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**ROUTER,
METHOD OF ADMINISTRATING DATA TRANSFER ROUTES,
AND
COMPUTER PROGRAM FOR DOING THE SAME**

Abstract

A router (60) includes unicast protocol engines (1-3) each receiving a unicast route from an adjacent node, a routing software core (4) which stores the unicast route into trees associated with the unicast protocol engines, selects a best route among the unicast routes, in accordance with a priority assigned to the unicast protocol engines, and stores the best route into a best route tree, and a kernel (5) which receives the best route from the routing software core to carry out routing control. The routing software core (4), when a plurality of routes addressed to a common destination is stored into the trees (1A-3A), registers a route retrieved by a unicast protocol engine having a highest priority, into the best route tree (4A) as a best route, applies a priority to the rest of the routes in accordance with a priority assigned to the unicast protocol engines, and registers the routes into the best route tree together with the best route as a best route candidate.

FIG.7



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