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Subject: **Database Startup On Solaris 10 Fails With Ora-27102 Out Of Memory Error**

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Type: **PROBLEM**

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Applies to:

Oracle Server - Enterprise Edition - Version: 09.00 to 10.00
Solaris Operating System (SPARC 64-bit)

Symptoms

Database startup on Solaris 10 fails with the following errors.

```
SQL> startup
ORA-27102: out of memory
SVR4 Error: 22: Invalid argument
```

And the alert log shows something similar to the following.

```
WARNING: EINVAL creating segment of size 0x000000002a000000
fix shm parameters in /etc/system or equivalent
```

Changes

Upgraded the OS to Solaris 10

Cause

Solaris 10 sets the shared memory segments on projects, and it is suspected to be caused by projects not being setup correctly. Because of this, there is not sufficient SHMMAX available for Oracle to allocate the SGA, so startup fails.

Solution

It is still permitted in Solaris 10 to set the limits in the /etc/system file, which will allow database startup in the interim, until can resolve the issues with projects settings.

For example, a sample /etc/system entry setting SHMMAX = 6GB.

```
set shmsys:shminfo_shmmax=6442450944
set semsys:seminfo_semmni=1024
set semsys:seminfo_semmsl=1024
set shmsys:shminfo_shmmni=100
```

@ Also found this if ct. want to stay on projects, but above should permit DB startup.

References

[Bug 5237047](#) - INCORRECT SYSTEM REQUIREMENTS FOR SOLARIS 10

[Note 151496.1](#) - EINVAL Errors in Alert Log During Startup

Errors

[ORA-27102](#) out of memory

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