FINE MODEL CONVERGED: NO COARSE MODEL CONVERGED: NO	FINE MODEL CONVERGED: NO COARSE MODEL CONVERGED: YES	FINE MODEL CONVERGED: YES COARSE MODEL CONVERGED: YES
<pre>// given: new coarse cplData from solvers H(x) measureConvergence(coarseModel) → false _coarseModelOptimizationActive ← true _MMPostProcessing.performPP(cplData) _coarseOptimization.optimize(cplData, q_k) RegisterSolution() // store coupling data for conv. measure and extrp // update time and iteration counts</pre>	<pre>// given: new coarse cplData from solvers H(x) measureConvergence(coarseModel) → true _coarseModelOptimizationActive ← false _doOnlySolverEvaluation ← true</pre>	<pre>// given: new coarse cplData from solvers H(x) measureConvergence(coarseModel) → true _coarseModelOptimizationActive ← false _doOnlySolverEvaluation ← true</pre>
// fluid solver: readBlockScalarData(cplReadData) mapDown(cplReadData) evaluateCoarseModel() mapUp(cplWriteData) writeBlockScalarData(cplWriteData) // to coarse cplData IDs writeBlockScalarData(cplWriteData) // to fine cplData IDS // solid solver: readBlockScalarData(cplReadData) mapDown(cplReadData) evaluateCoarseModel() mapUp(cplWriteData) writeBlockScalarData(cplWriteData) // to coarse cplData IDs	// fluid solver: readBlockScalarData(cplReadData) evaluateFineModel() writeBlockScalarData(cplWriteData) // to fine cplData IDs // solid solver: readBlockScalarData(cplReadData) evaluateFineModel() writeBlockScalarData(cplWriteData) // to coarse cplData IDs	// fluid solver: readBlockScalarData(cplReadData) evaluateFineModel() writeBlockScalarData(cplWriteData) // to fine cplData IDs // solid solver: readBlockScalarData(cplReadData) evaluateFineModel() writeBlockScalarData(cplWriteData) // to coarse cplData IDs
	<pre>// given: new fine cplData from solvers H(x) measureConvergence(fineModel) → false _doOnlySolverEvaluation ← false _MMPostProcessing.performPP(cplData) _coarseOptimization.iterationsConverged() UpdateDifferenceMatrices() // F and C updateCoarseModelDesignSpecification(q_k) _coarseModelOptimizationActive ← true _coarseOptimization.optimize(cplData, q_k) RegisterSolution() // store coupling data for conv. measure and extrp // update time and iteration counts</pre>	<pre>// given: new fine cplData from solvers H(x) measureConvergence(fineModel) → true _doOnlySolverEvaluation ← false _MMPostProcessing.iterationsConverged(cplData) _coarseOptimization.iterationsConverged() updateDifferenceMatrices() // F and C _coarseModelOptimizationActive ← true // store coupling data for conv. measure and extrp // update time and iteration counts</pre>