For WebSphere v6 Applications running under Linux for zSeries, and VM.

This worksheet accompanies the paper: "How to Architect WebSphere on Linux for zSeries"
This worksheet computes the memory allocations for your production LPAR only.
You may enter data in the green fields.

Step 1

Estimate the memory required for your different WebSphere applications.
Enter the application name in Column A, and the memory estimate in column E.

WebSphere Application Name	Memory Estimate	Linux Guest		
		Guest #	Memory	Swap File
app1	0 MB	1	600 MB	90 MB
	MB		MB	MB
	MB		MB	MB
	MB		MB	MB
	MB		MB	MB
	MB		MB	MB
	MB		MB	MB
	MB		MB	MB
	MB		MB	MB
	MB		MB	MB

Result

Your apps need this much virtual memory:	150 MB
You need this many Linux guests:	1
You need this much total virtual memory:	640 MB

Column H tells you which applications can fit in each guest.
Column I tells you how much memory to allocate for each guest.
Column K tells you the swap file size for each Linux guest.

Assumptions:

WebSphere NodeAgent Overhead	300 MB
Application Server Memory Overhead	150 MB
Maximum size of a Linux Guest	2000 MB
Min memory needed by Linux	150 MB
Min memory needed by VM	40 MB
Linux swap file size, as a % of guest size	15%

Step 2

There is no data you need to enter in this step.
This step shows how the real memory needs to be assigned to the VM LPAR.

Result

Your apps need this much real memory:	400 MB

Assign this much memory to Cstore:	340	MB
Assign this much memory to Estore:	100	MB
You need this much total real memory:	440	MB

Assumptions:

Percentage of LPAR memory for Cstore	75%
Percentage of LPAR memory for Estore	25%
Overcommit ratio for VM memory (X/1)	1.5

END