be re-coded
[old_values_specification]	the specific values of [in_variable] to be re-coded

reset

Restarts DASMod.

splitby [variable] [command_line]

Executes the [command_line] under the conditions (values) of [variable].

vdrop [variable_list]

Discards the variables in [variable_list] from the data set.

vsel [parameter]

Marks variables as model variables without assigning a role to them.

.	resets the list of model variables (clear)
[variable_list]	list of variables to mark as model variables

wait [parameter]

Without parameters: Instructs the console to wait to execute a command until the previous command is fully processed. With (any) parameter: The waiting instruction is revoked.

weightby [variable]

Weights the cases, with the case weights providing [variable]. If no [variable] is specified, the cases are not weighted.

while #[global_variable] [relation] [value] [command_line]

Repeats [command_line] as long as the [relation] between [global_variable] and [value] is true.

xlatent [variable_list] [parameter]

Extracts latent variables that are realized as manifest variables in [variable_list].

optional [parameter]

>[stub]	latent variable(s) name stub
~[value]	minimum R^2 as a stopping rule for the extraction of further latent variable
*	naro
°	varimax

xlc [variable_list] [parameter]

Extracts latent clusters/classes that are realized as manifest variables in [variable_list].

optional [parameter]

>[stub]	latent cluster(s) name stub

$coldreport [parameter]

Gets or sets the coldreport flag. If coldreport is set, the estimates are the expected values based on the raw data. If coldreport is not set, the estimates are the expected values based on the re-sampled data. If no parameter is passed, the current state of the $coldreport flag is output.

optional [parameter]

true	sets $coldreport flag to true
false	sets $coldreport flag to false

$include [filename]

Includes [filename] as command-line batch.

$linkfunc [parameter]

Gets or sets the link-function. If no parameter is passed, the current link function is shown.

optional [parameter]

.	if parameter is other then "logistic", no link-function is set
logistic	logistic link-function is set

$maxiti [number]

Sets the maximum number of ML iterations with [number].

$norep [parameter]

Gets or sets the norep flag. If norep is set, the engine does not generate any output.

optional [parameter]

true	sets $norep flag to true
false	sets $norep flag to false

$procdef [procedure_name] [parameter]

Defines a procedure [procedure_name] an signals the start of procedure command lines.

$seed

$workingdir [parameter]

Gets or sets the working directory.

?	get working directory (output)
!	open browser to set working directory
[path]	set working directory to [path]

$ycut [parameter]

Gets or sets the ybcut flag. If ybcut is set, the the dependent variable is treated as bounded (limited in its value spectrum). If no parameter is passed, the current state of the $ycut flag is output.

optional [parameter]

true	sets $ycut flag to true
false	sets $ycut flag to false

{{[expression]}}

Parsing the [expression].

//[comment]