



International Journal on Recent Researches In Science, Engineering & Technology

A Journal Established in early 2000 as National journal and upgraded to International journal in 2013 and is in existence for the last 10 years. It is run by Retired Professors from NIT, Trichy.

It is an absolutely free (No processing charges, No publishing charges etc) Journal Indexed in DIIF and SJIF.

Research Paper

Available online at: www.ijrrset.com

Chief Editors 1 : Dr. M.Narayana Rao, Ph.D., Rtd. Professor, NIT, Trichy.

(Engg.&Technology division)

2 : Dr. N.Sandyarani, Ph.D., Professor,

Chennai based Engg.College, (Science division)

ISSN (Print) : 2347-6729

ISSN (Online) : 2348-3105

Volume 2, Issue 5,

May 2014

DIIF IF :1.46

SJIF IF: 1.329

A Combined and Complete Cache Management Architecture

G . Anandharaj and Dr.A. Anandkumar

Abstract - Literature review revealed that caching plays a key role in mobile computing because of, its ability to alleviate the performance and availability limitations of weekly-connected and disconnected operations . Caching frequently accessed data objects at the local buffer of a mobile is an efficient way to reduce query delay , save bandwidth and improve system performance . Classical cache ,management strategies may not be suitable for mobile environment , due to the disconnection and mobility of the mobile clients. Cache management in mobile environment , in general, includes cache placement , cache discovery , cache consistency and cache replacement techniques . In this paper , We design a combined cache management architecture which includes all the above techniques. By simulation results , We will show that our proposed architecture achieves lower latency and packet loss, reduced network bandwidth consumption , reduced data server workload .