Benchmarking

E.T.

The election tool projekt

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Team „Performance Issues"

Set Up

- Framework: Visual Studio Loadtest Tool
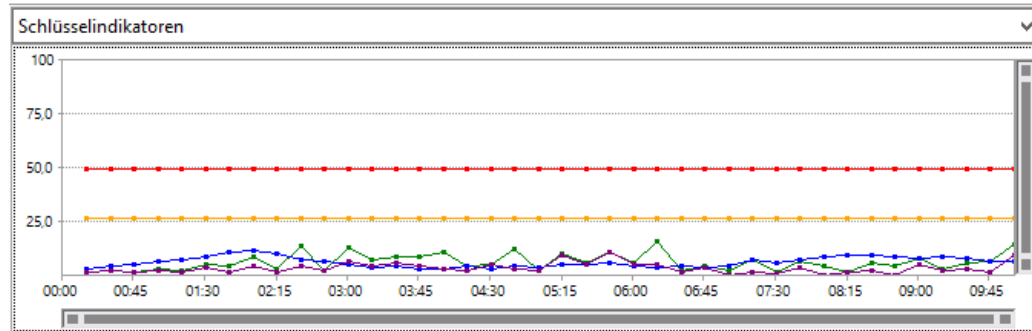
- Parameter:

  $n_1 = 50$ $n_2 = 100$
  $t_1 = 5s$ $t_2 = \mathbf{15}s$

- Presented in this talk:

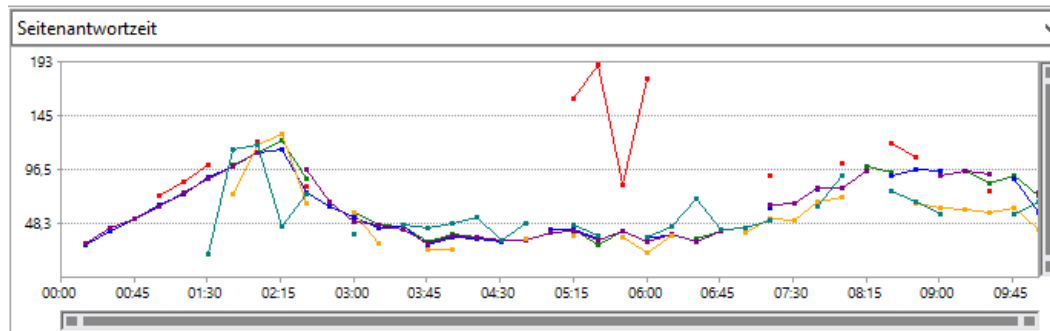 $n_1 \ x \ t_2$ $n_2 \ x \ t_1$

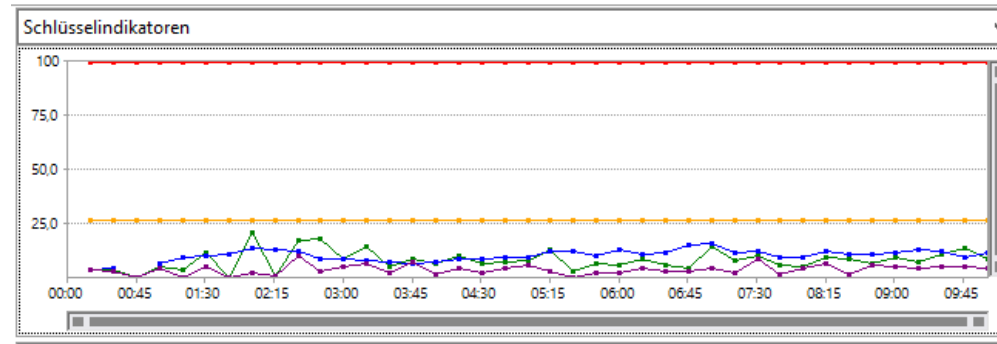- „pseudo-Exception": http-Timeout simulating annoyed users
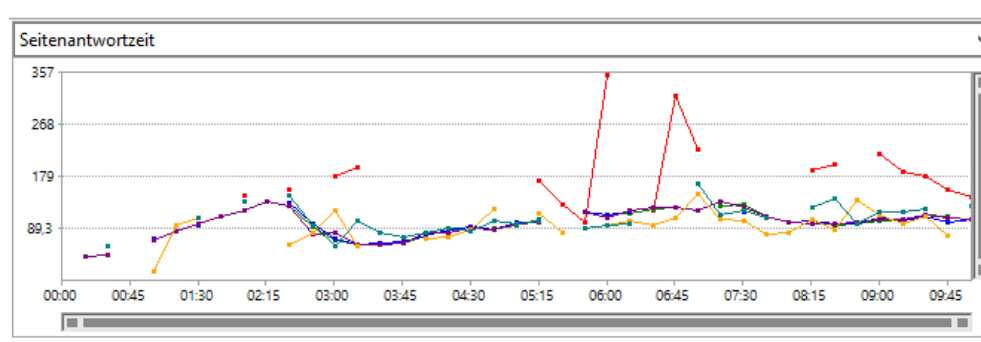
50 User, 15 seconds

Average Page Time
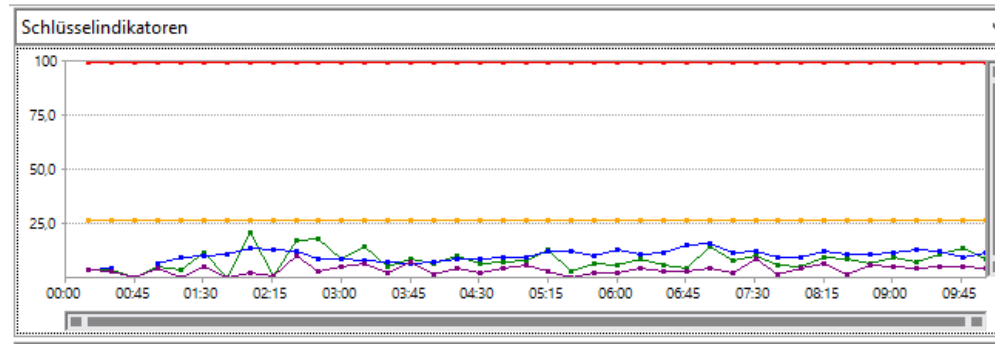Pages per Second
Faults

Double amount of users, one third of waiting time
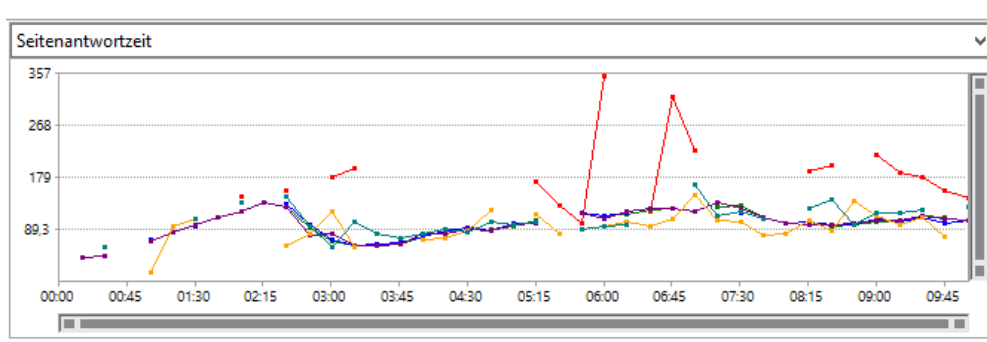

Average Page Time
Pages per Second
Faults

Double amount of users, one third of waiting time
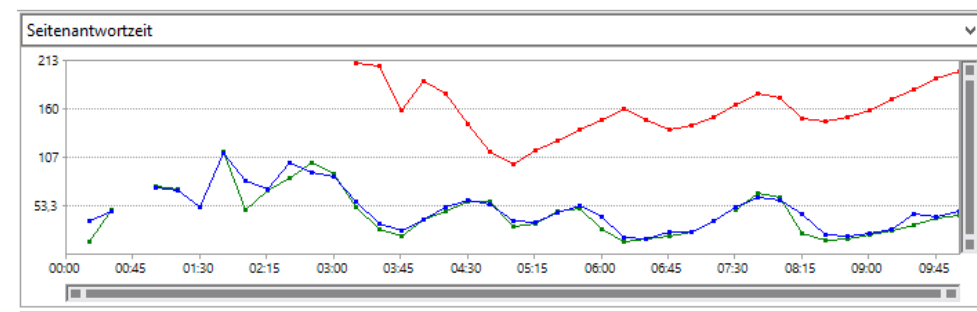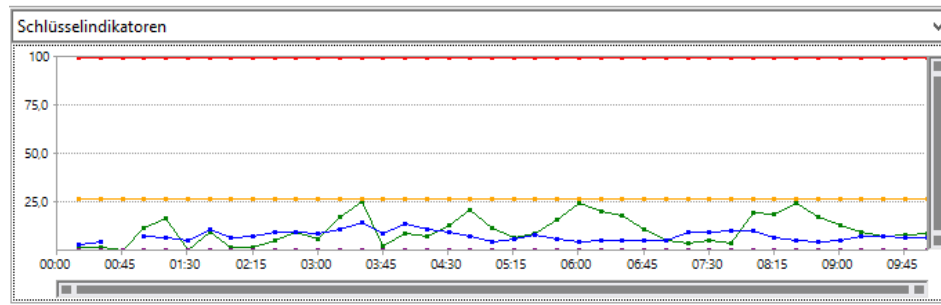

Average Page Time
Pages per Second
Faults

Test	Szenario	Gesamt	Erfolgreich	Fehler
ClosestWinner	100u5s	110	105	5,00
MemberBundestag	100u5s	53,0	0	53,0
SeatsBundestag	100u5s	131	0	131
Ueberhangmandate	100u5s	45,0	0	45,0
Wahlkreis	100u5s	117	109	8,00
Winner	100u5s	49,0	49,0	0

„Timeout-Exceptions"

Only three queries: 100 users, 5 seconds

Test	Szenario	Gesamt	Erfolgreich	Fehler
ClosestWinner	100u5s	252	252	0
Wahlkreis	100u5s	222	222	0
Winner	100u5s	174	174	0

Lessons learnt:

- Though optimization was applied, queries using the complete distribution of seats in parliament are still too slow. This has negative effects on the performance of the other queries, too.

- Not in this presentation:
many threshold warning in the Loadtest-Tools indicate hardware hardware inefficiency.

Continuing optimizing….