GasSenserOS CMDControlPanel Instruction GasSenserOS终端指令说明

概述 - Overview

该终端指令系统是为了方便用户使用GasSenserOS操作系统而设计的.

The terminal instruction system is designed for the convenience of users using the GasSenser Operating System.

pwd

显示当前工作目录的路径.

Print work directory.

参数 - Parameters

NULL

示例 - Example

1 > pwd

2 /Users/username/documents

1s

列出当前工作目录中的所有文件和目录.

Lists all files and directory in the current work directory.

参数 - Parameters

NULL

示例 - Example

1 > pwd

2 /

3 > 1s

4 /file1.txt

5 /file2.txt

6 /directory1

7 /directory2

cd [dirName]

将工作目录切换到指定的目录.

Change work directory.

参数 - Parameters

dirName

目标目录名.

Target directory name.

示例 - Example

1 > cd /directory1

cat [fileName]

打开当前工作目录中指定的文件.

Open the file in the work directory.

参数 - Parameters

fileName

工作目录下的目标文件名.

Target filename in the work directory.

示例 - Example

1 > cat file1.txt

2 This is the content of file1.

touch [fileName]

在当前工作目录中创建一个空文件.

Create an empty file in the work directory.

参数 - Parameters

fileName

工作目录下的目标文件名.

Target filename in the work directory.

示例 - Example

1 > touch file3.txt

mkdir [dirName]

在当前工作目录中创建一个新目录.

Create a directory under the work directory.

参数 - Parameters

diename

工作目录下的目标目录名.

Diename in the work directory.

示例 - Example

1 > mkdir new_directory

echo [string]

在命令行界面中输出指定的字符串. Prints the specified string in CMD.

参数 - Parameters

string

要打印的字符串.

The string to print.

示例 - Example

1 > echo HelloWorld!

2 Helloworld!

echo [string] > [fileName]

将字符串覆盖到工作目录的指定文件中.

Overwrites the string into the file in the work directory

参数 - Parameters

string

提供一个字符串.

Provide a string.

fileName

工作目录下的目标文件名.

fileName in the work directory.

示例 - Example

```
1 > touch file1.txt
```

- 2 > echo SEELE > file1.txt
- 3 > echo God's_in_his_heaven.All's_right_with_the_world. > file1.txt
- 4 > cat file1.txt
- 5 God's_in_his_heaven.All's_right_with_the_world.

echo [string] >> [fileName]

将字符串追加到工作目录的指定文件中.

Appends a string to the file in the work directory.

参数 - Parameters

string

提供一个字符串.

Provide a string.

fileName

工作目录下的目标文件名.

fileName in the work directory.

示例 - Example

```
1  > touch file1.txt
2  > echo NERV > file1.txt
3  > echo \nGod's_in_his_heaven.All's_right_with_the_world. >> file1.txt
4  > cat file1.txt
5  NERV
6  God's_in_his_heaven.All's_right_with_the_world.
```

rm [fileName]

删除当前工作目录中指定的文件。

Remove files in the work directory.

参数 - Parameters

fileName

工作目录下的目标目录名.

fileName in the work directory.

示例 - Example

```
1  > ls
2  file1.txt
3  file2.txt
4  > rm file1.txt
5  > ls
6  file2.txt
```

rm -r [dirName]

删除当前工作目录中指定的目录及其下所有文件和子目录.

Remove a directory in a work directory and all files and subdirectories under it

参数 - Parameters

dirName

工作目录下的目录名.

dirName in the work directory.

```
1  > ls
2  directory1
3  directory2
4  > rm -r directory1
5  > ls
6  directory2
```

cp [sourceFilePath] [targetFilePath]

将指定文件复制到另一个目标路径中.

Copies the specified file to another destination path.

参数 - Parameters

sourceFilePath

源文件路径.

source file path.

targetFilePath

目标文件路径.

target file path.

示例 - Example

cp -r [sourceDirPath] [targetDirPath]

将指定目录及其这个目录下的所有内容复制到另一个目标目录中.

Copies the specified directory and everything in that directory to another target directory.

参数 - Parameters

sourceDirPath

源目录路径.

source directory path.

targetDirPath

目标目录路径.

target directory path.

mv [sourceFilePath] [targetFilePath]

将指定文件移动到另一个目标路径中. Move file.

参数 - Parameters

sourceFilePath

源文件路径.

Source file path.

targetFilePath

目标文件目录.

Target file path.

示例 - Example

```
1 | > cd /
2 | > ls
3    file1.txt
4    folder
5    > mv /file1.txt /folder/file1_move.txt
6    > ls
7    folder
8    > cd /folder
9    > ls
10    file1_move.txt
```

mv -r [sourceDirPath] [targetDirPath]

将指定目录及其下所有文件和子目录移动到另一个目标路径中. *Move directory.*

参数 - Parameters

sourceDirPath

源目标路径.

Source directory path.

targetDirPath

目标目录路径.

Target directory path.

find [dirPath] [fileName]

在指定目录下递归的查找符合指定文件名或通配符的文件.

Find files in the directory.

参数 - Parameters

dirPath

目标目录路径.

Target directory path.

fileName

目标文件名或通配符.

Target filename or wildcard.

说明 - Explain	通配符 - Wildcard
找出所有文件. Find all files.	*.*
找出所有后缀为 txt 的文件. Find all files with the suffix txt.	*.txt
找出名称为 name.txt 的特定文件. Find the specific file with the name name.txt.	name.txt

osinfo

显示操作系统版本信息.

Display operating system version information.

参数 - Parameters

null

示例 - Example

1 | > osinfo

2 GasSensorGen3 OS

Build: GS.20230130.Mark0
Update: github.com/RMSHE-MSH

5 Hardware: GS.Gen3.20230110.Mark1

6 Powered by RMSHE

7 E-mail: asdfghjkl851@outlook.com

reboot

MCU再启动

MCU reset.

参数 - Parameters

nu11

示例 - Example

 $1 \mid \mathsf{>} \mathsf{reboot}$

pios

打印GPIO状态.

Print GPIO status.

参数 - Parameters

null

```
> pios
1
2
    RST=1
3
   TXD=1
   RXD=0
5
   SCL=0
6
   SDA=0
7
   CHRG=0
   LOWPOWER=1
9
   SENOUT=1
10 Decoder_C=1
11 Decoder_B=0
12 Decoder_A=0
13 Decoded_with=BlueLED_Enable
```

pss

打印系统状态.

Print System status.

参数 - Parameters

null

示例 - Example

```
1  > pss
2  Charging_State = false
3  WIFI_State = true
4  Developer_Mode = false
5  allowResponse = true
6  allowDownloadMode = true
7  freezeMode = false
8  diskMode = false
9  CMDCP_State = true
```

led [color] [state]

控制RGB_LED的开关.

Control RGB LED on and off.

参数 - Parameters

color

指定LED颜色,红:ror绿:gor蓝:b.

Specify LED color, red: r or green: g or blue: b.

state

设置LED的状态, 点亮LED: 1 or true or enable, 熄灭LED: 0 or false or disable.

Set LED state, light LED: 1 or true or enable, extinguish LED: 0 or false or disable.

```
1  > led r 1
2  > led g true
3  > led b enable
4  > led r 0
5  > led g false
6  > led b disable
```

buzz [state]

控制蜂鸣器的开关状态.

Controls the status of the buzzer.

参数 - Parameters

state

设置蜂鸣器的状态, 打开: 1 or true or enable, 关闭: 0 or false or disable.

Set buzzer state, on: 1 or true or enable, off: 0 or false or disable.

示例 - Example

alertdis

禁用警报(停止所有警报).

Alert disable(Stop all alarms.)

参数 - Parameters

null

示例 - Example

```
1 > alertdis // All alarms shut down.
```

freeze [state]

控制设备进入浅度休眠模式.

Controls the device to enter freeze sleep mode.

参数 - Parameters

state

设置浅度休眠状态,进入浅度休眠: 1 or true or enable,离开浅度休眠: 0 or false or disable.

Set buzzer state, Enter: 1 or true or enable, Leave: 0 or false or disable.

```
1 > freeze 1 // Enter freeze mode.
2 > freeze 0 // Leave freeze mode.
```

disk [time_us]

控制设备进入深度睡眠模式.

Control the device into deep sleep mode.

参数 - Parameters

time_us

设备深度睡眠时长, 取值范围为1到4294967295微秒, 取0时设备不会自行唤醒.

The deep sleep duration of the device ranges from 1 to 4294967295 microseconds. The device will not wake up by itself when the value is 0.

注解 - Remarks

- 1. 进入深度睡眠前, 系统会自动进行断点状态备份, 当MCU唤醒时系统会恢复上一次深度睡眠前的系统状态.

 Before entering deep sleep, the system will automatically perform breakpoint state backup, and when MCU wakes up, the system will restore the system state before the last deep sleep.
- 2. 当 time_us 为 0 时, 系统将永久处于深度睡眠状态, 只能通过手动的物理复位唤醒.

 When time_us is 0, the system is permanently in deep sleep and can only be awakened by manual physical reset.

示例 - Example

history

显示之前执行过的所有命令,显示内容包括执行命令时的: IP地址,时间,命令.

Show command history. Including the IP address, time, and command when the command is executed.

参数 - Parameters

nu11

示例 - Example

history -s

显示深度睡眠前执行过的所有命令,显示内容包括执行命令时的: IP地址,时间,命令.

All commands executed before deep sleep are displayed, including the IP address, time, and command when the command is executed.

参数 - Parameters

null

示例 - Example

```
1 > history -s
2  192.168.1.1-20230521131000-osinfo
3  192.168.1.1-20230521131100-disk 3000000
4  192.168.1.1-20230521131200-mv /file1.txt /folder/file1_move.txt
5  192.168.1.1-20230521131300-history
```

history -c

清除命令历史记录.

Remove command history.

参数 - Parameters

nu11

示例 - Example

```
1 > history -c
```

who

查看已登录当前主机的用户终端的IP地址.

View the IP address of the user terminal logged into the current host.

参数 - Parameters

null

示例 - Example

```
1 > who
2 192.168.1.1
3 192.168.1.2
4 192.168.1.3
```

last

查看系统登录日志(IP地址, 登入时间, 登出时间).

View system login logs(IP address, login time, logout time).

参数 - Parameters

null

示例 - Example

```
1 > last
2 192.168.1.1-20230521131000-login
3 192.168.1.1-20230521161000-logout
```

last -c

清除系统登录日志.

Remove system login logs.

参数 - Parameters

null

示例 - Example

```
1 > last -c
```

date

显示系统本地时间.

Displays the system local time.

参数 - Parameters

null

示例 - Example

```
1 > date
2 20230521131000
```

date -n

同步网络时间.

Synchronize network time.

参数 - Parameters

null

- 1 > date 2 19700101000000 3 > date -n
- 4 > date
- 5 20230521175800

date -s [timeStr]

设置系统时间.

Set system time

参数 - Parameters

timeStr

提供时间格式为: 年月日时分秒(例如: 20230521175800)

The time format is YYMMDDHHMMSS(Example: 20230521175800).

示例 - Example

- 1 > date
- 2 19700101000000
- 3 > date -s 20230203121601
- 4 > date
- 5 20230203121601

clear

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清空控制台并释放内存. Clear console and free memory.

清空控制台输出并释放内存.

Clear console output and free memory.

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参数 - Parameters

null

示例 - Example

1 > clear

df

显示闪存(Flash)信息.

Display Flash information.

参数 - Parameters

null

示例 - Example

free

显示剩余的RAM.

Display remaining RAM.

参数 - Parameters

nu11

示例 - Example

```
1 > free
2 FreeRAM:34536 Byte
```

wifi [SSID] [PASSWORD]

配置WIFI连接,设置WIFI SSID和 PASSWORD.

Configure WIFI connection, set WIFI SSID and PASSWORD.

参数 - Parameters

SSTD

设置WIFI服务集标识(WiFi名称).

Set WIFI Service Set Identifier(WIFI Name).

PASSWORD

设置WIFI密码.

Set WIFI Password

示例 - Example

```
1 | > wifi RMSHE 114514
```

poweroff

进行无限期的深度休眠(只能通过手动的物理复位唤醒).

Perform infinite deep sleep(Can only be awakened by manual physical reset).

参数 - Parameters

null

示例 - Example

1 > poweroff

logout

登出并锁定CMDCP

Log out and lock CMDCP.

参数 - Parameters

null

示例 - Example

1 > logout

logout -k [clientIP]

登出指定IP地址的终端.

Logout of the terminals with the specified IP address.

参数 - Parameters

clientIP

指定用户IP地址.

Specify the client IP address.

示例 - Example

1 > logout -k 192.168.1.100

logout -k other

登出除自己外的其他所有终端,

Log out all terminals except yourself.

参数 - Parameters

null

示例 - Example

1 > logout -k other

logout -k all

登出所有终端(包括你自己).
Iogout of all terminals(Including yourself).

参数 - Parameters

null

示例 - Example

 $1 \mid > logout -k all$