**Calculate LDOM Memory Size**

#!/bin/sh

### Calculate Total Memory on the Chassis

##

## MAkbar - Solaris Engineering 3/2019

##

##

## Figuring out the total chassis memory can be a bit tricky

## on a system with LDOMs. The typical commands prtconf psrinfo

## only display as expected the ldom attributes.

## This script displays the total system memory and what is being

## used by the LDOMS

##

###

Hw=`prtconf -b |grep banner |cut -d: -f2`

t=0

x=0

## Calculate MB

for i in `sudo ldm list-devices -a memory|awk '{print $2}' |grep -v SIZE|grep -v G |cut -dM -f1`

do

t=`expr $i + $t`

done

# echo "Total MB = $t"

tgb=$(echo "scale=2;$t/1024" |bc )

# echo "Total MB converted to GB = $tgb"

## Calculate Total GB

for j in `sudo ldm list-devices -a memory|awk '{print $2}' |grep -v SIZE|grep -v M |cut -dG -f1`

do

x=`expr $j + $x`

done

# echo "Total GB = $x"

#tt=`expr $tgb + $x`

echo ""

echo "==="

echo "Chassis: $Hw"

echo "==="

### Calculate Total

tt=$(echo "scale=2;$tgb + $x" |bc )

echo "Total System Memory = "$tt"GB"

x=0

for j in `sudo ldm list|awk '{print $6}' |grep -v MEM|grep -v M |cut -dG -f1`

do

x=`expr $j + $x`

done

FreeM=$(echo "scale=2;$tt - $x" |bc)

echo "Total RAM used by all LDOMs = "$x"GB"

echo "Total Free RAM = "$FreeM"GB"