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Click OK to close the panel.
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The lid-driven cavity problem has long been used as a test or validation case for new codes or new solution methods. The problem geometry is simple and

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two-dimensional, and the boundary conditions are also simple. The standard case is fluid contained in a square domain with Dirichlet boundary conditions on all sides, with three stationary sides and one moving side (with velocity tangent to the side).

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calculations have been
deactivated in version 2.7 due to
unsatisfactory results. A new
approach is being pursued. The
lid-driven cavity is a well-known

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benchmark problem for viscous incompressible fluid flow . The geometry at stake is shown in Figure 27. We are dealing with a square cavity consisting of three rigid walls with no-slip conditions and a lid moving with a tangential unit velocity.

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Lid-driven cavity

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The lid-driven cavity (LDC) is a common test or bench-mark problem in computational fluid dynamics (CFD) particularly as

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one that critically tests the accuracy of the advection (convective acceleration) scheme used for the computations. The figure that follows is an example calculation that illustrates the essential features of the computation which consists of a

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rectangular cavity, a square one in this case, where the (Newtonian) fluid inside is set in motion by dragging the upper edge of ...

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stokes equations is obtained for
lid-driven square cavity case for
Reynolds Numbers $100 < Re <$
 5000 , using Finite Volume Method
with primitive variable

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formulation on a uniform grid. Convective terms are discretized using second order central differencing scheme, and SIMPLE algorithm is used to decouple velocity and pressure.

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The lid driven cavity is a classical
problem and closely resembles
actual engineering problems that

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exist in research and industry areas. The vorticity equation will be solved utilizing a forward time central space (FTCS) explicit method. The streamline equation is solved using the successive over relaxation method.

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The purpose of this tutorial is to illustrate the setup and solution of the two-dimensional laminar fluid flow for a lid driven cavity. Check out my other tu...

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steady solution of lid-driven cavity flow is concerned. The main objective of the present study is to demonstrate that the numerical solution of 2-D steady incompressible flow in a lid-driven cavity can be obtained at even

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higher Re ($Re \leq 65000$) by using high-order linear schemes such as the quadratic upstream

FINITE VOLUME SIMULATION OF
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cavity utilizing the commercial software package FLUENT.

Solutions are presented in the parallel and antiparallel motion of the lid and the flow pattern which develops under these conditions.

Figure 1. Schematic diagram of two-sided lid-driven staggered

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cavity: (a) antiparallel; (b) parallel
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