1)Comparison

For Decompose Dish, there are 2 versions:

1)Decompose Multiple Restaurants(serving dish k) and then Decide to accept or not.
2)Decide to accept/reject(annealed) for each restaurant and merge the tables left in dish k.

Set Up:
1)5 by 5 words,10 real bars
2)40 Restaurants,each has 50 customers.
3)Annealing Scheme: Five Temperature $T \in [0.2, 0.4, 0.6, 0.8, 1]^{(0.5)}$
4)Using annealed Accept/Reject: $L^{'}$=T*t-term+k-term

Figures on the next page:(left)Scheme 1,(right)Scheme 2,

In General, the config on the right(Scheme2) is better than that on the left(Scheme1).
Figure 3 shows the best config
Scheme2 is even better than the approximated ground truth with 10 bars

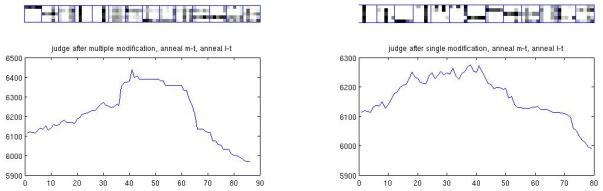

Figure 1: Annealed Merge-table and Annealed Local-table

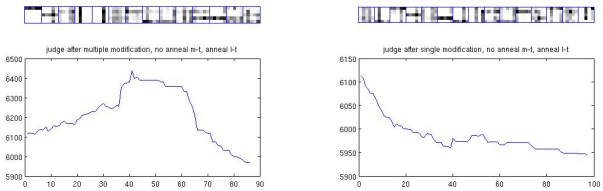

Figure 2: Not Annealed Merge-table and Annealed Local-table

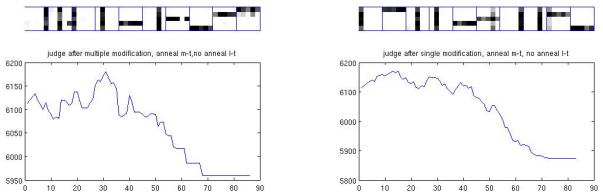

Figure 3: **Annealed Merge-table and Not Annealed Local-table**

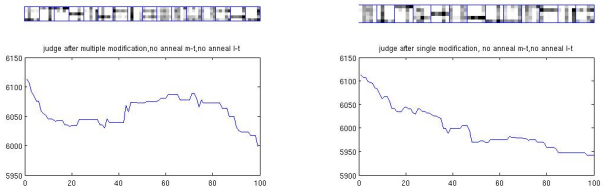

Figure 4: Not Annealed Merge-table and Not Annealed Local-table