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Subject: Re: XML Rpc client will halt when server is not running

Posted by [kasome](#) on Thu, 21 Jun 2012 03:21:31 GMT

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Here is full XML RPC Server & Client Code

Server:

```
#include <conio.h>
#include <Core/Core.h>
#include <Core/XMLRpc/XMLRpc.h>

using namespace Upp;

XMLRPC_METHOD( Compute ) {
    double a, b;
    Upp::String arithmeticOperator;
    rpc >> a >> arithmeticOperator >> b;
    LOG( Upp::Format("Request: %nf %s %nf", a, arithmeticOperator, b) );

    if( arithmeticOperator.GetCount() == 1 ) {
        switch( *arithmeticOperator ) {
            case '+': {
                rpc << a + b;
                break;
            }
            case '-': {
                rpc << a - b;
                break;
            }
            case '/': {
                if( b == 0 ) {
                    rpc << Upp::ErrorValue("division by zero");
                }
                else {
                    rpc << a / b;
                }
                break;
            }
            case '*': {
                rpc << a * b;
                break;
            }
        }
    }
    else {
        rpc << Upp::ErrorValue("unknown operator");
    }
}
```

```

}

XMLRPC_METHOD( GetServerTime ) {
    LOG( "Request: GetServerTime" );
    rpc << Upp::GetSysTime();
}

int main() {
    TcpSocket rpc;
    int port = 1234;

    if( !rpc.Listen(port,5) ) {
        return false;
    }

    while( true ) {
        if( _kbhit() ) {
            if( _getch() == 27 ){
                break;
            }
        }
    }

    TcpSocket http;
    http.Timeout(1000);
    if( http.Accept(rpc) ) {
        XmlRpcPerform(http,NULL);
    }
}

return 0;
}

```

Client:

```

#include <Core/Core.h>
#include <Core/XMLRpc/XMLRpc.h>

using namespace Upp;

namespace Upp {
    extern bool HttpRequest_Trace___;
}

void Compute( double a, Upp::String arithmeticOperator, double b );

int main() {

```

```
Time serverTime;
SetDateFormat( "%4d-%02d-%02d" );
XmlRpcRequest call( "127.0.0.1:1234" );
if( call("GetServerTime") >> serverTime ) {
    LOG( "Server Time = " << serverTime );
}
else {
    LOG( Upp::Format("Error: %s", call.GetError()) );
}
```

```
Compute( 12, "+", 12 );
Compute( 12, "*", 12 );
Compute( 12, "+56", 12 );
Compute( 12, "/", 0 );
```

```
return 0;
}
```

```
void Compute( double a, Upp::String arithmeticOperator, double b ) {
    double result = 0;
    XmlRpcRequest call( "127.0.0.1:1234" );
    if( call("Compute", a, arithmeticOperator, b) >> result ) {
        LOG( Upp::Format("%f %s %f = %f", a, arithmeticOperator, b, result) );
    }
    else {
        LOG( Upp::Format("Error: %s", call.GetError()) );
    }
}
```

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