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教程

工控配置

qt启动命令及代码启动命令

创建qtcreator启动脚本 (可sudo)

#!/bin/bash # command content sudo /opt/Qt5.12.2/Tools/QtCreator/bin/qtcreator.sh exit 0

创建视觉代码启动脚本

#!/bin/bash
command content
sudo ~/build-rm_vision-Desktop_Qt_5_12_2_GCC_64bit-Debug/rm_vision
exit 0

串口及摄像头映射

通用设置(串口及摄像头映射配置/etc/udev/rules.d中的udev文件,分别实现STM32设备虚拟串口和激光雷达的设备绑定:

首先连接STM32设备的虚拟串口, lsusb 可以查看Vendor和Product的ID,然后创建并配置/etc/udev/rules.d/roborts.rules文件

查看详细

udevadm info --attribute-walk --name=/dev/video0

如果是廉价相机,可能串口号也相同,可以由连接HUB的物理端口不同(KERNEL或KERNELS绑定)来配置,例如:

SUBSYSTEM=="usb", KERNEL=="2-3", ATTR{idVendor}=="1871", ATTR{idProduct}=="0101", MODE:="0777",SYMLINK+="camera0" SUBSYSTEM=="usb", KERNE

实例:

#KERNEL=="video*", ATTRS{idVendor}=="15aa", ATTRS{idVendor}=="1555", MODE:="0777", SYMLINK+="camera" KERNEL=="ttyUSB*", ATTRS{idVendor}=="10cKERNELS=="1-1.2", KERNEL=="video*", MODE:="0777", SYMLINK+="camera6mm" KERNELS=="1-1.2", KER

sudo service udev reload sudo service udev restart

重启配置rules文件映射,运行玩上述两个命令后,拔插设备后即重映射。

工业相机配置

大恒工业相机驱动 链接: https://pan.baidu.com/s/1SE0g6eLXIQkHIJQKvenKrw 提取码: r3zf 复制这段内容后打开百度网盘手机App,操作更方便哦

1. pro 修改路径

LIBS += -lgxiapi -ldximageproc
#-L/home/nyx/dhcam_install_20181107/dh_camera/daheng-sdk-x64/sdk/genicam/bin/Linux64_x64
#-L\$(GENICAM_ROOT_V2_3)/bin/Linux64_x64
#-IGCBase_gcc40_v2_3 -lGenApi_gcc40_v2_3 -llog4cpp_gcc40_v2_3 -lLog_gcc40_v2_3 -lMathParser_gcc40_v2_3\
#INCLUDEPATH += (GENICAM_ROOT_V2_3)/library/CPP/include
#INCLUDEPATH += (GENICAM_ROOT_V2_3)/../../sdk/include

INCLUDEPATH += /home/nyx/dhcam_install_20181107/dh_camera/daheng-sdk-x64/sdk/genicam/library/CPP/include
INCLUDEPATH += /home/nyx/dhcam_install_20181107/dh_camera/daheng-sdk-x64/sdk/include

2.设置环境变量(若qt驱动失败,需要此步) env 命令查看工业相机环境

sudo gedit /etc/environment

例如:

GENICAM_CACHE_V2_3="/local/daheng/genicam_xml_cache"

GENICAM_ROOT_V2_3="/home/oem/dhcam_install_20181107/dh_camera/daheng-sdk-x64/sdk/genicam"

GENICAM_GENTL64_PATH="/usr/lib"

LD_LIBRARY_PATH=" /usr/local/lib :/home/oem/dhcam_install_20181107/dh_camera/daheng-sdk-x64/sdk/genicam/bin/Linux64_x64:/home/oem/dhcam_install_20181107/dh_camera/daheng-sdk-x64/sdk/genicam/bin/Linux64_x64:/home/oem/dhcam_install_20181107/dh_camera/daheng-sdk-x64/sdk/genicam/bin/Linux64_x64:/home/oem/dhcam_install_20181107/dh_camera/daheng-sdk-x64/sdk/genicam/bin/Linux64_x64:/home/oem/dhcam_install_20181107/dh_camera/daheng-sdk-x64/sdk/genicam/bin/Linux64_x64:/home/oem/dhcam_install_20181107/dh_camera/daheng-sdk-x64/sdk/genicam/bin/Linux64_x64:/home/oem/dhcam_install_20181107/dh_camera/daheng-sdk-x64/sdk/genicam/bin/Linux64_x64:/home/oem/dhcam_install_20181107/dh_camera/daheng-sdk-x64/sdk/genicam/bin/Linux64_x64:/home/oem/dhcam_install_20181107/dh_camera/daheng-sdk-x64/sdk/genicam/bin/Linux64_x64:/home/oem/dhcam_install_20181107/dh_camera/daheng-sdk-x64/sdk/genicam/bin/Linux64_x64:/home/oem/dhcam_install_20181107/dh_camera/daheng-sdk-x64/sdk/genicam/bin/Linux64_x64:/home/oem/dhcam_install_20181107/dh_camera/daheng-sdk-x64/sdk/genicam/bin/Linux64_x64:/home/oem/dhcam_install_20181107/dh_camera/daheng-sdk-x64/sdk/genicam/bin/Linux64_x64:/home/oem/dhcam_install_20181107/dh_camera/daheng-sdk-x64/sdk/genicam/bin/Linux64_x64:/home/oem/dhcam_install_20181107/dh_camera/daheng-sdk-x64/sdk/genicam/bin/Linux64_x64:/home/oem/dhcam_install_20181107/dh_camera/daheng-sdk-x64/sdk/genicam/bin/Linux64_x64:/home/oem/dhcam_install_20181107/dh_camera/daheng-sdk-x64/sdk/genicam/bin/Linux64_x64:/home/oem/dhcam_install_20181107/dh_camera/daheng-sdk-x64/sdk/genicam/bin/Linux64_x64:/home/oem/dhcam_install_20181107/dh_camera/daheng-sdk-x64/sdk/genicam/bin/Linux64_x64:/home/oem/dhcam_install_20181107/dh_camera/daheng-sdk-x64/sdk/genicam/bin/Linux64_x64:/home/oem/dhcam_install_20181107/dh_camera/daheng-sdk-x64/sdk/genicam/bin/Linux64_x64:/home/oem/dhcam_install_2018

GENICAM_CACHE_V2_3="/usr/local/daheng/genicam_xml_cache"

GENICAM_ROOT_V2_3="/home/infantry/dhcam_install_20181107/dh_camera/daheng-sdk-x64/sdk/genicam"

GENICAM_GENTL64_PATH="/usr/lib"

LD_LIBRARY_PATH="/usr/local/lib:/home/infantry/dhcam_install_20181107/dh_camera/daheng-sdk-x64/sdk/genicam/bin/Linux64_x64:/home/infantry/dhcam_install_20181107/dh_camera/daheng-sdk-x64/sdk/genicam/bin/Linux64_x64:/home/infantry/dhcam_install_20181107/dh_camera/daheng-sdk-x64/sdk/genicam/bin/Linux64_x64:/home/infantry/dhcam_install_20181107/dh_camera/daheng-sdk-x64/sdk/genicam/bin/Linux64_x64:/home/infantry/dhcam_install_20181107/dh_camera/daheng-sdk-x64/sdk/genicam/bin/Linux64_x64:/home/infantry/dhcam_install_20181107/dh_camera/daheng-sdk-x64/sdk/genicam/bin/Linux64_x64:/home/infantry/dhcam_install_20181107/dh_camera/daheng-sdk-x64/sdk/genicam/bin/Linux64_x64:/home/infantry/dhcam_install_20181107/dh_camera/daheng-sdk-x64/sdk/genicam/bin/Linux64_x64:/home/infantry/dhcam_install_20181107/dh_camera/daheng-sdk-x64/sdk/genicam/bin/Linux64_x64:/home/infantry/dhcam_install_20181107/dh_camera/daheng-sdk-x64/sdk/genicam/bin/Linux64_x64:/home/infantry/dhcam_install_20181107/dh_camera/daheng-sdk-x64/sdk/genicam/bin/Linux64_x64:/home/infantry/dhcam_install_20181107/dh_camera/daheng-sdk-x64/sdk/genicam/bin/Linux64_x64:/home/infantry/dhcam_install_20181107/dh_camera/daheng-sdk-x64/sdk/genicam/bin/Linux64_x64:/home/infantry/dhcam_install_20181107/dh_camera/daheng-sdk-x64/sdk/genicam/bin/Linux64_x64:/home/infantry/dhcam_install_20181107/dh_camera/daheng-sdk-x64/sdk/genicam/bin/Linux64_x64:/home/infantry/dhcam_install_20181107/dh_camera/daheng-sdk-x64/sdk/genicam/bin/Linux64_x64:/home/infantry/dhcam_install_20181107/dh_camera/daheng-sdk-x64/sdk/genicam/bin/Linux64_x64:/home/infantry/dhcam_install_20181107/dh_camera/daheng-sdk-x64/sdk/genicam/bin/Linux64_x64:/home/infantry/dhcam_install_20181107/dh_camera/daheng-sdk-x64/sdk/genicam/bin/Linux64_x64:/home/infantry/dhcam_install_20181107/dh_camera/daheng-sdk-x64/sdk/genicam/bin/Linux64_x64:/home/i

开机自动启动

0.设置用户sudo无密码 使用 sudo visudo 调用nano对 /etc/sudoers 进行修改

\$ sudo visudo

在想修改的对象最后加上 NOPASSWD: ALL 例如:

Allow members of group sudo to execute any command %sudo ALL=(ALL:ALL) ALL oem ALL=(ALL) NOPASSWD: ALL

(chmod 777 join ~/.config/autostart) --- gnome-terminal

sudo chmod 777 .config/autostart/

1.终端方式,适合工业摄像头

sudo nano .bashrc

(在将工业摄像头设置为系统变量的时候可以不加-E)

sudo -E ~/build-sentry_vision-Desktop_Qt_5_12_2_GCC_64bit-Debug/sentry_vision

或有编写rm_vision,sh

sudo -E ~/rm_vision.sh

2.利用桌面自启软件开机自启终端

sudo gnome-session-properties gnome-terminal -x /home/river/startupRun.sh

按键关机设置

1.the last setting brigness lock never

shutdown setting

- 1. sudo gedit /etc/acpi/events/powerbtn
- 2. 注释掉最后一行action (前面加#) #action=/etc/acpi/powerbtn.sh
- 3. 添加一行: action=/sbin/poweroff
- 4. 重启acpi或者重启机器: acpid restart