Outer Iteration (maximum iterations defined by `it_max_bga`)
> *The outer iterations iterate until convergence of both PHI and Structural Parameters (optional)*

   Inner Iteration (maximum iterations defined by `it_max_phi`)
   > *The inner iteration progresses until convergence of PHI conditional on the current values of Structural Parameters*
   end Inner Iteration

   If `linesearch == 1`

      Linesearch (maximum iterations defined by `it_max_linesearch`)
      > *The linesearch is an optional correction that can get optimization for PHI back on track if it strays*
      end linesearch

   If `struct_par_opt ==1`

      Structural Parameter Optimization
      (maximum iterations defined by `it_max_structural`)
      > *If, optionally, Structural Parameter Optimization is invoked, iterations progress until convergence conditional on current process parameter values*
      end Structural Parameter Optimization

end Outer Iteration

If `posterior_cov_flag == 1`

   Calculate posterior covariance
   > *posterior covariance is only calculated for the final parameter values*