Add Offline Running Action



This section takes Arduino source code as an example. It is recommended to back up the source code program before modifying the program.

The provided program and PC software can only save up to 255 actions in each action group. If this number is exceeded, the action will not run. If you want to add action, please follow these steps:

- 1) Divide the action to be programmed into multiple action groups, e.g. when 225 actions have been programmed into an action group, then save the file and the remaining actions is programmed into the new action group.
- 2) Open the source code and find the following code in App.C.

```
App.cpp
      Timer = millis() + 50;
427 }
428
429 void TaskRun(void)
430 = {
431 static bool Ps2State = FALSE;
432 uint8 PS2KeyValue;
433
434 TaskTimeHandle();
435 CheckBatteryVoltage();
436
437 TaskPCMsgHandle():
438
     TaskRobotRun();
439
440
      if(analogRead(KEY) == 0)
441⊟ {
442
        LedFlip();
443
        FullActRun(100, 1);
444
445
      ps2Handle();
446
447
448 }
```

The code means that the programmed action is downloaded into No.100 action group, then press the KEY 1 button on the controller to execute this action. This parameter 100 can be modified. If it is modified, the action is required to download into the modified action group and then the corresponding action can be executed when pressing the key.

 After the modification is completed in the previous step, there are another modification need to be made, as shown in the following figure:

```
{//不断检测这帧动作在指定时间内运行完成
112⊟
113
          fFrameRunFinish = TRUE;
114
          if (++FrameIndex >= FrameIndexSum)
          {//已运行完该动作组最后一个动作
115⊟
116
           FrameIndex = 0;
117
            if(ActFullRunTimesSum != 0)
118⊟
            {//如果运行次数等于0,即代表无限次运行,就不进入if语句,就一直运行了
119
              if(++ActFullRunTimes >= ActFullRunTimesSum)
120⊟
              {//到达运行次数,运行停止
121
               fRobotRun = FALSE;
122
               if (ActFullNum == 100)
123⊟
124
                 FullActRun(101, 1);
125
126
            }
```

- 2) An if statement is added here, which will continue to execute the No.101 action group after the 100th action group is executed. Note: If we modified the value 100 in the previous step, then it also needs to be modified here.
- 3) According to this method, you can continue to add action followed by this action, as shown in the figure:

```
115⊡
           {//已运行完该动作组最后一个动作
116
             FrameIndex = 0:
117
             if (ActFullRunTimesSum != 0)
             {//如果运行次数等于0,即代表无限次运行,就不进入if语句,就一直运行了
118⊟
119
               if (++ActFullRunTimes >= ActFullRunTimesSum)
               {//到达运行次数,运行停止
                fRobotkun - FALSE
122
                if (ActFullNum == 100)
123E
124
                  FullActRun(101, 1);
125
                }
126
                else if(ActFullNum == 101)
127⊟
128
                  FullActRun (102, 1):
129
130
                else if(ActFullNum == 102)
131E
132
                  FullActRun(103, 1):
133
134
                else if(ActFullNum == 103)
136
                  FullActRun(104, 1);
137
138
139
           }
140
```

The rule is: the previously executed action group is the judgment condition of the next action group to be executed, so it must be followed when modifying.

```
ArduinoServo - RobotRun.cpp | Arduino 1.8.5
  {//已运行完该动作组最后一个动作
115⊟
116
           FrameIndex = 0;
117
           if(ActFullRunTimesSum != 0)
           {//如果运行次数等于0,即代表无限次运行,就不进入if语句,就一直运行了
118⊟
            if(++ActFullRunTimes >= ActFullRunTimesSum)
119
120⊟
             {//到达运行次数,运行停止
121
               fRobotRun = FALSE;
122
               if (ActFullNum == 100)
123⊟
124
                 FullActRun(101, 1);
```

4) Click the icon in the red box and wait for the compilation to be completed.

```
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```

5) If no error is displayed after compiling, then the program will be burnt into Arduino Nano microcontroller .