НАЦІОНАЛЬНИЙ ТЕХНІЧНИЙ УНІВЕРСИТЕТ УКРАЇНИ

"КИЇВСЬКИЙ ПОЛІТЕХНІЧНИЙ ІНСТИТУТ

імені ІГОРЯ СІКОРСЬКОГО"

Факультет прикладної математики

Кафедра системного програмування і спеціалізованих комп'ютерних систем

Лабораторна робота № 8

з дисципліни «Периферійні пристрої»

Виконав: Стецюренко І. С,

Студент групи КВ-03

Перевірив(ла):_____

Київ – 2022

Лабораторна робота №8

Мікропроцесорна система управління з складною логікою об'єкта
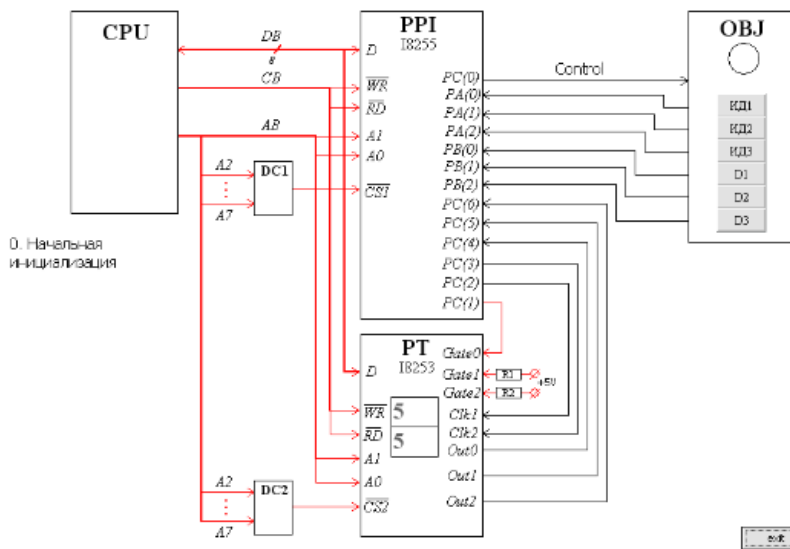
Функціональна схема

Рис. 13 Схема електричної функціональної МПСУ

Умова

Побудувати схему електричну функціональну МПСУ

Записати алгоритм управління з врахуванням схемотехніки МПСУ

Написати програму управління на асемблері. Порти: РУС I8255 – 1FH і I8253 – 1BH

Змоделювати функціонування системи на моніторі комп'ютера

Відобразити алгоритм функціонування.

Опис об'єкта

Сигнал готовності формують датчики об'єкта: Д1 самостійно запускає систему (датчик являється ведучим), при відсутності сигналу Д1 систему запускають сумісно датчики Д2, Д3 Час очікування сигналу готовності задається Ст.1 I8253 (константа 0АН). По закінченню вказаного часу система вимикається (перехід на кінець). Управління лінією Control виконується по мажоритарному принципу інформаційними сигналами ІД1, ІД2, ІД3 (2 з 3 вмикають лінію управління). Час очікування ІД1, ІД2, ІД3 задається Ст.2 I8253 (константа 0АН). По закінченню вказаного часу система

вимикається (перехід на кінець). Витримка вмк./вимкн. стану лінії Control задається Ст.0 I8253 (константа 64Н)

Алгоритм функціонування системи

1 . Ініціалізація I8255. режим 0.

2. Ініціалізація I8253. Установка режиму Ст 0.

3. Запис константи в Сч0 – 64h

4. Ініціалізація I8253. Установка режиму Ст 1.

5. Запис константи в Ст1 – 0Ah

6. Ініціалізація I8253. Установка режиму Ст 2.

7. Запис константи в Сч2 – 0Ah

8. Формування Gate0

9. Перевірка наявності сигналу готовності D1 (якщо так – п. 14.1, інакше – п.10)

10. Перевірка наявності сигналу готовності D2 и D3 (якщо так – п. 14, інакше – п.11)

11. Декремент Ст1.

12. Перевірка Out1 Якщо Out1=0, то перехід до п.9, інакше п.13

13. Перехід на кінець (п.25)

14. Виділення Коду ІД1, ІД2, ІД3

14.1 . Порівняння з кодом 03Н (якщо так – п.18, інакше – п.14.2)

14.2. Порівняння з кодом 05Н (якщо так – п.18, інакше – п.14.3)

14.3 . Порівняння з кодом 06Н (якщо так – п.18, інакше – п.14.4)

14.4. Порівняння з кодом 07Н (якщо так – п.18, інакше – п.15.)

15. Декремент Ст.2

16. Перевірка Out2 (Out2 = 0 – п.14.1, інакше – п.17)

17. Перехід на кінець (п.25)

18. Включення лінії «Control»

19. Перезапуск Ст.0.

20. Очікування Out0 = 1

21. Виключення лінії «Control»

22. Перезапуск Ст.0

23. Очікування Out0 = 1

24. Перехід на п. 9

25. Кінець

Програма керування на ассемблері

```
; установка режиму роботи МС I8255 (установка УС-I)
begin:
mov al, 9AH ;10011010B
out 1Fh, al

; установка режиму роботи МС I8253 Ст0
mov al, 10H
out 1Bh, al
; запис константи в Ст0
mov al, 64H
out 18h, al
; установка режиму роботи МС I8253 Ст1
mov al, 50H ;01010000B
out 1Bh, al
; запис константи в Ст1
mov al, 0AH
out 19h, al
; Установка режиму роботи МС I8253 Ст2
mov al, 90H ;10010000B
out 1Bh, al
; Запис константи в Сч2 – 0Ah
```

```asm
        mov al, 0AH
        out 1Ah, al
        ; Формування Gate0
        mov al, 03H
        out 1Fh, al
        ; Перевірка наявності сигналу готовності D1 (якщо так – п. 14.1, інакше –
        п.10)
m1:
        in al,1DH
        test al, 01H
        jnz m2
        ; Перевірка наявності сигналу готовності D2 и D3 (якщо так – п. 14.1,
        інакше – п.11)
        In al, 1DH
        test al , 06H
        jnz m2
        ; Декремент Ст1.
        mov al, 05H 00000101B
        out 1FH, al


        ; Перевірка Out1 (Якщо Out1=0, то перехід п.9, інакше п.13)
        in al,1EH
        test al 20H
        jz m1
        ; Перехід на кінець
        jmp exit
        ; Виділення Коду ІД1, ІД2, ІД3
        ; Порівняння з кодом 03H (якщо так – п.18, інакше – п.14.2)
m2:
        in al,1CH
        test al,03H
        jnz m3
        ; Порівняння з кодом 05H (якщо так – п.18, інакше – п.14.3)
        in al, 1ch
        test al,05H
        jnz m3
        ; Порівняння з кодом 06H (якщо так – п.18, інакше – п.14.4)
        in al, 1ch
        test al,06H
        jnz m3
        ; Порівняння з кодом 07H (якщо так – п.18, інакше – п.15)
        in al, 1ch
        test al,07H
        jnz m3
        ; Декремент Ст.2.
        mov al, 07H
        out 1FH, al
        ; Перевірка Out2 (Out2 = 0 – перехід до п.14.1, іначе 17)
        in al,1EH
        test al,40H
        jz m2
        ; Перехід на кінець.
        jmp exit


        ; Включення лінії «Control»
        mov al, 01H
        out 1FH, al
        ; Перезапуск Ст.0.
        mov al ,10H
        out 1BH, al
        ; Очікування Out0 = 1
```

```asm
m4:
in al ,1EH
test al, 10H
jz m4
; Виключення лінії «Control»
mov al, 00H
out 1FH, al
; Перезапуск Ст.0.
mov al ,10H
out 1BH, al
; Очікування Out0 = 1
m5:
in al ,1EH
test al, 10H
jz m5
; Перехід на п. 9
jmp begin
; Кінець
exit:
```

Код програми розроблений в Visual Studio на C#:

```csharp
using System;

namespace lab8
{
    partial class Form1
    {
        /// <summary>
        /// Required designer variable.
        /// </summary>
        private System.ComponentModel.IContainer components = null;

        /// <summary>
        /// Clean up any resources being used.
        /// </summary>
        /// <param name="disposing">true if managed resources should be
disposed; otherwise, false.</param>
        protected override void Dispose(bool disposing)
        {
            if (disposing && (components != null))
            {
                components.Dispose();
            }
            base.Dispose(disposing);
        }

        #region Windows Form Designer generated code

        /// <summary>
        /// Required method for Designer support - do not modify
        /// the contents of this method with the code editor.
        /// </summary>
        private void InitializeComponent()
        {
            this.components = new System.ComponentModel.Container();
```

```csharp
            System.ComponentModel.ComponentResourceManager resources = new
System.ComponentModel.ComponentResourceManager(typeof(Form1));
            this.pictureBox1 = new System.Windows.Forms.PictureBox();
            this.pictureBox2 = new System.Windows.Forms.PictureBox();
            this.pictureBox3 = new System.Windows.Forms.PictureBox();
            this.GrRight = new System.Windows.Forms.PictureBox();
            this.BlLeft = new System.Windows.Forms.PictureBox();
            this.button1 = new System.Windows.Forms.Button();
            this.button2 = new System.Windows.Forms.Button();
            this.turned = new System.Windows.Forms.PictureBox();
            this.D1 = new System.Windows.Forms.CheckBox();
            this.D2 = new System.Windows.Forms.CheckBox();
            this.D3 = new System.Windows.Forms.CheckBox();
            this.timer1 = new System.Windows.Forms.Timer(this.components);
            this.Out0 = new System.Windows.Forms.PictureBox();
            this.timer2 = new System.Windows.Forms.Timer(this.components);
            this.timer3 = new System.Windows.Forms.Timer(this.components);
            this.timer4 = new System.Windows.Forms.Timer(this.components);
            this.Clock1 = new System.Windows.Forms.TextBox();
            this.Clock2 = new System.Windows.Forms.TextBox();
            this.Clk1 = new System.Windows.Forms.PictureBox();
            this.fin = new System.Windows.Forms.Timer(this.components);
            this.turnoff_no = new System.Windows.Forms.PictureBox();
            this.Clk2 = new System.Windows.Forms.PictureBox();
            this.turnedoff_D1 = new System.Windows.Forms.PictureBox();
            this.Out1 = new System.Windows.Forms.PictureBox();
            this.Out2 = new System.Windows.Forms.PictureBox();
            this.trash_gather = new
System.Windows.Forms.Timer(this.components);
            this.Gate0 = new System.Windows.Forms.PictureBox();
            this.Control = new System.Windows.Forms.PictureBox();
            this.UD1 = new System.Windows.Forms.PictureBox();
            this.UD2 = new System.Windows.Forms.PictureBox();
            this.UD3 = new System.Windows.Forms.PictureBox();
            this.UD33 = new System.Windows.Forms.PictureBox();
            this.UD22 = new System.Windows.Forms.PictureBox();
            this.UD11 = new System.Windows.Forms.PictureBox();
            this.NoLight = new System.Windows.Forms.PictureBox();
            this.Light = new System.Windows.Forms.PictureBox();
            this.Yes = new System.Windows.Forms.PictureBox();
            this.label1 = new System.Windows.Forms.Label();
            this.label4 = new System.Windows.Forms.Label();
            this.label5 = new System.Windows.Forms.Label();
            this.label6 = new System.Windows.Forms.Label();
            this.label7 = new System.Windows.Forms.Label();
            this.label8 = new System.Windows.Forms.Label();
            this.label9 = new System.Windows.Forms.Label();
            this.label10 = new System.Windows.Forms.Label();
            this.label11 = new System.Windows.Forms.Label();
            this.label12 = new System.Windows.Forms.Label();
            this.label13 = new System.Windows.Forms.Label();
            this.label14 = new System.Windows.Forms.Label();
            this.label15 = new System.Windows.Forms.Label();
            this.label16 = new System.Windows.Forms.Label();
            this.label17 = new System.Windows.Forms.Label();
            this.label18 = new System.Windows.Forms.Label();
            this.label19 = new System.Windows.Forms.Label();
            this.label20 = new System.Windows.Forms.Label();
            this.label21 = new System.Windows.Forms.Label();
            this.label22 = new System.Windows.Forms.Label();
            this.label23 = new System.Windows.Forms.Label();
```

```csharp
            this.label24 = new System.Windows.Forms.Label();
            this.label25 = new System.Windows.Forms.Label();
            this.label26 = new System.Windows.Forms.Label();
            this.label27 = new System.Windows.Forms.Label();
            this.label28 = new System.Windows.Forms.Label();
            this.label29 = new System.Windows.Forms.Label();
            this.label30 = new System.Windows.Forms.Label();
            this.label31 = new System.Windows.Forms.Label();
            this.label32 = new System.Windows.Forms.Label();
            this.label33 = new System.Windows.Forms.Label();
            this.label34 = new System.Windows.Forms.Label();
            this.label35 = new System.Windows.Forms.Label();
            this.label36 = new System.Windows.Forms.Label();
            this.label37 = new System.Windows.Forms.Label();
            this.label38 = new System.Windows.Forms.Label();
            this.label39 = new System.Windows.Forms.Label();
            this.label40 = new System.Windows.Forms.Label();
            this.label41 = new System.Windows.Forms.Label();
            this.label42 = new System.Windows.Forms.Label();
            this.label43 = new System.Windows.Forms.Label();
            this.label44 = new System.Windows.Forms.Label();
            this.label45 = new System.Windows.Forms.Label();
            this.label46 = new System.Windows.Forms.Label();
            this.res = new System.Windows.Forms.RichTextBox();
            this.D10 = new System.Windows.Forms.CheckBox();
            this.D20 = new System.Windows.Forms.CheckBox();
            this.D30 = new System.Windows.Forms.CheckBox();
            this.CLK = new System.Windows.Forms.PictureBox();
            this.label47 = new System.Windows.Forms.Label();

((System.ComponentModel.ISupportInitialize)(this.pictureBox1)).BeginInit()
;

((System.ComponentModel.ISupportInitialize)(this.pictureBox2)).BeginInit()
;

((System.ComponentModel.ISupportInitialize)(this.pictureBox3)).BeginInit()
;

((System.ComponentModel.ISupportInitialize)(this.GrRight)).BeginInit();

((System.ComponentModel.ISupportInitialize)(this.BlLeft)).BeginInit();

((System.ComponentModel.ISupportInitialize)(this.turned)).BeginInit();

((System.ComponentModel.ISupportInitialize)(this.Out0)).BeginInit();

((System.ComponentModel.ISupportInitialize)(this.Clk1)).BeginInit();

((System.ComponentModel.ISupportInitialize)(this.turnoff_no)).BeginInit();

((System.ComponentModel.ISupportInitialize)(this.Clk2)).BeginInit();

((System.ComponentModel.ISupportInitialize)(this.turnedoff_D1)).BeginInit(
);

((System.ComponentModel.ISupportInitialize)(this.Out1)).BeginInit();

((System.ComponentModel.ISupportInitialize)(this.Out2)).BeginInit();

((System.ComponentModel.ISupportInitialize)(this.Gate0)).BeginInit();
```

```csharp
((System.ComponentModel.ISupportInitialize)(this.Control)).BeginInit();

((System.ComponentModel.ISupportInitialize)(this.UD1)).BeginInit();

((System.ComponentModel.ISupportInitialize)(this.UD2)).BeginInit();

((System.ComponentModel.ISupportInitialize)(this.UD3)).BeginInit();

((System.ComponentModel.ISupportInitialize)(this.UD33)).BeginInit();

((System.ComponentModel.ISupportInitialize)(this.UD22)).BeginInit();

((System.ComponentModel.ISupportInitialize)(this.UD11)).BeginInit();

((System.ComponentModel.ISupportInitialize)(this.NoLight)).BeginInit();

((System.ComponentModel.ISupportInitialize)(this.Light)).BeginInit();

((System.ComponentModel.ISupportInitialize)(this.Yes)).BeginInit();

((System.ComponentModel.ISupportInitialize)(this.CLK)).BeginInit();
            this.SuspendLayout();
            //
            // pictureBox1
            //
            this.pictureBox1.BackColor =
System.Drawing.SystemColors.ActiveBorder;
            this.pictureBox1.Location = new System.Drawing.Point(49, 14);
            this.pictureBox1.Margin = new System.Windows.Forms.Padding(4,
5, 4, 5);
            this.pictureBox1.Name = "pictureBox1";
            this.pictureBox1.Size = new System.Drawing.Size(264, 388);
            this.pictureBox1.SizeMode =
System.Windows.Forms.PictureBoxSizeMode.Zoom;
            this.pictureBox1.TabIndex = 0;
            this.pictureBox1.TabStop = false;
            //
            // pictureBox2
            //
            this.pictureBox2.BackColor =
System.Drawing.SystemColors.ActiveBorder;
            this.pictureBox2.Location = new System.Drawing.Point(582, 6);
            this.pictureBox2.Margin = new System.Windows.Forms.Padding(4,
5, 4, 5);
            this.pictureBox2.Name = "pictureBox2";
            this.pictureBox2.Size = new System.Drawing.Size(214, 361);
            this.pictureBox2.SizeMode =
System.Windows.Forms.PictureBoxSizeMode.AutoSize;
            this.pictureBox2.TabIndex = 1;
            this.pictureBox2.TabStop = false;
            this.pictureBox2.Click += new
System.EventHandler(this.pictureBox2_Click);
            //
            // pictureBox3
            //
            this.pictureBox3.BackColor =
System.Drawing.SystemColors.ActiveBorder;
            this.pictureBox3.Location = new System.Drawing.Point(581,
406);
```

```csharp
            this.pictureBox3.Margin = new System.Windows.Forms.Padding(4,
5, 4, 5);
            this.pictureBox3.Name = "pictureBox3";
            this.pictureBox3.Size = new System.Drawing.Size(214, 361);
            this.pictureBox3.SizeMode =
System.Windows.Forms.PictureBoxSizeMode.AutoSize;
            this.pictureBox3.TabIndex = 2;
            this.pictureBox3.TabStop = false;
            //
            // GrRight
            //
            this.GrRight.Image =
((System.Drawing.Image)(resources.GetObject("GrRight.Image")));
            this.GrRight.Location = new System.Drawing.Point(315, 16);
            this.GrRight.Margin = new System.Windows.Forms.Padding(4, 5,
4, 5);
            this.GrRight.Name = "GrRight";
            this.GrRight.Size = new System.Drawing.Size(268, 716);
            this.GrRight.SizeMode =
System.Windows.Forms.PictureBoxSizeMode.Zoom;
            this.GrRight.TabIndex = 3;
            this.GrRight.TabStop = false;
            this.GrRight.Visible = false;
            //
            // BlLeft
            //
            this.BlLeft.Image =
((System.Drawing.Image)(resources.GetObject("BlLeft.Image")));
            this.BlLeft.Location = new System.Drawing.Point(321, 18);
            this.BlLeft.Margin = new System.Windows.Forms.Padding(4, 5, 4,
5);
            this.BlLeft.Name = "BlLeft";
            this.BlLeft.Size = new System.Drawing.Size(262, 718);
            this.BlLeft.SizeMode =
System.Windows.Forms.PictureBoxSizeMode.Zoom;
            this.BlLeft.TabIndex = 5;
            this.BlLeft.TabStop = false;
            //
            // button1
            //
            this.button1.Location = new System.Drawing.Point(1194, 233);
            this.button1.Margin = new System.Windows.Forms.Padding(4, 5,
4, 5);
            this.button1.Name = "button1";
            this.button1.Size = new System.Drawing.Size(100, 35);
            this.button1.TabIndex = 6;
            this.button1.Text = "Start";
            this.button1.UseVisualStyleBackColor = true;
            this.button1.Click += new
System.EventHandler(this.button1_Click);
            //
            // button2
            //
            this.button2.Location = new System.Drawing.Point(1194, 286);
            this.button2.Margin = new System.Windows.Forms.Padding(4, 5,
4, 5);
            this.button2.Name = "button2";
            this.button2.Size = new System.Drawing.Size(100, 35);
            this.button2.TabIndex = 7;
            this.button2.Text = "Stop";
            this.button2.UseVisualStyleBackColor = true;
```

```csharp
            this.button2.Click += new
System.EventHandler(this.button2_Click);
            // 
            // turned
            // 
            this.turned.Image =
((System.Drawing.Image)(resources.GetObject("turned.Image")));
            this.turned.Location = new System.Drawing.Point(795, -10);
            this.turned.Margin = new System.Windows.Forms.Padding(4, 5, 4,
5);
            this.turned.Name = "turned";
            this.turned.Size = new System.Drawing.Size(570, 775);
            this.turned.SizeMode =
System.Windows.Forms.PictureBoxSizeMode.Zoom;
            this.turned.TabIndex = 8;
            this.turned.TabStop = false;
            // 
            // D1
            // 
            this.D1.AutoSize = true;
            this.D1.Location = new System.Drawing.Point(1134, 122);
            this.D1.Margin = new System.Windows.Forms.Padding(4, 5, 4, 5);
            this.D1.Name = "D1";
            this.D1.Size = new System.Drawing.Size(60, 24);
            this.D1.TabIndex = 9;
            this.D1.Text = "UD1";
            this.D1.UseVisualStyleBackColor = true;
            this.D1.CheckedChanged += new
System.EventHandler(this.D1_CheckedChanged);
            // 
            // D2
            // 
            this.D2.AutoSize = true;
            this.D2.Location = new System.Drawing.Point(1134, 162);
            this.D2.Margin = new System.Windows.Forms.Padding(4, 5, 4, 5);
            this.D2.Name = "D2";
            this.D2.Size = new System.Drawing.Size(60, 24);
            this.D2.TabIndex = 10;
            this.D2.Text = "UD2";
            this.D2.UseVisualStyleBackColor = true;
            this.D2.CheckedChanged += new
System.EventHandler(this.D2_CheckedChanged);
            // 
            // D3
            // 
            this.D3.AutoSize = true;
            this.D3.Location = new System.Drawing.Point(1134, 201);
            this.D3.Margin = new System.Windows.Forms.Padding(4, 5, 4, 5);
            this.D3.Name = "D3";
            this.D3.Size = new System.Drawing.Size(60, 24);
            this.D3.TabIndex = 11;
            this.D3.Text = "UD3";
            this.D3.UseVisualStyleBackColor = true;
            this.D3.CheckedChanged += new
System.EventHandler(this.D3_CheckedChanged);
            // 
            // timer1
            // 
            this.timer1.Interval = 500;
            this.timer1.Tick += new System.EventHandler(this.timer1_Tick);
            // 
```

```csharp
            // Out0
            //
            this.Out0.Image =
((System.Drawing.Image)(resources.GetObject("Out0.Image")));
            this.Out0.Location = new System.Drawing.Point(795, -9);
            this.Out0.Margin = new System.Windows.Forms.Padding(4, 5, 4,
5);
            this.Out0.Name = "Out0";
            this.Out0.Size = new System.Drawing.Size(555, 786);
            this.Out0.SizeMode =
System.Windows.Forms.PictureBoxSizeMode.Zoom;
            this.Out0.TabIndex = 12;
            this.Out0.TabStop = false;
            this.Out0.Visible = false;
            //
            // timer2
            //
            this.timer2.Interval = 1000;
            this.timer2.Tick += new System.EventHandler(this.timer2_Tick);
            //
            // timer3
            //
            this.timer3.Interval = 1000;
            this.timer3.Tick += new System.EventHandler(this.timer3_Tick);
            //
            // timer4
            //
            this.timer4.Interval = 1000;
            this.timer4.Tick += new System.EventHandler(this.timer4_Tick);
            //
            // Clock1
            //
            this.Clock1.Location = new System.Drawing.Point(633, 488);
            this.Clock1.Margin = new System.Windows.Forms.Padding(4, 5, 4,
5);
            this.Clock1.Name = "Clock1";
            this.Clock1.Size = new System.Drawing.Size(88, 27);
            this.Clock1.TabIndex = 13;
            this.Clock1.Text = "10";
            this.Clock1.TextChanged += new
System.EventHandler(this.Clock1_TextChanged);
            //
            // Clock2
            //
            this.Clock2.Location = new System.Drawing.Point(630, 589);
            this.Clock2.Margin = new System.Windows.Forms.Padding(4, 5, 4,
5);
            this.Clock2.Name = "Clock2";
            this.Clock2.Size = new System.Drawing.Size(91, 27);
            this.Clock2.TabIndex = 14;
            this.Clock2.Text = "10";
            this.Clock2.TextChanged += new
System.EventHandler(this.Clock2_TextChanged);
            //
            // Clk1
            //
            this.Clk1.Image =
((System.Drawing.Image)(resources.GetObject("Clk1.Image")));
            this.Clk1.Location = new System.Drawing.Point(788, -3);
            this.Clk1.Margin = new System.Windows.Forms.Padding(4, 5, 4,
5);
```

```csharp
            this.Clk1.Name = "Clk1";
            this.Clk1.Size = new System.Drawing.Size(565, 783);
            this.Clk1.SizeMode =
System.Windows.Forms.PictureBoxSizeMode.Zoom;
            this.Clk1.TabIndex = 15;
            this.Clk1.TabStop = false;
            this.Clk1.Visible = false;
            //
            // fin
            //
            this.fin.Interval = 1000;
            this.fin.Tick += new System.EventHandler(this.fin_Tick);
            //
            // turnoff_no
            //
            this.turnoff_no.Image =
((System.Drawing.Image)(resources.GetObject("turnoff_no.Image")));
            this.turnoff_no.Location = new System.Drawing.Point(795, 1);
            this.turnoff_no.Margin = new System.Windows.Forms.Padding(4,
5, 4, 5);
            this.turnoff_no.Name = "turnoff_no";
            this.turnoff_no.Size = new System.Drawing.Size(565, 761);
            this.turnoff_no.SizeMode =
System.Windows.Forms.PictureBoxSizeMode.Zoom;
            this.turnoff_no.TabIndex = 16;
            this.turnoff_no.TabStop = false;
            this.turnoff_no.Visible = false;
            //
            // Clk2
            //
            this.Clk2.Image =
((System.Drawing.Image)(resources.GetObject("Clk2.Image")));
            this.Clk2.Location = new System.Drawing.Point(791, -1);
            this.Clk2.Margin = new System.Windows.Forms.Padding(4, 5, 4,
5);
            this.Clk2.Name = "Clk2";
            this.Clk2.Size = new System.Drawing.Size(562, 766);
            this.Clk2.SizeMode =
System.Windows.Forms.PictureBoxSizeMode.Zoom;
            this.Clk2.TabIndex = 17;
            this.Clk2.TabStop = false;
            this.Clk2.Visible = false;
            //
            // turnedoff_D1
            //
            this.turnedoff_D1.Image =
((System.Drawing.Image)(resources.GetObject("turnedoff_D1.Image")));
            this.turnedoff_D1.Location = new System.Drawing.Point(799, -
29);
            this.turnedoff_D1.Margin = new System.Windows.Forms.Padding(4,
5, 4, 5);
            this.turnedoff_D1.Name = "turnedoff_D1";
            this.turnedoff_D1.Size = new System.Drawing.Size(594, 830);
            this.turnedoff_D1.SizeMode =
System.Windows.Forms.PictureBoxSizeMode.Zoom;
            this.turnedoff_D1.TabIndex = 18;
            this.turnedoff_D1.TabStop = false;
            this.turnedoff_D1.Visible = false;
            //
            // Out1
            //
```

```csharp
            this.Out1.Image =
((System.Drawing.Image)(resources.GetObject("Out1.Image")));
            this.Out1.Location = new System.Drawing.Point(795, -13);
            this.Out1.Margin = new System.Windows.Forms.Padding(4, 5, 4,
5);
            this.Out1.Name = "Out1";
            this.Out1.Size = new System.Drawing.Size(589, 793);
            this.Out1.SizeMode =
System.Windows.Forms.PictureBoxSizeMode.Zoom;
            this.Out1.TabIndex = 19;
            this.Out1.TabStop = false;
            this.Out1.Visible = false;
            this.Out1.Click += new System.EventHandler(this.Out1_Click);
            //
            // Out2
            //
            this.Out2.Image =
((System.Drawing.Image)(resources.GetObject("Out2.Image")));
            this.Out2.Location = new System.Drawing.Point(795, -1);
            this.Out2.Margin = new System.Windows.Forms.Padding(4, 5, 4,
5);
            this.Out2.Name = "Out2";
            this.Out2.Size = new System.Drawing.Size(570, 775);
            this.Out2.SizeMode =
System.Windows.Forms.PictureBoxSizeMode.Zoom;
            this.Out2.TabIndex = 20;
            this.Out2.TabStop = false;
            this.Out2.Visible = false;
            //
            // trash_gather
            //
            this.trash_gather.Interval = 1000;
            this.trash_gather.Tick += new
System.EventHandler(this.trash_gather_Tick);
            //
            // Gate0
            //
            this.Gate0.Image =
((System.Drawing.Image)(resources.GetObject("Gate0.Image")));
            this.Gate0.Location = new System.Drawing.Point(794, -11);
            this.Gate0.Margin = new System.Windows.Forms.Padding(4, 5, 4,
5);
            this.Gate0.Name = "Gate0";
            this.Gate0.Size = new System.Drawing.Size(570, 775);
            this.Gate0.SizeMode =
System.Windows.Forms.PictureBoxSizeMode.Zoom;
            this.Gate0.TabIndex = 21;
            this.Gate0.TabStop = false;
            this.Gate0.Visible = false;
            //
            // Control
            //
            this.Control.Image =
((System.Drawing.Image)(resources.GetObject("Control.Image")));
            this.Control.Location = new System.Drawing.Point(794, 25);
            this.Control.Margin = new System.Windows.Forms.Padding(4, 5,
4, 5);
            this.Control.Name = "Control";
            this.Control.Size = new System.Drawing.Size(343, 19);
            this.Control.SizeMode =
System.Windows.Forms.PictureBoxSizeMode.Zoom;
```

```csharp
            this.Control.TabIndex = 23;
            this.Control.TabStop = false;
            this.Control.Visible = false;
            //
            // UD1
            //
            this.UD1.Image =
((System.Drawing.Image)(resources.GetObject("UD1.Image")));
            this.UD1.Location = new System.Drawing.Point(795, 54);
            this.UD1.Margin = new System.Windows.Forms.Padding(4, 5, 4,
5);
            this.UD1.Name = "UD1";
            this.UD1.Size = new System.Drawing.Size(334, 10);
            this.UD1.SizeMode =
System.Windows.Forms.PictureBoxSizeMode.Zoom;
            this.UD1.TabIndex = 24;
            this.UD1.TabStop = false;
            this.UD1.Visible = false;
            //
            // UD2
            //
            this.UD2.Image =
((System.Drawing.Image)(resources.GetObject("UD2.Image")));
            this.UD2.Location = new System.Drawing.Point(794, 77);
            this.UD2.Margin = new System.Windows.Forms.Padding(4, 5, 4,
5);
            this.UD2.Name = "UD2";
            this.UD2.Size = new System.Drawing.Size(337, 10);
            this.UD2.SizeMode =
System.Windows.Forms.PictureBoxSizeMode.Zoom;
            this.UD2.TabIndex = 25;
            this.UD2.TabStop = false;
            this.UD2.Visible = false;
            //
            // UD3
            //
            this.UD3.Image =
((System.Drawing.Image)(resources.GetObject("UD3.Image")));
            this.UD3.Location = new System.Drawing.Point(795, 101);
            this.UD3.Margin = new System.Windows.Forms.Padding(4, 5, 4,
5);
            this.UD3.Name = "UD3";
            this.UD3.Size = new System.Drawing.Size(335, 10);
            this.UD3.SizeMode =
System.Windows.Forms.PictureBoxSizeMode.Zoom;
            this.UD3.TabIndex = 26;
            this.UD3.TabStop = false;
            this.UD3.Visible = false;
            //
            // UD33
            //
            this.UD33.Image =
((System.Drawing.Image)(resources.GetObject("UD33.Image")));
            this.UD33.Location = new System.Drawing.Point(795, 175);
            this.UD33.Margin = new System.Windows.Forms.Padding(4, 5, 4,
5);
            this.UD33.Name = "UD33";
            this.UD33.Size = new System.Drawing.Size(335, 10);
            this.UD33.SizeMode =
System.Windows.Forms.PictureBoxSizeMode.Zoom;
            this.UD33.TabIndex = 29;
```

```csharp
            this.UD33.TabStop = false;
            this.UD33.Visible = false;
            //
            // UD22
            //
            this.UD22.Image =
((System.Drawing.Image)(resources.GetObject("UD22.Image")));
            this.UD22.Location = new System.Drawing.Point(795, 151);
            this.UD22.Margin = new System.Windows.Forms.Padding(4, 5, 4,
5);
            this.UD22.Name = "UD22";
            this.UD22.Size = new System.Drawing.Size(339, 10);
            this.UD22.SizeMode =
System.Windows.Forms.PictureBoxSizeMode.Zoom;
            this.UD22.TabIndex = 28;
            this.UD22.TabStop = false;
            this.UD22.Visible = false;
            //
            // UD11
            //
            this.UD11.Image =
((System.Drawing.Image)(resources.GetObject("UD11.Image")));
            this.UD11.Location = new System.Drawing.Point(795, 126);
            this.UD11.Margin = new System.Windows.Forms.Padding(4, 5, 4,
5);
            this.UD11.Name = "UD11";
            this.UD11.Size = new System.Drawing.Size(335, 10);
            this.UD11.SizeMode =
System.Windows.Forms.PictureBoxSizeMode.Zoom;
            this.UD11.TabIndex = 27;
            this.UD11.TabStop = false;
            this.UD11.Visible = false;
            //
            // NoLight
            //
            this.NoLight.Location = new System.Drawing.Point(1197, 56);
            this.NoLight.Margin = new System.Windows.Forms.Padding(4, 5,
4, 5);
            this.NoLight.Name = "NoLight";
            this.NoLight.Size = new System.Drawing.Size(95, 99);
            this.NoLight.TabIndex = 30;
            this.NoLight.TabStop = false;
            //
            // Light
            //
            this.Light.BorderStyle =
System.Windows.Forms.BorderStyle.FixedSingle;
            this.Light.Location = new System.Drawing.Point(1197, 56);
            this.Light.Margin = new System.Windows.Forms.Padding(4, 5, 4,
5);
            this.Light.Name = "Light";
            this.Light.Size = new System.Drawing.Size(94, 97);
            this.Light.TabIndex = 31;
            this.Light.TabStop = false;
            this.Light.Click += new System.EventHandler(this.Light_Click);
            //
            // Yes
            //
            this.Yes.BackColor = System.Drawing.Color.Lime;
            this.Yes.BorderStyle =
System.Windows.Forms.BorderStyle.FixedSingle;
```

```csharp
            this.Yes.Location = new System.Drawing.Point(1195, 56);
            this.Yes.Margin = new System.Windows.Forms.Padding(4, 5, 4,
5);
            this.Yes.Name = "Yes";
            this.Yes.Size = new System.Drawing.Size(94, 97);
            this.Yes.TabIndex = 32;
            this.Yes.TabStop = false;
            this.Yes.Visible = false;
            //
            // label1
            //
            this.label1.AutoSize = true;
            this.label1.Location = new System.Drawing.Point(1165, 248);
            this.label1.Margin = new System.Windows.Forms.Padding(4, 0, 4,
0);
            this.label1.Name = "label1";
            this.label1.Size = new System.Drawing.Size(28, 20);
            this.label1.TabIndex = 33;
            this.label1.Text = "D1";
            //
            // label4
            //
            this.label4.AutoSize = true;
            this.label4.Location = new System.Drawing.Point(1198, 21);
            this.label4.Margin = new System.Windows.Forms.Padding(4, 0, 4,
0);
            this.label4.Name = "label4";
            this.label4.Size = new System.Drawing.Size(53, 20);
            this.label4.TabIndex = 36;
            this.label4.Text = "Object";
            //
            // label5
            //
            this.label5.AutoSize = true;
            this.label5.Location = new System.Drawing.Point(1210, 176);
            this.label5.Margin = new System.Windows.Forms.Padding(4, 0, 4,
0);
            this.label5.Name = "label5";
            this.label5.Size = new System.Drawing.Size(68, 20);
            this.label5.TabIndex = 37;
            this.label5.Text = "Indicator";
            //
            // label6
            //
            this.label6.AutoSize = true;
            this.label6.Location = new System.Drawing.Point(665, 14);
            this.label6.Margin = new System.Windows.Forms.Padding(4, 0, 4,
0);
            this.label6.Name = "label6";
            this.label6.Size = new System.Drawing.Size(45, 40);
            this.label6.TabIndex = 38;
            this.label6.Text = "  PPI\r\nI8255";
            //
            // label7
            //
            this.label7.AutoSize = true;
            this.label7.Location = new System.Drawing.Point(139, 40);
            this.label7.Margin = new System.Windows.Forms.Padding(4, 0, 4,
0);
            this.label7.Name = "label7";
            this.label7.Size = new System.Drawing.Size(36, 20);
```

```csharp
            this.label7.TabIndex = 39;
            this.label7.Text = "CPU";
            //
            // label8
            //
            this.label8.AutoSize = true;
            this.label8.Location = new System.Drawing.Point(454, 16);
            this.label8.Margin = new System.Windows.Forms.Padding(4, 0, 4,
0);
            this.label8.Name = "label8";
            this.label8.Size = new System.Drawing.Size(29, 20);
            this.label8.TabIndex = 40;
            this.label8.Text = "DB";
            //
            // label9
            //
            this.label9.AutoSize = true;
            this.label9.Location = new System.Drawing.Point(457, 44);
            this.label9.Margin = new System.Windows.Forms.Padding(4, 0, 4,
0);
            this.label9.Name = "label9";
            this.label9.Size = new System.Drawing.Size(17, 20);
            this.label9.TabIndex = 41;
            this.label9.Text = "8";
            //
            // label10
            //
            this.label10.AutoSize = true;
            this.label10.Location = new System.Drawing.Point(458, 98);
            this.label10.Margin = new System.Windows.Forms.Padding(4, 0,
4, 0);
            this.label10.Name = "label10";
            this.label10.Size = new System.Drawing.Size(27, 20);
            this.label10.TabIndex = 42;
            this.label10.Text = "CB";
            //
            // label11
            //
            this.label11.AutoSize = true;
            this.label11.Location = new System.Drawing.Point(458, 202);
            this.label11.Margin = new System.Windows.Forms.Padding(4, 0,
4, 0);
            this.label11.Name = "label11";
            this.label11.Size = new System.Drawing.Size(28, 20);
            this.label11.TabIndex = 43;
            this.label11.Text = "AB";
            //
            // label12
            //
            this.label12.AutoSize = true;
            this.label12.Location = new System.Drawing.Point(944, 4);
            this.label12.Margin = new System.Windows.Forms.Padding(4, 0,
4, 0);
            this.label12.Name = "label12";
            this.label12.Size = new System.Drawing.Size(58, 20);
            this.label12.TabIndex = 44;
            this.label12.Text = "Control";
            //
            // label13
            //
            this.label13.AutoSize = true;
```

```csharp
            this.label13.Location = new System.Drawing.Point(591, 24);
            this.label13.Margin = new System.Windows.Forms.Padding(4, 0,
4, 0);
            this.label13.Name = "label13";
            this.label13.Size = new System.Drawing.Size(20, 20);
            this.label13.TabIndex = 45;
            this.label13.Text = "D";
            //
            // label14
            //
            this.label14.AutoSize = true;
            this.label14.Location = new System.Drawing.Point(591, 56);
            this.label14.Margin = new System.Windows.Forms.Padding(4, 0,
4, 0);
            this.label14.Name = "label14";
            this.label14.Size = new System.Drawing.Size(32, 40);
            this.label14.TabIndex = 46;
            this.label14.Text = "___\r\nWR";
            //
            // label15
            //
            this.label15.AutoSize = true;
            this.label15.Location = new System.Drawing.Point(593, 491);
            this.label15.Margin = new System.Windows.Forms.Padding(4, 0,
4, 0);
            this.label15.Name = "label15";
            this.label15.Size = new System.Drawing.Size(32, 40);
            this.label15.TabIndex = 47;
            this.label15.Text = "___\r\nWR";
            //
            // label16
            //
            this.label16.AutoSize = true;
            this.label16.Location = new System.Drawing.Point(591, 96);
            this.label16.Margin = new System.Windows.Forms.Padding(4, 0,
4, 0);
            this.label16.Name = "label16";
            this.label16.Size = new System.Drawing.Size(29, 40);
            this.label16.TabIndex = 48;
            this.label16.Text = "___\r\nRD";
            //
            // label17
            //
            this.label17.AutoSize = true;
            this.label17.Location = new System.Drawing.Point(593, 531);
            this.label17.Margin = new System.Windows.Forms.Padding(4, 0,
4, 0);
            this.label17.Name = "label17";
            this.label17.Size = new System.Drawing.Size(29, 40);
            this.label17.TabIndex = 49;
            this.label17.Text = "___\r\nRD";
            //
            // label18
            //
            this.label18.AutoSize = true;
            this.label18.Location = new System.Drawing.Point(591, 280);
            this.label18.Margin = new System.Windows.Forms.Padding(4, 0,
4, 0);
            this.label18.Name = "label18";
            this.label18.Size = new System.Drawing.Size(34, 40);
            this.label18.TabIndex = 50;
```

```csharp
            this.label18.Text = "___\r\nCS1";
            // 
            // label19
            // 
            this.label19.AutoSize = true;
            this.label19.Location = new System.Drawing.Point(593, 654);
            this.label19.Margin = new System.Windows.Forms.Padding(4, 0, 
4, 0);
            this.label19.Name = "label19";
            this.label19.Size = new System.Drawing.Size(34, 40);
            this.label19.TabIndex = 51;
            this.label19.Text = "___\r\nCS2";
            // 
            // label20
            // 
            this.label20.AutoSize = true;
            this.label20.Location = new System.Drawing.Point(598, 458);
            this.label20.Margin = new System.Windows.Forms.Padding(4, 0, 
4, 0);
            this.label20.Name = "label20";
            this.label20.Size = new System.Drawing.Size(20, 20);
            this.label20.TabIndex = 52;
            this.label20.Text = "D";
            // 
            // label21
            // 
            this.label21.AutoSize = true;
            this.label21.Location = new System.Drawing.Point(595, 589);
            this.label21.Margin = new System.Windows.Forms.Padding(4, 0, 
4, 0);
            this.label21.Name = "label21";
            this.label21.Size = new System.Drawing.Size(27, 20);
            this.label21.TabIndex = 53;
            this.label21.Text = "A1";
            // 
            // label22
            // 
            this.label22.AutoSize = true;
            this.label22.Location = new System.Drawing.Point(596, 624);
            this.label22.Margin = new System.Windows.Forms.Padding(4, 0, 
4, 0);
            this.label22.Name = "label22";
            this.label22.Size = new System.Drawing.Size(27, 20);
            this.label22.TabIndex = 54;
            this.label22.Text = "A0";
            // 
            // label23
            // 
            this.label23.AutoSize = true;
            this.label23.Location = new System.Drawing.Point(591, 202);
            this.label23.Margin = new System.Windows.Forms.Padding(4, 0, 
4, 0);
            this.label23.Name = "label23";
            this.label23.Size = new System.Drawing.Size(27, 20);
            this.label23.TabIndex = 56;
            this.label23.Text = "A0";
            // 
            // label24
            // 
            this.label24.AutoSize = true;
            this.label24.Location = new System.Drawing.Point(591, 152);
```

```csharp
            this.label24.Margin = new System.Windows.Forms.Padding(4, 0,
4, 0);
            this.label24.Name = "label24";
            this.label24.Size = new System.Drawing.Size(27, 20);
            this.label24.TabIndex = 55;
            this.label24.Text = "A1";
            //
            // label25
            //
            this.label25.AutoSize = true;
            this.label25.Location = new System.Drawing.Point(665, 421);
            this.label25.Margin = new System.Windows.Forms.Padding(4, 0,
4, 0);
            this.label25.Name = "label25";
            this.label25.Size = new System.Drawing.Size(45, 40);
            this.label25.TabIndex = 57;
            this.label25.Text = "  PT\r\nI8253";
            //
            // label26
            //
            this.label26.AutoSize = true;
            this.label26.Location = new System.Drawing.Point(752, 25);
            this.label26.Margin = new System.Windows.Forms.Padding(4, 0,
4, 0);
            this.label26.Name = "label26";
            this.label26.Size = new System.Drawing.Size(34, 20);
            this.label26.TabIndex = 58;
            this.label26.Text = "PC0";
            //
            // label27
            //
            this.label27.AutoSize = true;
            this.label27.Location = new System.Drawing.Point(752, 49);
            this.label27.Margin = new System.Windows.Forms.Padding(4, 0,
4, 0);
            this.label27.Name = "label27";
            this.label27.Size = new System.Drawing.Size(34, 20);
            this.label27.TabIndex = 59;
            this.label27.Text = "PA0";
            //
            // label28
            //
            this.label28.AutoSize = true;
            this.label28.Location = new System.Drawing.Point(752, 72);
            this.label28.Margin = new System.Windows.Forms.Padding(4, 0,
4, 0);
            this.label28.Name = "label28";
            this.label28.Size = new System.Drawing.Size(34, 20);
            this.label28.TabIndex = 60;
            this.label28.Text = "PA1";
            //
            // label29
            //
            this.label29.AutoSize = true;
            this.label29.Location = new System.Drawing.Point(751, 96);
            this.label29.Margin = new System.Windows.Forms.Padding(4, 0,
4, 0);
            this.label29.Name = "label29";
            this.label29.Size = new System.Drawing.Size(34, 20);
            this.label29.TabIndex = 61;
            this.label29.Text = "PA2";
```

```csharp
            //
            // label30
            //
            this.label30.AutoSize = true;
            this.label30.Location = new System.Drawing.Point(751, 120);
            this.label30.Margin = new System.Windows.Forms.Padding(4, 0,
4, 0);
            this.label30.Name = "label30";
            this.label30.Size = new System.Drawing.Size(34, 20);
            this.label30.TabIndex = 62;
            this.label30.Text = "PB0";
            //
            // label31
            //
            this.label31.AutoSize = true;
            this.label31.Location = new System.Drawing.Point(752, 173);
            this.label31.Margin = new System.Windows.Forms.Padding(4, 0,
4, 0);
            this.label31.Name = "label31";
            this.label31.Size = new System.Drawing.Size(34, 20);
            this.label31.TabIndex = 63;
            this.label31.Text = "PB2";
            //
            // label32
            //
            this.label32.AutoSize = true;
            this.label32.Location = new System.Drawing.Point(757, 294);
            this.label32.Margin = new System.Windows.Forms.Padding(4, 0,
4, 0);
            this.label32.Name = "label32";
            this.label32.Size = new System.Drawing.Size(34, 20);
            this.label32.TabIndex = 64;
            this.label32.Text = "PC3";
            //
            // label33
            //
            this.label33.AutoSize = true;
            this.label33.Location = new System.Drawing.Point(751, 147);
            this.label33.Margin = new System.Windows.Forms.Padding(4, 0,
4, 0);
            this.label33.Name = "label33";
            this.label33.Size = new System.Drawing.Size(34, 20);
            this.label33.TabIndex = 65;
            this.label33.Text = "PB1";
            //
            // label34
            //
            this.label34.AutoSize = true;
            this.label34.Location = new System.Drawing.Point(756, 226);
            this.label34.Margin = new System.Windows.Forms.Padding(4, 0,
4, 0);
            this.label34.Name = "label34";
            this.label34.Size = new System.Drawing.Size(34, 20);
            this.label34.TabIndex = 66;
            this.label34.Text = "PC6";
            //
            // label35
            //
            this.label35.AutoSize = true;
            this.label35.Location = new System.Drawing.Point(757, 250);
```

```csharp
            this.label35.Margin = new System.Windows.Forms.Padding(4, 0,
4, 0);
            this.label35.Name = "label35";
            this.label35.Size = new System.Drawing.Size(34, 20);
            this.label35.TabIndex = 67;
            this.label35.Text = "PC5";
            //
            // label36
            //
            this.label36.AutoSize = true;
            this.label36.Location = new System.Drawing.Point(747, 421);
            this.label36.Margin = new System.Windows.Forms.Padding(4, 0,
4, 0);
            this.label36.Name = "label36";
            this.label36.Size = new System.Drawing.Size(48, 20);
            this.label36.TabIndex = 68;
            this.label36.Text = "Gate0";
            //
            // label37
            //
            this.label37.AutoSize = true;
            this.label37.Location = new System.Drawing.Point(756, 334);
            this.label37.Margin = new System.Windows.Forms.Padding(4, 0,
4, 0);
            this.label37.Name = "label37";
            this.label37.Size = new System.Drawing.Size(34, 20);
            this.label37.TabIndex = 69;
            this.label37.Text = "PC1";
            //
            // label38
            //
            this.label38.AutoSize = true;
            this.label38.Location = new System.Drawing.Point(756, 314);
            this.label38.Margin = new System.Windows.Forms.Padding(4, 0,
4, 0);
            this.label38.Name = "label38";
            this.label38.Size = new System.Drawing.Size(34, 20);
            this.label38.TabIndex = 70;
            this.label38.Text = "PC2";
            //
            // label39
            //
            this.label39.AutoSize = true;
            this.label39.Location = new System.Drawing.Point(756, 274);
            this.label39.Margin = new System.Windows.Forms.Padding(4, 0,
4, 0);
            this.label39.Name = "label39";
            this.label39.Size = new System.Drawing.Size(34, 20);
            this.label39.TabIndex = 71;
            this.label39.Text = "PC4";
            //
            // label40
            //
            this.label40.AutoSize = true;
            this.label40.Location = new System.Drawing.Point(737, 442);
            this.label40.Margin = new System.Windows.Forms.Padding(4, 0,
4, 0);
            this.label40.Name = "label40";
            this.label40.Size = new System.Drawing.Size(59, 20);
            this.label40.TabIndex = 72;
            this.label40.Text = "CLKCT1";
```

```csharp
// 
// label41
// 
this.label41.AutoSize = true;
this.label41.Location = new System.Drawing.Point(737, 469);
this.label41.Margin = new System.Windows.Forms.Padding(4, 0, 4, 0);
this.label41.Name = "label41";
this.label41.Size = new System.Drawing.Size(59, 20);
this.label41.TabIndex = 73;
this.label41.Text = "CLKCT2";
// 
// label42
// 
this.label42.AutoSize = true;
this.label42.Location = new System.Drawing.Point(737, 495);
this.label42.Margin = new System.Windows.Forms.Padding(4, 0, 4, 0);
this.label42.Name = "label42";
this.label42.Size = new System.Drawing.Size(58, 20);
this.label42.TabIndex = 74;
this.label42.Text = "OutCT0";
// 
// label43
// 
this.label43.AutoSize = true;
this.label43.Location = new System.Drawing.Point(738, 531);
this.label43.Margin = new System.Windows.Forms.Padding(4, 0, 4, 0);
this.label43.Name = "label43";
this.label43.Size = new System.Drawing.Size(58, 20);
this.label43.TabIndex = 75;
this.label43.Text = "OutCT1";
// 
// label44
// 
this.label44.AutoSize = true;
this.label44.Location = new System.Drawing.Point(738, 561);
this.label44.Margin = new System.Windows.Forms.Padding(4, 0, 4, 0);
this.label44.Name = "label44";
this.label44.Size = new System.Drawing.Size(58, 20);
this.label44.TabIndex = 76;
this.label44.Text = "OutCT2";
// 
// label45
// 
this.label45.AutoSize = true;
this.label45.Location = new System.Drawing.Point(730, 612);
this.label45.Margin = new System.Windows.Forms.Padding(4, 0, 4, 0);
this.label45.Name = "label45";
this.label45.Size = new System.Drawing.Size(65, 20);
this.label45.TabIndex = 77;
this.label45.Text = "GateCT1";
// 
// label46
// 
this.label46.AutoSize = true;
this.label46.Location = new System.Drawing.Point(731, 641);
```

```csharp
            this.label46.Margin = new System.Windows.Forms.Padding(4, 0,
4, 0);
            this.label46.Name = "label46";
            this.label46.Size = new System.Drawing.Size(65, 20);
            this.label46.TabIndex = 78;
            this.label46.Text = "GateCT2";
            //
            // res
            //
            this.res.Location = new System.Drawing.Point(49, 442);
            this.res.Margin = new System.Windows.Forms.Padding(4, 5, 4,
5);
            this.res.Name = "res";
            this.res.Size = new System.Drawing.Size(250, 438);
            this.res.TabIndex = 80;
            this.res.Text = "";
            //
            // D10
            //
            this.D10.AutoSize = true;
            this.D10.Location = new System.Drawing.Point(1136, 246);
            this.D10.Margin = new System.Windows.Forms.Padding(4, 5, 4,
5);
            this.D10.Name = "D10";
            this.D10.Size = new System.Drawing.Size(50, 24);
            this.D10.TabIndex = 84;
            this.D10.Text = "D1";
            this.D10.UseVisualStyleBackColor = true;
            this.D10.CheckedChanged += new
System.EventHandler(this.D10_CheckedChanged);
            //
            // D20
            //
            this.D20.AutoSize = true;
            this.D20.Location = new System.Drawing.Point(1134, 286);
            this.D20.Margin = new System.Windows.Forms.Padding(4, 5, 4,
5);
            this.D20.Name = "D20";
            this.D20.Size = new System.Drawing.Size(50, 24);
            this.D20.TabIndex = 85;
            this.D20.Text = "D2";
            this.D20.UseVisualStyleBackColor = true;
            this.D20.CheckedChanged += new
System.EventHandler(this.D20_CheckedChanged);
            //
            // D30
            //
            this.D30.AutoSize = true;
            this.D30.Location = new System.Drawing.Point(1134, 324);
            this.D30.Margin = new System.Windows.Forms.Padding(4, 5, 4,
5);
            this.D30.Name = "D30";
            this.D30.Size = new System.Drawing.Size(50, 24);
            this.D30.TabIndex = 86;
            this.D30.Text = "D3";
            this.D30.UseVisualStyleBackColor = true;
            this.D30.CheckedChanged += new
System.EventHandler(this.D30_CheckedChanged);
            //
            // CLK
            //
```

```csharp
            this.CLK.Image =
((System.Drawing.Image)(resources.GetObject("CLK.Image")));
            this.CLK.Location = new System.Drawing.Point(803, 684);
            this.CLK.Margin = new System.Windows.Forms.Padding(4, 5, 4,
5);
            this.CLK.Name = "CLK";
            this.CLK.Size = new System.Drawing.Size(104, 20);
            this.CLK.SizeMode =
System.Windows.Forms.PictureBoxSizeMode.Zoom;
            this.CLK.TabIndex = 22;
            this.CLK.TabStop = false;
            this.CLK.Visible = false;
            //
            // label47
            //
            this.label47.AutoSize = true;
            this.label47.Location = new System.Drawing.Point(736, 684);
            this.label47.Margin = new System.Windows.Forms.Padding(4, 0,
4, 0);
            this.label47.Name = "label47";
            this.label47.Size = new System.Drawing.Size(59, 20);
            this.label47.TabIndex = 79;
            this.label47.Text = "CLKCT0";
            //
            // Form1
            //
            this.AutoScaleDimensions = new System.Drawing.SizeF(8F, 20F);
            this.AutoScaleMode = System.Windows.Forms.AutoScaleMode.Font;
            this.BackColor = System.Drawing.SystemColors.ButtonHighlight;
            this.ClientSize = new System.Drawing.Size(1712, 1202);
            this.Controls.Add(this.D30);
            this.Controls.Add(this.D20);
            this.Controls.Add(this.D10);
            this.Controls.Add(this.res);
            this.Controls.Add(this.label47);
            this.Controls.Add(this.label46);
            this.Controls.Add(this.label45);
            this.Controls.Add(this.label44);
            this.Controls.Add(this.label43);
            this.Controls.Add(this.label42);
            this.Controls.Add(this.label41);
            this.Controls.Add(this.label40);
            this.Controls.Add(this.label39);
            this.Controls.Add(this.label38);
            this.Controls.Add(this.label37);
            this.Controls.Add(this.label36);
            this.Controls.Add(this.label35);
            this.Controls.Add(this.label34);
            this.Controls.Add(this.label33);
            this.Controls.Add(this.label32);
            this.Controls.Add(this.label31);
            this.Controls.Add(this.label30);
            this.Controls.Add(this.label29);
            this.Controls.Add(this.label28);
            this.Controls.Add(this.label27);
            this.Controls.Add(this.label26);
            this.Controls.Add(this.label25);
            this.Controls.Add(this.Clock2);
            this.Controls.Add(this.Clock1);
            this.Controls.Add(this.label23);
            this.Controls.Add(this.label24);
```

```csharp
            this.Controls.Add(this.label22);
            this.Controls.Add(this.label21);
            this.Controls.Add(this.label20);
            this.Controls.Add(this.label19);
            this.Controls.Add(this.label18);
            this.Controls.Add(this.label17);
            this.Controls.Add(this.label16);
            this.Controls.Add(this.label15);
            this.Controls.Add(this.label14);
            this.Controls.Add(this.label13);
            this.Controls.Add(this.label12);
            this.Controls.Add(this.label11);
            this.Controls.Add(this.label10);
            this.Controls.Add(this.label9);
            this.Controls.Add(this.label8);
            this.Controls.Add(this.label7);
            this.Controls.Add(this.label6);
            this.Controls.Add(this.label5);
            this.Controls.Add(this.label4);
            this.Controls.Add(this.label1);
            this.Controls.Add(this.D3);
            this.Controls.Add(this.D2);
            this.Controls.Add(this.D1);
            this.Controls.Add(this.button2);
            this.Controls.Add(this.button1);
            this.Controls.Add(this.Yes);
            this.Controls.Add(this.Light);
            this.Controls.Add(this.NoLight);
            this.Controls.Add(this.UD33);
            this.Controls.Add(this.UD22);
            this.Controls.Add(this.UD11);
            this.Controls.Add(this.UD3);
            this.Controls.Add(this.UD2);
            this.Controls.Add(this.UD1);
            this.Controls.Add(this.Control);
            this.Controls.Add(this.pictureBox3);
            this.Controls.Add(this.CLK);
            this.Controls.Add(this.pictureBox1);
            this.Controls.Add(this.GrRight);
            this.Controls.Add(this.BlLeft);
            this.Controls.Add(this.pictureBox2);
            this.Controls.Add(this.Clk1);
            this.Controls.Add(this.Out0);
            this.Controls.Add(this.turned);
            this.Controls.Add(this.Out2);
            this.Controls.Add(this.Gate0);
            this.Controls.Add(this.Out1);
            this.Controls.Add(this.turnedoff_D1);
            this.Controls.Add(this.Clk2);
            this.Controls.Add(this.turnoff_no);
            this.Margin = new System.Windows.Forms.Padding(4, 5, 4, 5);
            this.Name = "Form1";
            this.Text = "Form1";

        ((System.ComponentModel.ISupportInitialize)(this.pictureBox1)).EndInit();

        ((System.ComponentModel.ISupportInitialize)(this.pictureBox2)).EndInit();

        ((System.ComponentModel.ISupportInitialize)(this.pictureBox3)).EndInit();

        ((System.ComponentModel.ISupportInitialize)(this.GrRight)).EndInit();
```

```csharp
((System.ComponentModel.ISupportInitialize)(this.BlLeft)).EndInit();

((System.ComponentModel.ISupportInitialize)(this.turned)).EndInit();

((System.ComponentModel.ISupportInitialize)(this.Out0)).EndInit();

((System.ComponentModel.ISupportInitialize)(this.Clk1)).EndInit();

((System.ComponentModel.ISupportInitialize)(this.turnoff_no)).EndInit();

((System.ComponentModel.ISupportInitialize)(this.Clk2)).EndInit();

((System.ComponentModel.ISupportInitialize)(this.turnedoff_D1)).EndInit();

((System.ComponentModel.ISupportInitialize)(this.Out1)).EndInit();

((System.ComponentModel.ISupportInitialize)(this.Out2)).EndInit();

((System.ComponentModel.ISupportInitialize)(this.Gate0)).EndInit();

((System.ComponentModel.ISupportInitialize)(this.Control)).EndInit();

((System.ComponentModel.ISupportInitialize)(this.UD1)).EndInit();

((System.ComponentModel.ISupportInitialize)(this.UD2)).EndInit();

((System.ComponentModel.ISupportInitialize)(this.UD3)).EndInit();

((System.ComponentModel.ISupportInitialize)(this.UD33)).EndInit();

((System.ComponentModel.ISupportInitialize)(this.UD22)).EndInit();

((System.ComponentModel.ISupportInitialize)(this.UD11)).EndInit();

((System.ComponentModel.ISupportInitialize)(this.NoLight)).EndInit();

((System.ComponentModel.ISupportInitialize)(this.Light)).EndInit();

((System.ComponentModel.ISupportInitialize)(this.Yes)).EndInit();

((System.ComponentModel.ISupportInitialize)(this.CLK)).EndInit();
            this.ResumeLayout(false);
            this.PerformLayout();

        }

        #endregion

        private System.Windows.Forms.PictureBox pictureBox1;
        private System.Windows.Forms.PictureBox pictureBox2;
        private System.Windows.Forms.PictureBox pictureBox3;
        private System.Windows.Forms.PictureBox GrRight;
        private System.Windows.Forms.PictureBox BlLeft;
        private System.Windows.Forms.Button button1;
        private System.Windows.Forms.Button button2;
        private System.Windows.Forms.PictureBox turned;
        private System.Windows.Forms.CheckBox D1;
        private System.Windows.Forms.CheckBox D2;
        private System.Windows.Forms.CheckBox D3;
        private System.Windows.Forms.Timer timer1;
```

```csharp
        private System.Windows.Forms.PictureBox Out0;
        private System.Windows.Forms.Timer timer2;
        private System.Windows.Forms.Timer timer3;
        private System.Windows.Forms.Timer timer4;
        private System.Windows.Forms.TextBox Clock1;
        private System.Windows.Forms.TextBox Clock2;
        private System.Windows.Forms.PictureBox Clk1;
        private System.Windows.Forms.Timer fin;
        private System.Windows.Forms.PictureBox turnoff_no;
        private System.Windows.Forms.PictureBox Clk2;
        private System.Windows.Forms.PictureBox turnedoff_D1;
        private System.Windows.Forms.PictureBox Out1;
        private System.Windows.Forms.PictureBox Out2;
        private System.Windows.Forms.Timer trash_gather;
        private System.Windows.Forms.PictureBox Gate0;
        private System.Windows.Forms.PictureBox Control;
        private System.Windows.Forms.PictureBox UD1;
        private System.Windows.Forms.PictureBox UD2;
        private System.Windows.Forms.PictureBox UD3;
        private System.Windows.Forms.PictureBox UD33;
        private System.Windows.Forms.PictureBox UD22;
        private System.Windows.Forms.PictureBox UD11;
        private System.Windows.Forms.PictureBox NoLight;
        private System.Windows.Forms.PictureBox Light;
        private System.Windows.Forms.PictureBox Yes;
        private System.Windows.Forms.Label label1;
        private System.Windows.Forms.Label label4;
        private System.Windows.Forms.Label label5;
        private System.Windows.Forms.Label label6;
        private System.Windows.Forms.Label label7;
        private System.Windows.Forms.Label label8;
        private System.Windows.Forms.Label label9;
        private System.Windows.Forms.Label label10;
        private System.Windows.Forms.Label label11;
        private System.Windows.Forms.Label label12;
        private System.Windows.Forms.Label label13;
        private System.Windows.Forms.Label label14;
        private System.Windows.Forms.Label label15;
        private System.Windows.Forms.Label label16;
        private System.Windows.Forms.Label label17;
        private System.Windows.Forms.Label label18;
        private System.Windows.Forms.Label label19;
        private System.Windows.Forms.Label label20;
        private System.Windows.Forms.Label label21;
        private System.Windows.Forms.Label label22;
        private System.Windows.Forms.Label label23;
        private System.Windows.Forms.Label label24;
        private System.Windows.Forms.Label label25;
        private System.Windows.Forms.Label label26;
        private System.Windows.Forms.Label label27;
        private System.Windows.Forms.Label label28;
        private System.Windows.Forms.Label label29;
        private System.Windows.Forms.Label label30;
        private System.Windows.Forms.Label label31;
        private System.Windows.Forms.Label label32;
        private System.Windows.Forms.Label label33;
        private System.Windows.Forms.Label label34;
        private System.Windows.Forms.Label label35;
        private System.Windows.Forms.Label label36;
        private System.Windows.Forms.Label label37;
        private System.Windows.Forms.Label label38;
```

```csharp
        private System.Windows.Forms.Label label39;
        private System.Windows.Forms.Label label40;
        private System.Windows.Forms.Label label41;
        private System.Windows.Forms.Label label42;
        private System.Windows.Forms.Label label43;
        private System.Windows.Forms.Label label44;
        private System.Windows.Forms.Label label45;
        private System.Windows.Forms.Label label46;
        private System.Windows.Forms.RichTextBox res;
        private System.Windows.Forms.CheckBox D10;
        private System.Windows.Forms.CheckBox D20;
        private System.Windows.Forms.CheckBox D30;
        private System.Windows.Forms.PictureBox CLK;
        private System.Windows.Forms.Label label47;
    }
}
```