

Maximum File Size

Maximum file sizes per database block size

Or: **ORA-01144: File size (4224000 blocks) exceeds maximum of 4194303**

Depending from the db_block_size you can create datafiles up to one specific size.

```
db_block_size | datafile upper limit
-----
2kb 8GB
4kb 16GB
8kb 32GB
16kb 64GB
32kb 128GB
```

If you have a db_block_size=8Kb and try to create a datafile with 33GB in size you will get:

```
ORA-01144: File size (4224000 blocks) exceeds maximum of 4194303 blocks
```

To calculate the max size: db_block_size * 4194303.

Bigfile tablespaces are a feature of Oracle 10g. A bigfile tablespace contains only one datafile (or tempfile) which can be as big as 2³² (=4GB) blocks.

```
create bigfile tablespace biiig_data file '/oracle/biiig.dbf' size 3T;
```

Bigfile tablespaces are supported only for locally managed tablespaces with automatic segment-space management.

There are two exceptions: locally managed undo and temporary tablespaces can be bigfile tablespaces, even though their segments are manually managed.

System and sysaux tablespace cannot be created as bigfile tablespace.