# Case termination

Table of Contents

Steady state
Transient

By default, cases will run until the time settings are achieved in the case **controlDict** dictionary. Alternatively, the `residualControl` object can be added to the **fvSolution** dictionary to enable additional controls. This operates in two modes:

# Steady state

To terminate the case when the initial residual of the field equations falls below user-specified threshold values for SIMPLE-based solvers:

```
residualControl
{
    p           1e-2;
    "(Ux Uy)"   1e-4;
    "(k|epsilon|omega)" 1e-4;
}
```

# Transient

To control the number of outer corrector iterations for PIMPLE-based solvers:

```
// Maximum number of outer correctors
nOuterCorrectors    50;

residualControl
{
    "(U|k|epsilon|omega)"
    {
        relTol          0;
        tolerance       1e-4;
    }
}
```

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