**iBTune**: Individualized Buffer Tuning for Largescale Cloud Databases

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**SDDP**: Self-Driving Database Platform

Memory is bottleneck among the resources.

Manual tuning is not scalable for large cloud databases since each instance has different BP size.

1. Buffer Pool 188G
2. 80G

F1(tolerate miss ratio)

New BP size

Apply new BP size

DB instance

F2(tolerate miss ratio)

Response time

Safe Response time (SLA)

Pairwise DNN: Predict the RT

Instance 1

CPU usage of left sample

QPS of left sample

Instance 2

CPU usage of right sample

QPS of right sample

**Algorithm**

**Alg**

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