How to find out the total memory in Java ME

This article needs to be updated: If you found this article useful, please fix the problems below then delete the {{ArticleNeedsUpdate}} template from the article to remove this warning.

Reasons: lpvalente
(30 Jun 2013)
The article discusses previous Symbian editions, but does not discusses current Asha platforms

This article demonstrates how to find out the total memory available for the device, using Java ME.

The current total heap memory of VM is retrieved using the following code:

```
Runtime runt=Runtime.getRuntime();
long totalMemory = runt.totalMemory();
```

This method however doesn't return all available possible memory in all Java VM implementations like in S60. S60 uses a VM in allocates it's VM heap memory dynamically from operating system. During startup certain amount of heap is reserved but when the memory will be used and the free amount is becoming smaller VM dynamically allocates more heap from OS. The VM also releases unnecessary heap back to operating system. This kind of implementation is important in operating environment with true multitasking capabilities like S60.

In S60 3rd Edition devices there is a system property

```
com.nokia.memoryramfree
```

that can be used to query the available RAM available in the operating system. This is much more reliable estimate of available RAM. Although it should be understood that any other application may use this RAM.

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