```
//
// WiPortテストプログラム
//
// 通信関係の機能を動かすためには、
// <uses-permission android:name="android.permission.INTERNET" />
// をAndroidManifest.xml に追加

package doilab.s_bu05a;

import java.io.IOException;
import java.net.DatagramPacket;
import java.net.DatagramSocket;
import java.net.InetAddress;
//import java.net.Socket;

import android.app.Activity;
import android.media.AudioManager;
import android.media.ToneGenerator;
import android.os.Bundle;
import android.view.View;
import android.widget.Button;
import android.widget.LinearLayout;
import android.widget.TextView;

public class s_bu05a extends Activity
{
    private ToneGenerator toneGenerator = new ToneGenerator(
            AudioManager.STREAM_SYSTEM, ToneGenerator.MAX_VOLUME);
    private StringBuffer cbuf = new StringBuffer(100);
    int n;

    DatagramSocket ds;
    DatagramPacket dp;
    InetAddress host;
    int port;
    byte[] data ;

  @Override
    public void onCreate(Bundle savedInstanceState) {

      super.onCreate(savedInstanceState);
      LinearLayout linearLayout = new LinearLayout(this);
    // 縦に追加する
      linearLayout.setOrientation(LinearLayout.VERTICAL);

      final Button button1 = new Button(this);
      Button button2 = new Button(this);
      final TextView tv = new TextView(this);

      tv.setText("文字列の描画");
      button1.setText("＋");
      button2.setText("－");

      linearLayout.addView(button1, new LinearLayout.LayoutParams(
              LinearLayout.LayoutParams.WRAP_CONTENT,
              LinearLayout.LayoutParams.WRAP_CONTENT));

      linearLayout.addView(button2, new LinearLayout.LayoutParams(
              LinearLayout.LayoutParams.WRAP_CONTENT,
              LinearLayout.LayoutParams.WRAP_CONTENT));

      linearLayout.addView(tv, new LinearLayout.LayoutParams(
```

```
        LinearLayout.LayoutParams.WRAP_CONTENT,
        LinearLayout.LayoutParams.WRAP_CONTENT));

setContentView(linearLayout);

// Button1 がクリックされた時に呼び出されるコールバックを登録
button1.setOnClickListener(new View.OnClickListener() {
    public void onClick(View v) {

      n++;
      // 文字列を作る
      cbuf.append(n);
      tv.setText(cbuf.toString());
      cbuf.delete(0, 99);

      data[6] = 0x070;
      //DatagramPacket
      dp = new DatagramPacket(data, data.length, host, port);
      try {
          ds.send(dp);
      } catch (IOException e) {
          // TODO Auto-generated catch block
          e.printStackTrace();
      }
      dp = null;

      toneGenerator.startTone(ToneGenerator.TONE_PROP_BEEP);

      }
  }
);

button2.setOnClickListener(new View.OnClickListener() {
    public void onClick(View v) {

        n--;
        cbuf.append(n);
        tv.setText(cbuf.toString());
        cbuf.delete(0, 99);

        data[6] = 0x071;
          //DatagramPacket
          dp = new DatagramPacket(data, data.length, host, port);
          try {
              ds.send(dp);
          } catch (IOException e) {
              // TODO Auto-generated catch block
              e.printStackTrace();
          }
          dp = null;

      toneGenerator.startTone(ToneGenerator.TONE_PROP_BEEP);

}
}
);

n=0;  // カウント値の初期値

data = new byte[9];             //データグラムパケット作成
  data[0] = 0x1b;
  data[1] = 0x07f;
```

```
        data[2] = 0x07f;
        data[3] = 0x07f;
        data[4] = 0x07f;
        data[5] = 0x075;
        data[6] = 0x07f;
        data[7] = 0x07f;
        data[8] = 0x07f;

        try{              //サーバを取得する
            //InetAddress
            host = InetAddress.getByName("192.168.2.220");//args[0]);
            //ポート番号
            port = 30704;//8000;              //メッセージ
//          String message = "send by java";              //データグラムソケット作成
            //DatagramSocket
            ds = new DatagramSocket();

            data[5] = 0x075;
                data[6] = 0x071;

                //DatagramPacket
                dp = new DatagramPacket(data, data.length, host, port);
                ds.send(dp);
                dp = null;
                toneGenerator.startTone(ToneGenerator.TONE_PROP_BEEP);
            }
            catch(Exception e){
                System.err.println("Exception : " + e);
        }

    }       // end OnCreat()
}
```