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Courant Number  $C = (u+a)\frac{\Delta t}{\Delta x}$ , can be used to determine the time step that satisfies the stability criterion.  $C \le 1$  ensures that the solution will be stable. Note the above stability criterion is an empirical relation and therefore, it would be safe to use a time step for which the value of *C* will be well below unity.

December 2, 2004

topic19b\_nozzle\_flow









