

廈門大學



信息学院软件工程系

《计算机网络》实验报告

题 目 实验二 RS232C 通信

班 级 软件工程 2018 级 1 班

姓 名 邓朝洋

学 号 24320182203185

实验时间 2020 年 3 月 2 日

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1 实验目的

新建两台虚拟机实现模拟 RS-232 双机互联编程，实现发送和接收字符串的程序，支持互发信息，支持多次发送。

2 实验环境

虚拟机安装 Windows7 系统，语言使用 C++，visual studio 2013。

3 实验结果

建立串行端口：

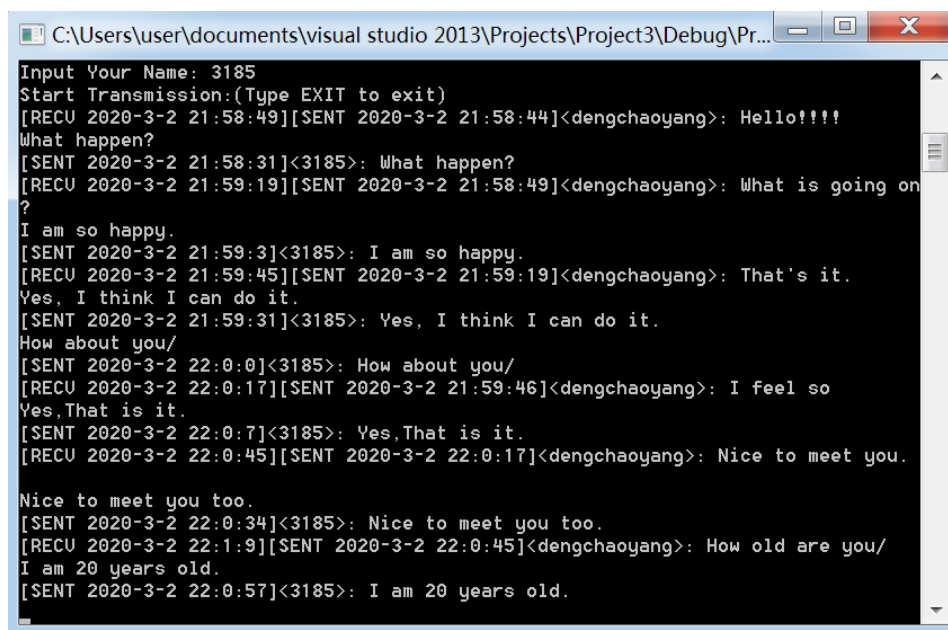
☒ 使用命名的管道(N):

\\.\pipe\com_1

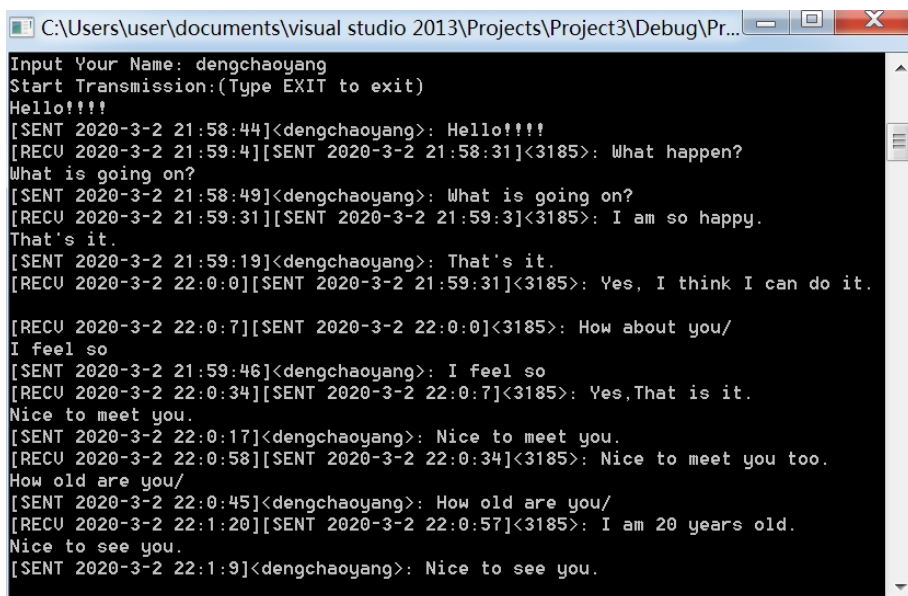
该端是服务器。

另一端是虚拟机。

实现传输(两个用户界面)：



```
C:\Users\user\documents\visual studio 2013\Projects\Project3\Debug\Pr...
Input Your Name: 3185
Start Transmission:(Type EXIT to exit)
[RECU 2020-3-2 21:58:49][SENT 2020-3-2 21:58:44]<dengchaoyang>: Hello!!!!
What happen?
[SENT 2020-3-2 21:58:31]<3185>: What happen?
[RECU 2020-3-2 21:59:19][SENT 2020-3-2 21:58:49]<dengchaoyang>: What is going on
?
I am so happy.
[SENT 2020-3-2 21:59:3]<3185>: I am so happy.
[RECU 2020-3-2 21:59:45][SENT 2020-3-2 21:59:19]<dengchaoyang>: That's it.
Yes, I think I can do it.
[SENT 2020-3-2 21:59:31]<3185>: Yes, I think I can do it.
How about you/
[SENT 2020-3-2 22:0:0]<3185>: How about you/
[RECU 2020-3-2 22:0:17][SENT 2020-3-2 21:59:46]<dengchaoyang>: I feel so
Yes,That is it.
[SENT 2020-3-2 22:0:7]<3185>: Yes,That is it.
[RECU 2020-3-2 22:0:45][SENT 2020-3-2 22:0:17]<dengchaoyang>: Nice to meet you.
Nice to meet you too.
[SENT 2020-3-2 22:0:34]<3185>: Nice to meet you too.
[RECU 2020-3-2 22:1:9][SENT 2020-3-2 22:0:45]<dengchaoyang>: How old are you/
I am 20 years old.
[SENT 2020-3-2 22:0:57]<3185>: I am 20 years old.
```



```
C:\Users\user\documents\visual studio 2013\Projects\Project3\Debug\Pr...
Input Your Name: dengchaoyang
Start Transmission:(Type EXIT to exit)
Hello!!!!
[SENT 2020-3-2 21:58:44]<dengchaoyang>: Hello!!!!
[RECU 2020-3-2 21:59:4][SENT 2020-3-2 21:58:31]<3185>: What happen?
What is going on?
[SENT 2020-3-2 21:58:49]<dengchaoyang>: What is going on?
[RECU 2020-3-2 21:59:31][SENT 2020-3-2 21:59:3]<3185>: I am so happy.
That's it.
[SENT 2020-3-2 21:59:19]<dengchaoyang>: That's it.
[RECU 2020-3-2 22:0:0][SENT 2020-3-2 21:59:31]<3185>: Yes, I think I can do it.

[RECU 2020-3-2 22:0:7][SENT 2020-3-2 22:0:0]<3185>: How about you/
I feel so
[SENT 2020-3-2 21:59:46]<dengchaoyang>: I feel so
[RECU 2020-3-2 22:0:34][SENT 2020-3-2 22:0:7]<3185>: Yes,That is it.
Nice to meet you.
[SENT 2020-3-2 22:0:17]<dengchaoyang>: Nice to meet you.
[RECU 2020-3-2 22:0:58][SENT 2020-3-2 22:0:34]<3185>: Nice to meet you too.
How old are you/
[SENT 2020-3-2 22:0:45]<dengchaoyang>: How old are you/
[RECU 2020-3-2 22:1:20][SENT 2020-3-2 22:0:57]<3185>: I am 20 years old.
Nice to see you.
[SENT 2020-3-2 22:1:9]<dengchaoyang>: Nice to see you.
```

4 实验总结

知道了传输数据主要通过 SerialPort 类中 WriteLine () 和 ReadLine () 来进行实现, 以及一些传输中的参数设置, 大致了解了 C++ 中的托管类型。