
Subject: Running FlexLM on OS X

Posted by [K. Bowman](#) on Wed, 04 Dec 2002 13:55:08 GMT

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This will likely be of interest only to those running OS X.

We have been working to get our IDL licensing running on our OS X machines. The FlexLM license manager runs fine if you start it manually, the trick has been to get it to start up at boot time under the (peculiar) OS X boot sequence. The documentation from IDL and Globetrotter (the FlexLM folks) is ... ah ... sparse, and neither has startup scripts for OS X that I can find.

After some poking around, I found the following fairly useful how-to page at Apple:

http://developer.apple.com/techpubs/macosx/Darwin/howto/system_starter_howto/system_starter_howto.html

The following seems to be working for us. No guarantees! Please let me know if you find problems or better ways to do it.

In /Library/StartupItems create a directory "FlexLM". In this directory are two files, the script to actually run lmgrd (must also be named "FlexLM") and a property list (StartupParameters.plist).

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Below is the FlexLM file. The file belongs to "adminuser". Lmgrd should not be run as root for security reasons. In the file, change "adminuser" to the name of the administrative user for your machine. The test for whether lmgrd is already running is not elegant, but it works. This script assumes that the license file is in the default location.

```
#!/bin/sh
```

```
##
```

```
# FlexLM license manager daemon
```

```
##
```

```
. /etc/rc.common
```

```
StartService ()
```

```

{
  if [ `/usr/local/rsi/idl_5.6/bin/lmstat | grep -c UP` = "0" ]; then
    ConsoleMessage "Starting FlexLM license manager"
    /usr/bin/su adminuser -c '/usr/local/rsi/idl_5.6/bin/lmgrd >>
/dev/console'
  else
    ConsoleMessage "FlexLM license manager already running"
  fi
}

StopService ()
{
  if [ `/usr/local/rsi/idl_5.6/bin/lmstat | grep -c UP` != "0" ]; then
    ConsoleMessage "Stopping FlexLM license manager"
    /usr/local/rsi/idl_5.6/bin/lmdown -q
  else
    ConsoleMessage "FlexLM license manager already stopped"
  fi
}

RestartService () { StopService; /bin/sleep 5; StartService; }

RunService "$1"

```

Below is the StartupParameters.plist file. If anyone has a better idea what these parameters should be, please let us know!

```

{
  Description    = "FlexLM License Manager";
  Provides      = ("lmgrd");
  Requires      = ("Network");
  Uses          = ("");
  OrderPreference = "Late";
}

```
