

ABSTRACT

JSON-RPC is protocol that provide some mechanism which allowed a communication between process in some programs to execute some methods in another process, in separated system. JSON-RPC is widely used as data interchange and Continuation Passing Style (CPS) in cross-platform inter process communication.

JSON-RPC adalah suatu protokol yang menyediakan mekanisme komunikasi antar proses yang memungkinkan suatu program yang berjalan pada suatu komputer menjalankan prosedur atau metode pada sebuah sistem terpisah. Protokol JSON-RPC sering digunakan sebagai data interchange dan Continuation Passing Style (CPS) pada inter process communication lintas platform.

In a case where the OLTP (On-Line Transaction Protocol) runned a top of HTTP with standard protocol, its raised some problems:

- ✓ Existing bandwidth allocation, hardware specification and the users is hard to engineered in non-technical views when we talk about performance.*
- ✓ The needed of a standard protocol when we need to provide inter-process communication.*

In this final project, the author attempting to give a solutions for problems described above, running JSON-RPC as data interchange a top of Web 2.0.

Generally, performance improvement increase significantly on data parameter on request-response process. Response-time performance improvement in JSON-RPC is higher then the standard.

Keywords: *JSON, RPC, JSON-RPC, CPS, Web 2.0, HTTP.*