ABSTRACT

OPERATIONAL PLAN OPTIMIZATION DEVICE AND OPERATIONAL PLAN OPTIMIZATION METHOD

An operational plan optimization device 1 is provided with an overall control processing unit 2 and a plurality of simulators 3 which are communicably connected to and controlled overall by the overall control processing unit 2. The overall control processing unit 2: recognizes varying processable amounts of the simulators 3 over time; transmits to the respective simulators 3 a simulation process request for a simulation process within an optimal processing amount among the recognized processable amounts of the simulators 3, with an operational condition information group and a simulation process condition; receives from the respective simulators 3 a plurality of evaluation value groups as simulation process results based on the operational condition information group and the simulation process condition; and recognizes an evaluation value group with the highest evaluation based on an operational objective function out of the plurality of received evaluation value groups. The operational plan optimization device 1 makes it possible to recognize an optimal operation by efficiently using a hardware resource and performing various simulation computations at high speed at lower cost during an operational simulation.

(FIG.5)