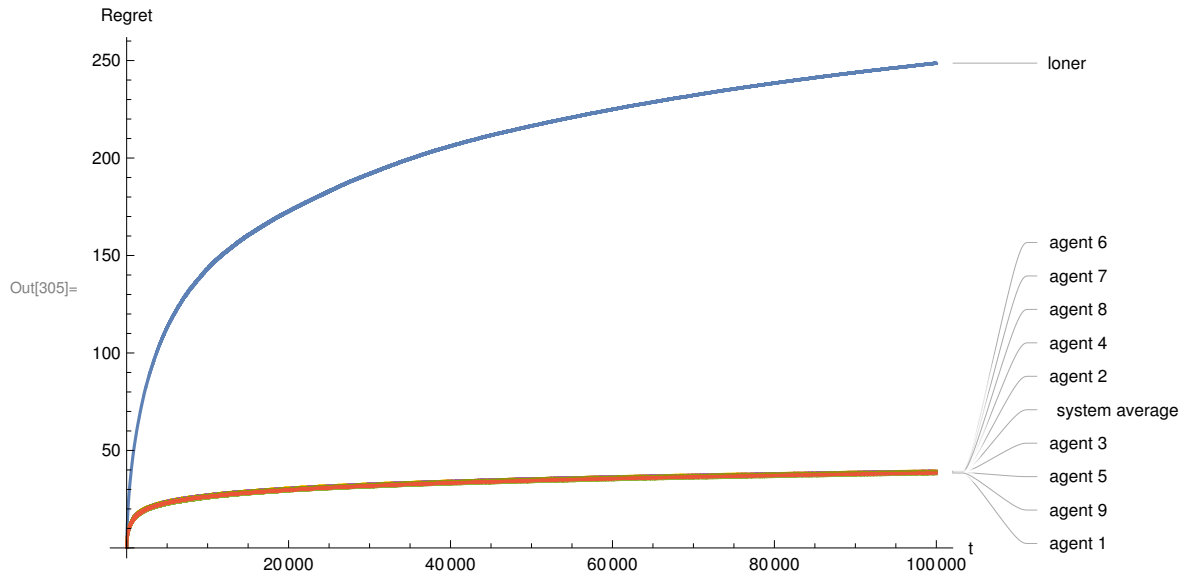


In[296]:= (\*シミュレーション結果を可視化する\*)

```
AppendTo[$Path,  
 追加割当て  検索ディレクトリのデフォルトリスト  
  "/home/motchy/Dropbox/home/individual/motchy/data/hobby/computer/programming/  
  languages/Mathematica/lib/");  
Import["motchyMath`"]  
インポート  
filePath = SystemDialogInput["FileOpen", ".json"]  
色選択ダイアログで選ばれた色を返す  
json = Import[filePath, "RawJSON"];  
インポート  
Nagent = json["N"];  
数値  
T = json["T"];  
Print[  
  出力表示  
  "environment = ", json["environment name"], "\n",  
  "prior name = ", json["prior name"], "\n",  
  "graph name = ", json["graph name"], "\n",  
  "K : ", json["K"], "\n",  
  "N : ", Nagent, "\n",  
  数値  
  "T : ", json["T"], "\n",  
  "rep : ", json["repetition number"]  
]  
list = {Labeled[json["regret"] ["loner"], "loner"],  
  ラベル付き  
  Labeled[json["regret"] ["system average"], "system average"]};  
  ラベル付き  
For[i = 1, i ≤ Nagent, ++i, AppendTo[list,  
  繰返し評価  追加割当て  
  Labeled[json["regret"] [ToString[i]], "agent " <> ToString[i]]]  
  ラベル付き  文字列にする  文字列にする  
ListLinePlot[list, PlotRange → All, AxesLabel → {"t", "Regret"}, ImageSize → Large]  
折れ線グラフ(点を繋いで…  プロット範囲  すべて  軸のラベル  画像サイズ  大きい  
Print["R(sysAvg,T) = ", json["regret"] ["system average"] [[T]],  
  出力表示  
  ", R(loner,T) = ", json["regret"] ["loner"] [[T]]  
Print["R(sysAvg,T)/R(loner,T) = ",  
  出力表示  
  json["regret"] ["system average"] [[T]] / json["regret"] ["loner"] [[T]]]
```

Out[298]:= /home/motchy/Dropbox/home/individual/motchy/data/univ/lab/open/B4/research/  
graduation-thesis/github/Workspace/Distributed-Thompson-sampling/simulation/  
algorithms/Type1/results/octopus\_uniform-prior\_T100k.json

```
environment = env1  
prior name = prior1  
graph name = octopus  
K : 10  
N : 9  
T : 100 000  
rep : 100
```



$R(\text{sysAvg}, T) = 38.8707$ ,  $R(\text{loner}, T) = 248.661$

$R(\text{sysAvg}, T) / R(\text{loner}, T) = 0.15632$