

Enabling Large Pages in VMmark Java Server Workload

VMmark 1.1

The *VMware VMmark Benchmarking Guide* for VMmark 1.1 does not address the use of large memory pages for the Java Server workload. Enabling large memory pages at the operating system level is optional, but can allow the Java Server workload to run more efficiently and can thus improve overall VMmark scores.

NOTE If large pages are enabled for the Java Server workload within any one tile in a VMmark run, they must be enabled in the Java Server workloads in all tiles for the result to be compliant.

To enable large pages for the Java Server workload, perform the following steps:

- 1 Within the Java Server workload virtual machine choose **Start > Settings > Control Panel**.
- 2 Within the **Control Panel** window, open **Administrative Tools**.
- 3 Within the **Administrative Tools** window, open **Local Security Policy**.
- 4 In the left pane of the **Local Security Settings** window, expand **Local Policies** and select **User Rights Assignment**.
- 5 In the right pane of the **Local Security Settings** window, double-click **Lock pages in memory**.
- 6 In the **Lock pages in memory Properties** dialog box, click the **Add User or Group** button.
- 7 In the **Select Users or Groups** dialog box, enter **administrator** (this should be the user under which STAF is running).
- 8 Click **OK** to close the **Select Users or Groups** dialog box.
- 9 Click **OK** to close the **Lock pages in memory Properties** dialog box. The **Local Security Settings** window now shows the user assigned to the policy.
- 10 Log out, then log back in (or reboot the virtual machine) to free memory. Applications running as this user can now access large pages.

The VMmark batch file used to start the JVM includes the large-page request flag. Thus once large pages are enabled, as described above, the JVM will automatically use them if they are available.

If you have comments about this documentation, submit your feedback to: docfeedback@vmware.com

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