

Simulation von Warteschlangen

Prof. Dr. Dörte Haftendorn 28.4.08 MuPAD 4 Update vom 28. April 08

<http://haftendorn.uni-lueneburg.de>

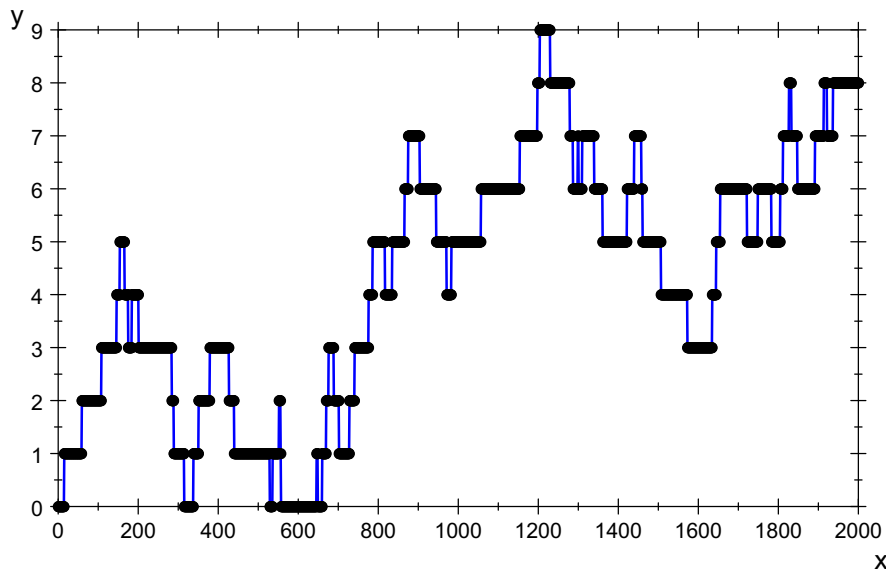
www.mathematik-verstehen.de

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Die Simulation der Warteschlange vom Typ M/M/1/infinity wird beim Starten dieser Datei definiert. Zu sehen bei Datei-> Eigenschaften.

Aufruf `simu(Lambda, My, delta t, Anzahl)`

```
liroh:=simu(3/15,4/15,0.1,2000):  
liroh:=plot::Listplot(liroh): plot(liroh):  
mittlereLaenge:=float(_plus(liroh[i][2] $  
i=1..2000)/2000);
```



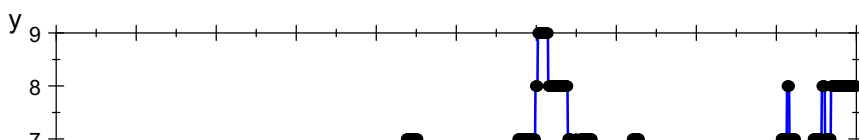
4.251

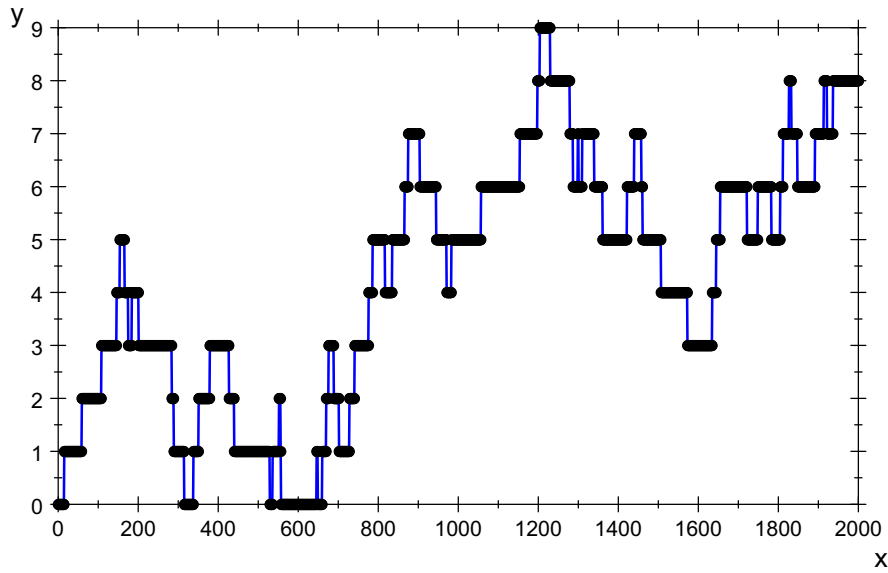
Aufheben der guten Beispiele

```
liste:=array(1..20):mittelLang:=array(1..20):  
liste[8]:=liroh:  
mittelLang[8]:=mittlereLaenge:
```

```
mittelLang[4];  
plot(plot::Listplot(liste[4]));  
mittelLang[8];  
plot(plot::Listplot(liste[8]));
```

4.251



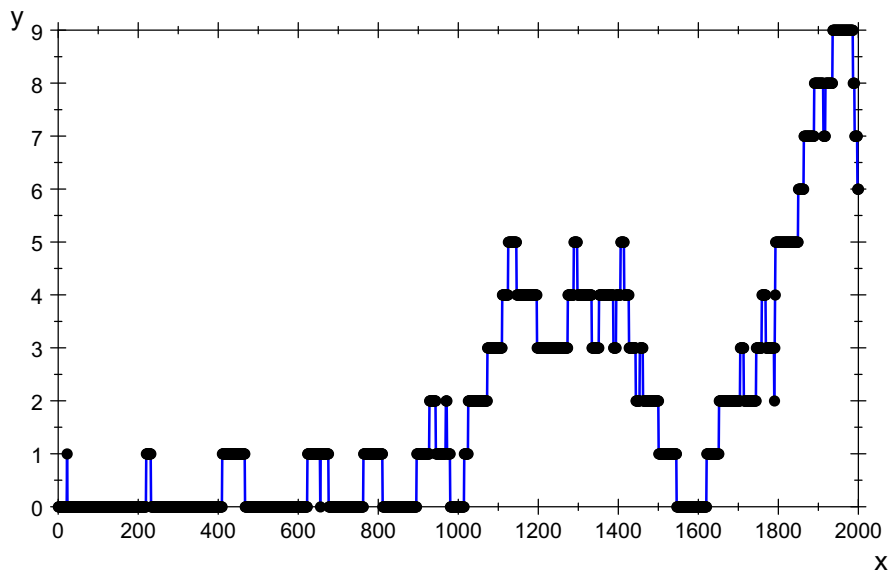


```

mittelLang[7];
plot(plot::Listplot(liste[7]));

```

1.8795

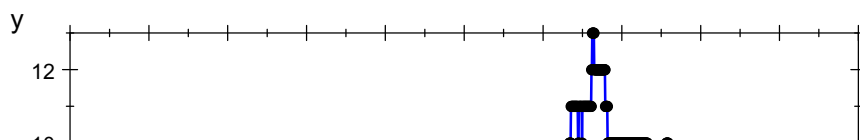


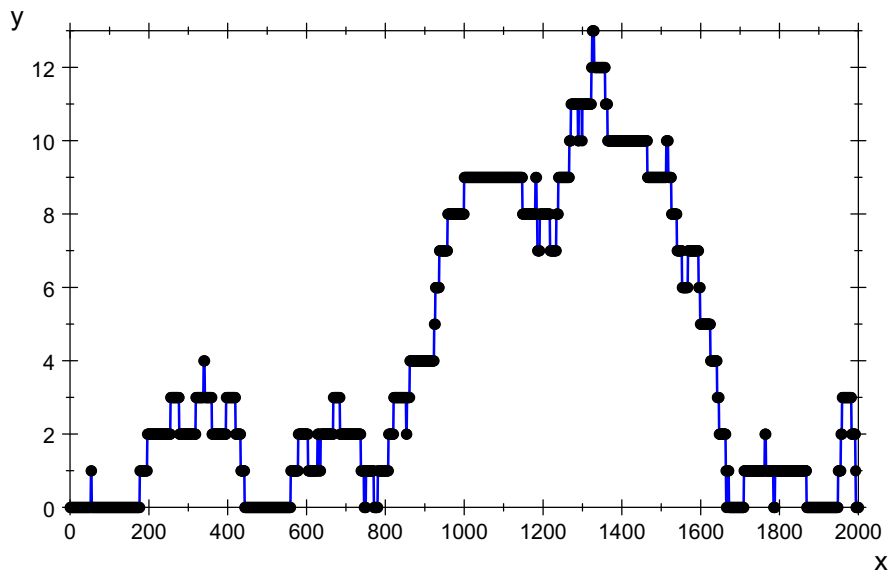
```

mittelLang[6];
plot(plot::Listplot(liste[6]));

```

3.9545



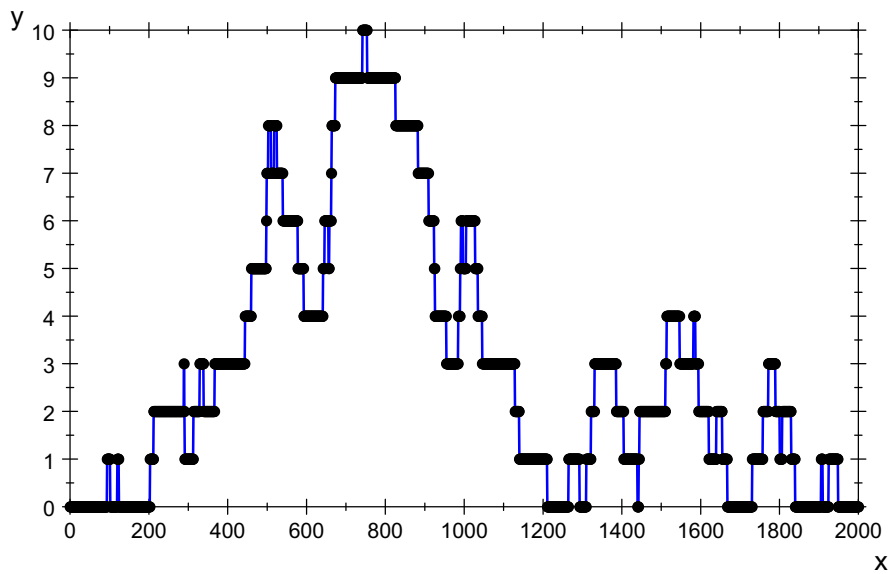


```

mittelLang[5];
plot(plot::Listplot(liste[5]));

```

2.929



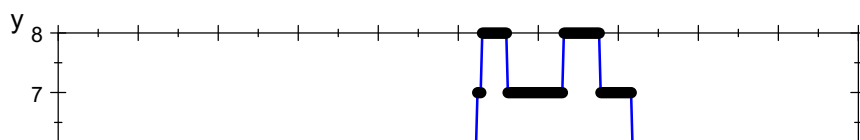
nun 2000 Schritte

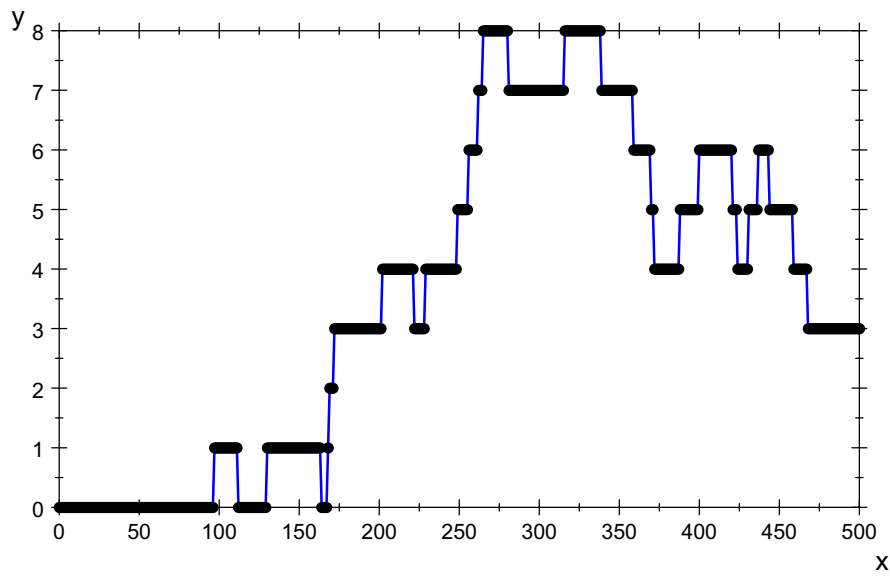
```

mittelLang[4];
plot(plot::Listplot(liste[4]));

```

3.528



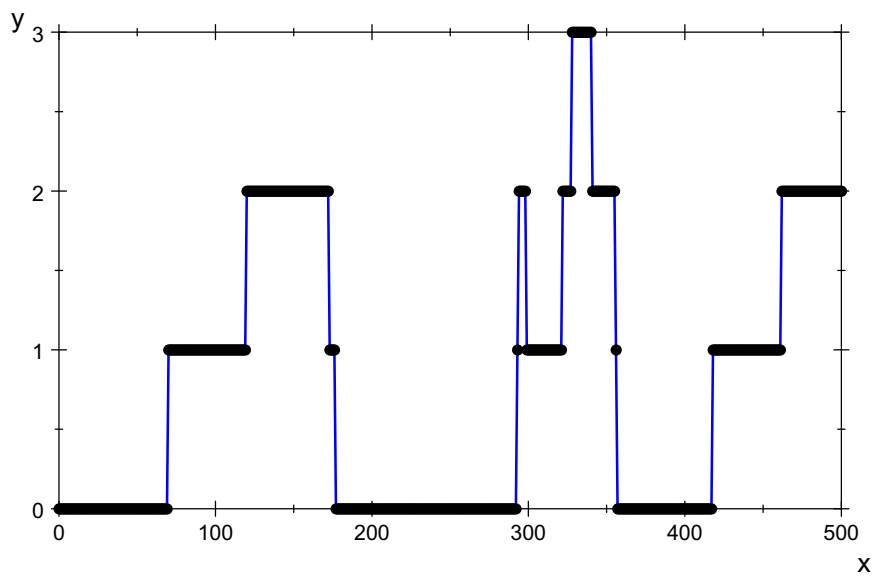


```

mittelLang[3];
plot(plot::Listplot(liste[3]));

```

0.792

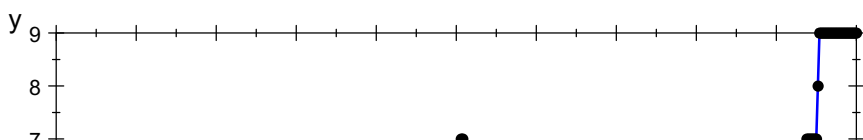


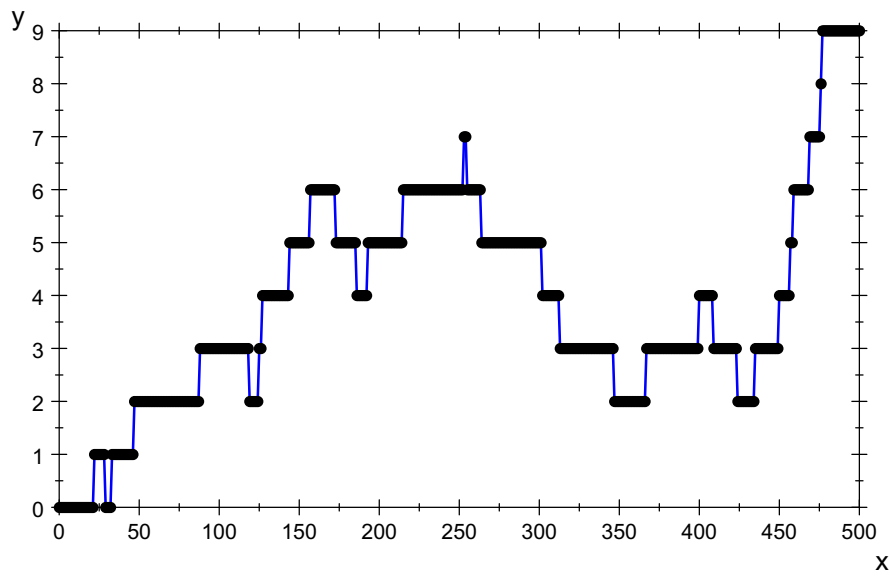
```

//liste[2]:
mittelLang[2];
plot(plot::Listplot(liste[2]));

```

3.854





```
//liste[1]:
mittelLang[1];
plot(plot::Listplot(liste[1]));
```

0.98

