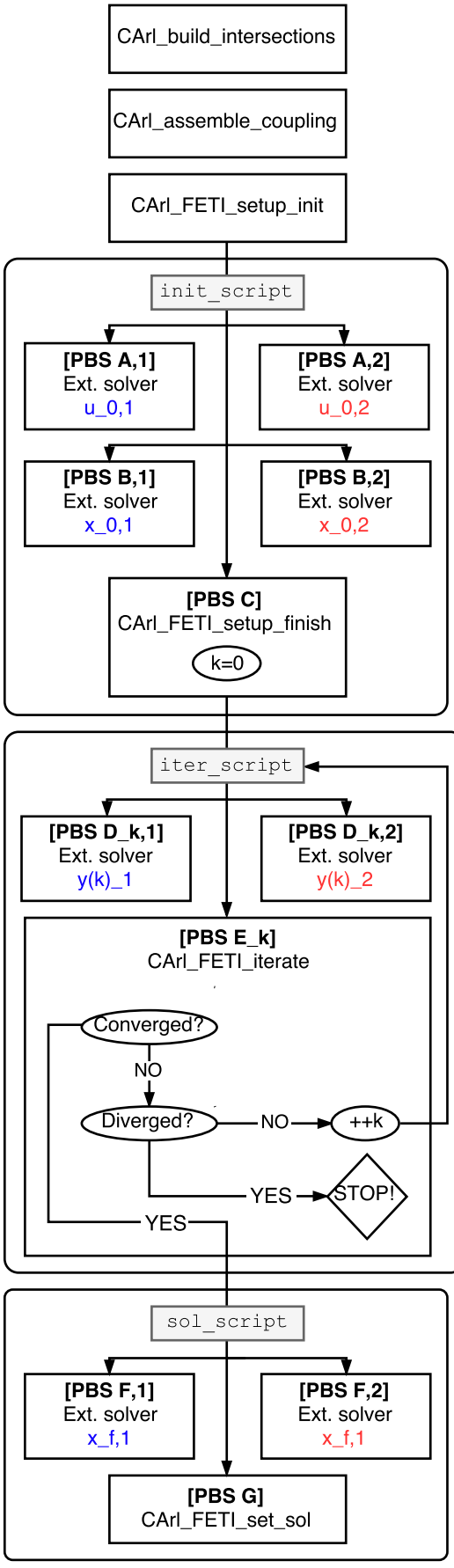

Assemble:
C_1, C_2, C_M

Calculate:
phi_0, C_1^T * phi_0, C_2^T * phi_0

Solve:
K_i * **u_i,0** = F_i

Solve:
K_i * **x_i,0** = C_i^T * phi_0

Input:
u_i,0, x_i,0, C_1, C_2, C_M, RB_vecs
Output:
RB_corr(0), r(0), z(0), p(0), rho(0), M_PC, C_1^T * p(0), C_2^T * p(0)

Solve:
K_i * **y(k)_i** = C_i^T * p(k)

Input (single):
C_1, C_2, M_PC, RB_vecs
y(k)_i, RB_corr(k), r(k), z(k)

Input (several):
rho(0...k), p(0...k), q(0...k-1)

Output:
RB_corr(k+1), r(k+1), z(k+1)
rho(k+1), p(k+1), q(k+1)
phi(k+1), C_1^T * p(k+1), C_2^T * p(k+1)

Solve:
K_i * **x_f,i** = C_i^T * phi(k)

Calculate:
u_1 = u_1,0 - x_f,1
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]
```

`iter_script`

```
qsub [PBS D_k,1]
qsub [PBS D_k,2]
qsub depend=afterok:[PBS D_k,1],[PBS D_k,2] [PBS E_k]
```

`sol_script`

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