
Subject: Re: RMI

Posted by [mirek](#) on Fri, 18 Jan 2008 09:13:06 GMT

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Shire wrote on Fri, 18 January 2008 03:38Quote:

personally like ICE very much(though ICE is not RMI,it's middleware),but it's GPLed.

I prefer ICE too, but it is based on STL. UPP can have its own implementation of network communication protocol.

IMHO, communication will be better, if it is based on queries, rather than RPC. Query is simple structure, consist of base types. Queries is better for asynchronous work, multi parameter passing and grouping multiple in one network packet. Handling queries can be easily chained. Query can build by accessors and query builders. Binding to other languages (USC, for example) also can be simple.

To do this, these components needed:

- * serialization for marshalling queries
- * platform-independent query description language (can be done by macros)
- * platform-independent binary protocol description (IMHO, the most difficult part)
- * local (per application) or/and global components registry (for dynamic creation)

Interestingly, your new response to this old thread came at the moment I am about to start implementing some SOAP for/in U++

Mirek
