

Large pages (huge pages) can increase performance by up to 15 percent.

Windows

1. Choose **Start > Control Panel > Administrative Tools > Local Security Policy**.
2. In the left pane of the Local Security Settings window, expand **Local Policies** and choose **User Rights Assignment**.
3. In the right pane of the Local Security Settings window, choose **Lock pages in memory** and choose **Action Properties**. The Local Security Setting dialog box opens.
4. In the **Local Security Setting** dialog box, click **Add User or Group**.
5. Enter the appropriate user name, then click **OK** to close the Select Users or Groups dialog box.
6. Click **OK** to close the Local Security Policy Setting dialog box. The Local Security Settings window shows the user assigned to the policy.

Linux

1. `vm.nr.hugepages`
Attach to `/etc/sysctl.conf` one line
`vm.nr_hugepages=1024`

This demands 1024 2Mb pages with "sysctl -p" or reboot for read "man sysctl" to see.

Or in the system

`# echo 1024 > /proc/sys/vm/nr_hugepages`

Ensure the number 1024 is your proper size in desire.

The overlimit subdues the system!

2. **MEMLOCK limit**
Attach to `/etc/security/limits.conf` two lines for 20GB in the limit
`* soft memlock 20971520`
`* hard memlock 20971520`

Now read "man limits.conf" for these are per login.

The limit size can be too big and not annoy.

Check "ulimit -a" to see memlock limits in the actual.

3. **shmget standards**

Contrive with `/proc/sys/kernel/shmmax` to lift for size in the choice (20GB).

`# echo 21474836480 > /proc/sys/kernel/shmmax`

Again too big has no annoy. Purview "man shmget" NOTES in the more.

4. **Arriving in IvanHoe**
The UCI TryLargePages demands to use yours.
The problem is to do so for Hash and PawnsHash.
The size for Hash is better at 1GB pages but not for PawnsHash unless your computer is big.
The simultaneous split is not seen by us.
So the 2MB size for the Large Pages is what we see now.
Always disengage IvanHoe via quit to ensure deremedy of LargePages. Yet: the GUI has the fault too. The SIGKILL eludes the catch.
5. **Testing results (1GB+64Mb+64Mb)**
NPS 8477000 vs NPS 9167000 (8%)