



## How to Change Oracle Database 10g Parameters

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# 1

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## Prerequisites

Before starting the production usage of Ex Libris applications, we recommend that you check certain database parameters listed in this document and increase the values of these parameters, if possible.

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**Note:** All recommendations in this document are for servers with only one database running (one instance). If you have a server with more than one database running, checking and changing parameters must be performed by a local DBA only. For details, consult with your local Ex Libris distributor.

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## Determining RAM Size

Before increasing the values of the database memory parameters, you must first determine whether your server configuration enables this.

To check the RAM size on your Oracle server:

- 1 Log on to the Oracle server.
- 2 Run the following commands:
  - On a Sun Solaris platform:  

```
/usr/sbin/prtconf | grep size
```
  - On a Linux platform:  

```
cat /proc/meminfo | grep MemTotal
```

For information on the RAM size necessary in order to increase the values of the database memory parameters, see the following section.

# 3

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## Required Parameter Changes

The following parameters should be changed:

Parameter	Current Value	New Value (depending on RAM size)	
		RAM Size (MB)	New Value (MB)
sga_target	700	4096	1024
		8192	1534
PROCESSES	150 or 400	4096 or above	400

### To change parameters:

- 1 Log on to the Oracle server as an oracle user.
- 2 Ensure that the SID is the SID whose parameters should be changed:  
echo \$ORACLE\_SID
- 3 Run the following commands (changing the values as delineated in the above table):

```
sqlplus '/ as sysdba'  
alter system set processes=400 scope=spfile;  
alter system set sga_target = 1024M scope=spfile;
```

You should receive the following message after each of the above commands:

```
System altered.
```

If you encounter a problem, verify and change the following SGA parameter. For example:

```
show parameters SGA
```

```
alter system set sga_max_size=2000M scope=spfile;
```

Then try once again to change the above parameters.

- 4 Activate the changes you made by running the following commands:

```
sqlplus '/ as sysdba'
```

```
startup force;
```