

blockMeshDict\_PipeFlo.txt

```

/*-----^-- C++ ^-----*/
|=====|
| \ \ / | F i e l d | foam-extend: Open Source CFD
| \ \ / | O p e r a t i o n | Version: 1.5
| \ \ / | A n d | Web: http://www.cfdyna.com
| \ \ / | M a n i p u l a t i o n |
/*-----*/

```

FoamFile

```

{
    version      1.5;
    format       ascii;
    class        dictionary;
    object       blockMeshDict;
}
// * * * * * //

```

convertToMeters 0.001;

vertices

```

(
    (-10 10 0) // 0
    (-10 -10 0) // 1
    ( 10 -10 0) // 2
    ( 10 10 0) // 3
    (-17.68 17.68 0) // 4
    (-17.68 -17.68 0) // 5
    ( 17.68 -17.68 0) // 6
    ( 17.68 17.68 0) // 7
    (-10 10 1000) // 8
    (-10 -10 1000) // 9
    ( 10 -10 1000) // 10
    ( 10 10 1000) // 11
    (-17.68 17.68 1000) // 12
    (-17.68 -17.68 1000) // 13
    ( 17.68 -17.68 1000) // 14
    ( 17.68 17.68 1000) // 15
);

```

blocks

```

(
    hex (0 1 2 3 8 9 10 11) (10 10 200) simpleGrading (1 1 1)
    hex (0 4 5 1 8 12 13 9) (10 10 200) simpleGrading (0.5 1 1)
    hex (1 5 6 2 9 13 14 10) (10 10 200) simpleGrading (0.5 1 1)
    hex (2 6 7 3 10 14 15 11) (10 10 200) simpleGrading (0.5 1 1)
    hex (3 7 4 0 11 15 12 8) (10 10 200) simpleGrading (0.5 1 1)
);

```

edges

```

(
    arc 4 5 (-25 0 0)
    arc 5 6 ( 0 -25 0)
    arc 6 7 ( 25 0 0)
    arc 7 4 ( 0 25 0)
    arc 12 13 (-25 0 1000)
    arc 13 14 ( 0 -25 1000)
    arc 14 15 ( 25 0 1000)
    arc 15 12 ( 0 25 1000)
);

```

patches

```
(  
  empty Inlet  
  (  
    (0 1 2 3)  
    (0 4 5 1)  
    (1 5 6 2)  
    (2 6 7 3)  
    (3 7 4 0)  
  )  
  
  empty Outlet  
  (  
    (8 9 10 11)  
    (8 12 13 9)  
    (9 13 14 10)  
    (10 14 15 11)  
    (11 15 12 8)  
  )  
);
```

mergePatchPairs

```
(  
);
```

```
// ***** //
```