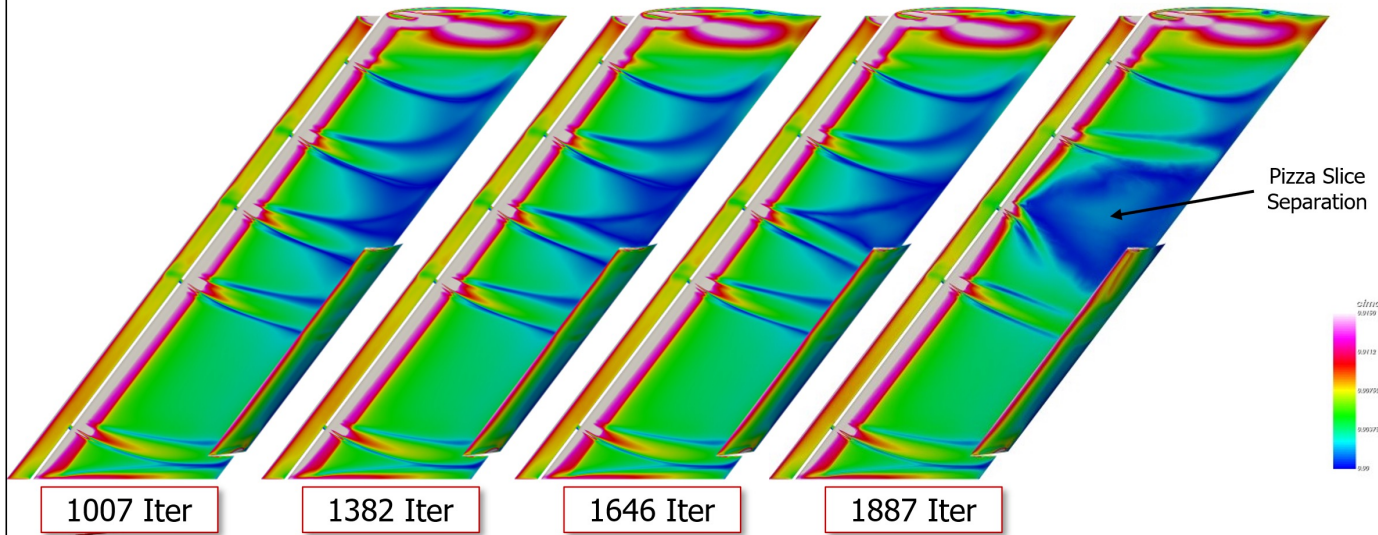
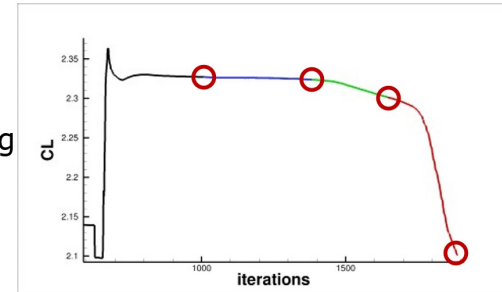


Bracket Study



- h6c1_rans_4f_1 mesh (323M cells) was used to study development of the Pizza Separation at Alpha 30
- Solution was restarted from alpha 25 solution up to 30 deg
- Flow is initially pizza free. Then the 3rd bracket wake begins to widen at the trailing edge and eventually separates.



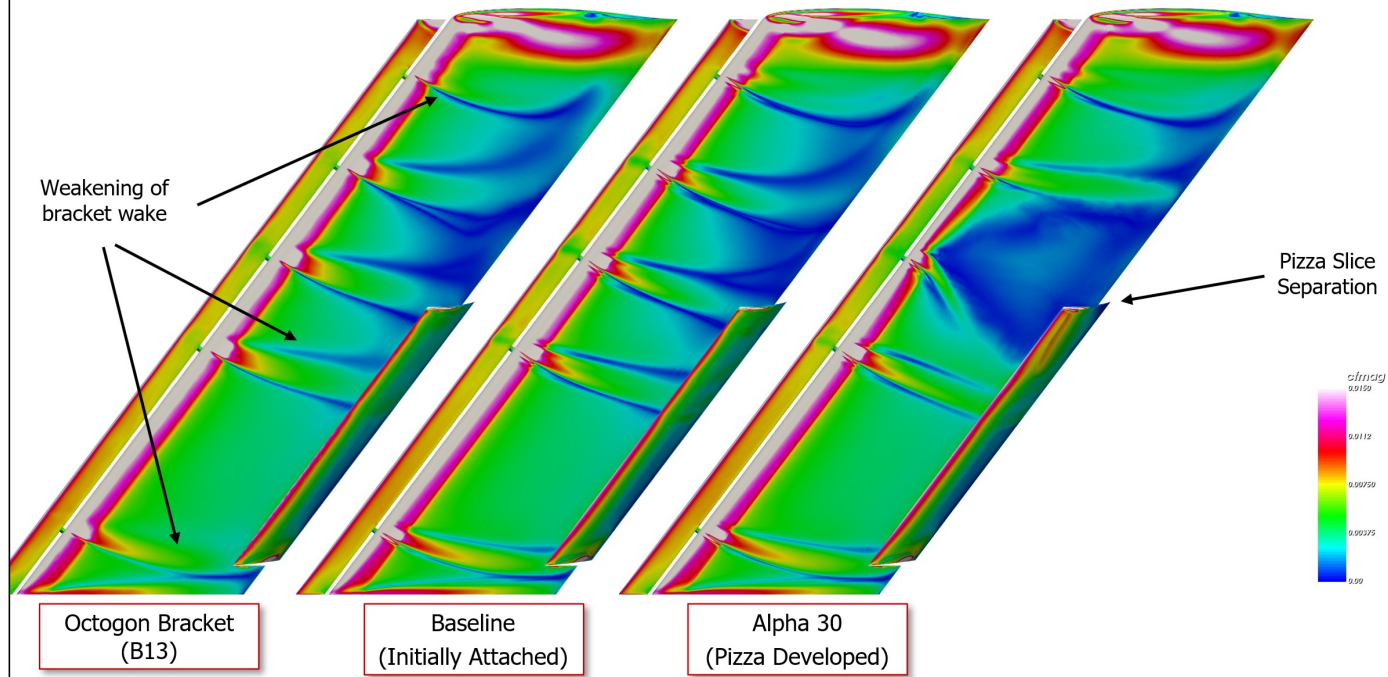
Pizza Separation Develops from the Trailing Edge

3/14/2026
Slide #14

Bracket Study



- Alpha 30 Comparison of Bracket Shape Effect on Bracket Wakes
- B13 solution is grid converged using heldenadapt



Bracket Shape Changes

3/14/2026
Slide #15

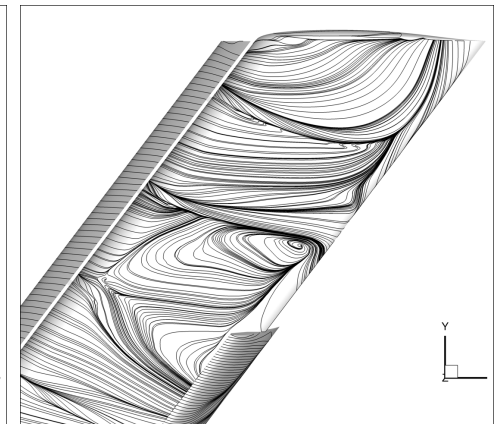
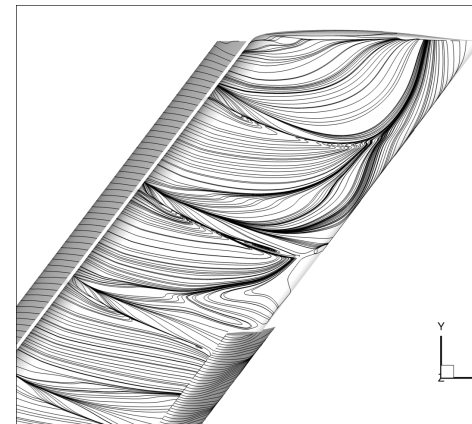
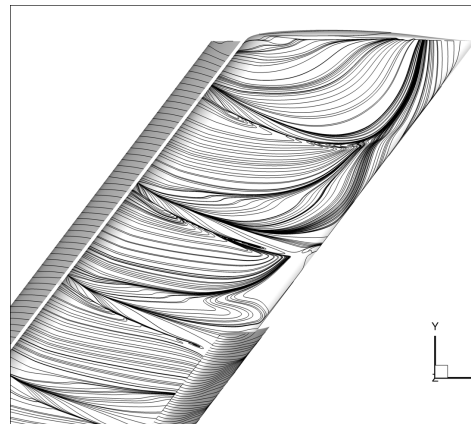
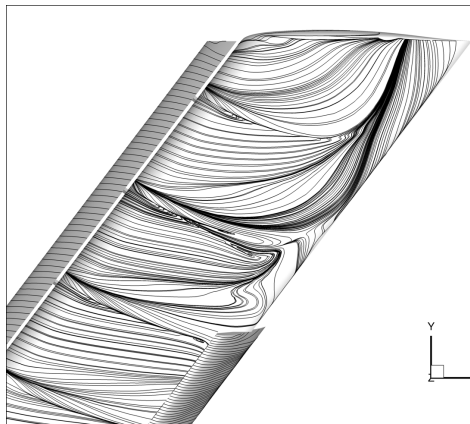
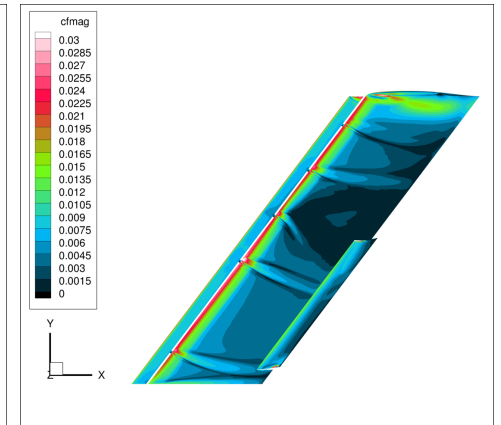
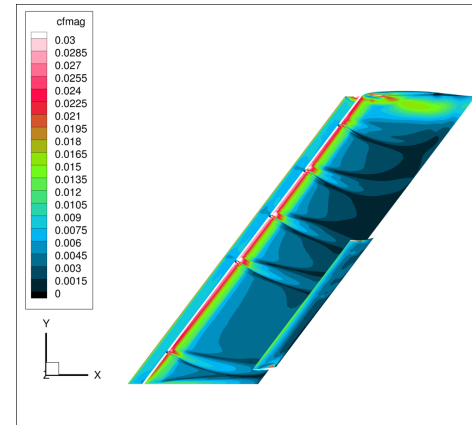
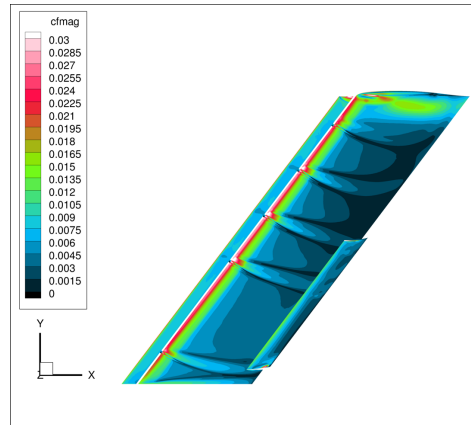
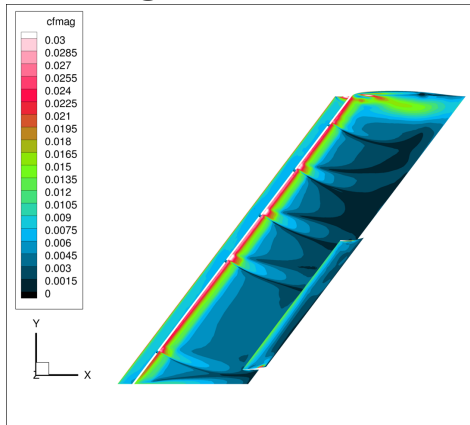
Rectangular brackets

Octagonal brackets

1007 iter

1382 iter

1887 iter



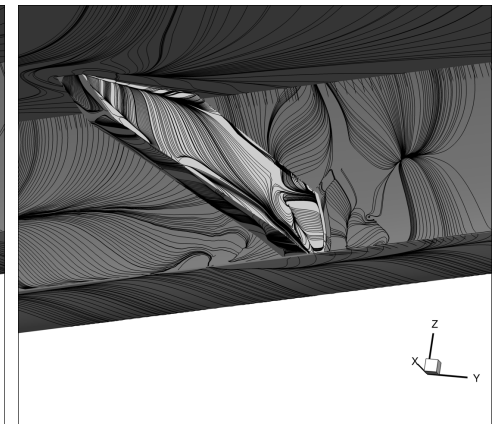
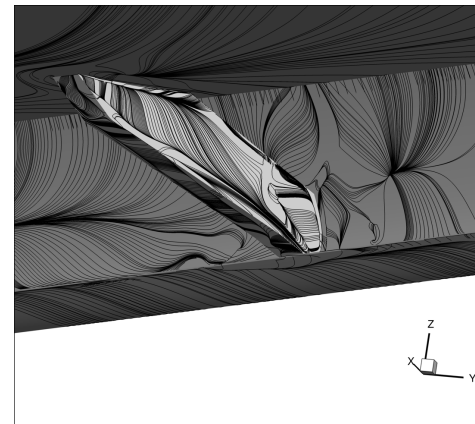
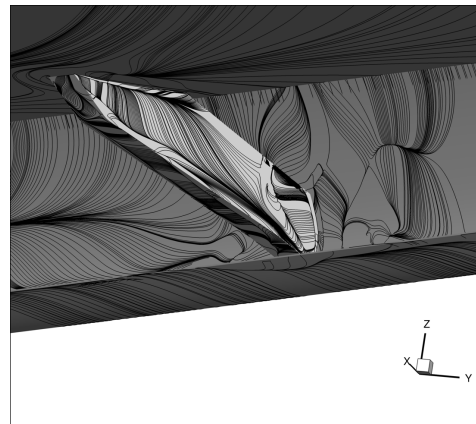
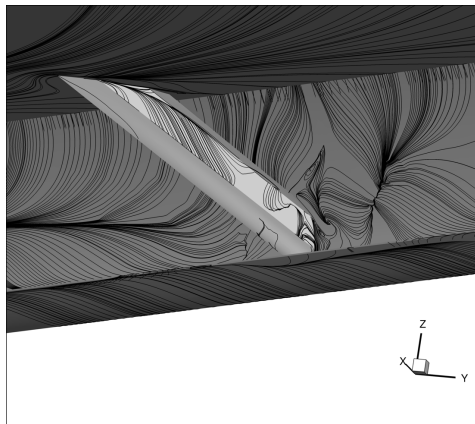
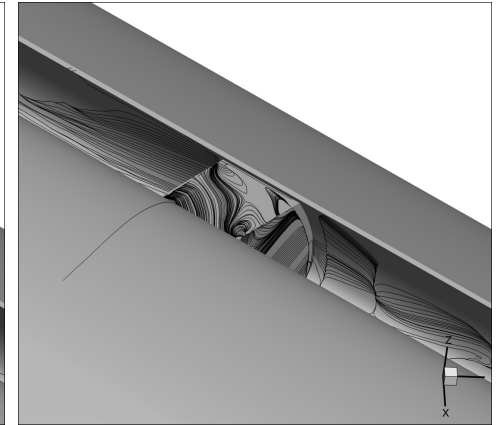
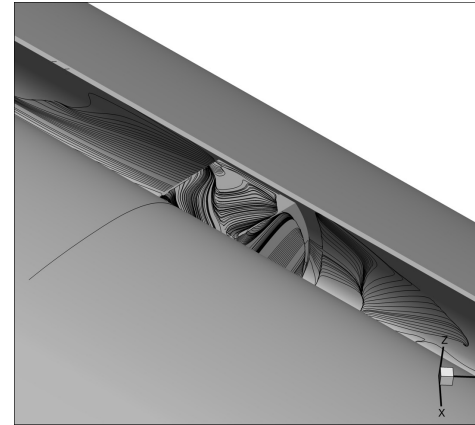
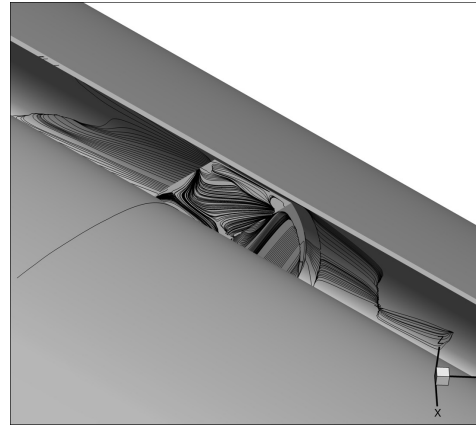
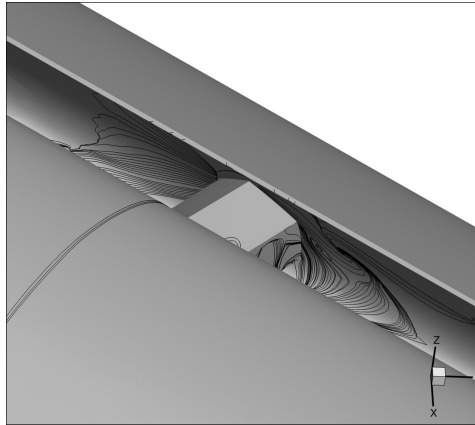
Rectangular brackets

Octagonal brackets

1007 iter

1382 iter

1887 iter



Rectangular brackets

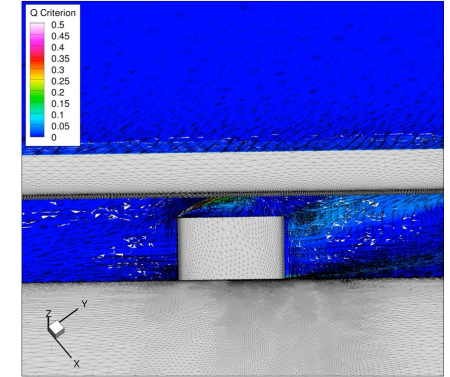
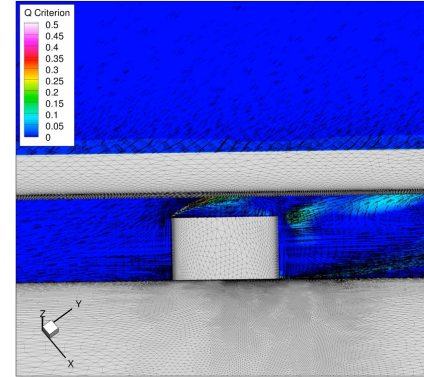
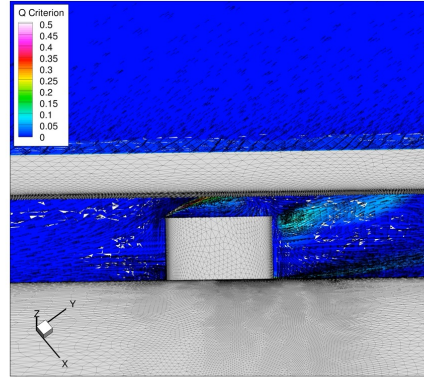
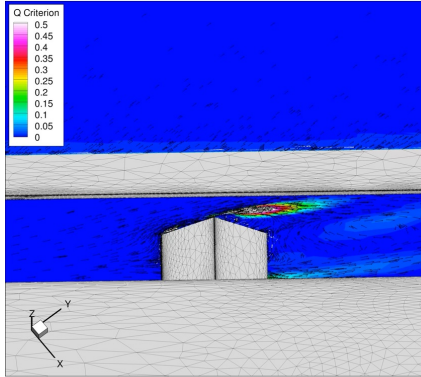
Octagonal brackets

1007 iter

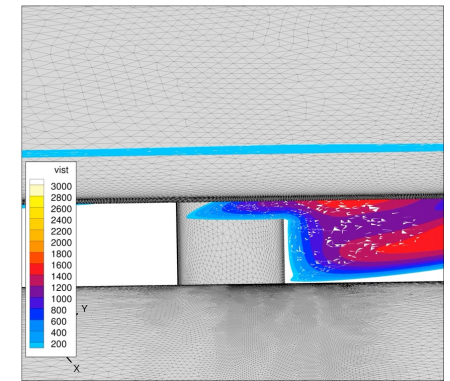
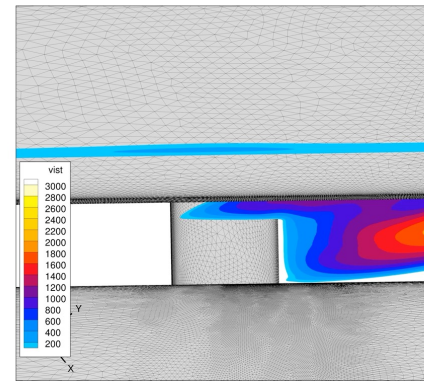
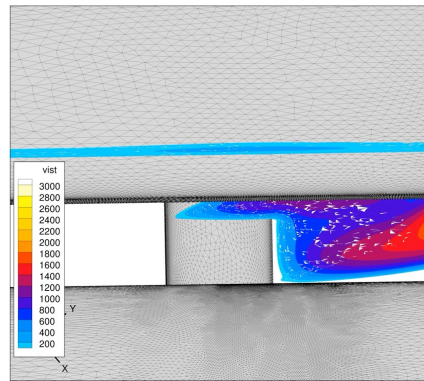
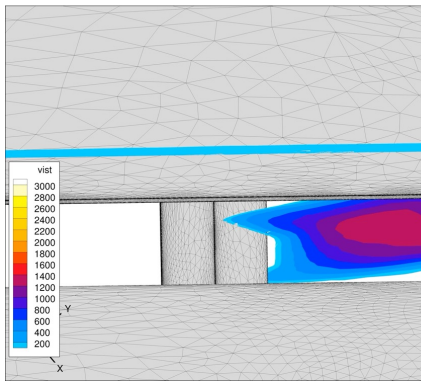
1382 iter

1887 iter

Q + velocity vector



Turbulent viscosity



Rectangular brackets

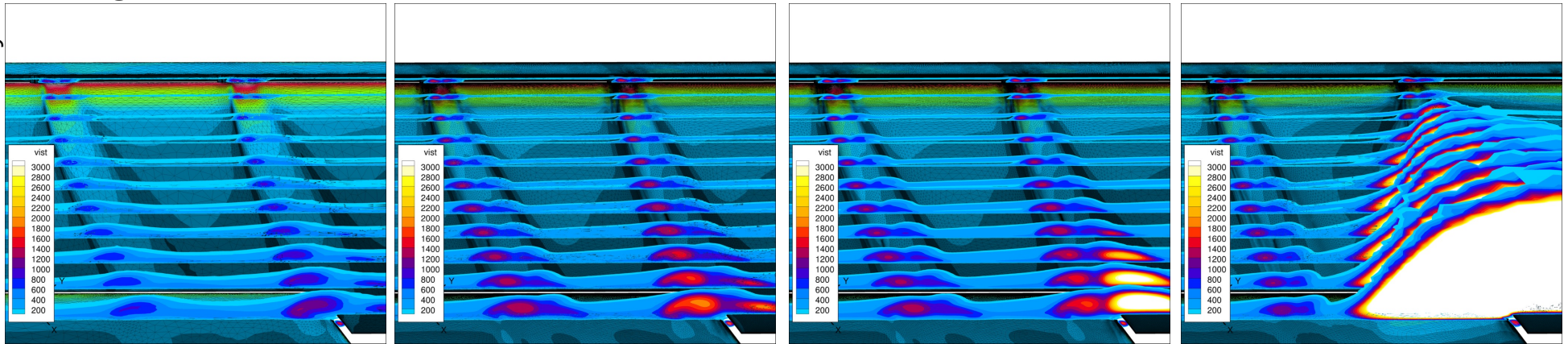
Octagonal brackets

1007 iter

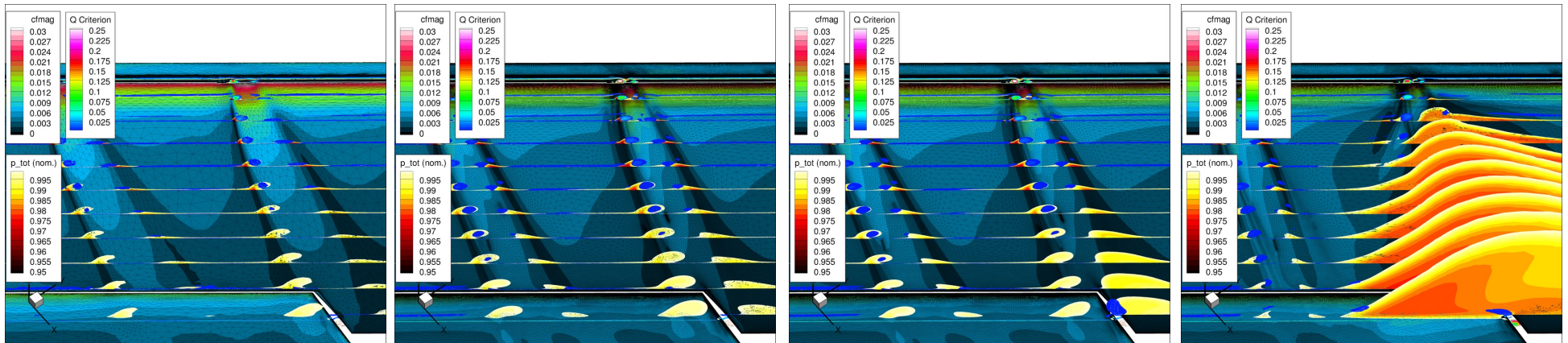
1382 iter

1887 iter

Turbulent viscosity



Total pressure + Q



Rectangular brackets

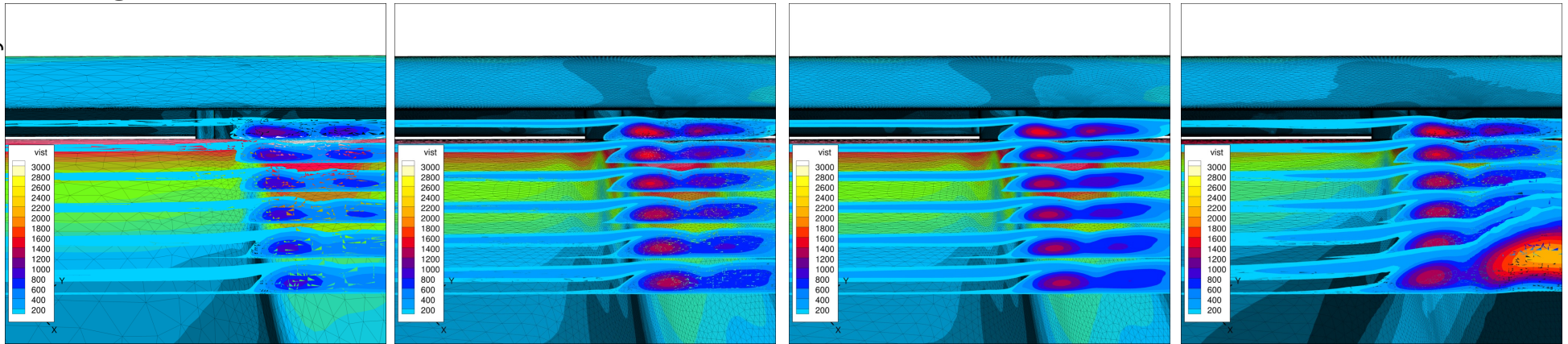
Octagonal brackets

1007 iter

1382 iter

1887 iter

Turbulent viscosity



Total pressure + Q

