

CD++ Model Data Form

Title: Modeling Panama Canal Using DEVS Formalism

Type: DEVS Model

Acronym/Short name: Panama Canal

Purpose for which Developed: A model of Panama Canal which shows the different stages that the ship goes through when entering the canal

Other Applications for which it is Suitable: Travel and transportation planning

Date Developed/Implemented: 15/10/2004

Domain: Transportation

Current Version:

URL:

Description (including characteristics): This model describes the behavior of Panama Canal using DEVS formalism. The canal consists of two groups of locks separated by a lake (Gatun Lake). Only one of the lock groups (Gatun Locks) is modeled here since the other group has the same behavior but works in a reverse order. The Gatun Locks consist of three locks. Lock1 is lower than lock2 and lock3 is higher than both. So, in order for the ship to pass through, the water level of lock1 has to be lowered to the water level of the Atlantic Ocean so that the ship can move into lock1. The same process happens when the ship moves from lock1 to lock2, from lock2 to lock3 and then from lock3 to the Gatun Lake.

Links to Related Documents

Short Title: Panama Canal Website

URL: <http://www.pancanal.com/eng/index.html>

Description: This website has a lot of information about Panama Canal covering different technical and economical aspects.

Keywords: queue, gatun locks, gate, control unit

Developer:

Name: Rami T. Madhoun	Acronym:
[e-mail]: rtmadhou@connect.carleton.ca	
Address :	
City: Ottawa	Province/State-Country: Canada
Zip -	Phone: - -

Comments: