Related Posts

- View the processes that consume the most CPU, memory, and virtual memory under Linux
- Linux c++ gets the CPU usage and memory usage of the process
- cpustat: Monitor CPU usage according to running processes under Linux
- IOS gets the CPU and memory usage
- Java gets the CPU and memory usage by calling Linux Top Command
- Memory usage of Linux processes
- CPU and memory usage in Linux
- C # Gets cpu usage and memory usage

Popular Posts

- Header size of Oracle datafile on linux file system
- BZOJ3483: SGU505 Prefixes and suffixes (ask online version)
- Form model + installation directory + intrusion form model
- The realization of SSM batch delete and search
- Znejiang University Edition "Python Programming" Topic Collection Chapter
 5-2 Dictionary Representation of Graphs
 (20 points)
- Lecture 6 Set
- JavaWeb. Introduction, Tomcat
- Application login registration function
- Summary of Mini Program
- Development Technology (Continuous convertToNodeSpace and
- JAVA high-precision addition array and Biginteger implementation
- Servlet knowledge point review
- Use ST MCU internal reference voltage to monitor power supply voltage and others
- Reflecting dynamic proxy thread poo
- Android 11 is here, fast! Help me up
- implementation (nearest neighbor,

QProcess gets the CPU and memory usage of processes under Linux

tags: Qt Linux

 principle: Use the system's own ps command and free command to obtain the returned result and parse out the CPU and memory information from it

Execute ps u under the terminal pid The command, pid is the process number, can be obtained by getpid (), such as:

```
[sh]@sh]-ubuntu64 -]$ ps u 1
USER PID %CPU %MEM VSZ RSS TTY STAT START TIME COMMAND
root 1 0.0 0.1 185356 4840 ? SS 6月19 0:03 /sbin/init splash
[sh]@sh]-ubuntu64 -]$ [
```

Execute the free command to get:

```
[shl@shl-ubuntu64 _]$ free used free shared buff/cache available
Mem: 40.6436 1879976 331156 61124 1805304 1722716
Swap: 0 0 0
[shl@shl-ubuntu64 _]$
```

· achieve:

You can start an external process through the start() method provided in QProcess, then wait for the process to complete by calling the waitForFinished() method, and finally read the standard output through the readAllStandardOutput() method

```
cuinxSystemInfo::CuinxSystemInfo()
{
    pid_t pid = getpid();
    m_strCatCpu = QString("ps u %1").arg(pid);
    m_strCatMem = QString("free");
    process = new QProcess;
}

void CuinxSystemInfo::getCpuRate()
{
    process->start(m_strCatCpu);
    process->waitForFinished();
    QByteArray info = process->readAllstandardOutput();
    process->close();
    int index = info.indexof('\n');
    int len = info.length();
    QByteArray cpuInfo = info.right(len - index - 1);
    QByteArray simCpuInfo = cpuInfo.simplified();
    QList(QByteArray) = simCpuInfo.spilt(' ');

qDebug() << "cpu(%):" << l.at(2).toFloat();
}

void CUinxSystemInfo::GetMemeryUsage()
{
    process->tart(m_strCatMem);
    process->waitForFinished();
    QByteArray info = process->readAllstandardOutput();
    process->close();
    QByteArray info = process->readAllstandardOutput();
    process-
```

Related Tags

result

cpu(%): 7.1 TotalPhysical 4016436 dwLeftPhys 208944 dwTotalVirual 0 dwLeftVirual 0

- to sum up: The string obtained by the readAllStandardOutput() method needs to remove extra white
 space characters, including'\n', ", etc., and then split according to spaces, and finally take out the string
 you want from QList<QByteArray> and convert it to the corresponding Types of.
- note: No need to convert QByteArray to QString type.

Intelligent Recommendation



Windows processes memory footprint and CPU usage

During the test, sometimes we need to focus on the case of a process of memory footprint, CPU usage, the number of handles, etc., on a Windows system, using windows built-in performance monitor can ac...



Check server memory, CPU, GPU graphics usage under Lin

1. Check memory usage 1. Use the command: free -m 2. Memory usage: 3. Parameter description: (1) Mem line (units are M): total: total memory used: the number of used memory free: free memory shared: c...

C language under Linux to obtain hard disk, CPU, memory usage

hard disk #include <sys/vfs.h> /* or <sys/statfs.h> */ int statfs(const char *path, struct statfs *buf); int fstatfs(int fd, struct statfs *buf); parameter: path: The file path name (not t...

Raspberry Pi Gets cpu temperature, cpu usage, memory usage

Raspberry pie / proc / folder there are all kinds of virtual file can be used to read a variety of data systems. Here to read the memory usage, CPU usage, CPU temperature demonstration example, implem...

Windows gets CPU, memory and disk usage scripts

Obtain the CPU usage script (vbs) and save it as cpu.vbs: Get the memory usage script (vbs), save as ram.vbs: Obtain disk usage scripts (vbs) and save as hard.vbs. The last batch executes the above sc...

More Recommendation

Android gets CPU, memory, disk usage

Now more and more garbage in the forum, 30 points for two small functions, still a code porter, some big gods have worked hard to encapsulate it for free, this kind of garbage handling a few lines of ...



Linux queries the processes that occupy the most memory or CPU

1. You can use the following command to check the 10 processes using the most memory method 1: If it is the highest three, 10 can be changed to 3 Command explanation: 1. ps: The parameter a refer...

Linux records the CPU usage of historical processes

Before taking process takes 10 processes cpu / memory under linux highes t

The process takes up to take the top 10 at # linux process cpu Take process memory (MEM) at # linux highest first 10 process Reproduced in: https://my.oschina.net/redhat1520/blog/525641...



Linux - The view CPU and memory usage

Linux view CPU and memory usage A, top command Two, ps command Three, pamp command Four, free command A, top command top command is commonly used under Linux performance analysis tools, it can display...

Copyright 2018-2021 - All Rights Reserved - www.programmersought.com

TOP