

# Mysql innodb cache info

Vérifier taille Buffer Pool Size:

mysql

```
SELECT FORMAT (BufferPoolPages*PageSize/POWER(1024,3),2) BufferPoolDataGB FROM (SELECT variable_value  
BufferPoolPages FROM information_schema.global_status WHERE variable_name  
='Innodb_buffer_pool_pages_total') A, (SELECT variable_value PageSize FROM information_schema.global_status  
WHERE variable_name ='Innodb_page_size') B;
```

```
[(none)] mysql> SELECT FORMAT(BufferPoolPages*PageSize/POWER(1024,3),2) BufferPoolDataGB FROM  
-> (SELECT variable_value BufferPoolPages FROM information_schema.global_status  
-> WHERE variable_name = 'Innodb_buffer_pool_pages_total') A,  
-> (SELECT variable_value PageSize FROM information_schema.global_status  
-> WHERE variable_name = 'Innodb_page_size') B;  
+-----+  
| BufferPoolDataGB |  
+-----+  
| 0.25            |  
+-----+  
1 row in set (0.003 sec)
```

Vérifier données en cache:

Mysql

```
SELECT FORMAT (BufferPoolPages*PageSize/POWER(1024,3),2) BufferPoolDataGB FROM (SELECT variable_value  
BufferPoolPages FROM information_schema.global_status WHERE variable_name  
='Innodb_buffer_pool_pages_data') A, (SELECT variable_value PageSize FROM information_schema.global_status  
WHERE variable_name ='Innodb_page_size') B;
```

```
[(none)] mysql> SELECT FORMAT(BufferPoolPages*PageSize/POWER(1024,3),2) BufferPoolDataGB FROM  
-> (SELECT variable_value BufferPoolPages FROM information_schema.global_status  
-> WHERE variable_name = 'Innodb_buffer_pool_pages_data') A,  
-> (SELECT variable_value PageSize FROM information_schema.global_status  
-> WHERE variable_name = 'Innodb_page_size') B;  
+-----+  
| BufferPoolDataGB |  
+-----+  
| 0.10            |  
+-----+  
1 row in set (0.003 sec)
```

Vérifier % d'utilisation en cache:

```
SELECT CONCAT (FORMAT (DataPages*100.0/TotalPages,2),' %') BufferPoolDataPercentage FROM (SELECT
variable_value DataPages FROM information_schema.global_status WHERE variable_name
='Innodb_buffer_pool_pages_data') A, (SELECT variable_value TotalPages FROM
information_schema.global_status WHERE variable_name ='Innodb_buffer_pool_pages_total') B;
```

```
[(none)] mysql> SELECT CONCAT(FORMAT(DataPages*100.0/TotalPages,2),' %') BufferPoolDataPercentage FROM
-> (SELECT variable_value DataPages FROM information_schema.global_status
-> WHERE variable_name = 'Innodb_buffer_pool_pages_data') A,
-> (SELECT variable_value TotalPages FROM information_schema.global_status
-> WHERE variable_name = 'Innodb_buffer_pool_pages_total') B;
+-----+
| BufferPoolDataPercentage |
+-----+
| 40.72 %                  |
+-----+
1 row in set (0.003 sec)
```

Données supplémentaires sur le cache:

```
SHOW GLOBAL STATUS LIKE 'Innodb_buffer_pool%';
```

```
[(none)] mysql> SHOW GLOBAL STATUS LIKE 'Innodb_buffer_pool%';
+-----+
| Variable_name          | Value                                     |
+-----+
| Innodb_buffer_pool_dump_status |                                           |
| Innodb_buffer_pool_load_status | Buffer pool(s) load completed at 220905 17:35:17 |
| Innodb_buffer_pool_resize_status |                                           |
| Innodb_buffer_pool_load_incomplete | OFF                                     |
| Innodb_buffer_pool_pages_data | 6671                                    |
| Innodb_buffer_pool_bytes_data | 109297664                               |
| Innodb_buffer_pool_pages_dirty | 0                                       |
| Innodb_buffer_pool_bytes_dirty | 0                                       |
| Innodb_buffer_pool_pages_flushed | 131                                    |
| Innodb_buffer_pool_pages_free | 9699                                    |
| Innodb_buffer_pool_pages_misc | 14                                     |
| Innodb_buffer_pool_pages_total | 16384                                   |
| Innodb_buffer_pool_read_ahead_rnd | 0                                       |
| Innodb_buffer_pool_read_ahead | 0                                       |
| Innodb_buffer_pool_read_ahead_evicted | 0                                     |
| Innodb_buffer_pool_read_requests | 25646                                  |
| Innodb_buffer_pool_reads | 6541                                   |
| Innodb_buffer_pool_wait_free | 0                                       |
| Innodb_buffer_pool_write_requests | 843                                    |
+-----+
19 rows in set (0.001 sec)
```

Statut Innodb:

```
SHOW ENGINE INNODB STATUS;
```

Buffer hit ratio:

```
SELECT round ((P2.variable_value / P1.variable_value),4), P2.variable_value, P1.variable_value FROM
information_schema.GLOBAL_STATUS P1, information_schema.GLOBAL_STATUS P2 WHERE P1. variable_name
='innodb_buffer_pool_read_requests'ANDP2. variable_name ='innodb_buffer_pool_reads';
```

```
[(none)] mysql> SELECT round ((P2.variable_value / P1.variable_value),4),
-> P2.variable_value, P1.variable_value
-> FROM information_schema.GLOBAL_STATUS P1,
-> information_schema.GLOBAL_STATUS P2
-> WHERE P1. variable_name = 'innodb_buffer_pool_read_requests'
-> AND P2. variable_name = 'innodb_buffer_pool_reads';
+-----+-----+-----+
| round ((P2.variable_value / P1.variable_value),4) | variable_value | variable_value |
+-----+-----+-----+
| 0.2550 | 6541 | 25646 |
+-----+-----+-----+
1 row in set (0.003 sec)
```

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