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(71) Applicant: BEA SYSTEMS, INC. [US/US]; 2315 North First Street, San Jose, CA 95131 (US).

(72) Inventors: JACOBS, Dean, B.; 1747 Madera Street, Berkeley, CA 94707 (US). HALPERN, Eric, M.; 41 Delmar Street, San Francisco, CA 94117 (US).

(74) Agents: MEYER, Sheldon, R. et al.; Fliesler Dubb Meyer and Lovejoy LLP, Suite 400, Four Embarcadero Center, San Francisco, CA 94111-4156 (US).

(54) Title: A DUPLICATED NAMING SERVICE IN A DISTRIBUTED PROCESSING SYSTEM

(57) Abstract

A clustered enterprise JavaTM distributed processing system is provided. The distributed processing system includes a first and a second computer coupled to a communication medium. The first computer includes a JavaTM virtual machine (JVM) (354) and kernel (355) software layer for transferring messages, including a remote JavaTM virtual machine (RJVM) (356). The second computer includes a JVM and a kernel software layer having an RJVM. Messages are passed from an RJVM to the JVM in one computer to the JVM and RJVM in the second computer. Messages may be forwarded through an intermediate server (302 and 303) or rerouted after a network reconfiguration. Each load balancing software component (362) and a failover software component. Each computer includes a duplicated service naming tree for storing a pool of Smart stubs at a node. The computers may be programmed in a stateless, stateless factory, or a stateful programming model. The clustered enterprise JavaTM distributed processing system allows for enhanced scalability and fault tolerance.

