

# **PolePosition**

the open source database benchmark

<http://www.polepos.org>

## **Participating teams**

### **AV5TOB**

Ableverse 5 - The Object Base

<http://tob.ableverse.org>

### **db4o**

the open source object database for Java and .NET

<http://www.db4o.com>

### **Hibernate**

relational persistence for idiomatic Java

<http://www.hibernate.org>

### **MySQL**

the world's most popular open source database

<http://www.mysql.com>

### **HSQldb**

lightweight 100% Java SQL database engine

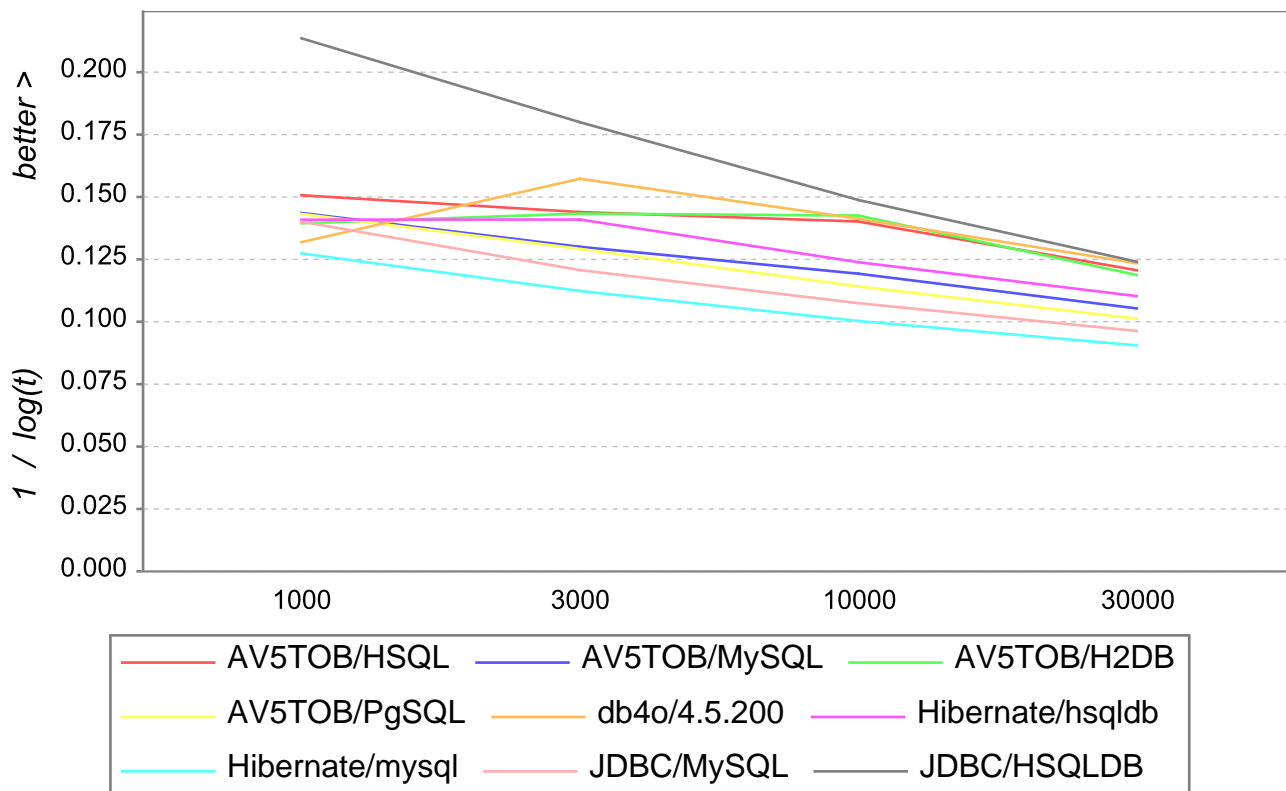
<http://hsqldb.sourceforge.net/>

**Circuit: Barcelona**

writes, reads, queries and deletes objects with a 5 level inheritance structure

Lap: write

t [time in ms]	selects:100 objects:1000	selects:100 objects:3000	selects:100 objects:10000	selects:100 objects:30000
AV5TOB/HSQL	762	1039	1254	3979
AV5TOB/MySQL	1058	2188	4379	13253
AV5TOB/H2DB	1300	1071	1113	4541
AV5TOB/PgSQL	1079	2297	6379	19526
db4o/4.5.200	1961	577	1186	3297
Hibernate/hsqldb	1208	1205	3206	8671
Hibernate/mysql	2565	7336	21330	62535
JDBC/MySQL	1259	3961	11001	32266
JDBC/HSQLDB	108	259	830	3166

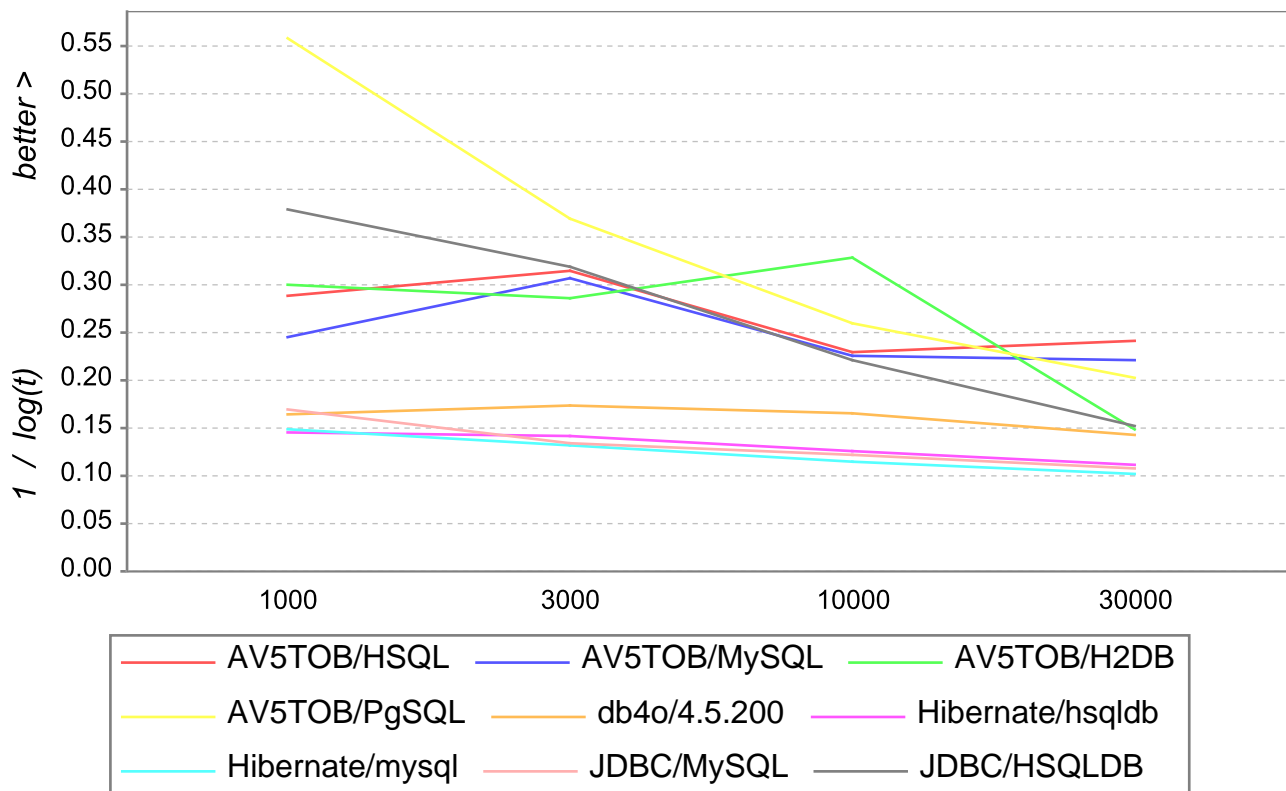


**Circuit: Barcelona**

writes, reads, queries and deletes objects with a 5 level inheritance structure

Lap: read

t [time in ms]	selects:100 objects:1000	selects:100 objects:3000	selects:100 objects:10000	selects:100 objects:30000
AV5TOB/HSQL	32	24	78	63
AV5TOB/MySQL	59	26	84	92
AV5TOB/H2DB	28	33	21	834
AV5TOB/PgSQL	6	15	47	139
db4o/4.5.200	439	317	421	1097
Hibernate/hsqldb	967	1160	2813	7822
Hibernate/mysql	830	1959	6055	18124
JDBC/MySQL	365	1728	3632	10709
JDBC/HSQldb	14	23	92	712

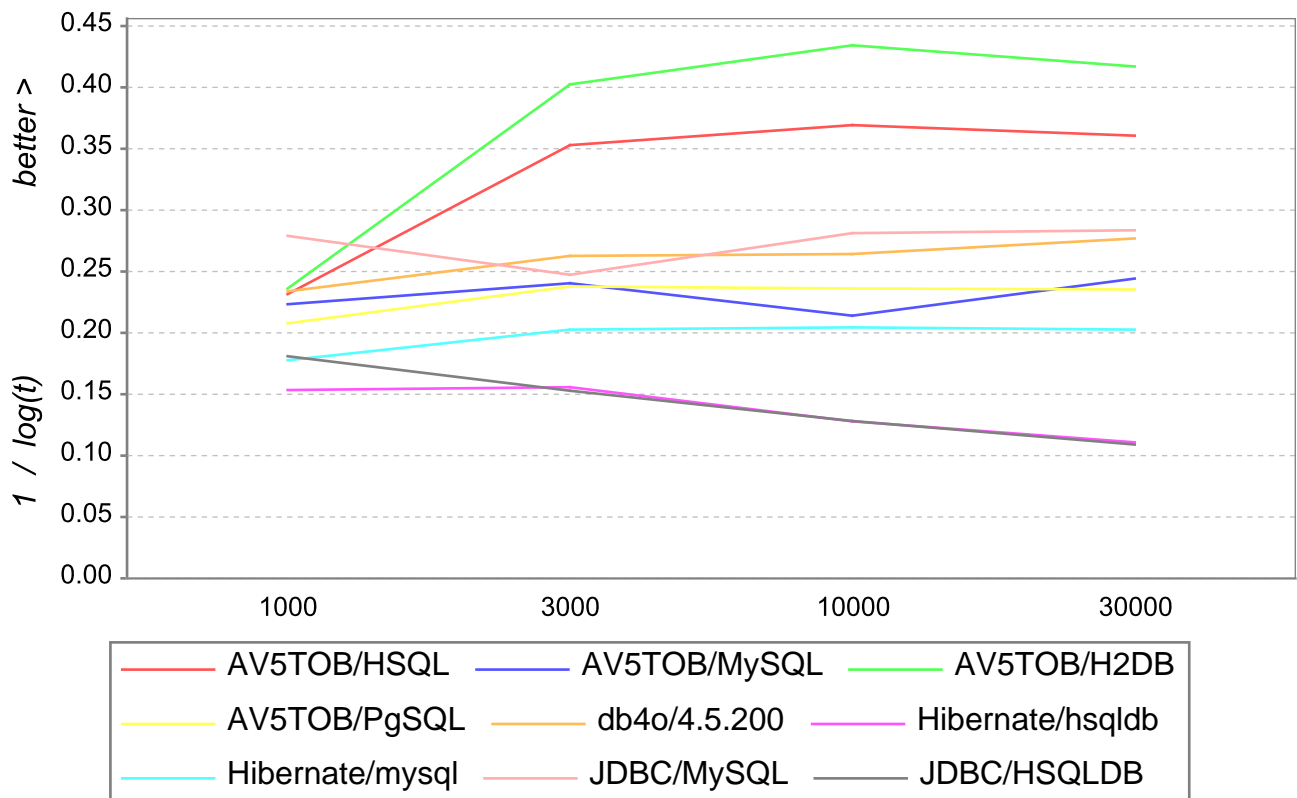


## Circuit: Barcelona

writes, reads, queries and deletes objects with a 5 level inheritance structure

Lap: query

t [time in ms]	selects:100 objects:1000	selects:100 objects:3000	selects:100 objects:10000	selects:100 objects:30000
AV5TOB/HSQL	75	17	15	16
AV5TOB/MySQL	88	64	107	60
AV5TOB/H2DB	69	12	10	11
AV5TOB/PgSQL	123	67	69	70
db4o/4.5.200	72	45	44	37
Hibernate/hsqldb	677	614	2487	8304
Hibernate/mysql	278	139	133	139
JDBC/MySQL	36	57	35	34
JDBC/HSQLDB	251	693	2442	9621



**Circuit: Barcelona**

writes, reads, queries and deletes objects with a 5 level inheritance structure

**Lap: delete**

t [time in ms]	selects:100 objects:1000	selects:100 objects:3000	selects:100 objects:10000	selects:100 objects:30000
<b>AV5TOB/HSQL</b>	348	537	821	3097
<b>AV5TOB/MySQL</b>	437	1077	3401	10713
<b>AV5TOB/H2DB</b>	558	734	975	5080
<b>AV5TOB/PgSQL</b>	915	2227	7472	23054
<b>db4o/4.5.200</b>	938	784	2170	5909
<b>Hibernate/hsqldb</b>	1224	1702	4850	14624
<b>Hibernate/mysql</b>	3197	8811	28352	85601
<b>JDBC/MySQL</b>	1279	4901	11885	35295
<b>JDBC/HSQLDB</b>	102	259	881	2707

