系统版本: Ubuntu 20.04.6 LTS

集成开发环境: eclipse cdt

说明:

- 1、在运行实例程序时请合理设置防火墙,或者使用以下命令暂时关闭防火墙 sudo ufw disable。
- 2、测试动态库时,请把动态库安装到系统库目录中,或者把动态库 所在目录添加到环境变量 LD\_LIBRARY\_PATH 中。
- 3、目录结构:



\vk70xmcsdconfig.ini	
Lsrc	
1_initialize_static.c	
VK70xNMC_DAQ2.h	
2_continue_sample_shared	2. 连续采样动态库例程
2_continue_sample_shared	
<del>   makefile</del>	
— objects.mk	
sources.mk	
2_continue_sample_shared.d	
2_continue_sample_shared.o	
Long subdir.mk	
wk70xmcdllconfig.ini	
\vk70xmcsdconfig.ini	
src src	
2_continue_sample_shared.c	
│	
2_continue_sample_static	2. 连续采样静态库例程
Debug	
— 2_continue_sample_static	
<del>  makefile</del>	
— objects.mk	
sources.mk	
2_continue_sample_static.d	
2_continue_sample_static.o	
L subdir.mk	
wk70xmcdllconfig.ini	
Frc	
2_continue_sample_static.c	
│ │ └──VK70xNMC_DAQ2.h	
/ vk70xmcdllconfig.ini	
│	
3_n_points_sample_shared	3. N 采样动态库例程
makefile	
<del>  objects.mk</del>	

sources.mk	
src	
\ 3_n_points_sample_shared.d	
\ \ 3_n_points_sample_shared.o	
L subdir.mk	
│	
vk70xmcsdconfig.ini	
└── src	
3_n_points_sample_shared.c	
VK70xNMC_DAQ2.h	
3_n_points_sample_static	3. N 采样静态库例程
Debug	
3_n_points_sample_static	
makefile	
objects.mk	
sources.mk	
src	
3_n_points_sample_static.d	
3_n_points_sample_static.o	
Subdir.mk	
/ vk70xmcdllconfig.ini	
vk70xmcsdconfig.ini	
└── src	
3_n_points_sample_static.c	
VK70xNMC_DAQ2.h	
4_io4_trigger_n_points_sample_shared	4.IO4 触发 N 采样动态库例程
Debug	
	ared
makefile	
objects.mk	
Frc	
\ 4_io4_trigger_n_points_sample	e_shared.d
<del>                                 </del>	e_shared.o
L subdir.mk	
vk70xmcsdconfig.ini	
src	
4_io4_trigger_n_points_sample_shar	ed.c
VK70xNMC_DAQ2.h	
4_io4_trigger_n_points_sample_static	4.IO4 触发 N 采样静态库例程

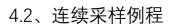
```
---- Debug
   4_io4_trigger_n_points_sample_static
       — makefile
   ---- objects.mk
   ---- sources.mk
     ---- src
   4_io4_trigger_n_points_sample_static.d
   4_io4_trigger_n_points_sample_static.o
   | subdir.mk
   ├── vk70xmcdllconfig.ini
  └── vk70xmcsdconfig.ini
└── src
  4_io4_trigger_n_points_sample_static.c
  UK70xNMC_DAQ2.h
                                    5.带 IO2、IO3 同步采样动态库例程
 - 5_sampling_with_sync_io2_io3_shared
---- Debug
   5_sampling_with_sync_io2_io3_shared
   ---- makefile
   ├── objects.mk
   ---- sources.mk
   ├── src
   5_sampling_with_sync_io2_io3_shared.d
   5_sampling_with_sync_io2_io3_shared.o
   | subdir.mk
  ├── vk70xmcdllconfig.ini
└── src
  5_sampling_with_sync_io2_io3_shared.c
  └── VK70xNMC DAQ2.h
                                        5.带 IO2、IO3 同步采样静态库例程
 5_sampling_with_sync_io2_io3_static
---- Debug
   5_sampling_with_sync_io2_io3_static
   ---- makefile
   ---- objects.mk
   ----- sources.mk
   ├---- src
   5_sampling_with_sync_io2_io3_static.d
   5_sampling_with_sync_io2_io3_static.o
   │ └── subdir.mk
   wk70xmcdllconfig.ini
└── src
```

5_sampling_with_sync_io2_io3_static.c	
VK70xNMC_DAQ2.h	
	动态库
libVK70XNMC_DAQ_SHARED.so	
makefile	
— objects.mk	
sources.mk	
commstr.d	
commstr.o	
dvr_lowlayerinterface.d	
dvr_lowlayerinterface.o	
dvr_sockserver.d	
dvr_sockserver.o	
subdir.mk	
wk_bin2text.d	
wk_bin2text.o	
wk_sdfile.o	
wk_setting_function.o	
wk_upgrade.d	
wk_upgrade.o	
commstr.c	
dvr_core.c	
dvr_header.h	
dvr_lowlayerinterface.c	
dvr_sockserver.c	
VK70xNMC_DAQ2.def	
├── VK70xNMC_DAQ2.h	
├──vk_bin2text.c	
vk_output_function.c	
/ vk_sdfile.c	
wk_setting_function.c	
vk_upgrade.c	

—— Debug
libVK70XNMC_DAQ_STATIC.a
makefile
— objects.mk
sources.mk
Lsrc
commstr.d
commstr.o
dvr_core.d
dvr_core.o
dvr_lowlayerinterface.d
dvr_lowlayerinterface.o
dvr_sockserver.d
dvr_sockserver.o
subdir.mk
vk_bin2text.d
vk_bin2text.o
/ vk_output_function.d
/ vk_output_function.o
/ vk_sdfile.d
├── vk_sdfile.o
wk_setting_function.d
wk_setting_function.o
/ vk_upgrade.d
└── vk_upgrade.o
Src
commstr.c
dvr_core.c
dvr_header.h
dvr_lowlayerinterface.c
dvr_sockserver.c
VK70xNMC_DAQ2.def
WK70xNMC_DAQ2.h
wk_bin2text.c
wk_output_function.c
vk_sdfile.c
wk_setting_function.c
└── vk_upgrade.c

## 4、运行效果

## 4.1、初始化例程



```
[arci@localhost Debug]$ ./2_continue_sample_static
Open the Server port, start to search the DAQ device:0
  Speed rate: 0 bytes per second
  Speed rate: 1055 bytes per second
   Found the connected DAQ clients and start sending commands: 1
  DAQ-0 Initialize function return status: [18]
DAQ-0 Start to continous sampling!
Read the DAQ [0] continous sampling number:
  DAQ-0 Start to continous sampling!
                                                                                                                                                                                             64
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Speed rate: 14457 bytes per second
Read the DAQ (0) continous sampling number:
  Speed rate:
                                                       14457 bytes per second
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                                                       19608 bytes per second
  Speed rate:
  Read the DAQ [0] continous sampling number:
                                                                                                                                                                                              64
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                                                                                                                                                                                             64
                                                                                                                                                                                             64
   采集卡【0】已停止采样!
```

```
[arci@localhost Debug]$ ./3_n_points_sample_static
Open the Server port, start to search the DAQ device:0
Speed rate: 0 bytes per second
Speed rate: 1055 bytes per second
Found the connected DAQ clients and start sending commands: 1
DAQ-0 Initialize function return status:[18]
DAQ-0 Start to the N point sampling[1]!
Speed rate: 15489 bytes per second
Read the DAQ-[0] N point sampling number:
                                          1000
DAQ-0 Start to the N point sampling[2]!
Speed rate: 15480 bytes per second
Read the DAQ-[0] N point sampling number:
                                           1100
DAQ-0 Start to the N point sampling[3]!
Speed rate: 17544 bytes per second
Read the DAQ-[0] N point sampling number:
                                           1200
DAQ-0 Start to the N point sampling[4]!
Speed rate: 19608 bytes per second
Read the DAQ-[0] N point sampling number:
                                           1300
DAQ-0 Start to the N point sampling[5]!
Speed rate: 16512 bytes per second
Read the DAQ-[0] N point sampling number:
                                           1400
^C
采集卡【0】已停止采样!
```

```
[arci@localhost Debug]$ ./4_io4_trigger_n_points_sample_static Open the Server port, start to search the DAQ device:0
Found the connected DAQ clients and start sending commands: 1
Found the connected DAQ clients and start sending con DAQ-0 Start to IO4 trigger the N point sampling[1]!

Read the DAQ-[0] N point sampling number: 960

Speed rate: 15507 bytes per second

Speed rate: 0 bytes per second

Read the DAQ-[0] N point sampling number: 1

Read the DAQ-[0] N point sampling number: 64

DAQ-0 Start to the N point sampling[2]!
```

