

用Shell脚本获取CPU拓扑关系Linux认证考试 PDF转换可能丢失图片或格式，建议阅读原文

https://www.100test.com/kao_ti2020/644/2021_2022__E7_94_A8S

hell_E8_84_c103_644716.htm 准确说这不是一个问题，因为地球人都知道cat /proc/cpuinfo获取CPU信息。但是，你能从那一大片输出里面立马看出来是多个物理CPU呢，还是多核呢，还是超线程之类的东东么？本文给出一个脚本，通过分析proc来给出一个清晰的答案，本人写的脚本通用性可能比较差，大家根据情况进行修改，基本上在偶这里没啥问题。

先说点基础：/proc/cpuinfo里面：processor表示逻辑CPU号（核或线程）core id表示CPU核号 physical id表示物理CPU号
脚本如下：
cpu_p=`cat /proc/cpuinfo | grep "physical id" | sort | uniq | wc -l`
cpu_c=`cat /proc/cpuinfo | grep "core id" | uniq | wc -l`
cpu_l=`cat /proc/cpuinfo | grep "processor" | wc -l`
c_p=`expr \$cpu_c / \$cpu_p`
l_p=`expr \$cpu_l / \$cpu_p`
t_c=`expr \$cpu_l / \$cpu_c`
echo "Physical CPU Count: \$cpu_p"
echo "CPU Core Count: \$cpu_c"
echo "Logical CPU Count: \$cpu_l"
echo "\$c_p cores per physical CPU"
echo "\$l_p logical CPUs per physical CPU"
echo "\$t_c threads per core"
if [\$c_p -eq 1]; then echo "Your CPU is uncore" else echo "Your CPU is multicore" fi
if [\$t_c -eq 1]; then echo "Your CPU isn't of HT" else echo "Your CPU is of HT" fi
echo "You have \$cpu_p CPUs, each CPU has \$c_p cores, each core has \$t_c threads. In summary \$cpu_c cores, \$cpu_l threads."
100Test 下载频道开通，各类考试题目直接下载。详细请访问
www.100test.com