修改于 2020-06-16 17:25:39 🗸 **◎** 15K ... O △ 举报 🔐 ux越来越容易上手和使用,其用户越来越多,**如何在Linux下测试CPU/GPU等性能呢**?同时,*基准测试和压力测试方法通常用于评估电脑的性能,这些测试还* 有助于发现仅在系统承受重负载时才观察到的硬件问题和系统异常。

HardInfo

安装命令: sudo apt install hardinfo 使用新立得或者软件中心都是可以的。

System Profiler and Benchmark

Ubuntu Linux CPU GPU 性能测试 原甸

\*\*\*\* (54) System Profiler and Benchmark Displays system information 移除(R) HardInfo 是一个显示硬件和操作系统信息的小程序。目前可以识别 PCI、ISA PnP、 USB、IDE、SCSI、串口和并口设备。 网站(W) 详细信息 0.5.1+git20180227-2 版本 已更新 未知 专有软件 许可协议 ubuntu-focal-universe 安装大小 877.6 kB 评论 48 54 评分总计 编写评论(W) ros@ros:~\$ sudo apt install hardinfo [sudo] ros 的密码: 正在读取软件包列表... 完成 正在分析软件包的依赖关系树 正在读取状态信息... 完成 将会同时安装下列软件: lm-sensors 建议安装:

fancontrol read-edid i2c-tools 下列【新】软件包将被安装: hardinfo lm-sensors 升级了 0 个软件包,新安装了 2 个软件包,要卸载 0 个软件包,有 1 个软件包未被升级。 需要下载 406 kB 的归档。 解压缩后会消耗 1,283 kB 的额外空间。 您希望继续执行吗? [Y/n] y 获取:1 http://mirrors.aliyun.com/ubuntu focal/universe amd64 hardinfo amd64 0.5.1+git20180227-2 [319 kB] 获取:2 http://mirrors.aliyun.com/ubuntu focal/universe amd64 lm-sensors amd64 1:3.6.0-2ubuntu1 [87.4 kB] 已下载 406 kB, 耗时 1秒 (719 kB/s) 正在选中未选择的软件包 hardinfo。 (正在读取数据库 ... 系统当前共安装有 289022 个文件和目录。) 准备解压 .../hardinfo\_0.5.1+git20180227-2\_amd64.deb ... 正在解压 hardinfo (0.5.1+git20180227-2) ... 正在选中未选择的软件包 lm-sensors。 准备解压 .../lm-sensors\_1%3a3.6.0-2ubuntu1\_amd64.deb ... 正在解压 lm-sensors (1:3.6.0-2ubuntu1) ... 正在设置 hardinfo (0.5.1+git20180227-2) ... 正在设置 lm-sensors (1:3.6.0-2ubuntu1) ... Created symlink /etc/systemd/system/multi-user.target.wants/lm-sensors.service → /lib/systemd/system/lm-sensors.service. 正在处理用于 mime-support (3.64ubuntu1) 的触发器 ... 正在处理用于 gnome-menus (3.36.0-1ubuntu1) 的触发器 ... 正在处理用于 systemd (245.4-4ubuntu3.1) 的触发器 ... 正在处理用于 man-db (2.9.1-1) 的触发器 ... 正在处理用于 desktop-file-utils (0.24-1ubuntu3) 的触发器 ...

Hardinfo是Linux的图形实用程序,可显示有关PC中各种硬件组件的信息,例如处理器,RAM模块,传感器,硬盘驱动器等。它还支持以txt或html格式导出有关您

ros@ros: ~

ThinkPad\_S2\_3rd\_Gen\_\_\_20L1A001CD\_(LENOVO);Intel(R)\_Core(TM)\_i5\_8250U\_CPU\_\_\_1\_60G Hz;27200\_00=1.570947; 1.570947; 8|8|ThinkPad S2 3rd Gen / 20L1A001CD (LENOVO)|In tel(R) Core(TM) i5-8250U CPU @ 1.60GHz|1 physical processor; 4 cores; 8 threads|

8x 3400.00 MHz|32779508|1|4|8|Mesa Intel(R) UHD Graphics 620 (KBL GT2)

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除了显示有关系统的常规信息外,HardInfo还提供了一些基准测试工具来衡量您的硬件性能。就CPU基准测试而言,它包括五种方法: CPU Blowfish,CPU

的系统的详细报告,以便可以与朋友共享,与其他系统进行比较或将其用于调试目的。

CryptoHash, CPU斐波那契, CPU N-Queens和CPU Zlib。

ros@ros:~\$ hardinfo

[CPU Blowfish]

[FPU FFT]

使用: hardinfo

FI.

ThinkPad\_S2\_3rd\_Gen\_\_\_20L1A001CD\_(LENOVO);Intel(R)\_Core(TM)\_i5\_8250U\_CPU\_\_\_1\_60G Hz;27200\_00=1.005657; 1.005657; 4|4|ThinkPad S2 3rd Gen / 20L1A001CD (LENOVO)|In tel(R) Core(TM) i5-8250U CPU @ 1.60GHz|1 physical processor; 4 cores; 8 threads| 8x 3400.00 MHz|32779508|1|4|8|Mesa Intel(R) UHD Graphics 620 (KBL GT2)

System Information Refresh 🖟 Generate Report Copy to Clipboard Computer → Summary

Memory SPD . Interfaces Routing Table ARP Table DNS Servers Statistics - Benchmarks CPU Blowfish CPU CryptoHash CPU Fibonacci CPU N-Queens Benchmarks - CPU Blowfish - System Information Information View Help Refresh 🖟 Generate Report Copy to Clipboard @ Boots 10.84 Intel(R) Pentium(R) D CPU 3.00GHz AMD Turion(tm) 64 X2 Mobile Technology TL-56 2x 800.00 MHz 10.79 Filesystems

AMD Athlon(tm) 64 X2 Dual Core Processor 3800+ 2x 2200.00 MHz

AMD Turion(tm) 64 X2 Mobile Technology TL-58 2x 1900.00 MHz

AMD Turion(tm) 64 X2 Mobile Technology TL-62 2x 800.00 MHz

AMD Athlon(tm) 64 X2 Dual Core Processor 4800+ 2x 2512.00 MHz

Intel(R) Core(TM)2 Dua CPU P8400@ 2.26GHz 2x 2260.00 MHz

AMD Athlon(tm) 64 X2 Dual Core Processor 4400+ 2x 1000.00 MHz AMD Athlon(tm) 64 X2 Dual Core Processor 5000+ 2x 1000.00 MHz

Intel(R) Core(TM)2 Extreme CPU X7900@ 2.80GHz 2x 2800.00 MHz

Intel(R) Core(TM)2 Duo CPU T9400@ 2.53GHz 2x 2530.00 MHz

AMD Athlon(tm) 64 X2 Dual Core Processor 6400+ 2x 1000.00 MHz

AMD Phenom(tm) 8650 Triple-Core Processor 3x 2300.00 MHz

AMD Phenom(tm) 9750 Quad-Core Processor 4x 1200.00 MHz

Intel(R) Core(TM)2 Quad CPUQ6700@ 2.66GHz 4x 2669.00 MHz

2x 1595.00 MHz

2x 1900.00 MHz

2x 1733.00 MHz

2x 2161.00 MHz

2x 1862.00 MHz

2x 600.00 MHz

2x 2667.00 MHz

2x 2997.00 MHz

4x 800.00 MHz

Genuine Intel(R) CPU2140@ 1.60GHz

AMD Athlon(tm) X2 Dual-Core OL-60

Intel(R) Pentium(R) DualCPUT2370@ 1.73GHz

Intel(R) Core(TM)2 CPU T7400@ 2.16GHz

AMD Turion(tm) X2 Dual-Core Mobile RM-74

AMD Athlon(tm) 7750 Dual-Core Processor

Intel(R) Core(TM)2 Duo CPU E8400@ 3.00GHz

Intel(R) Core(TM)2 Quad CPUQ9550@ 2.83GHz

Benchmarks - FPU FFT - System Information

AMD Phenom(tm) II X4 940 Processor

ThinkPad 52 3rd Gen / 20L1A001CD (LENOVO)

Intel(R) Core(TM) iS-8250U CPU @ 1.60GHz

OpenGL Renderer Mesa Intel(R) UHD Graphics 620 (KBL GT2)

Intel(R) Core(TM)2 CPU6700@ 2.66GHz

Intel(R) Xeon(R) CPU3040@ 1.86GHz

10.67

10.59

10.10

9.58

6.42

5.96

5.54

 Benchmark Result Threads

CPU Name

CPU Description

▼ Machine Board

ag Groups Devices Processor

Display

a Users

Environment Variables

Refresh 🖟 Generate Report Copy to Clipboard Boots CPU Config
AMD Athlon(tm) 64 X2 Dual Core Processor 4000+ 2x 1000.00 MHz Results Languages AMD Turion(tm) 64 X2 Mobile Technology TL-62 2x 800.00 MHz Filesystems Intel(R) Pentium(R) 4 CPU 3.06GHz Display Intel(R) Pentium(R) 4 CPU 3.06GHz Environment Variables AMD Athlon(tm) 64 X2 Dual Core Processor 4400+ 2x 1000.00 MHz Development Intel(R) Core(TM)2 CPU T5200@ 1.60GHz 🧶 Users Intel(R) Core(TM)2 Duo CPU T5250@ 1.50GHz 2x 1500.00 MHz 🤽 Group: 2x 2000.00 MHz Intel(R) Pentium(R) DualCPUT3200@ 2.00GHz Genuine Intel(R) CPU2140@ 1.60GHz 2x 1595.00 MHz Processor Intel(R) Core(TM)2 CPU4300@ 1.80GHz 2x 1800.00 MHz Memory Intel(R) Core(TM) Duo CPUT2350@ 1.86GHz 2x 1867.00 MHz PCI Devices AMD Processor model unknown 2x 3006.00 MHz Genuine Intel(R) CPU T2080gp 1.73GHz 2x 1730.00 MHz Printers Intel(R) Core(TM)2 CPU6320@ 1.86GHz 2x 1860.00 MHz **Battery** Intel(R) Core(TM)2 Duo CPU P7350@ 2.00GHz 2x 2000.00 MHz Sensors Intel(R) Core(TM)2 CPU6400@ 2.13GHz 2x 2128.00 MHz Input Devices Pentium(R) Dual-Core CPU T4200@ 2.00GHz 2x 2000.00 MHz Storage Intel(R) Core(TM) Duo CPUT2450@ 2.00GHz DMI Intel(R) Core(TM)2 Duo CPU T5750@ 2.00GHz Memory SPD Intel(R) Core(TM)2 Dua CPU T7250@ 2.00GHz Intel(R) Core(TM)2 CPU6600@ 2.40GHz Resources Intel(R) Core(TM)2 Duo CPU T9500@ 2.60GHz 2x 2593.00 MHz Retwork Intel(R) Core(TM)2 Extreme CPU X7900@ 2.80GHz 2x 2800.00 MHz 3.06 Intel(R) Core(TM)2 Quad CPU @ 2.40GHz 4x 2400.00 MHz -# | IP Connections Intel(R) Core(TM)2 Quad CPUQ8300@ 2.50GHz 4x 2497.00 MHz Routing Table 1.63 Intel(R) Core(TM)2 Quad CPUQ6600@ 2.40GHz 4x 2400.00 MHz ARP Table Intel(R) Core(TM)2 Quad CPUQ9400@ 2.66GHz 4x 2660.00 MHz **ONS Servers Statistics** Shared Directories Benchmarks CPU Blowfish ThinkPad 52 3rd Gen / 20L1A001CD (LENOVO) Board CPU CryptoHash **CPU Name** Intel(R) Core(TM) i5-8250U CPU @ 1.60GHz CPU Fibonacci 1 physical processor; 4 cores; 8 threads CPU Description CPU Config 8x 3400.00 MHz @ CPU Zlib Threads Available 8 OpenGL Renderer Mesa Intel(R) UHD Graphics 620 (KBL GT2) FPU Raytracing 32779508 kiB GPU Drawing

ros@ros: ~

lick anials

1 (14)

ROS2GO

ROS2GO

ROS2GO

Powered By TIANBOT

leaven

Powered By TIANBOT

Powered By TIANBOT

这些软件各有特点,都是一些免费的开源实用程序,可以在系统上运行CPU基准测试。

sudo apt-get install mesa-utils

Hello, ROS 1.0 or ROS 2.0? 1-moetic 2-foxy Non-ROS
ros@ros:-S glxgears
Running synchronized to the vertical refresh. The framerate should be approximately the same as the nonltor refresh rate.

333 frames in 5.0 seconds = 60.465 FPS
381 frames in 5.0 seconds = 60.801 FPS
380 frames in 5.0 seconds = 60.800 FPS
380 frames in 5.0 seconds = 59.999 FPS
380 frames in 5.0 seconds = 60.800 FPS
381 frames in 5.0 seconds = 60.800 FPS
381 frames in 5.0 seconds = 60.802 FPS
XIO: fatal IO error 62 (Timer expired) on X server ":0"
after 1986 requests (81 known processed) with 0 events remaining.
ros@ros:-S

rosgros:-5 glxgears
Running synchronized to the vertical refresh. The framerate should be approximately the same as the nonlior refresh rate.
392 frames in 5.0 seconds = 78.396 FPS
380 frames in 5.0 seconds = 60.000 FPS

sudo apt-get install glmark2

glnark2 2014.03+glt20150611.fa71af2d

GL\_VENDOR: Intel
GL\_RENDERER: Mesa Intel(R) UHD Graphics 620 (KBL GI2)
GL\_VERSION: 4.6 (Compatibility Profile) Mesa 28.8.4

ideas in

ros@ros: ~

[pulsar] light-false:quads-5:texture-false: FPS: 2840 FrameTime: 0.351 ms
[desktop] blur-radius=5:effect=blur:passes=1:separable=true:windows=4: FPS: 1137
FrameTime: 0.880 ms
[desktop] effect=shadow:windows=4: FPS: 1882 FrameTime: 0.531 ms
[buffer] columns=200:interleave=false:update-dispersion=8.9:update-fraction=0.5:
update-method=map: FPS: 757 FrameTime: 1.321 ms
[buffer] columns=200:interleave=false:update-dispersion=8.9:update-fraction=0.5:
update-method=subdata: FPS: 595 FrameTime: 1.681 ms
[buffer] columns=200:interleave=true:update-dispersion=0.9:update-fraction=0.5:update-method=map: FPS: 855 FrameTime: 1.170 ms
[ideas] speed=duration:

ouild] use-vbo-false: FPS: 2420 FrancTime: 0.413 ms ouild] use-vbo-true:[]

OpenGL Information

glmark2

GL mark是更加丰富的基准测试工具。与glxgears相反,glmark提供了一系列涉及图形单元性能各个方面(缓冲,建筑物,照明,纹理等)的测试,从而可以进行

6月16日 Tuesday,16:33

ROS2GO Q = \_ u 🔞 [shading] shading-phong: FPS: 2841 FrameTime: 0.352 ms
[shading] shading-cel: FPS: 2514 FrameTime: 0.388 ms
[bunp] bunp-render=high-poly: FPS: 2058 FrameTime: 0.488 ms
[bunp] bunp-render=hought: FPS: 2871 FrameTime: 0.388 ms
[bunp] bunp-render=height: FPS: 2871 FrameTime: 0.384 ms
[bunp] bunp-render=height: FPS: 2871 FrameTime: 0.384 ms
[effect2d] kernel=0,1,0;1,-4,1;0,1,0;: FPS: 2016 FrameTime: 0.496 ms
[effect2d] kernel=1,1,1,1;1,1,1,1,1,1,1,1,1;: FPS: 1171 FrameTime: 0.884 ms
[pulsar] light=false:quads=5:texture=false: FPS: 2846 FrameTime: 0.351 ms
[desktop] blur-radius=5:effect=blur:passes=1:separable=true:windows=4: FPS: 1137
FrameTime: 0.880 ms
[desktop] effect=shadow:windows=4: Powered By TIANBOT

抗锯齿级别, 纹理质量和过滤, 各向异性和着色器质量。除了点击"基准"按钮(将分十步全面测试硬件)之外, 还可以自由地四处游荡, 更改一天中的时间(这会 改变世界的照明条件)并准确确定最"弯曲"硬件的条件。 UNIGINE Benchmarks × + BENCHMARKS▼ LEADERBOARDS CONTACTS ABOUT SUPERPOSITION VALLEY HEAVEN TROPICS (Legacy) ■N SANCTUARY (Legacy) Put your PC under FAIR GPU BENCHMARKS maximum load and measure the real performance!

VALLEY

**SUPERPOSITION** 

如有侵权, 请联系 cloudcommunity@tencent.com 删除。 腾讯云测试服务 linux apt-get bash

Termius是可在台式机和移动设备上运行的SSH客户端

Unigine Benchmark 测试工具 最后,对于寻求比前两个工具更高级的东西的用户,有四个使用Unigine 3D引擎的基准测试工具。这些是Superposition,Valley,Heaven,Tropics和Sanctuary, 提供免费版本。这些基准测试工具拥有实时的环境光遮挡,来自不同光源的相互作用光,HDR渲染,逼真的水以及带有大气光散射的动态天空。用户还可以设置 鹽之

bash 指令

原创声明: 本文系作者授权腾讯云开发者社区发表, 未经许可, 不得转载。 评论

🗱 Operating System Ubuntu 20.04 LTS @ Boots Languages Intel(R) Core(TM) I5-8250U CPU @ 1.60GHz 1 physical processor; 4 cores; 8 threads Display RAM-Environment Variables Development Motherboard— ThinkPad 52 3rd Gen / 20L1A001CD (LENOVO) a Users Devices Mesa Intel(R) UHD Graphics 620 (KBL GT2) The X.Org Foundation Processor USB Devices Printers Printers— Battery Input Devices ThinkPad EC - ThinkPad Console Audio Control Storage DMI R Network

PCI Devices USB Devices Printers Input Devices \_\_ Storage DMI Memory SPD Resources Retwork . Interfaces - IP Connections Routing Table ARP Table DNS Servers Shared Directories Benchmarks CPU CryptoHash ∠ CPU Zlib

EPU FFT

EPU FFT FPU Raytracing GPU Drawing

GPU主要为2D, 此处忽略。

除此之外, 还有:

· Sysbench: sudo apt install sysbench

Stress: sudo apt install stress

S-tui: sudo apt install s-tui stress

这将打开一个窗口,其中包含三个旋转齿轮的简单排列的OpenGL渲染。每五秒钟测量一次帧速率并在终端上打印出来。该工具非常老旧,非常基础,仅测试了当 今OpenGL功能的一小部分。过去,它用于确定专有驱动程序是否已安装并正常运行,因为开放源代码驱动程序的性能足够好,以至于在此测试中完全可以通过。 如今,不会在glxgears中注意到两者之间的任何区别。

更全面,更有意义的测试。每次测试进行10秒钟,并分别计算帧频。最后,用户会根据之前的所有测试获得性能得分。此工具具备简单性和完美的操作。可以在大 多数发行版中以"glmark2"的名称找到它作为预制软件包。 安装: 使用:

GL Mark 2

 最小的Sanctuary, 2007年推出, Linux包只有28MB; 最大的Superposition, 2017年推出, Linux包已经达到1564MB。

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系统信息: Summary Operating System

CPU:

FPU: Information View Help

Linux并非以其游戏能力和可能性而闻名,自然而然,没有太多可供用户用来测试其图形硬件的GPU基准测试工具。但是,有些基准测试套件可以帮助精确确定 GPU性能的各个方面。这些对于得出可靠的结论,技术和数值比较,或者对于满足事物的工作原理非常重要。从技术上讲,Linux中所有可用的GPU基准测试工具 当然只能在OpenGL渲染器下进行测试。尽管GPU可能与某些版本的Direct3D兼容,但无法在Linux下测试此渲染器。 **GLX-Gears** GLX gears是一种流行的OpenGL测试,它是" mesa-utils"软件包的一部分。 安装:

使用:

glxgears