

AN ALGORITHM TO DETECT AND TERMINATE ORPHAN PROCESS IN A DISTRIBUTED SYSTEM

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ABSTRACT

Orphans in the distributed system waste system resources by holding these for completing the unwanted computations. Many ways are put forward to detect and kill orphans in the distributed system. The algorithm which is proposed in this paper will detect and kill the orphan process after regressive connection testing between server and client. To detect and kill orphan process IP address of the particular client which is disconnected due to some unavoidable circumstances and the PIN (Process Identification Number) of the process which was requested by the client which is no longer connected to the server are used. Server will send kill command to particular process which was requested by the client which is no more connected to the server and hence orphan process is detected and killed.

KEYWORDS: Orphan Process, Client Process, Server Process, Test Connection, Kill Command, PIN