

PolePosition

the open source database benchmark

<http://www.polepos.org>

Participating teams

JalistoPlus

Java Object Database

<http://jalistoplus.sourceforge.net>

db4o

the open source object database for Java and .NET

<http://www.db4o.com>

Hibernate

relational persistence for idiomatic Java

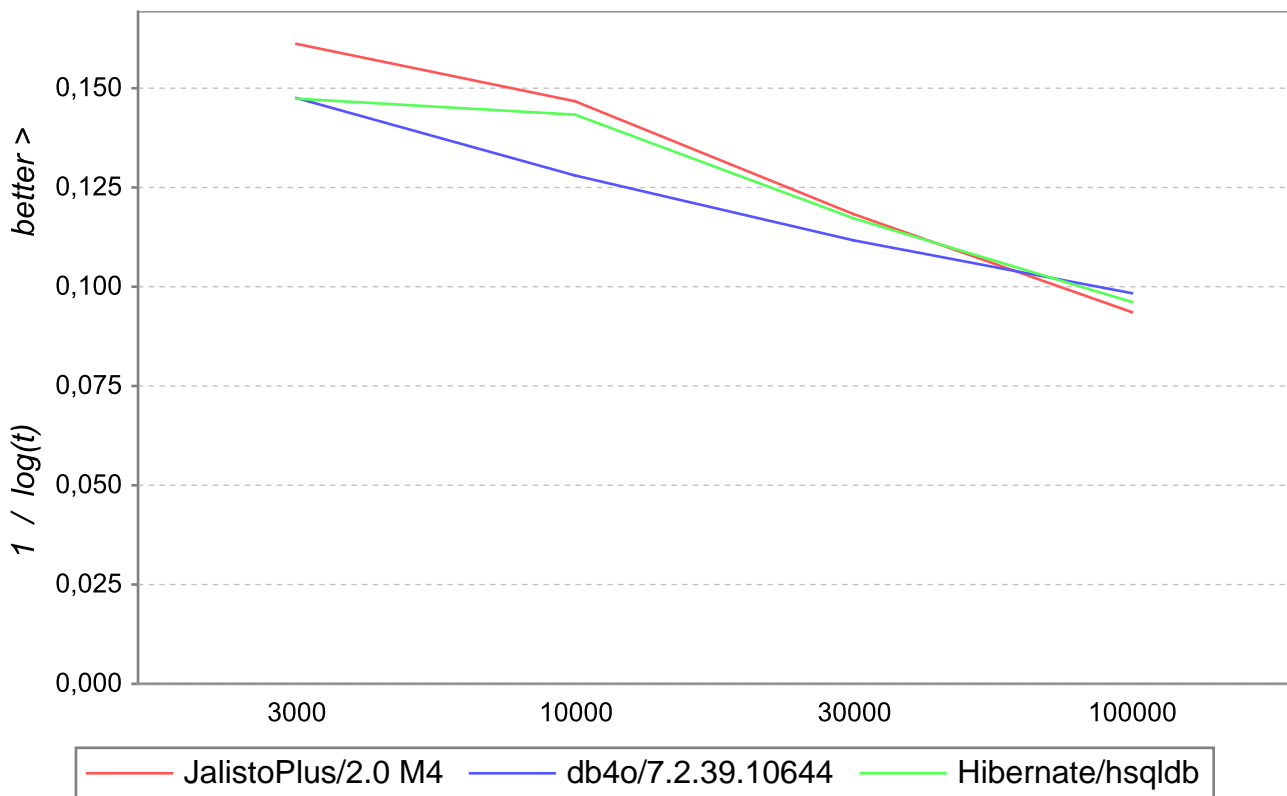
<http://www.hibernate.org>

Circuit: Melbourne

writes, reads and deletes unstructured flat objects of one kind in bulk mode

Lap: write

t [time in ms]	objects:3000	objects:10000	objects:30000	objects:100000
JalistoPlus/2.0 M4	495	912	4687	43627
db4o/7.2.39.10644	879	2467	7732	25960
Hibernate/hsqldb	885	1071	5056	32834

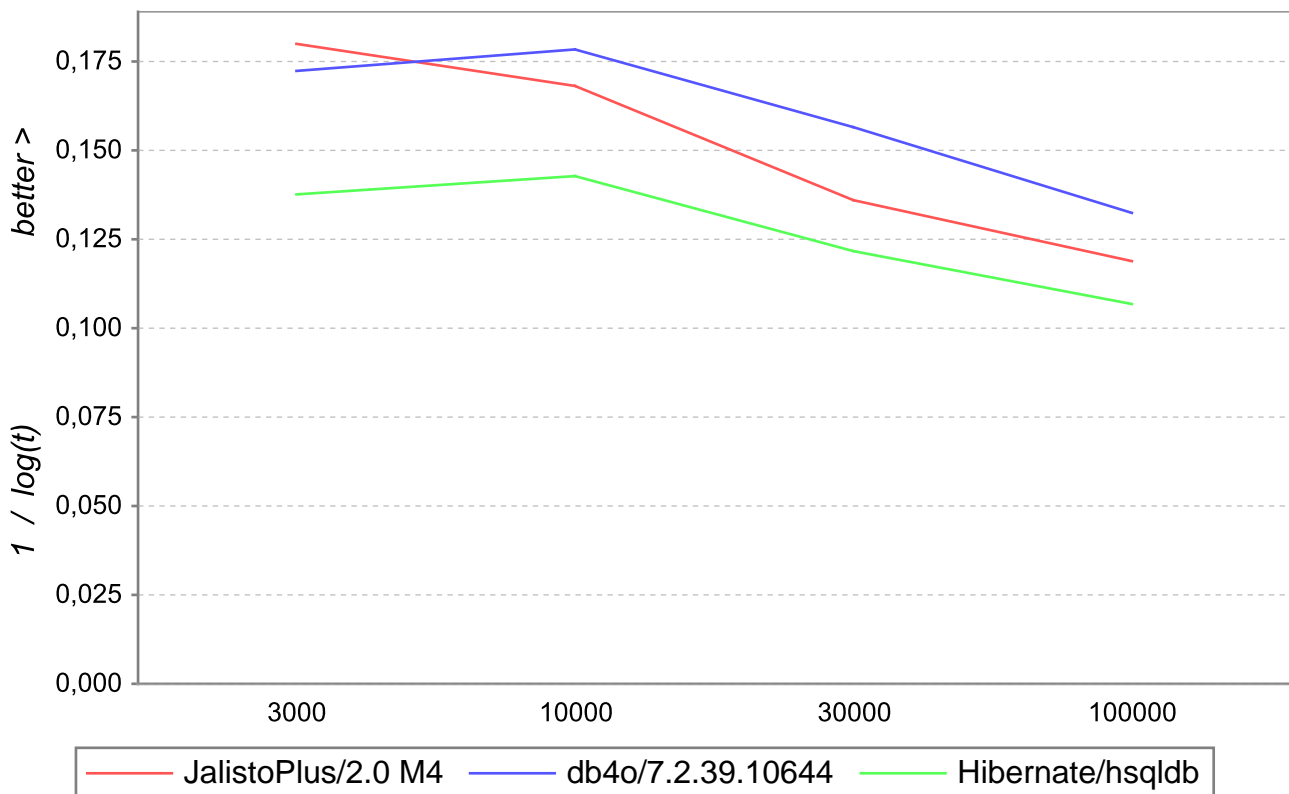


Circuit: Melbourne

writes, reads and deletes unstructured flat objects of one kind in bulk mode

Lap: read

t [time in ms]	objects:3000	objects:10000	objects:30000	objects:100000
JalistoPlus/2.0 M4	259	383	1561	4507
db4o/7.2.39.10644	331	272	595	1904
Hibernate/hsqldb	1431	1101	3711	11653

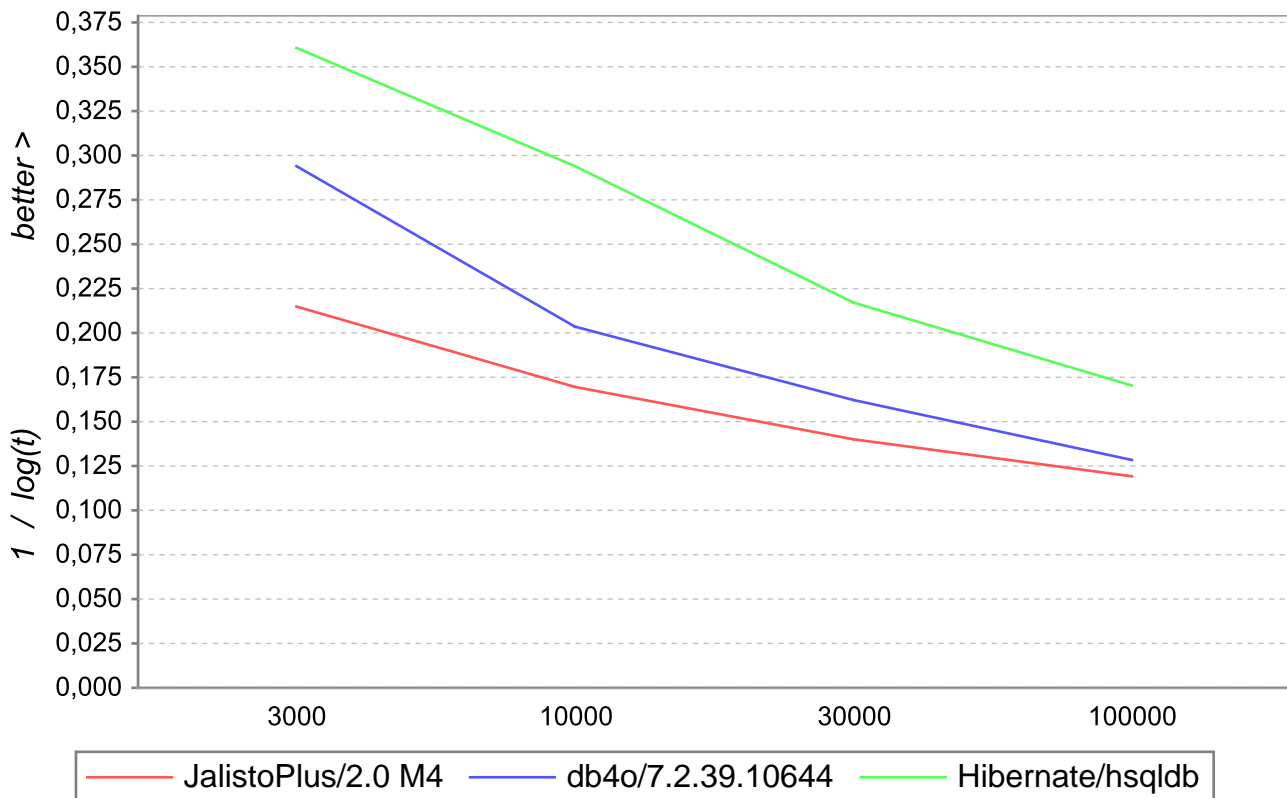


Circuit: Melbourne

writes, reads and deletes unstructured flat objects of one kind in bulk mode

Lap: read_hot

t [time in ms]	objects:3000	objects:10000	objects:30000	objects:100000
JalistoPlus/2.0 M4	105	364	1261	4395
db4o/7.2.39.10644	30	136	476	2411
Hibernate/hsqldb	16	30	100	354

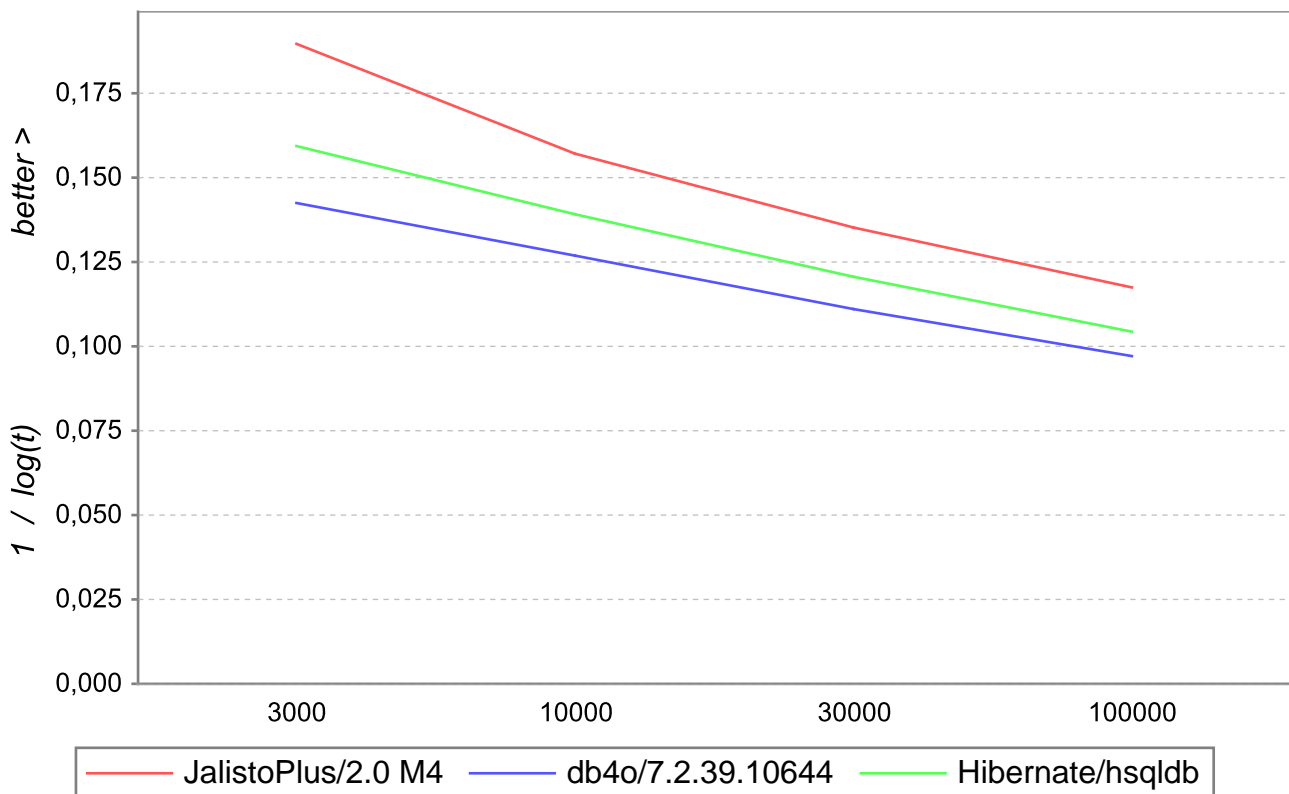


Circuit: Melbourne

writes, reads and deletes unstructured flat objects of one kind in bulk mode

Lap: delete

t [time in ms]	objects:3000	objects:10000	objects:30000	objects:100000
JalistoPlus/2.0 M4	195	581	1629	4980
db4o/7.2.39.10644	1117	2646	8144	29655
Hibernate/hsqldb	531	1321	3983	14523

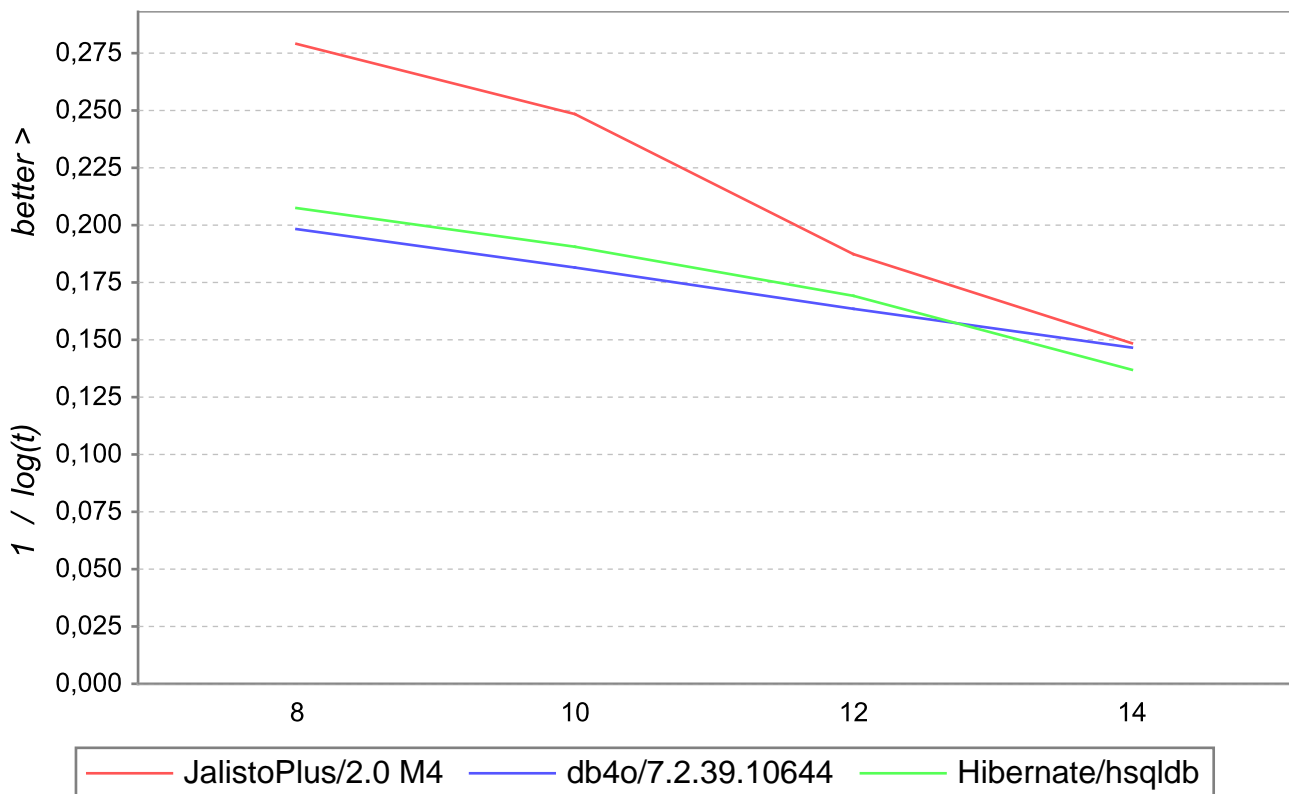


Circuit: Sepang

writes, reads and then deletes an object tree

Lap: write

t [time in ms]	depth:8	depth:10	depth:12	depth:14
JalistoPlus/2.0 M4	36	56	208	840
db4o/7.2.39.10644	155	247	453	917
Hibernate/hsqldb	124	190	369	1484

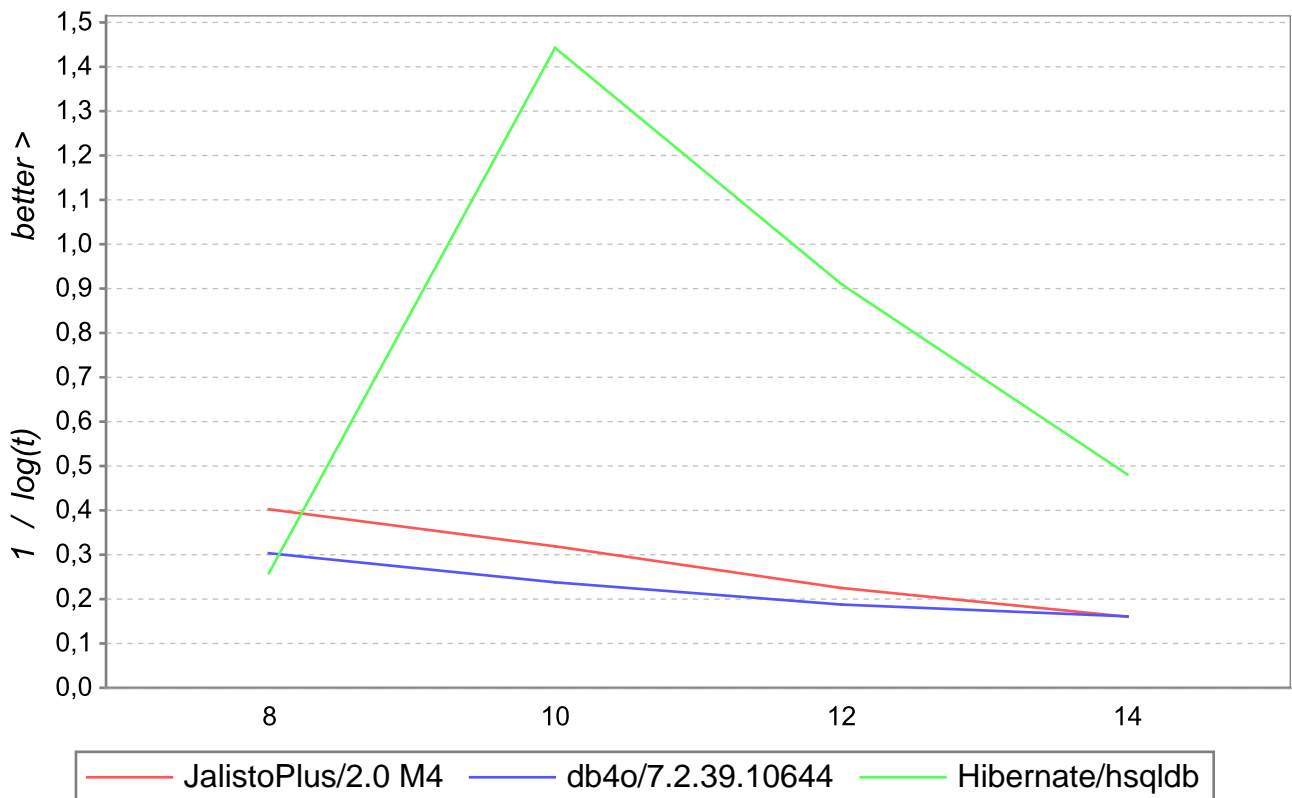


Circuit: Sepang

writes, reads and then deletes an object tree

Lap: read

t [time in ms]	depth:8	depth:10	depth:12	depth:14
JalistoPlus/2.0 M4	12	23	85	514
db4o/7.2.39.10644	27	67	206	498
Hibernate/hsqldb	48	2	3	8

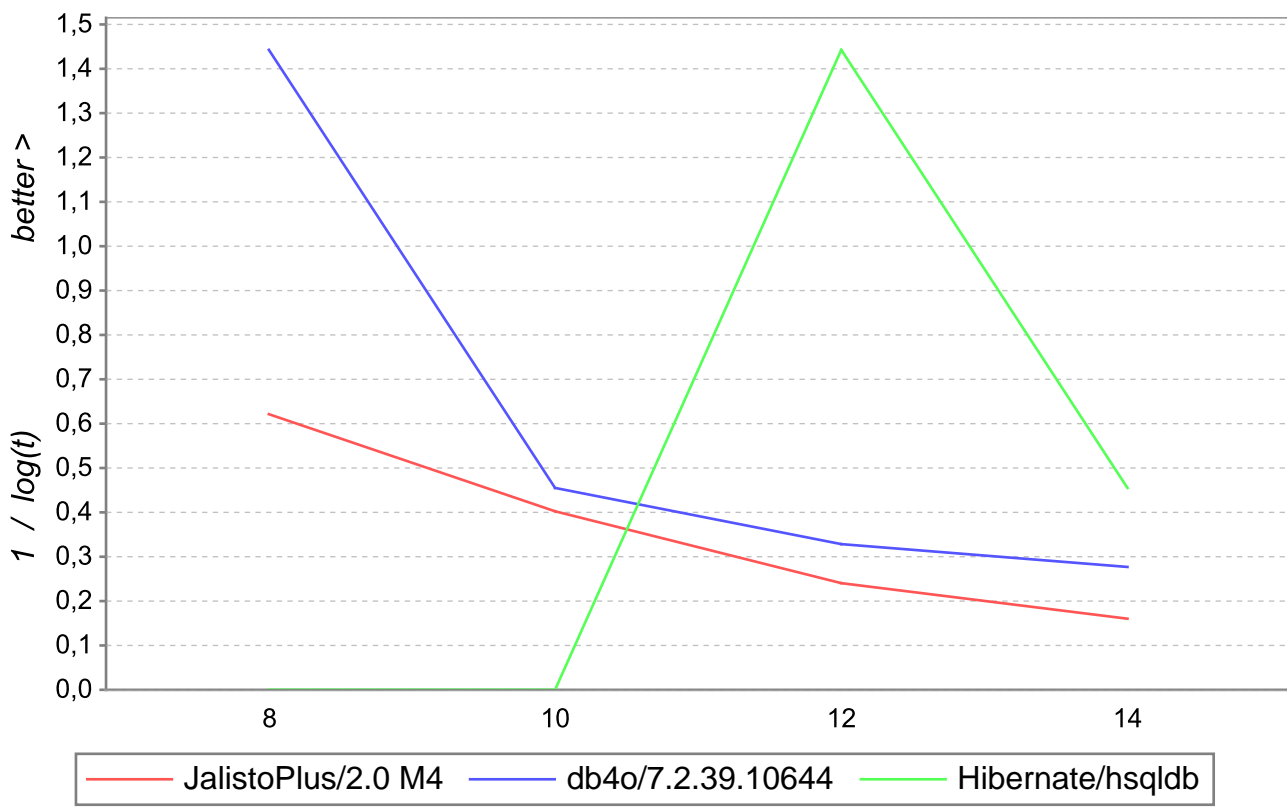


Circuit: Sepang

writes, reads and then deletes an object tree

Lap: read_hot

t [time in ms]	depth:8	depth:10	depth:12	depth:14
JalistoPlus/2.0 M4	5	12	64	512
db4o/7.2.39.10644	2	9	21	37
Hibernate/hsqldb	1	0	2	9

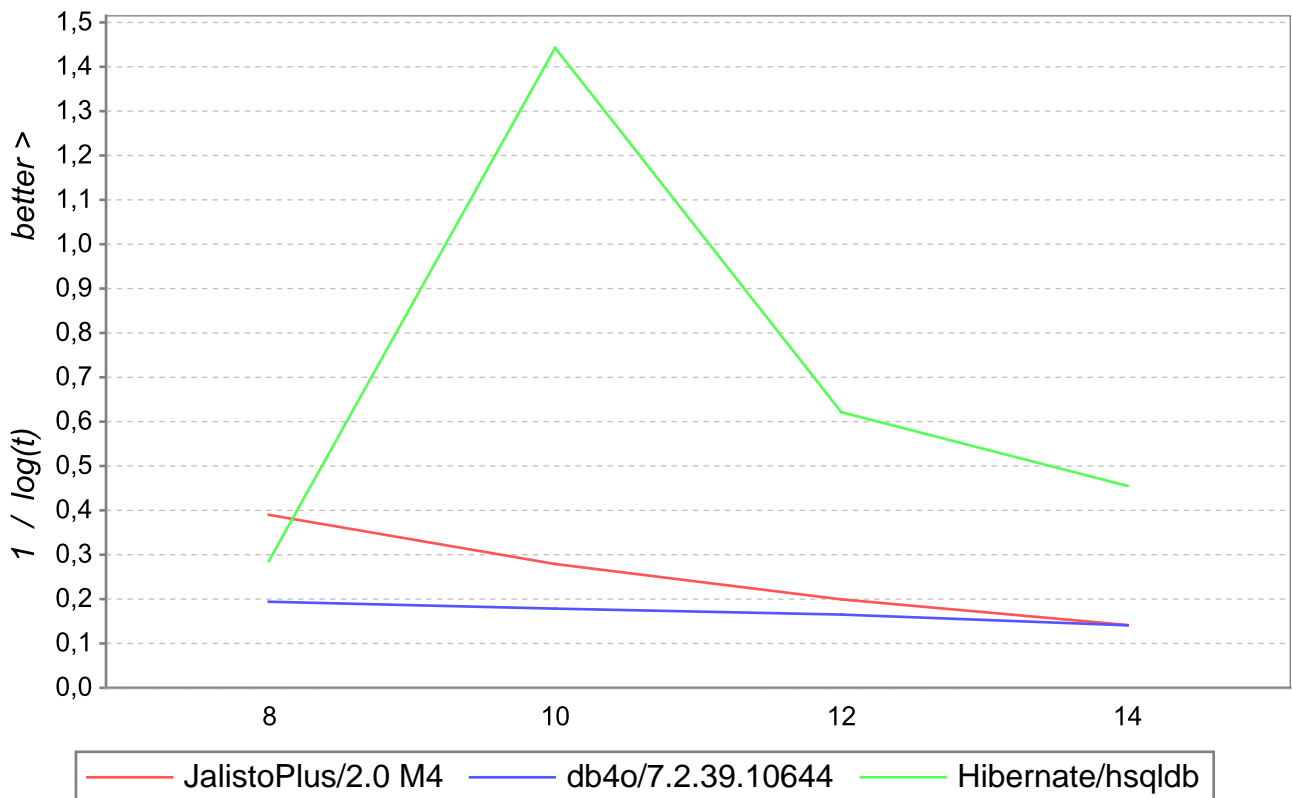


Circuit: Sepang

writes, reads and then deletes an object tree

Lap: delete

t [time in ms]	depth:8	depth:10	depth:12	depth:14
JalistoPlus/2.0 M4	13	36	151	1176
db4o/7.2.39.10644	173	271	427	1211
Hibernate/hsqldb	33	2	5	9

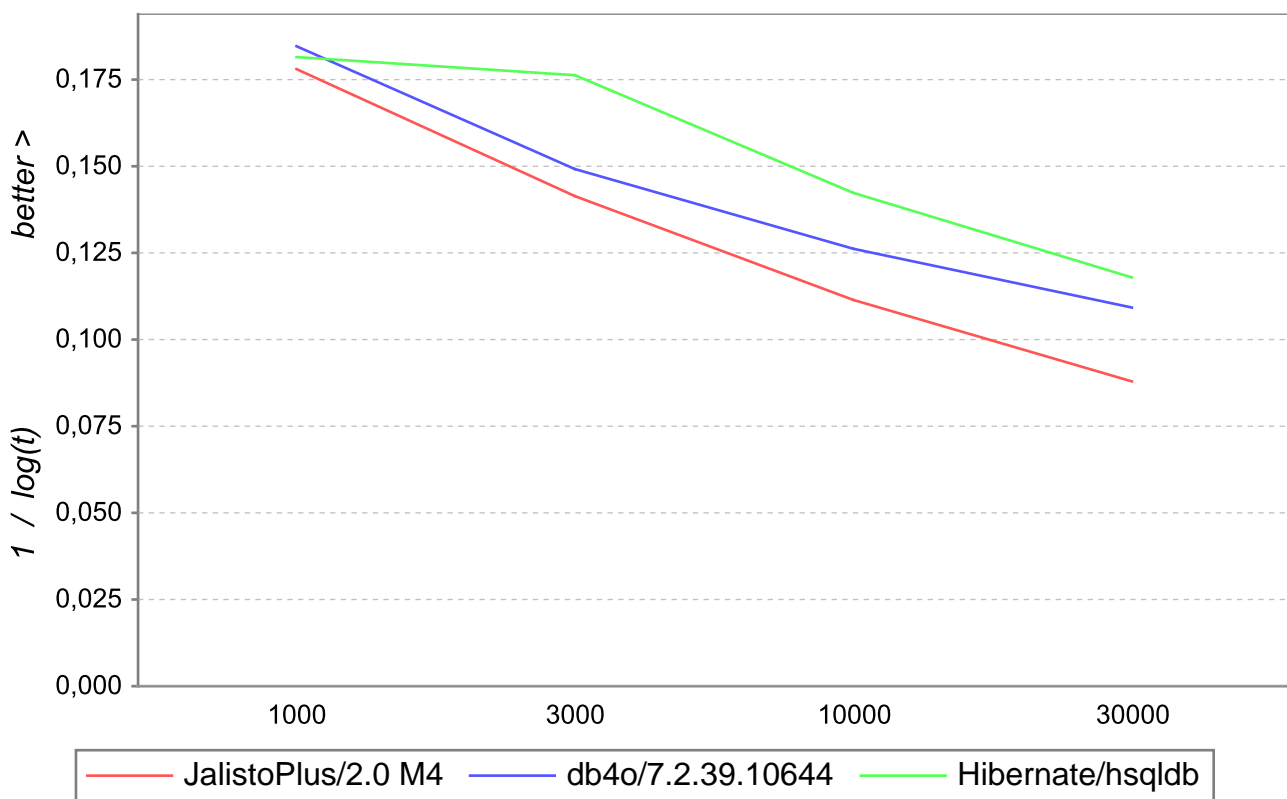


Circuit: Bahrain

write, query, update and delete simple flat objects individually

Lap: write

t [time in ms]	selects:900 objects:1000 updates:100	selects:900 objects:3000 updates:100	selects:900 objects:10000 updates:100	selects:900 objects:30000 updates:100
JalistoPlus/2.0 M4	275	1180	7897	86905
db4o/7.2.39.10644	225	815	2765	9452
Hibernate/hsqldb	247	291	1126	4817

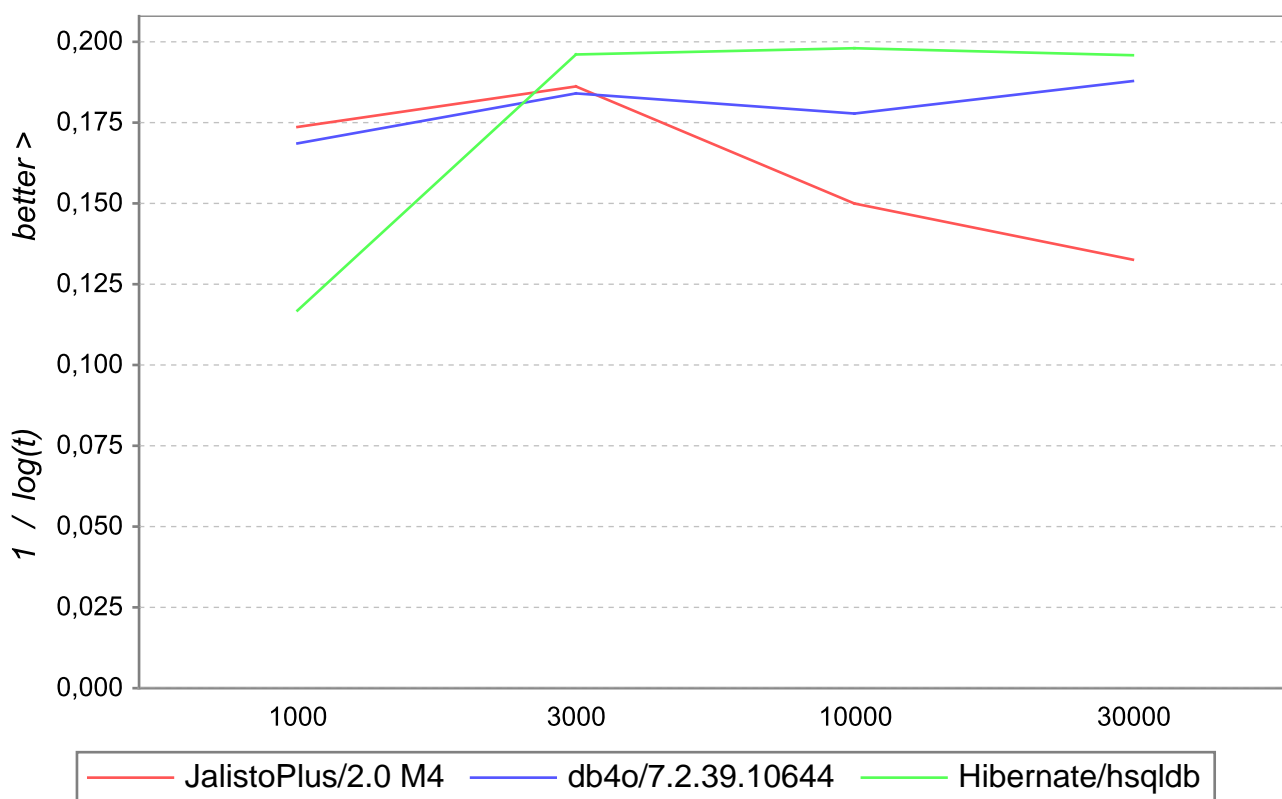


Circuit: Bahrain

write, query, update and delete simple flat objects individually

Lap: query_indexed_string

t [time in ms]	selects:900 objects:1000 updates:100	selects:900 objects:3000 updates:100	selects:900 objects:10000 updates:100	selects:900 objects:30000 updates:100
JalistoPlus/2.0 M4	317	215	787	1886
db4o/7.2.39.10644	377	229	277	205
Hibernate/hsqldb	5205	164	156	165

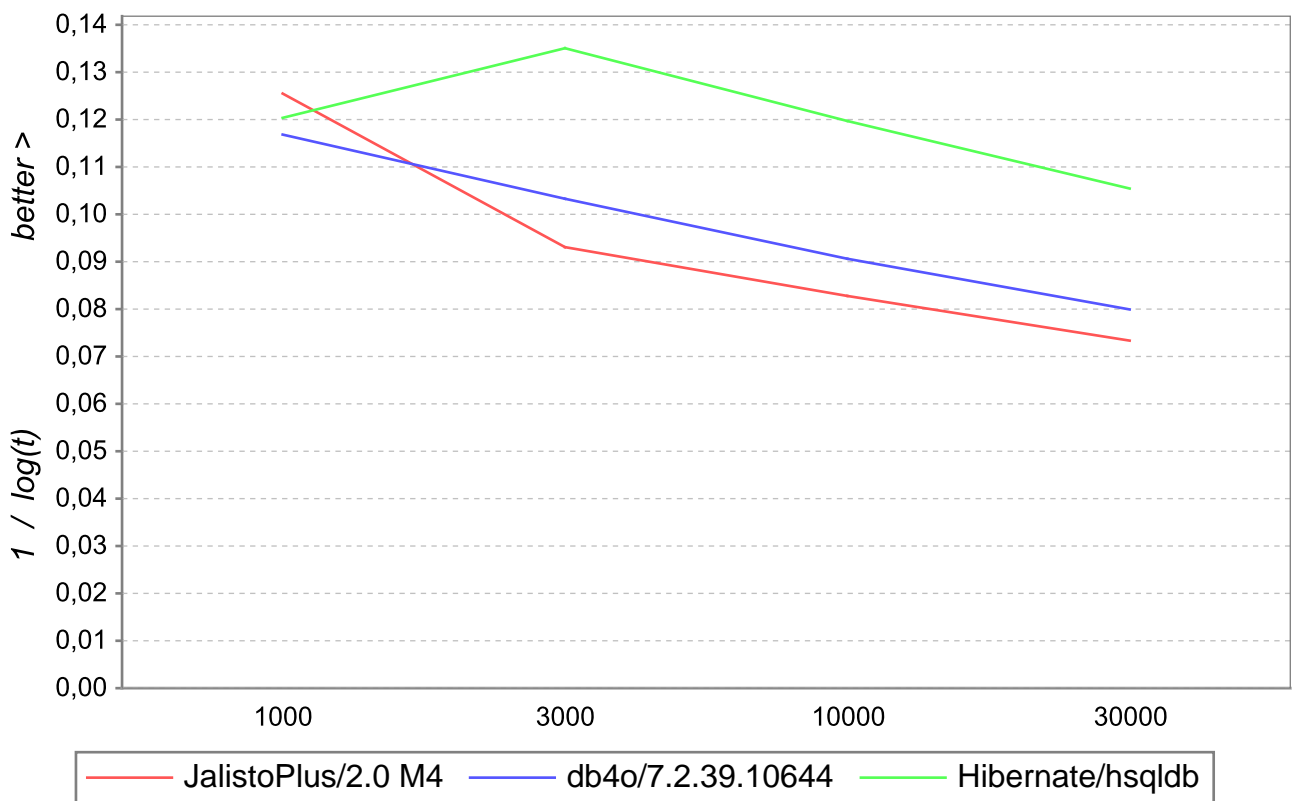


Circuit: Bahrain

write, query, update and delete simple flat objects individually

Lap: query_string

t [time in ms]	selects:900 objects:1000 updates:100	selects:900 objects:3000 updates:100	selects:900 objects:10000 updates:100	selects:900 objects:30000 updates:100
JalistoPlus/2.0 M4	2890	46358	176455	834244
db4o/7.2.39.10644	5217	16033	61990	271510
Hibernate/hsqldb	4057	1643	4249	13146

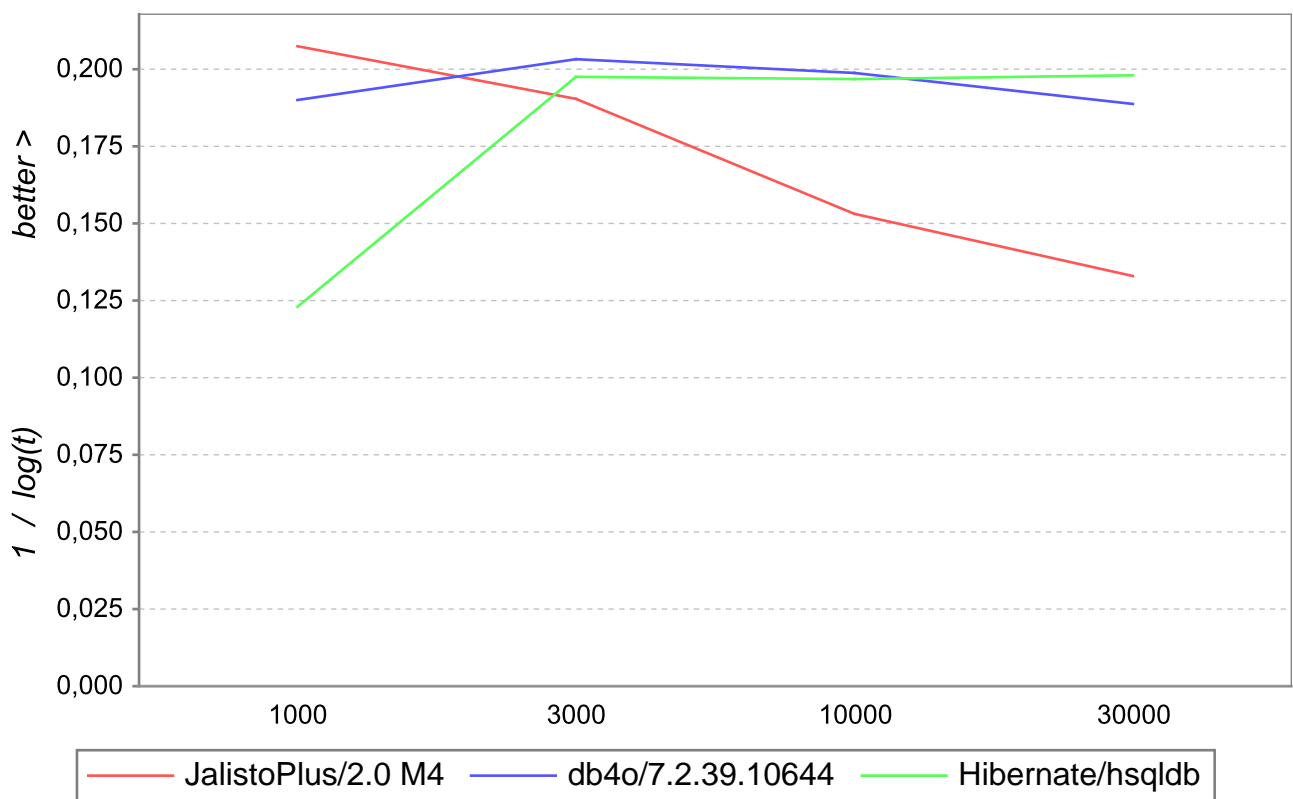


Circuit: Bahrain

write, query, update and delete simple flat objects individually

Lap: query_indexed_int

t [time in ms]	selects:900 objects:1000 updates:100	selects:900 objects:3000 updates:100	selects:900 objects:10000 updates:100	selects:900 objects:30000 updates:100
JalistoPlus/2.0 M4	124	191	686	1847
db4o/7.2.39.10644	193	137	153	200
Hibernate/hsqldb	3397	158	161	156

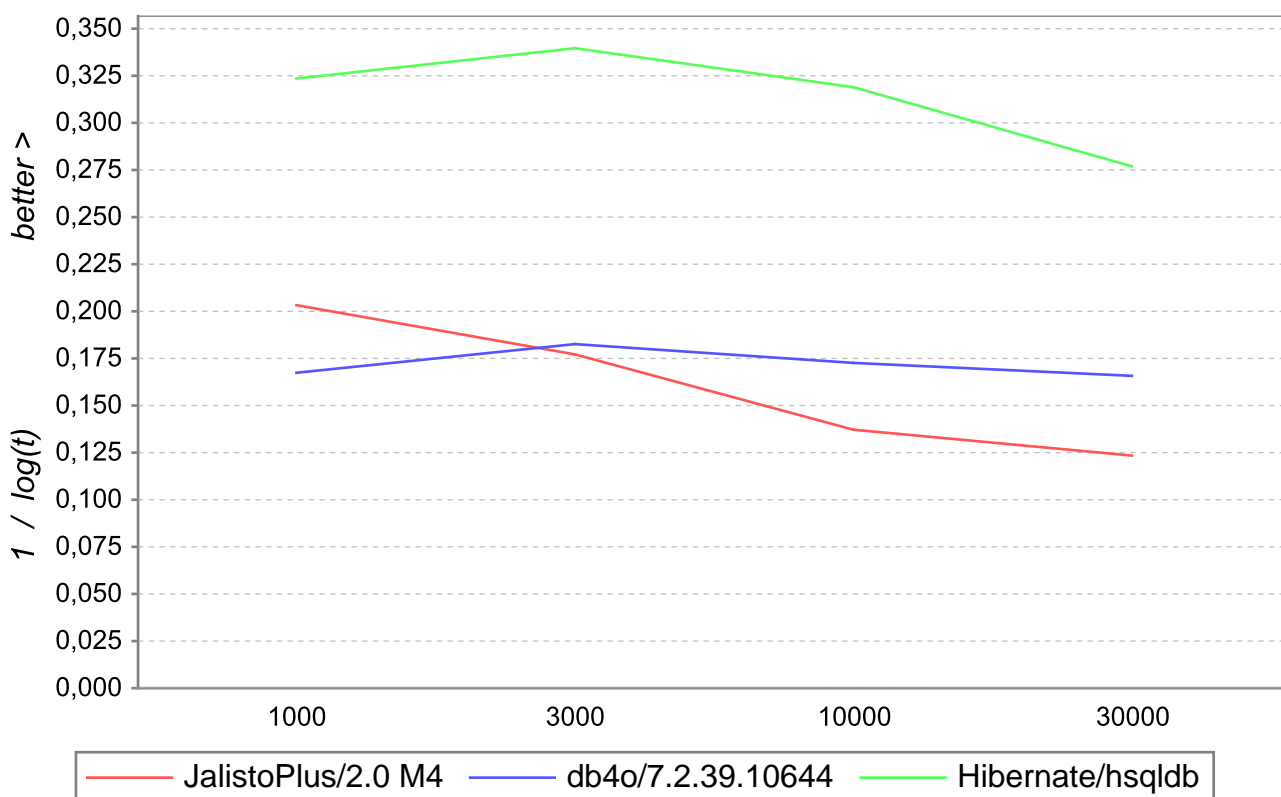


Circuit: Bahrain

write, query, update and delete simple flat objects individually

Lap: update

t [time in ms]	selects:900 objects:1000 updates:100	selects:900 objects:3000 updates:100	selects:900 objects:10000 updates:100	selects:900 objects:30000 updates:100
JalistoPlus/2.0 M4	137	283	1466	3299
db4o/7.2.39.10644	393	239	328	417
Hibernate/hsqldb	22	19	23	37

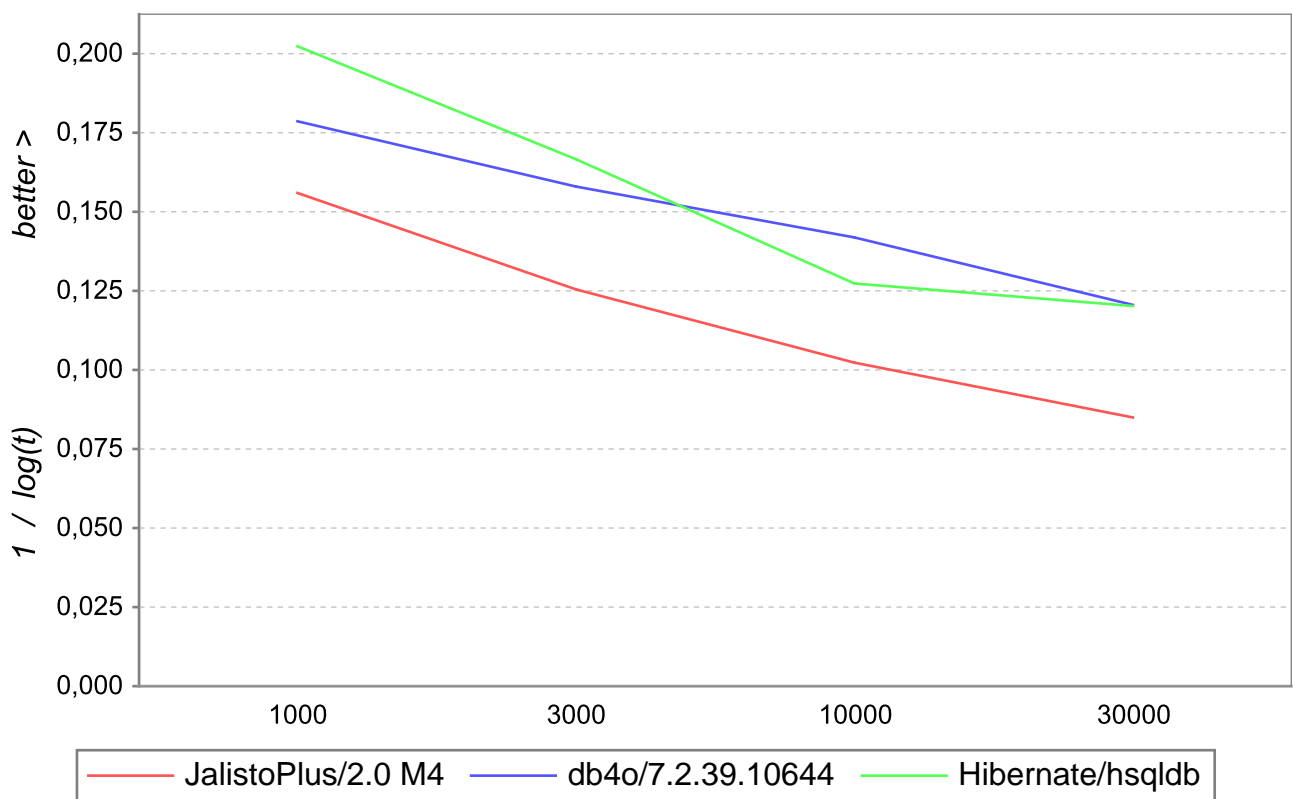


Circuit: Bahrain

write, query, update and delete simple flat objects individually

Lap: delete

t [time in ms]	selects:900 objects:1000 updates:100	selects:900 objects:3000 updates:100	selects:900 objects:10000 updates:100	selects:900 objects:30000 updates:100
JalistoPlus/2.0 M4	609	2893	17582	129116
db4o/7.2.39.10644	270	561	1150	4003
Hibernate/hsqldb	140	404	2574	4103

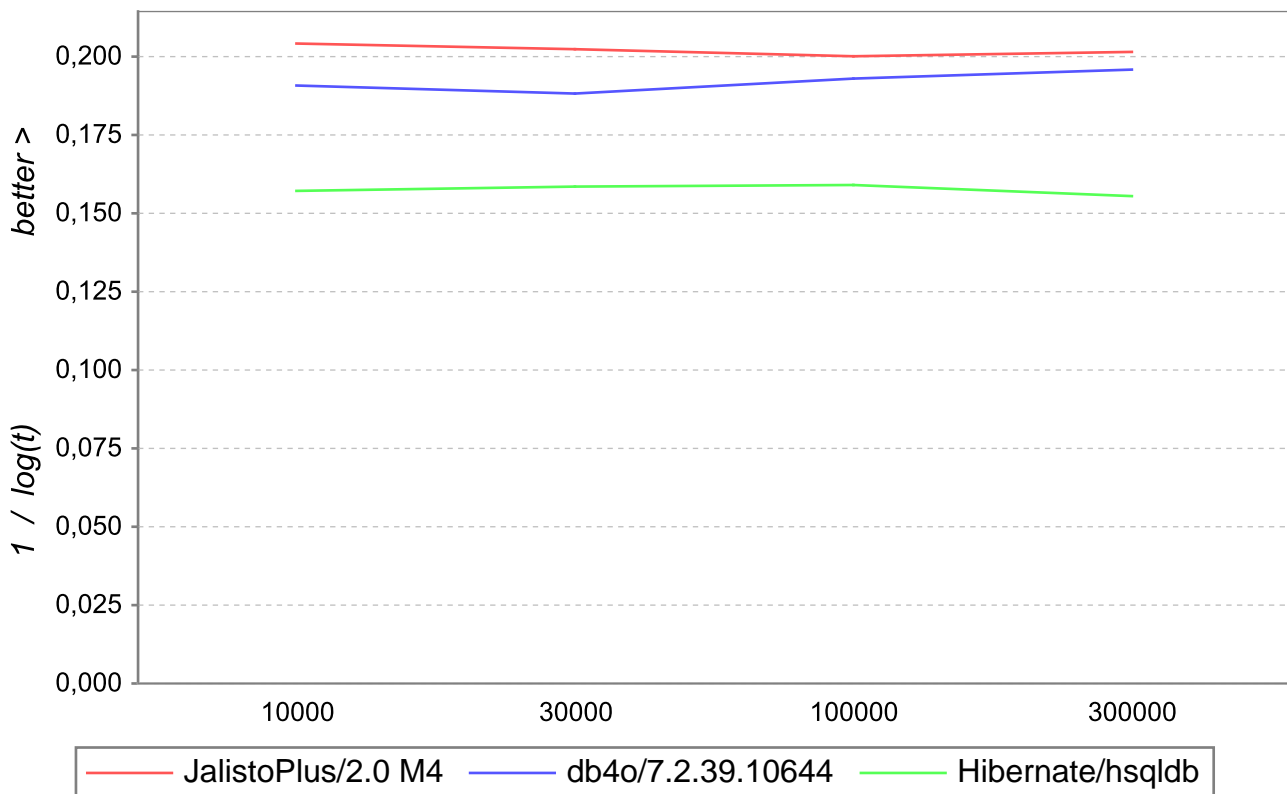


Circuit: Imola

retrieves objects by native id

Lap: retrieve

t [time in ms]	selects:5000 objects:10000	selects:5000 objects:30000	selects:5000 objects:100000	selects:5000 objects:300000
JalistoPlus/2.0 M4	134	140	148	143
db4o/7.2.39.10644	189	203	178	165
Hibernate/hsqldb	580	549	538	621

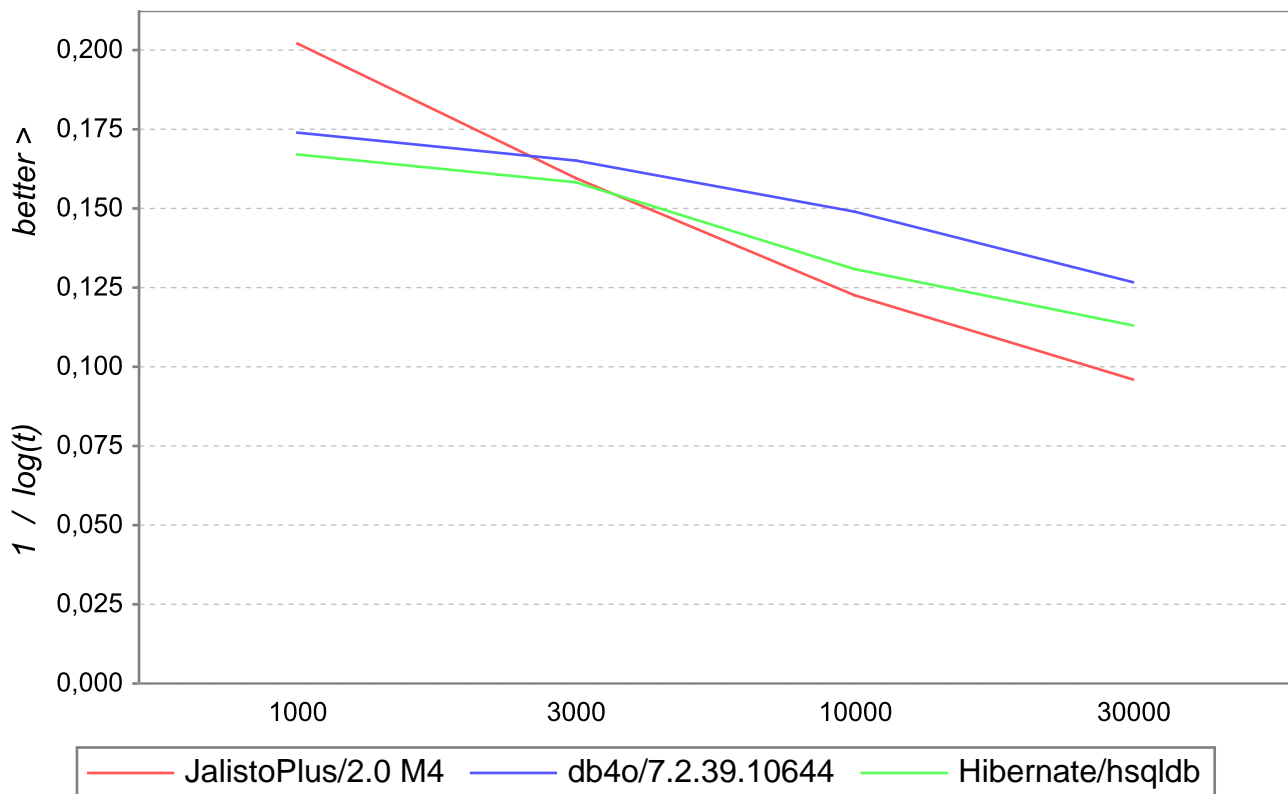


Circuit: Barcelona

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
JalistoPlus/2.0 M4	141	527	3485	33422
db4o/7.2.39.10644	314	427	822	2676
Hibernate/hsqldb	398	555	2082	6942

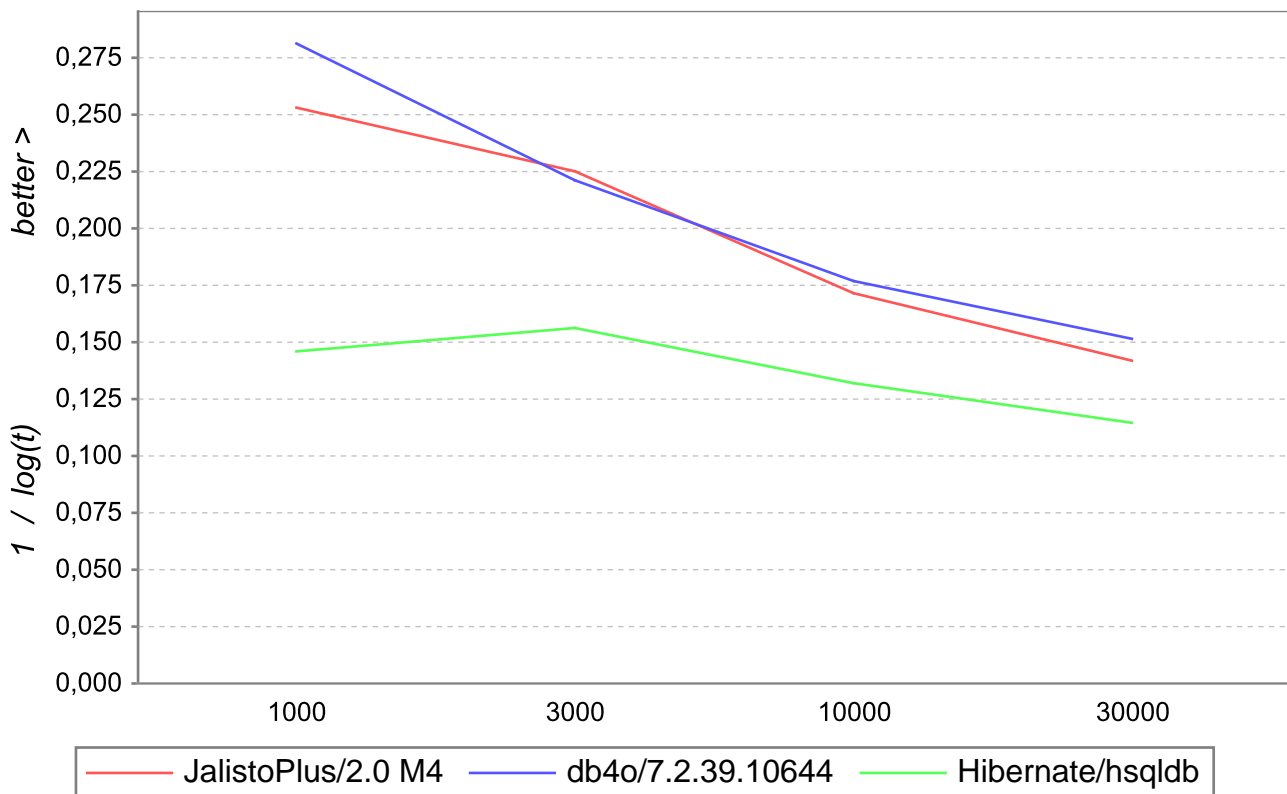


Circuit: Barcelona

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
JalistoPlus/2.0 M4	52	85	340	1150
db4o/7.2.39.10644	35	92	285	736
Hibernate/hsqldb	945	602	1950	6173

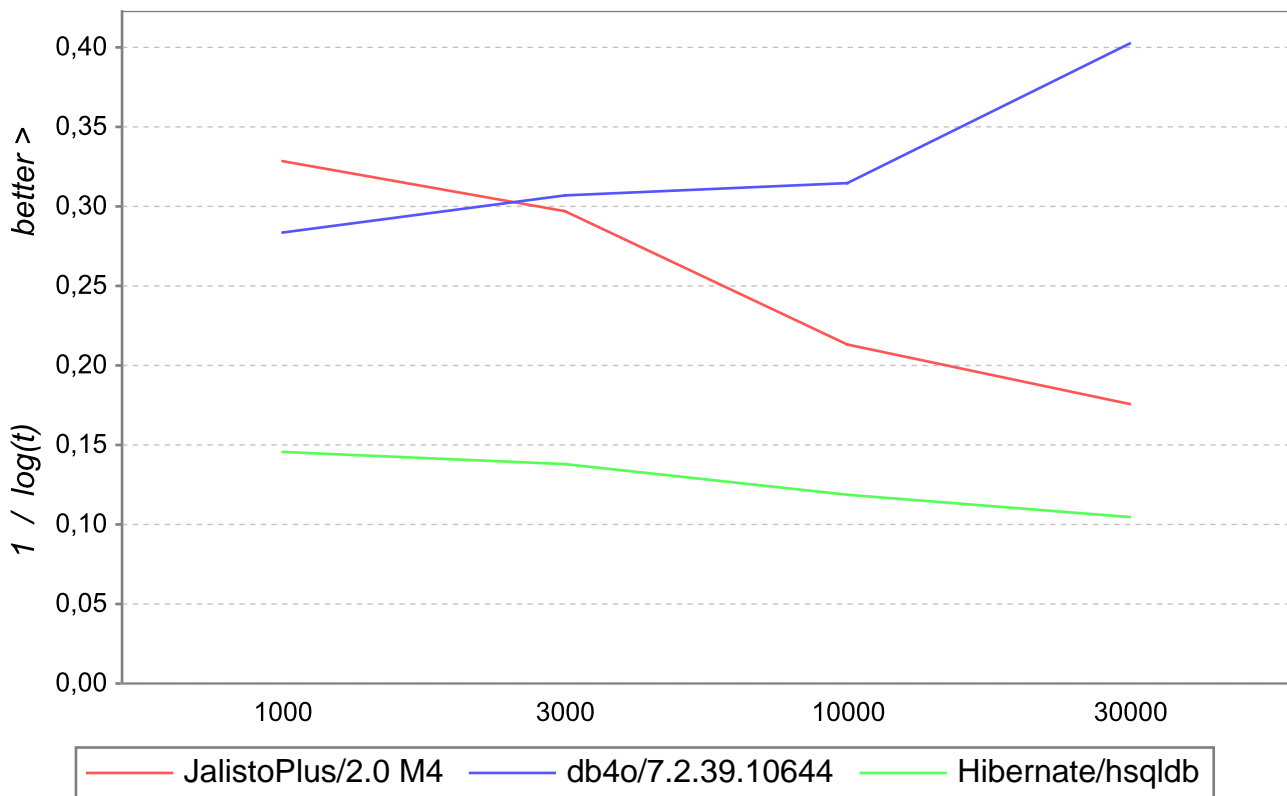


Circuit: Barcelona

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
JalistoPlus/2.0 M4	21	29	109	296
db4o/7.2.39.10644	34	26	24	12
Hibernate/hsqldb	961	1407	4564	14119



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
JalistoPlus/2.0 M4	330	1460	7881	61553
db4o/7.2.39.10644	396	539	1127	3045
Hibernate/hsqldb	426	1170	3630	11530

