



## 19c Database Installation fails with : "Error in invoking target 'libasmclntsh19.ohso libasmperl19.ohso client\_sharedlib' of makefile ins\_rdbms.mk " (Doc ID 2760289.1)

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### APPLIES TO:

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Oracle Database - Enterprise Edition - Version 19.3.0.0.0 and later  
Generic Linux  
IBM AIX on POWER Systems (64-bit)

### SYMPTOMS

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Oracle 19c installation or cloning fails with below errors:

#### **1) On Linux:**

```
INFO:
/usr/bin/ld: cannot find /usr/lib64/crti.o:
INFO:
No such file or directory

INFO:
/usr/bin/ld: cannot find /usr/lib64/libpthread_nonshared.a

INFO:
make[2]: *** [ld_shlib] Error 1

INFO:
make[2]: Leaving directory '/u01/app/oracle/product/19.3.0/rdbms/lib'

INFO:
make[1]: *** [/u01/app/oracle/product/19.3.0/lib/libasmclntsh19.so] Error 2

INFO:
make[1]: Leaving directory '/u01/app/oracle/product/19.3.0/rdbms/lib'

INFO:
make: *** [libasmclntsh19.ohso] Error 2

INFO: End output from spawned process.
INFO: -----
INFO: Exception thrown from action: make
```

Exception Name: MakefileException  
Exception String: **Error in invoking target 'libasmclntsh19.ohso libasmperl19.ohso client\_sharedlib' of makefile '/u01/app/oracle/product/19.3.0/rdbms/lib/ins\_rdbms.mk'.**  
Exception Severity: 1  
INFO: [Mar 5, 2021 1:08:29 PM] Adding ExitStatus STOP\_INSTALL to the exit status set  
INFO: [Mar 5, 2021 1:08:29 PM] Finding the most appropriate exit status for the current application  
INFO: [Mar 5, 2021 1:08:29 PM] Exit Status is -4  
INFO: [Mar 5, 2021 1:08:29 PM] Shutdown Application

## 2) On AIX:

INFO:  
**Id: 0706-006 Cannot find or open library file: -l m**

INFO:  
ld:open(): A file or directory in the path name does not exist.

INFO:  
**make: 1254-004 The error code from the last command is 255.**

Stop.

INFO:  
**make: 1254-004 The error code from the last command is 2.**

Stop.

INFO:  
make: 1254-004 The error code from the last command is 2.

INFO:  
Stop.

INFO: End output from spawned process.  
INFO: -----  
INFO: Exception thrown from action: make  
Exception Name: MakefileException  
Exception String: **Error in invoking target 'libasmclntsh19.ohso libasmperl19.ohso client\_sharedlib' of makefile '/u01/app/oracle/product/19.3.0/rdbms/lib/ins\_rdbms.mk'.**  
Exception Severity: 1  
INFO: [Jul 26, 2021 9:55:16 PM] Adding ExitStatus STOP\_INSTALL to the exit status set  
INFO: [Jul 26, 2021 9:55:16 PM] Finding the most appropriate exit status for the current application  
INFO: [Jul 26, 2021 9:55:16 PM] Exit Status is -4  
INFO: [Jul 26, 2021 9:55:16 PM] Shutdown Application

Additionally on AIX, we may observe below errors:

Id: 0711-593 SEVERE ERROR: Symbol C\_BSTAT (entry 300)  
INFO: in object \$ORACLE\_HOME//lib/libasmclntsh19.a[kgfo.o]:  
The symbol refers to a csect with symbol number 0, which was not found. The new symbol cannot be associated with a csect and is being ignored.

## 3> On SLES-15

```
INFO:
/usr/bin/ld: cannot find -lcintshcore

INFO:
make[2]: *** [/u01/app/oracle/product/19.3.0/rdbms/lib/env_rdbms.mk:5064: dlopenlib] Error 1

INFO:
make[2]: Leaving directory "/u01/app/oracle/product/19.3.0/rdbms/lib"

INFO:
make[1]: *** [/u01/app/oracle/product/19.3.0/rdbms/lib/env_rdbms.mk:5042:
'/u01/app/oracle/product/19.3.0/lib/libasmperl19.so] Error 2

INFO:
make[1]: Leaving directory "/u01/app/oracle/product/19.3.0/rdbms/lib"

INFO:
make: *** [/u01/app/oracle/product/19.3.0/rdbms/lib/env_rdbms.mk:5079: libasmperl19.ohso] Error 2

INFO: End output from spawned process.
INFO: -----
INFO: Exception thrown from action: make
Exception Name: MakefileException
Exception String: Error in invoking target 'libasmcintsh19.ohso libasmperl19.ohso client_sharedlib' of makefile
"/u01/app/oracle/product/19.3.0/rdbms/lib/ins_rdbms.mk'. See '/tmp/InstallActions2022-02-16_11-20-
21AM/installActions2022-02-16_11-20-21AM.log' for details.
Exception Severity: 1
INFO: Error in invoking target 'libasmcintsh19.ohso libasmperl19.ohso client_sharedlib' of makefile
"/u01/app/oracle/product/19.3.0/rdbms/lib/ins_rdbms.mk'. See '/tmp/InstallActions2022-02-16_11-20-
21AM/installActions2022-02-16_11-20-21AM.log' for details.
```

## CAUSE

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Due to missing OS packages pre-requisites.

## SOLUTION

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### 1) On Linux:

The files `crti.o` and `libpthread_nonshared.a` missing and it is due to `glibc-devel` rpm.

```
$ rpm -q --whatprovides /usr/lib64/crti.o
glibc-devel-2.17-157.el7.x86_64
$ rpm -q --whatprovides /usr/lib64/libpthread_nonshared.a
glibc-devel-2.17-157.el7.x86_64
```

Install `glibc-devel` rpm and then re-try the 19c installation.

This rpm is the pre-required rpm for 19c Installation on Linux.

Refer the [19c Installation guide on Linux](#).

### 2) On AIX:

The file /usr/lib/libm.a missing and it is due to bos.adt.libm fileset.

```
ls -lpp -w /usr/lib/libm.a
File Fileset Type
-----
/usr/lib/libm.a bos.adt.libm Symlink
```

Install bos.adt.libm AIX fileset and then re-try the 19c installation.

This fileset is the pre-required fileset for 19c Installation on AIX.

Refer the [19c Installation guide on AIX](#).

Oracle directory mount options are mounted with CIO option:

```
/dev/lv_oracle /oracle jfs2 Apr 01 19:42 rw,cio,log=INLINE
/dev/lv_flash /oracle/flashback jfs2 Apr 01 19:42 rw,cio,log=INLINE
```

1. Remount the mount points used for the ORACLE\_HOME, staging area, and tmp without the CIO option. Or use a device that is not mounted with CIO option.

2. Invoke the installer.

./runInstaller

### 3) On SLES 15:

A glibc package update in SLES 15 SP3 caused some enterprise software to fail due to the missing libpthread\_nonshared.a file.

Install compat-libpthread-nonshared package and re-try the Oracle 19c installation

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