CSCI 447 - Birrell1983

Isaac Boaz

April 30, 2024

'Implementing Remote Procedures Calls' discusses a new package that provides a remote procedure call facility, and describes its structure, facilities, and metrics such as performance. This paper was created to introduce and essentially 'advertise' the new RPC facility for the 'Cedar' project, which attempts to resolve issues that arise when designing a facility (such as communication failures, address-containing arguments, binding, protocols, data integrity/security, and others). The research was conducted within the 'Cedar' programming environment and the Xerox research network. Their measurements and metrics included varying argument inputs, word array size, and instructions (rewind + unwind.)

The paper tackles implementing RPC into their specific environment, though I think describing the current paradigm of RPC (especially its current implementation) outside of their environment, and why they chose against using pre-existing infrastructure. This way, having a comparison table of other software in contrast to their RPC implementation would allow for a better understanding of both the short-comings and the improvements made. The paper also references some measurements that aren't embedded within the article directly (and are instead linked as a bibliography reference). Appending these directly referenced diagrams as an appendix would allow for more convenient reference.