Simulation of
PID OOP Cascade System

20140328

http://emt.bjtu.edu.cn

Control Simulation Structure
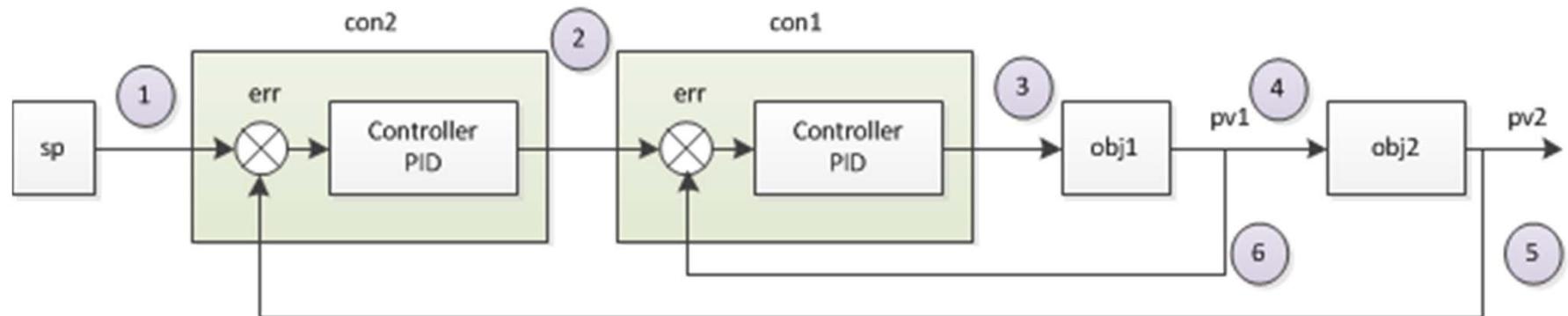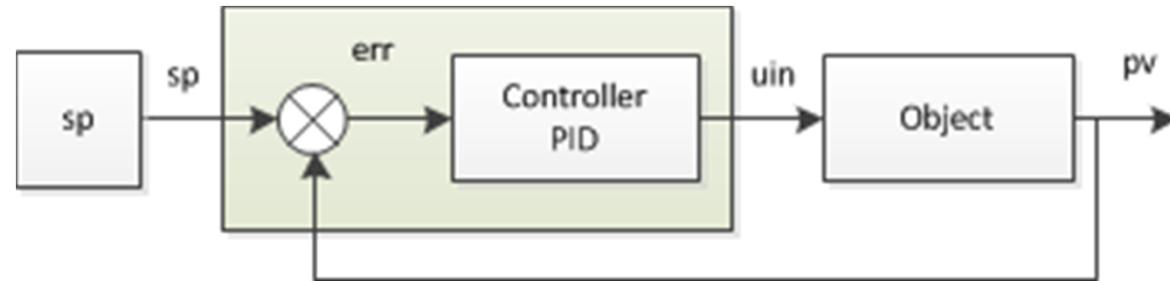
File Edit View Insert Project Build Tools Window Help

[Globals] [All global members] ◆ main

→ main → int main(int argc, char* argv[])

```cpp
// BJTU: http://www.bjtu.edu.cn
// ------------------------------------------
#include "stdafx.h"
#include "PID_Controller.h"
#include "RC_Object.h"
int main(int argc, char* argv[])
{
    FILE *fp;
    double sp=2.5;
    PID_Controller con1,con2;
    RC_Object obj1,obj2;
    // Initialize
    con1.Initialization();
    obj1.Initialization();
    con2.Initialization();
    obj2.Initialization();
    // Customized Setting
    con1.kp=2.0;
```

Class Tree:
- PID_Controller
  - ◆ Calculate()
  - ◆ Initialization()
  - ◆ PID_Controller()
  - ◆ ~PID_Controller()
  - ◆ cv
  - ◆ err
  - ◆ err2
  - ◆ err_sum
  - ◆ kd
  - ◆ ki
  - ◆ kp
  - ◆ pointer_pv
  - ◆ pointer_sp
- RC_Object
  - ◆ Calculate()
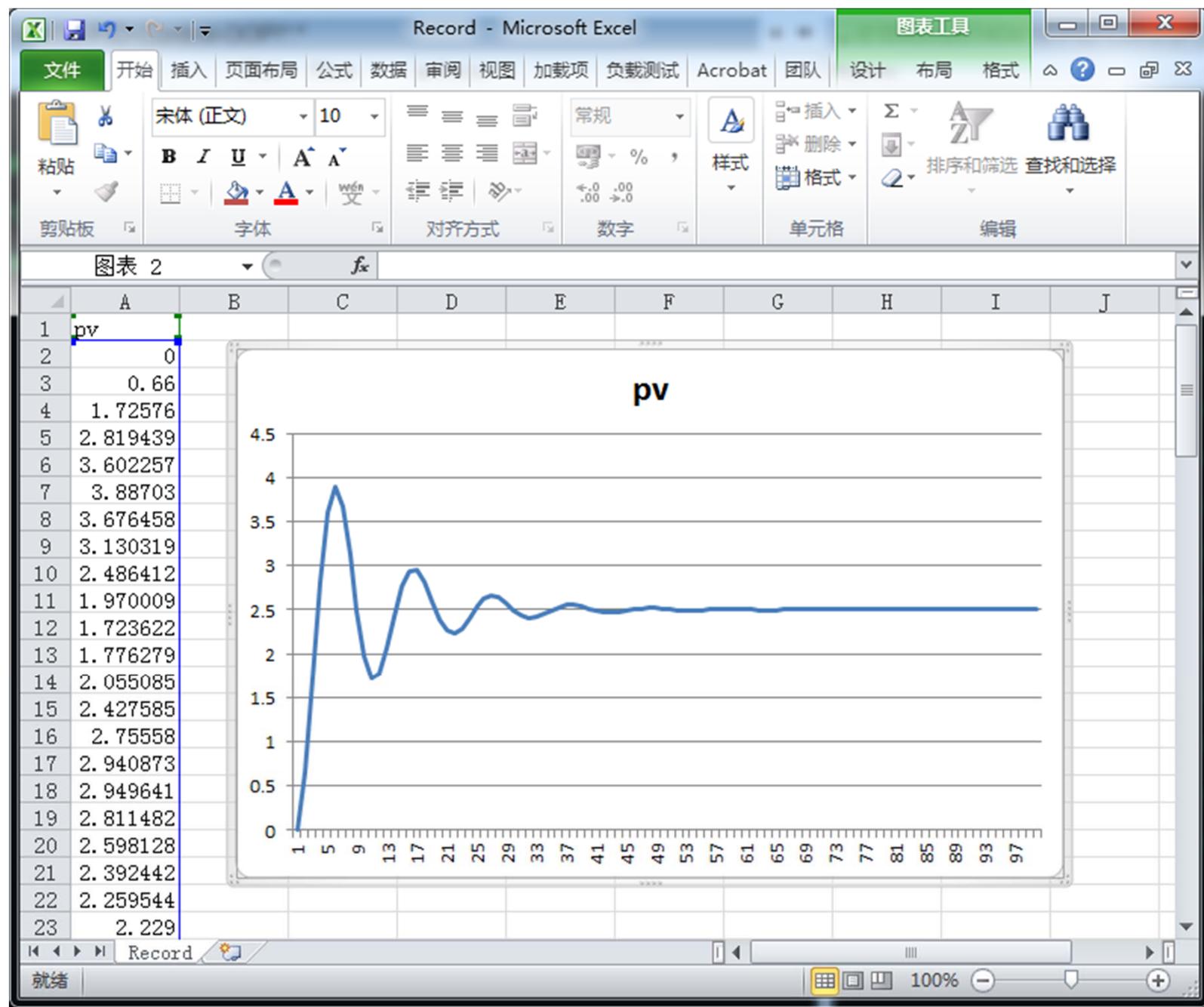
ClassV | FileVi | VA Vi | VA O

```
Deleting intermediate files and output files for project 'PID_OOP - Win32 Debug'.
--------------------Configuration: PID_OOP - Win32 Debug--------------------
Compiling...
StdAfx.cpp
Compiling...
PID_Controller.cpp
PID_OOP.cpp
RC_Object.cpp
Generating Code...
Linking...

PID_OOP.exe - 0 error(s), 0 warning(s)
```

Build / Debug / Find in Files 1

Ready

文件　开始　插入　页面布局　公式　数据　审阅　视图　加载项　负载测试　Acrobat　团队　设计　布局　格式

宋体 (正文)　10

粘贴　B　I　U　A　A

剪贴板　字体　对齐方式　数字　样式　单元格　编辑

图表 2　fx

	A	B	C	D	E	F	G	H	I	J
1	pv									
2	0									
3	0.66									
4	1.72576									
5	2.819439									
6	3.602257									
7	3.88703									
8	3.676458									
9	3.130319									
10	2.486412									
11	1.970009									
12	1.723622									
13	1.776279									
14	2.055085									
15	2.427585									
16	2.75558									
17	2.940873									
18	2.949641									
19	2.811482									
20	2.598128									
21	2.392442									
22	2.259544									
23	2.229									

pv

Record

就绪　100%

Thanks