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A PROJECT REPORT

On

"NETWORK TIME PROTOCOL"

for

BACHELOR OF ENGINEERING

In

INFORMATION SCIENCE & ENGINEERING

Submitted
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ABSTRACT

NTP is a protocol designed to synchronize the clocks of computers over a network to a common time base (usually UTC). NTP is used to synchronize timekeeping among a set of distributed time servers and clients. It defines the architectures, algorithms, entities and a protocol used by NTP and is intended primarily for implementers.

A companion document summarizes the requirements, analytical models, algorithmic analysis and performance under typical Internet conditions. Another document describes the NTP timescale and its relationship to other standard timescales now in use. NTP was first described in RFC-958, but has since evolved in significant ways, culminating in the most recent NTP Version 2 described in RFC-1119. It is built on the Internet Protocol (IP) [DAR81a] and User Datagram Protocol (UDP), which provide a connectionless transport mechanism; however, it is readily adaptable to other protocol suites.

NTP is evolved from the Time Protocol and the ICMP Timestamp message, but is specifically designed to maintain accuracy and robustness, even when used over typical Internet paths involving multiple gateways, highly dispersive delays and unreliable nets.