

## Kernel: constant

### Setting

Right hand side	linear
<b>Kernel</b>	<b>constant</b>
<b>Integration Method</b>	<b>retriangulate</b>
With caps	True
Quadrule outer	7
Quadrule inner	1
Singular quad degree	5
Delta	0.1
Ansatz	CG

### Rates

h	dof	L2 Error	Rates	Time [s]
1.00e-01	1.02e+02	3.50e-03	0.00e+00	5.11e-02
5.00e-02	4.88e+02	7.51e-04	2.22e+00	1.23e-01
2.50e-02	2.05e+03	1.78e-04	2.08e+00	1.60e+00
1.25e-02	8.23e+03	4.86e-05	1.87e+00	1.76e+01

### Setting

Right hand side	linear
<b>Kernel</b>	<b>constant</b>
<b>Integration Method</b>	<b>retriangulate</b>
With caps	False
Quadrule outer	7
Quadrule inner	1
Singular quad degree	5
Delta	0.1
Ansatz	CG

### Rates

h	dof	L2 Error	Rates	Time [s]
1.00e-01	1.02e+02	1.75e-02	0.00e+00	3.15e-01
5.00e-02	4.88e+02	4.19e-03	2.07e+00	1.14e-01
2.50e-02	2.05e+03	9.79e-04	2.10e+00	1.36e+00
1.25e-02	8.23e+03	2.56e-04	1.94e+00	1.69e+01

### Setting

Right hand side	linear
<b>Kernel</b>	<b>constant</b>
<b>Integration Method</b>	<b>exactBall</b>
With caps	True
Quadrule outer	7
Quadrule inner	1
Singular quad degree	5
Delta	0.1
Ansatz	CG

### Rates

h	dof	L2 Error	Rates	Time [s]
1.00e-01	1.02e+02	1.91e-03	0.00e+00	4.24e-01
5.00e-02	4.88e+02	5.85e-04	1.71e+00	1.62e-01
2.50e-02	2.05e+03	1.35e-04	2.11e+00	1.68e+00
1.25e-02	8.23e+03	3.11e-05	2.12e+00	1.79e+01

### Setting

Right hand side	linear
<b>Kernel</b>	<b>constant</b>
<b>Integration Method</b>	<b>averageBall</b>
With caps	True
Quadrule outer	7
Quadrule inner	1
Singular quad degree	5
Delta	0.1
Ansatz	CG

### Rates

h	dof	L2 Error	Rates	Time [s]
1.00e-01	1.02e+02	1.12e-01	0.00e+00	3.25e-01
5.00e-02	4.88e+02	8.74e-02	3.53e-01	1.26e-01
2.50e-02	2.05e+03	5.24e-02	7.37e-01	9.62e-01
1.25e-02	8.23e+03	2.91e-02	8.50e-01	1.21e+01

### Setting

Right hand side	linear
<b>Kernel</b>	<b>constant</b>
<b>Integration Method</b>	<b>averageBall</b>
With caps	True
Quadrule outer	7
Quadrule inner	1
Singular quad degree	5
Delta	0.1
Ansatz	CG

### Rates

h	dof	L2 Error	Rates	Time [s]
1.00e-01	1.02e+02	1.12e-01	0.00e+00	3.94e-01
5.00e-02	4.88e+02	8.74e-02	3.53e-01	8.50e-02
2.50e-02	2.05e+03	5.24e-02	7.37e-01	8.54e-01
1.25e-02	8.23e+03	2.91e-02	8.50e-01	1.42e+01

### Setting

Right hand side	linear
<b>Kernel</b>	<b>constant</b>
<b>Integration Method</b>	<b>averageBall</b>
With caps	True
Quadrule outer	7
Quadrule inner	1
Singular quad degree	5
Delta	0.1
Ansatz	CG

### Rates

h	dof	L2 Error	Rates	Time [s]
1.00e-01	1.02e+02	1.12e-01	0.00e+00	3.66e-01
5.00e-02	4.88e+02	8.74e-02	3.53e-01	1.54e-01
2.50e-02	2.05e+03	5.24e-02	7.37e-01	9.37e-01
1.25e-02	8.23e+03	2.91e-02	8.50e-01	1.41e+01

### Setting

Right hand side	linear
<b>Kernel</b>	<b>constant</b>
<b>Integration Method</b>	<b>baryCenter</b>
With caps	True
Quadrule outer	7
Quadrule inner	1
Singular quad degree	5
Delta	0.1
Ansatz	CG

### Rates

h	dof	L2 Error	Rates	Time [s]
1.00e-01	1.02e+02	2.35e-02	0.00e+00	3.39e-01
5.00e-02	4.88e+02	4.46e-03	2.39e+00	1.36e-01
2.50e-02	2.05e+03	1.78e-03	1.33e+00	8.23e-01
1.25e-02	8.23e+03	3.59e-04	2.31e+00	1.39e+01

### Setting

Right hand side	linear
<b>Kernel</b>	<b>constant</b>
<b>Integration Method</b>	<b>baryCenterRT</b>
With caps	False
Quadrule outer	7
Quadrule inner	1
Singular quad degree	5
Delta	0.1
Ansatz	CG

### Rates

h	dof	L2 Error	Rates	Time [s]
1.00e-01	1.02e+02	7.85e-03	0.00e+00	4.01e-01
5.00e-02	4.88e+02	1.69e-03	2.21e+00	9.82e-02
2.50e-02	2.05e+03	4.21e-04	2.01e+00	8.37e-01
1.25e-02	8.23e+03	1.23e-04	1.77e+00	1.09e+01



### Setting

Right hand side	linear
<b>Kernel</b>	<b>constant</b>
<b>Integration Method</b>	<b>baryCenterRT</b>
With caps	True
Quadrule outer	7
Quadrule inner	1
Singular quad degree	5
Delta	0.1
Ansatz	CG

### Rates

h	dof	L2 Error	Rates	Time [s]
1.00e-01	1.02e+02	1.90e-02	0.00e+00	3.41e-01
5.00e-02	4.88e+02	4.56e-03	2.06e+00	9.94e-02
2.50e-02	2.05e+03	1.23e-03	1.89e+00	1.07e+00
1.25e-02	8.23e+03	3.22e-04	1.93e+00	1.42e+01