

### Maximum Velocity vs Time

Max velocity (mm/s)

14  
12  
10  
8  
6  
4  
2  
0

0 1 2 3 4 5

Time (s)

### Centerline Velocity (near exit)

Centerline  $u$  (mm/s)

14  
12  
10  
8  
6  
4  
2  
0

0 1 2 3 4 5

Time (s)

### Velocity Change (Convergence)

Max change (mm/s)

10<sup>1</sup>  
10<sup>0</sup>  
10<sup>-1</sup>  
10<sup>-2</sup>  
10<sup>-3</sup>  
10<sup>-4</sup>  
10<sup>-5</sup>

0 1 2 3 4 5

Time (s)

### Convergence to Steady State

Deviation from final (%)

10<sup>2</sup>  
10<sup>1</sup>  
10<sup>0</sup>  
10<sup>-1</sup>  
10<sup>-2</sup>  
10<sup>-3</sup>  
10<sup>-4</sup>

0 1 2 3 4 5

Time (s)