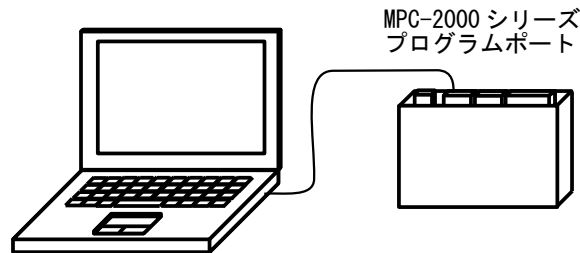


Technical Information		Ref No: ti2k-150525	Last Modify 150525
Title	VC++の MPC プログラム LOAD、SAVE サンプル		

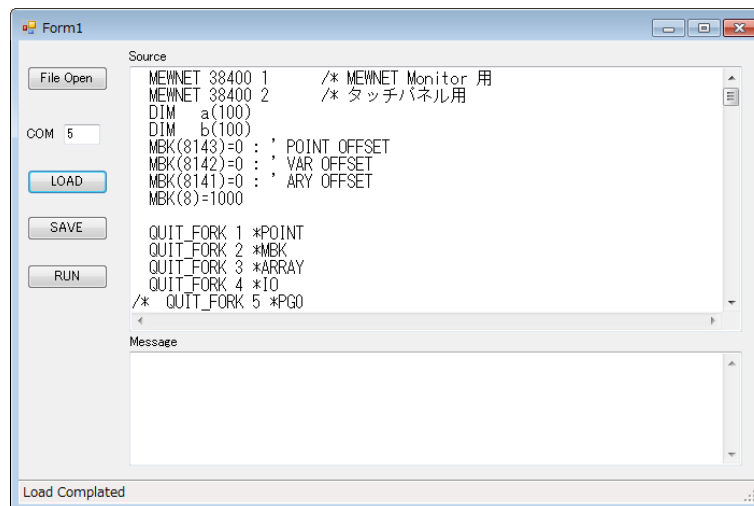
概要

ユーザーが作成する管理アプリケーションに読み込み(LOAD)、保存(SAVE)を組み込む際の参考にして下さい。

サンプルはVC++2008 Express CLR Windows Application です。プロジェクトで公開します。弊社技術サポートまでご請求ください。



ユーザーが作成する
アプリケーションで
LOAD、SAVE をします。



コード

```
// ファイルを textBox に読み込む(デバッグがし易いように)
private: System::Void button1_Click(System::Object^ sender, System::EventArgs^ e) {
    openFileDialog1->FileName="";
    openFileDialog1->Filter = "F2K|*.F2K";
    if ( openFileDialog1->ShowDialog() == Windows::Forms::DialogResult::OK) {
        StreamReader ^ fin = gcnew StreamReader( openFileDialog1->FileName,
            System::Text::Encoding::GetEncoding("shift-jis") );
        textBox1->Text= fin->ReadToEnd();
        fin->Close();
    }
}

// COMポートオープン
private: void serial_open(int portnum) {
    serialPort1->PortName="COM" + portnum.ToString();
    serialPort1->BaudRate=38400;
    serialPort1->DataBits=8;
}
```

```

serialPort1->Parity=System::IO::Ports::Parity::None ;
serialPort1->Handshake=System::IO::Ports::Handshake::None;
serialPort1->StopBits=System::IO::Ports::StopBits::One;
serialPort1->Encoding =System::Text::Encoding::GetEncoding("Shift_JIS");
serialPort1->ReadTimeout=2000;
serialPort1->Open();
}

// 0x01コードを送信してプログラムを停止する
private: void mpc_quit() {
    String^ res="";

    try{
        toolStripStatusLabel1->Text="QUIT";
        Application::DoEvents();
        array<Byte> ^ TxBuffer={0x01};
        serialPort1->Write(TxBuffer,0,TxBuffer->Length); // Stop MPC Program
        res = serialPort1->ReadTo("%n#");
        Thread::Sleep(1000);
        serialPort1->DiscardInBuffer();
        serialPort1->DiscardOutBuffer();

    } catch(Exception^ e) {
        MessageBox::Show(e->ToString());
    }
}

// MPCにプログラムを読み込む
private: System::Void button2_Click(System::Object^ sender, System::EventArgs^ e) {
    String^ res="";
    int linewidth = 0 ;
    int commentpos;

    try{
        serial_open( Convert::ToInt32(textBox3->Text));

        mpc_quit(); // Quit Program
        serialPort1->Write("NEW\r"); // Clear Program
        res = serialPort1->ReadTo("%n#"); // wait for prompt

        textBox2->Clear();
        for each(String^ s in textBox1->Lines) {
            commentpos = s->IndexOf("/");
            if( commentpos >= 0) {
                s = s->Substring(0, commentpos);
            }
            s = s->Trim();
            if(s->Length > 0) {
                linewidth += 10; // create line number
                toolStripStatusLabel1->Text="Loading "+ (linewidth/10).ToString();
                Application::DoEvents();
                serialPort1->Write(linewidth.ToString() + " " + s + "\r"); // send to the MPC
                res = serialPort1->ReadTo("%r\n"); // read echo back
                res = serialPort1->ReadTo("#");
                if( (res->Trim())->Length > 0) { // error response
                    textBox2->AppendText(res);
                }
            }
        }
        toolStripStatusLabel1->Text="Load Completed";

    } catch(Exception^ e) {
        MessageBox::Show(e->ToString());
    }
    serialPort1->Close();
}

private: System::Void button3_Click(System::Object^ sender, System::EventArgs^ e) {

```

```

String^ res="";
try{
    serial_open( Convert::ToInt32(textBox3->Text));
    mpc_quit();
    toolStripStatusLabel1->Text="RUN";
    serialPort1->Write("RUN¥r"); // execute program
    res = serialPort1->ReadTo("¥r¥n"); // read echo back
} catch(Exception^ e){
    MessageBox::Show(e->ToString());
}
serialPort1->Close();
}

// プログラムを保存する
private: System::Void button4_Click(System::Object^ sender, System::EventArgs^ e) {
    String^ res="";
    String^ PrgString="";
    int tabpos;
    int porcct=0;

    saveFileDialog1->FileName="";
    saveFileDialog1->Filter = "F2K|*.F2K";
    if ( saveFileDialog1->ShowDialog() == Windows::Forms::DialogResult::OK) {

        try{
            serial_open( Convert::ToInt32(textBox3->Text));
            textBox1->Clear();
            mpc_quit(); // Quit Program
            serialPort1->Write("LIST 0 0¥r");
            res = serialPort1->ReadLine(); // read echo back

            while(1) {
                res = serialPort1->ReadLine();
                tabpos = res->IndexOf("¥t");
                res = res->Substring(tabpos+1); // delate line number
                res = res->TrimEnd();
                PrgString += res + "¥r¥n";
                porcct++;
                toolStripStatusLabel1->Text="Saving " + porcct.ToString();
                Application::DoEvents();
            }

        } catch(Exception^ e){
            res =serialPort1->ReadExisting();
            if( res->Trim() != "#"){
                MessageBox::Show(e->ToString());
            } else{
                StreamWriter ^ fout = gcnew StreamWriter(saveFileDialog1->FileName,
                    false, System::Text::Encoding::GetEncoding("shift-jis"));
                fout->Write(PrgString);
                fout->Close();
                toolStripStatusLabel1->Text="Save Completed";
            }
        }
        serialPort1->Close();
    }
}
}

```