

Size of tuple = 9

- open query (?, ?, ..., ?)
 - Signature type: x
 - Total number of page reads = 189
 - Signature type: t
 - Total number of page reads = 55
 - Signature type: p
 - Total number of page reads = 216
 - Signature type: b
 - Total number of page reads = 189
- query with one solution (100001, ?, ..., ?)
 - Signature type: x
 - Total number of page reads = 189
 - Signature type: t
 - Total number of page reads = 54
 - Signature type: p
 - Total number of page reads = 30
 - Signature type: b
 - Total number of page reads = 9
- query with many solutions (?, ?, a3-001, ..., ?)
 - Signature type: x
 - Total number of page reads = 189
 - Signature type: t
 - Total number of page reads = 55
 - Signature type: p
 - Total number of page reads = 71
 - Signature type: b
 - Total number of page reads = 50
- query with multiple values (100001, ?, a3-001, ..., ?)
 - Signature type: x
 - Total number of page reads = 189
 - Signature type: t
 - Total number of page reads = 28
 - Signature type: p
 - Total number of page reads = 29
 - Signature type: b
 - Total number of page reads = 14

Overall, when using linear scan (signature type x) for a query, the total number of page reads is always 189. Open queries also produced the most number of page reads regardless of the type of indexing method. Bit-sliced signature (signature type b) seems to be the most effective as it always gives the lowest number of page reads only if the query has some known attributes. Besides that, tuple signatures (signature type t) generally returns a lower number of page reads when compared

to page signatures (signature type p), except when processing a query with one solution (known attribute of query is a primary key).