



Best practices

Linux system tuning for heavily- loaded hosts

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Linux system tuning for heavily-loaded hosts

If the Symphony cluster's management or compute hosts are very heavily loaded, you can tune the following system parameters to get better performance and system stabilization.

Tips for system tuning

1. Add the following parameters to `/etc/security/limits.conf`:
 - * soft nproc 30720
 - * hard nproc 30720
 - * soft nofile 65535
 - * hard nofile 65535
2. If the Linux version is higher than 6.0, you also need to delete the following item in `"/etc/security/limits.d/90-nproc.conf"`:
 - *soft nproc 1024
3. If you are using the MTS feature, you should use the following command to add a system semaphore:
 - `sudo /sbin/sysctl -w kernel.sem="250 32000 32 12800"`
 - `sudo ipcs -ls`
4. If you want to accelerate the socket port release speed, you can:
 - a. Add `net.ipv4.tcp_tw_recycle = 1` to file `/etc/sysctl.conf`
 - b. Run `sysctl -p` to make the configuration change take effectThe previous steps need root privileges. If you want to disable the configuration, set `net.ipv4.tcp_tw_recycle = 0` instead of removing it directly.

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