algorithmic_cv	Algorithmic Control Variables: KEYWORDS		k is optional if all default values are used
Variable type	Variable name	Default	Description
double precision	structural_conv	0.001	Structural parameter convergence values
double precision	phi_conv	0.001	Objective function convergence value
double precision	bga_conv	0.001	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
integer	linesearch	0	Linesearch procedure flag: [0] not perform [1] perform
integer	it_max_linesearch	10	Max number of iterations for linesearch procedure
integer	theta_cov_form	0	Form of theta covariance: [0] none, [1] diag, [2] full 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	"binary"	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	par_anisotropy	0	Anisotropy flag: [0] no anistropy, [1] anisotropy
integer	Q_compression_flag	0	[0] none - calculate full Qss, [1] Calculate Qss 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		manx
Variable type	Variable name	Defaults	Description
integer	BetaAssoc	- Doradito	Integer identifiers of beta associations
character(len=100)	Partrans	-	Vector of parameter transformation : [NONE], [POWER], or[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		
Variable type	Variable name	Default	Description
integer	BetaAssoc	-	Integer identifiers of beta associations
integer	prior_cov_mode	1	Supplied matrix [0] or calculated [1].
		1	Type of variogram [0] pure nugget, [1] linear, [2]
integer	var_type	'	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		1
Variable type	Variable name	Default	Description
integer	BetaAssoc	-	Integer identifiers of beta associations
double precision	theta_0_1	-	Initial value of theta 1 value
double precision	theta 0 2	-	Initial value of theta 2 value negative if not used
structural_parameter_cov	Structural Parameter Data: TABLE		
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	sig_opt sig_p_var	0	Prior variance on sigma
			Transformation of epistemic error in the estimation
integer	trans_sig	0	space (power transform): [0] No, [1] Yes
double precision	alpha_trans_sig	50	Exponent of power transformation in case of trans_sig