algorithmic_cv	Algorithmic Control Variables: KEYWORDS		is optional if all default values are used
Variable type	Variable name		Description
double precision	structural_conv	0.001	Structural parameter convergence values
double precision double precision	phi_conv bga_conv	0.001	Objective function convergence value BGA outer loop convergence value
integer	it max structural	10	Max number of iterations for struct parameters
integer	it_max_phi	10	Max number of iterations for objective function
integer	it_max_bga	10	Max number of iterations for BGA
	linesearch	0	Linesearch procedure flag: [0] not perform [1] perform
integer			, , , , , , , , , , , , , , , , , , , ,
integer	it_max_linesearch	10	Max number of iterations for linesearch procedure Form of theta covariance: [0] none, [1] diag, [2] full
integer	theta_cov_form	0	matrix
integer	deriv_mode	0	derivatives (Jacobian) calculation method: [0] make PEST files internally, [1] use secondary command line argumern (typically adjoint state)
integer	posterior_cov_flag	0	[0] do not calculate posterior covariance, [1] calculate posterior covariance.
character, len = 6	jacobian_format		Two options for how the Jacobian matrix calculated by an external code is communicated to bgaPEST: binary means a jco file, ascii means a text file
character(len=100)	jacobian_file		Jacobian File
integer integer	par_anisotropy Q_compression_flag	0	Anisotropy flag: [0] no anistropy, [1] anisotropy [0] none - calculate full Q0, [1] Calculate Q0 for each beta separately and if nugget store just 1, if toep_flag store just a vector
prior_mean_cv	Prior Mean Control Variables: KEYWORDS		
Variable type	Variable name	Default	Description
integer	prior_betas	0	Have or not prior informations about mean? [0] No - [1] Yes
integer	beta_cov_form	0	Form of Beta covariance: [0] none, [1] diag, [2] full matrix
prior_mean_data	Beta Association Data: TABLE	5 ("	[a : "
Variable type	Variable name		Description Integer identifiers of beta associations
integer	BetaAssoc	-	Vector of parameter transformation : [NONE] or[
character(len=100)	Partrans	-	LOG]. (Not case sensitive)
double precision	beta_0	-	Prior beta values
double precision	beta_cov_i i = 1, p	-	Covariance of beta
structural_parameter_cv	Structural Parameter Control Variables: TABLE	Defectly	Description
Variable type integer	Variable name BetaAssoc	Default -	Description Integer identifiers of beta associations
integer	prior_cov_mode	1	Supplied matrix [0] or calculated [1].
integer	var_type	1	Type of variogram [0] pure nugget, [1] linear, [2] exponential
integer	struct_par_opt	1	Structural parameters optimization: [0] No optimization, [1] Optimization
integer	trans_theta	1	Transformation of structural parameters in the estimation space (power transform): [0] No, [1] Yes
double precision	alpha_trans	50	Exponent of power transformation in case of trans_theta
structural_parameter_data	Structural Parameter Data: TABLE		
Variable type	Variable name	Default	Description
integer	BetaAssoc	-	Integer identifiers of beta associations
double precision double precision	theta_0_1 theta 0 2	-	Initial value of theta 1 value Initial value of theta 2 value negative if not used
structural_parameter_cov	Structural Parameter Data: TABLE	-	Initial value of theta 2 value Hegative II Hot useu
Variable type	Variable name	Default	Description
integer	BetaAssoc	-	Integer identifiers of beta associations
double precision	theta_cov_i i=1,,max(num_thata_type)	-	Theta covariance matrix
epistemic_error_term	Epistemic Error Term: KEYWORDS		
Variable type	Variable name	Defaults	Description
double precision	sig_0	-	Initial value of sigma (epistemic uncertainty parameter)
integer	sig_opt	-	Optimization for sigma: [0] No, [1] Yes
double precision integer	sig_p_var trans_sig	0	Prior variance on sigma Transformation of epistemic error in the estimation
double precision	alpha_trans_sig	50	space (power transform): [0] No, [1] Yes Exponent of power transformation in case of trans_sig
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