```
CArl_build_intersections
                                       Assemble:
      CArl_assemble_coupling
                                        C_1, C_2, C_M
                                       Calculate:
       CArl_FETI_setup_init
                                        phi_0, C_1^T * phi_0, C_2^T * phi_0
          init script
                       [PBS A,2]
 [PBS A,1]
                                        Solve:
                       Ext solver
 Ext. solver
                                       K_i * u_i,0 = F_i
                         u_0,2
   u_{0,1}
 [PBS B,1]
                       [PBS B,2]
                                       Solve:
 Ext. solver
                       Ext. solver
                                       K_i * x_i,0 = C_i^T * phi_0
   x_{0,1}
                         x_0,2
             [PBS C]
                                       Input:
      CArl_FETI_setup_finish
                                        u_i,0, x_i,0, C_1, C_2, C_M, RB_vecs
                                        Output:
             (k=0)
                                        RB_corr(0), r(0), z(0), p(0), rho(0), M_PC, C_1^T * p(0), C_2^T * p(0)
          iter script
[PBS D_k,1]
                      [PBS D_k,2]
                                         Solve:
Ext. solver
                       Ext. solver
                                         K_i * y(k)_i = C_i^T * p(k)
  y(k)_1
                         y(k)_2
            [PBS E_k]
                                         Input (single):
         CArl_FETI_iterate
                                         C_1, C_2, M_PC, RB_vecs
                                         y(k)_i, RB_corr(k), r(k), z(k)
   Converged?
                                         Input (several):
        иo
                                         rho(0...k), p(0...k), q(0...k-1)
                                         Output:
   Diverged?
                            ++k
                                         RB_corr(k+1), r(k+1), z(k+1)
                                         rho(k+1), p(k+1), q(k+1)
                           STOP
                                         phi(k+1), C_1^T * p(k+1), C_2^T * p(k+1)
                   YES-
        YES
           sol_script
 [PBS F,1]
                       [PBS F,2]
                                        Solve:
                                        K_i * x_f, i = C_i T * phi(k)
 Ext. solver
                       Ext. solver
   x_f,1
                         x_f,1
                                       Calculate:
             [PBS G]
                                        u_1 = u_1, 0 - x_f, 1
        CArl_FETI_set_sol
                                        u_2 = u_2,0 + x_f,2 + RB_{corr}(k)
```

PBS scripts launch commands:

```
init_script

qsub [PBS A,1]
qsub [PBS A,2]
qsub [PBS B,1]
qsub [PBS B,2]
qsub depend=afterok:[PBS A,1],[PBS A,2],[PBS B,1],[PBS B,2] [PBS C]

sol_script

qsub [PBS F,1]
qsub [PBS F,2]
qsub depend=afterok:[PBS F,1],[PBS F,2] [PBS G]
```