

# Huawei query workload

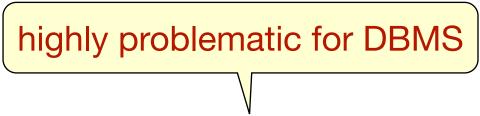
### **Effectiveness of Bounded Evaluation**

Query Type	Query Number	Original Complexity	Accelerate Ratio
Bounded query without join	2	Low	Medium
Simple aggregate query without join	2	Low	Medium
Join on key attributes	4	Medium	Low
Join on non-key attributes	3	High	High
Unbounded Query	2	-	-

## Performance comparison with DBMS

	Bounded non-join	Aggregate non-join	Join on Key	Join on non-key
Query count:	2	2	4	2
PostgreSQL:	$1.58  \sec$	$7.53  \sec$	$629.96  \sec$	> 3  hours
BEAS:	$0.01~{ m sec}$	$0.02  \sec$	$15.14  \sec$	$0.04~{ m sec}$
Accelerate ratio:	158	376.5	41.61	$> 10^5$

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## Bounded evaluation is effective for bounded queries

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Huawei query workload

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Performance comparison with DBMS

highly problematic for DBMS

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