

```
| 8.000000000000 |
+-----+
```

In this example, `innodb_buffer_pool_size` is set to 9G, and `innodb_buffer_pool_instances` is set to 16. `innodb_buffer_pool_chunk_size` is 128M, which is the default value. In this case, 9G is not a multiple of `innodb_buffer_pool_instances=16 * innodb_buffer_pool_chunk_size=128M`, so `innodb_buffer_pool_size` is adjusted to 10G, which is a multiple of `innodb_buffer_pool_chunk_size * innodb_buffer_pool_instances`.

```
shell> mysqld --innodb-buffer-pool-size=9G --innodb-buffer-pool-instances=16
```

```
mysql> SELECT @@innodb_buffer_pool_size/1024/1024/1024;
+-----+
| @@innodb_buffer_pool_size/1024/1024/1024 |
+-----+
| 10.000000000000 |
+-----+
```

Configuring InnoDB Buffer Pool Chunk Size

`innodb_buffer_pool_chunk_size` can be increased or decreased in 1MB (1048576 byte) units but can only be modified at startup, in a command line string or in a MySQL configuration file.

Command line:

```
shell> mysqld --innodb-buffer-pool-chunk-size=134217728
```

Configuration file:

```
[mysqld]
innodb_buffer_pool_chunk_size=134217728
```

The following conditions apply when altering `innodb_buffer_pool_chunk_size`:

- If the new `innodb_buffer_pool_chunk_size` value * `innodb_buffer_pool_instances` is larger than the current buffer pool size when the buffer pool is initialized, `innodb_buffer_pool_chunk_size` is truncated to `innodb_buffer_pool_size / innodb_buffer_pool_instances`.

For example, if the buffer pool is initialized with a size of 2GB (2147483648 bytes), 4 buffer pool instances, and a chunk size of 1GB (1073741824 bytes), chunk size is truncated to a value equal to `innodb_buffer_pool_size / innodb_buffer_pool_instances`, as shown below:

```
shell> mysqld --innodb-buffer-pool-size=2147483648 --innodb-buffer-pool-instances=4
--innodb-buffer-pool-chunk-size=1073741824;
```

```
mysql> SELECT @@innodb_buffer_pool_size;
+-----+
| @@innodb_buffer_pool_size |
+-----+
| 2147483648 |
+-----+

mysql> SELECT @@innodb_buffer_pool_instances;
+-----+
| @@innodb_buffer_pool_instances |
+-----+
| 4 |
+-----+
```

```
# Chunk size was set to 1GB (1073741824 bytes) on startup but was
# truncated to innodb_buffer_pool_size / innodb_buffer_pool_instances
```