



Best practices

Performance Tuning for Large Symphony Clusters

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Performance Tuning for Large Symphony Clusters

If the Symphony cluster size is large, such as 1000+ hosts, 5000+ slots, etc., tune the parameters below for better performance and system stabilization.

Tips for performance tuning

1. Modify the following parameters in ego.conf:

EGO_DISTRIBUTION_INTERVAL=1

Improves container startup speed, client response time, and overall cluster performance.

EGO_MAX_CONN=20000

Allows VEMKD to maintain more connections.

EGO_UID_CACHE_DURATION=600

Time period for PEM to cache uid locally to avoid container setup failure in large clusters due to NIS limitation.

EGO_MASTER_ANN_BUF_SIZE=40960

Controls the XDR buffer size during communication between master and slave LIMs.

EGO_DYNAMIC_HOST_WAIT_TIME=600

Provides compute hosts with a greater chance to be recognized by the master host.

2. Add the following parameter to ego.cluster.<clustername>.

EXINTERVAL=150

Provides VEMKD with a greater chance to obtain load information from the master LIM.

3. Modify plc.sh to enlarge java vm's memory usage if you have huge history data to read and write.

```
$JAVA_HOME_BIN/java -Xms256m -Xmx4096m
```

4. Modify Dataloader-related configuration files to enlarge BatchSize to improve PERF performance.

For example: modify "symsessionhistloader.xml" under \$PERF_CONFDIR, and change BatchSize=1 to BatchSize=5000.

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