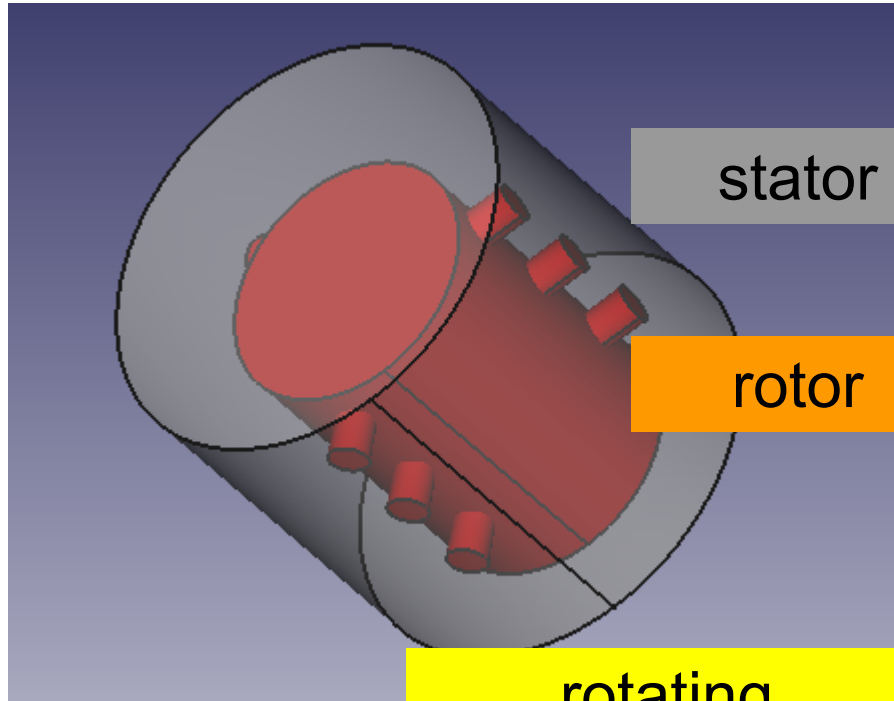


interDyMFoam
/stirredMillSnappy

model



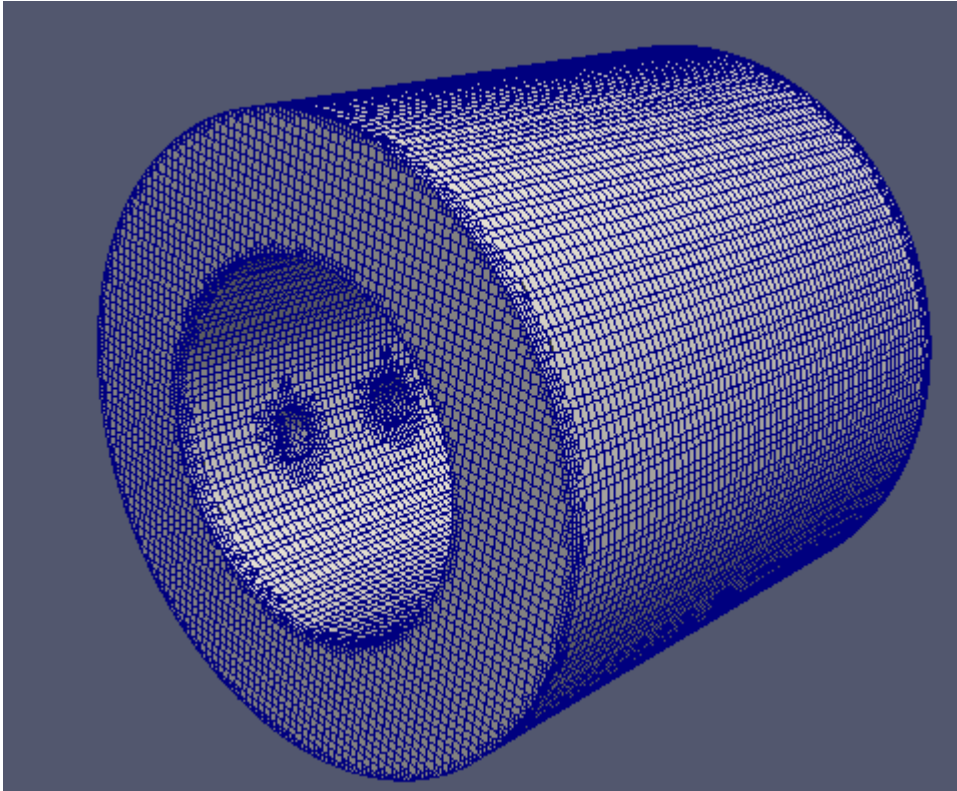
stator

rotor

rotating
(whole region)

```
C U x
20
21 boundaryField
22 {
23
24     stator
25     {
26         type          fixedValue;
27         value          $internalField;
28     }
29     rotor
30     {
31         type          rotatingWallVelocity;
32         origin        (0 0 0);
33         axis          (0 0 1);
34         omega         -62.8;
35         value          $internalField;
36     }
37 }
```

snappyHexMesh



nPoints:116248
nCells:79353

```
C cellZones ✕  
18 1  
19 (  
20 rotating  
21 {  
22     type cellZone;  
23 cellLabels      List<label>  
24 79353  
25 (  
26 0  
27 1  
28 2  
29 3  
30 4  
31 r
```

mixerVesselAMI

```

C p_rgh ✕
16
17 dimensions      [1 -1 -2 0 0 0 0];
18
19 internalField    uniform 1.25e5;
20
21 boundaryField|
22 {
23     ".*"
24     {
25         type      fixedFluxPressure;
26         phi       phiAbs;
27         value     $internalField;
28     }
29
30     outlet
31     {
32         type      fixedValue;
33         value     $internalField;
34     }
35
36     "AMI.*"
37     {
38         type      cyclicAMI;
39         value     $internalField;
40     }
41 }

```

stirredMillSnappy

```

C p_rgh ✕
20
21 boundaryField
22 {
23
24     stator
25     {
26         type      fixedFluxPressure;
27         phi       phiAbs;
28         value     $internalField;
29     }
30     rotor
31     {
32         type      fixedFluxPressure;
33         phi       phiAbs;
34         value     $internalField;
35     }
36 }
37

```

fvSolutions

mixerVesselAMI

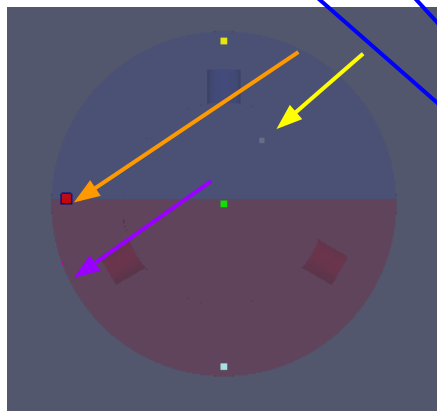
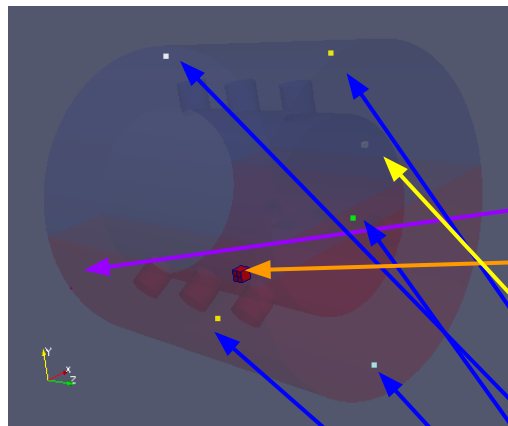
fvSolution *

```
68
69 PIMPLE
70 {
71     momentumPredictor    yes;
72     correctPhi            yes;
73     transSonic            no;
74     nOuterCorrectors      1;
75     nCorrectors           3;
76     nNonOrthogonalCorrectors 0;
77     nAlphaCorr            1;
78     nAlphaSubCycles       2;
79     cAlpha                1;
80 }
81
```

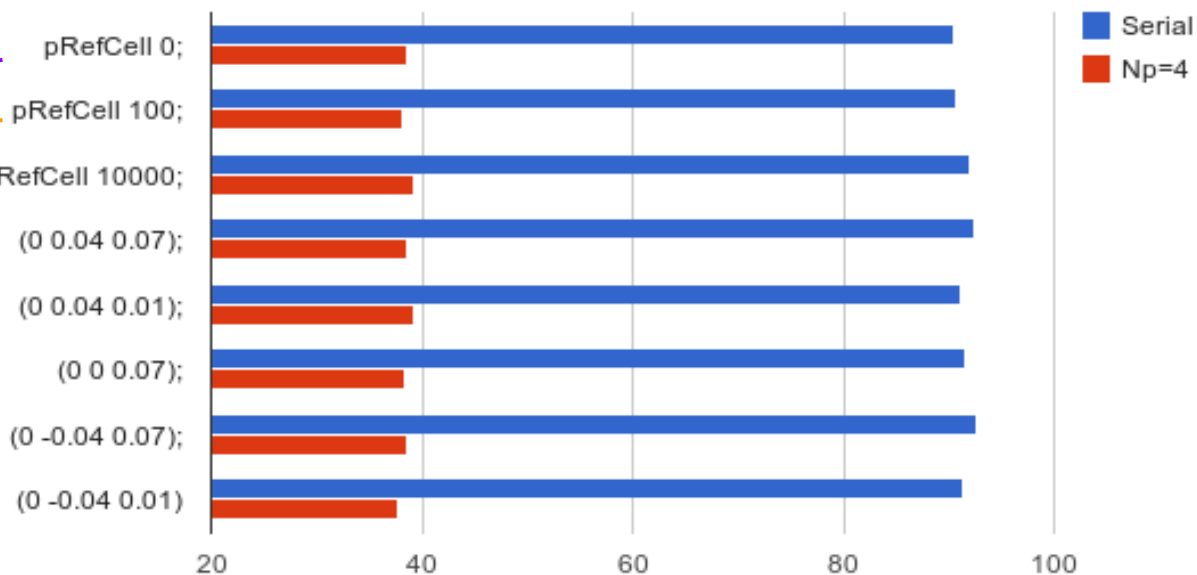
stirredMillSnappy

fvSolution *

```
68
69 PIMPLE
70 {
71     momentumPredictor    yes;
72     correctPhi            yes;
73     transSonic            no;
74     nOuterCorrectors      1;
75     nCorrectors           3;
76     nNonOrthogonalCorrectors 0;
77     nAlphaCorr            1;
78     nAlphaSubCycles       2;
79     cAlpha                1;
80     pRefCell              0; //0
81     // pRefCell          100; //1
82     // pRefPoint         (0 0 0.07); //2
83     // pRefPoint         (0 -0.04 0.01); //3
84     // pRefPoint         (0 0.04 0.01); //4
85     // pRefPoint         (0 -0.04 0.07); //5
86     // pRefPoint         (0 0.04 0.07); //6
87     // pRefCell          10000; //7
88     pRefValue             0;
89 }
90
```



Serial / Parallel Study



Execution Time