UDP Socket

Contents

1 Include

UDP are include in the JAVA languages classes :

```
import java.net.*;
```

2 icmp client

ICMP ECHO REQUESTs is used if the privilege can be obtained, otherwise it will try to establish a TCP connection on port 7 (Echo) of the destination host.

```
String host;
boolean status;
status = InetAddress.getByName(host).isReachable(timeOut);
```

comments: the GEDEX wait for an ICMP ECHO REQUEST in order to set the internals registers @2 (Destination MAC Address (32 LSB)), @3 (Destination MAC Address (16 MSB)) and @4 (Destination IP Address).

3 udp client

```
String          host;
int             port;
byte[]          buffer = new byte[1024];
InetAddress     address = InetAddress.getByName(host);
DatagramSocket  socket = new DatagramSocket();
DatagramPacket  packet = new DatagramPacket(buffer, buffer.length, address, port);

socket.send(packet);
socket.close();
```

4 udp server

```
String          host;
int             port;
byte[]          buffer = new byte[1024];

DatagramSocket serverSocket = new DatagramSocket(port);

while(1) {
```

```
    DatagramPacket serverPacket = new DatagramPacket(buffer, buffer.length);
    serverSocket.receive(serverPacket);
}

serverSocket.close();
```