

32/64bit Compile with Oracle & Server Express

Oracle with Server Express can be use in either 32 or 64bit mode. The following instructions describe the setup.

The following are UNIX environment variable needed to be setup for the Oracle Database.

ORACLE_BASE - Specifies the base of the Oracle directory
Example - *ORACLE_BASE=path of your oracle directory*

ORACLE_HOME - Specifies the directory containing the Oracle software
Example - *ORACLE_HOME=\$ORACLE_BASE/product release directory*

ORACLE_SID - Specifies the Oracle System Identifier

PATH - Used by the shell to locate executable programs
Example - *PATH=\$ORACLE_HOME/bin*

LD_LIBRARY_PATH - Specifies the directory containing the Oracle libraries
Example - *LD_LIBRARY_PATH=\$ORACLE_HOME/lib or lib32*

SHLIB_PATH (HP-UX Systems only) - Specifies the directory containing the Oracle libraries
Example - *SHLIB_PATH=\$ORACLE_HOME/lib or lib64*

LIBPATH (IBM AIX System only) - Specifies the directory containing the Oracle libraries
Example - *LIBPATH=\$ORACLE_HOME/lib or lib32*

Oracle provides two pre-compilers, *procob* which is used for 64bit operation, and *procob32*, which is used for 32bit operation. Micro Focus Server Express can be used in either 32bit or 64bit mode.

The command 'cobmode' is used to show the default mode of operation for the Server Express product (The default mode is set during the Server Express installation process). If the mode does not match the desired setting (32 bit or 64 bit), then setting the environment variable 'COBMODE' equal to 32 or 64 will change the current working mode.

Note: The 'cobmode' command can also be used to change the default mode for compilation. Additional COBMODE information can be found in the Server Express documentation.

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1. Execute the makefile *ins_precomp.mk*
2.

```
cd $ORACLE_HOME/precomp/lib
make LOC_RTSORA=newrts -f ins_precomp.mk newrts
```

where:
newrts is the name you wish to give the output executable run-time system
3. Make a backup copy of *\$COBDIR/bin/rts32_t*, for example:

```
cp $COBDIR/bin/rts32_t $COBDIR/bin/rts32_t.sav
```
4. Replace the default run-time system *rts32_t* with the new run-time system *newrts*, for example:

```
ln -s newrts $COBDIR/bin/rts32_t
```

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Oracle provides both 32-bit and 64-bit versions of objects and libraries. When building the run-time executable, ensure that the correct version of the Oracle libraries are linked. The location of the Oracle supplied libraries can be set by passing the desired location to the make command using LIBDIR=libdir to make (where libdir is lib, lib32 or lib64 depending on Oracle system configuration). For example:

```
make LIBDIR=lib32 -f $ORACLE_HOME/precomp/lib/ins_precomp.mk rtsora
```

Note: There are also instructions within the documentation that allow users to create a callable shared object containing the Oracle DBMS routines