

## Activating your license and using QA C/C++ for the first time

To use this license for the first time you will need to use a FLEXlm license server (which can run locally on your machine).

You should have access to FLEXlm license management tools. If these have not already been provided for you, They can be downloaded from the following locations.

### Solaris

<http://www.programmingresearch.com/downloads/Unix/Solaris/FLEXlm/licTools-9.5-sol2.7.tgz>

### Solaris 2.6

[http://www.programmingresearch.com/downloads/Unix/Solaris/FLEXlm/licTools\\_Sol2.6.tgz](http://www.programmingresearch.com/downloads/Unix/Solaris/FLEXlm/licTools_Sol2.6.tgz)

### Red Hat Linux 9

<http://www.programmingresearch.com/downloads/Unix/Linux/FLEXlm/licTools-9.5-linux-rh9.tgz>

### Red Hat Linux 7.3

<http://www.programmingresearch.com/downloads/Unix/Linux/FLEXlm/licTools-9.5-linux-rh7.3.tgz>

### HP-UX 11

<http://www.programmingresearch.com/downloads/Unix/HP/FLEXlm/licTools-9.5-hp11.tgz>

### HP-UX 10

<http://www.programmingresearch.com/downloads/Unix/HP/FLEXlm/licTools-9.0-HP.tgz>

The FLEXlm tools for Unix will come either packaged in archive form on the web or as individual files on the CD. Transfer the archive / files to the machine acting as the license server.

When you have the archive :

- rename to FLEXlm.tgz
- type gunzip FLEXlm.tgz
- type tar xvf FLEXlm.tar

There should now be a FLEXlm directory containing the following files:

**install.sh Imutil debug.log Imgrd prflexd**

install.sh creates a number of symbolic links which are aliases for Imutil functionality.

type sh install.sh

The directory listing should look like this :

```
lmdown Imremove Imutil
debug.log Imgrd Imreread Imver
install.sh Imhostid Imstat prflexd
```

```
lmborrow lminstall lmswitch  
lmdiag lmpath lmswitchr
```

The final step is to start using the FLEXlm license. To do this type the following:

```
lmgrd -c license_file.lic -l log_file.log
```

This will return after launching the prflexd license daemon.

You may already have some products which use a FLEXlm license. FLEXlm allows you to combine a license into a single file or start the license daemon and specify several license files.

Using cut and paste to edit license files can be problematic it is best to start the license daemon as follows:

```
lmgrd -c 'other.lic:prqa.lic'-l log_file.log
```

On the client machines set the environment variable PRLDHOST to the name or IP address of the license server. Depending on the shell this will be one of the options below.

```
setenv PRLDHOST @hostname  
export PRLDHOST=@hostname
```

Start QA C / C++ as normal

## Your license File Explained

FLEXlm operates with an encrypted, readable text licence file in all cases. There are several components to this licence file, as provided by PRL:

```
SERVER this_host 8312e512
```

This line describes the server machine that the license will run from. It could also be a client machine that serves licenses to itself.

```
VENDOR prflexd
```

This line describes the vendor for this license, which will always be PRL's unique identifier.

```
USE_SERVER
```

This line mandates that all licenses must be delivered from a server, rather than operating as a standalone node-locked license.

```
FEATURE QAC prflexd 6.0 permanent 3 PLATFORMS=i86_n DUP_GROUP=UHD  
\  
ISSUED=22-Jul-2003 SIGN="02EC 1189 ..."
```

This line describes one of the 5-6 features that collaborate into a single user license. The key components of this line have the following meaning:

Element	Explanation
QAC	The product identifier (for QAC++, the identifier is QACPP).
6.0	The version of product up to which this license is permitted to run.
Permanent	Indicates a permanent, as opposed to temporary, license (for a temporary license, a license end-date would be here).
3	The number of concurrent users permitted.
PLATFORMS=i86_n	Platform range permitted for client access, in this case Windows only.

Note: There is a descriptive text line in each license file that describes the above key information.

```
INCREMENT QAC prflexd 6.0 permanent 3 PLATFORMS=i86_n
DUP_GROUP=UHD \
    ISSUED=22-Jul-2003 SIGN="02EC 1189 ..."
```

This line is an alternative format of the set of feature lines, where additional licenses are being added to an existing feature. This might often be the case when a customer has added licenses to an existing set-up.