qbupdateresource

Description | **Usage** | **Options** | **Examples** | **Notes** | **See also**

Description

qbupdateresource is used to inform the Supervisor of license usage counts from external license managers (FlexLM, RLM, MP, etc.). When Qube competes for licenses or other resources with an "external entity", (be that users or another queuing system), the Qube Supervisor can reconcile it's internal license or resource usage counts with the values retrieved from that license manager.

The Qube system administrator needs to write a script that runs on a periodic basis, queries the license server for the current usage, and if the license count has changed since the last time the script was run, calls **qbupdateresources** to inform the Supervisor of the new counts.

For example:

- you own 100 prman licenses
- Qube is configured to allow *up to* 100 prman job instances to be running at any one time by defining license.prman=100 (see System-wide Resource Tracking and License Resources).

All well and good, until end-users also start consuming prman licenses. Here's how this gets reconciled:

- Qube is currently running 60 job instances that are consuming a prman license (via the job being submitted with a reservation of license.prman=1 - see Job Reservations)
- The scripts gets the count from the external licenser server, and finds that now there are actually 80 prman licenses in use according to the prman license server. The script calls:

qbupdateresource --name license.prman=1 --total 100 --used 80

- The supervisor will then assume that there are 20 licenses in use by some external entity, will set the resource usage for `license.prman` to 80, and the only dispatch up to

Usage

Options

`-total` flag behavior explained

The `-total` value you give it via the "qbupdateresource" command specifies the **grand-total number** of licenses, while the value you specify in the qb.conf file's `supervisor_global_resources` parameter refers to the **total (maximum) number that the farm may use**.

So, for instance, if you have in qb.conf:

```
supervisor_global_resources=license.maya=100
```

and you run qbupdateresource as in:

```
qbupdateresource -total 120 -used 80 -name license.maya
```

you're essentially saying that you have 120 grand-total count of licenses in your studio, while you're allowing the farm to use up to 100 of them. The remaining 20 is reserved for the use outside of the farm.

If, in the above scenario, all the 80 "used" licenses are being used on the farm, then `qbadmin s -resource` will display:

```
license.maya=80/100
```

Note that the denominator is still 100, because that's the number allotted to the farm.

If 70 is used on the farm, and 10 outside, then:

```
license.maya=70/100
```

If, on the other hand, say 50 is being used on the farm, and 30 outside, then "qbadmin s -resource" will display:

```
license.maya=60/100
```

That's because the "outside" count has gone over its "reserved" amount of 20, and 10 bleed into the farm allocation.

Notes

Examples

See also