# My Notebook

[Tuning Java Virtual Machines - XAP 7.0.X Documentation - GigaSpaces Documentation Wiki](http://www.gigaspaces.com/wiki/display/XAP7/Tuning+Java+Virtual+Machines#TuningJavaVirtualMachines-Tuning64bitJVM)

# Tuning 64-bit JVM

On 64-bit systems, the call stack for each thread is allocated with 1MB of memory space. Most threads do not use that much space. Using the -XX:ThreadStackSize=256k flag, you can decrease the stack size to 256k to allow more threads.

The -Xmn<size> flag lets you manually set the size of the "young generation" memory space for short-lived objects. If your application generates lots of new objects, you might improve GCs dramatically by increasing this value. The "young generation" size should almost never be more than 50% of heap.

The -XX:+UseCompressedOops option can improve performance of the 64-bit JRE when the Java object heap is less than 32 gigabytes in size. In this case, HotSpot compresses object references to 32 bits, reducing the amount of data that it must process. Available in Sun JVM since JDK6u14.

public class PaidMode  
{  
 public static boolean isInPaidMode(Context context)  
 {  
 String mainAppPkg = ...;  
 String keyPkg = ...;  
 int sigMatch = context.getPackageManager.checkSignatures(mainAppPkg,  
keyPkg);  
 return sigMatch == PackageManager.SIGNATURE\_MATCH;  
 }  
}