

Scheduling of Tanker Fleet

M. Lentini*
A. Reinoza¹
J.E. Smith[‡]

ABSTRACT

We describe a computational model that produces the monthly scheduling of a tanker fleet which transports oil products between a loading port and several unloading ports.

The model is represented by a sequential decision tree where a particular schedule is given by a path in the tree. We used an intelligent search algorithm to find an "optimal path" in this tree.

The software was developed for MARAVEN S. A., subsidiary of PDVSA (Venezuelan Petroleum Holding) and it is currently used to operate the fleet.

*Departamento de Matemáticas Puras y Aplicadas, Universidad Simón Bolívar. Apartado 89000. Caracas, Venezuela. FAX +58 2 962 16 95. *e-mail: sun!emsca!usb!mlentini*

¹Departamento de Computación y Tecnología de la Información, Universidad Simón Bolívar & IMG Consultores S.A.

[‡]IMG Consultores S.A.