

PACKAGE ID - 000175IBMPC02 INTERLINE5.0

KWIC TITLE - Railroad Routing Model

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LIMITATION CODE -UNL **AUDIENCE CODE** - UNL

COMPLETION DATE - 09/30/1994 **PUBLICATION DATE** - 03/01/1993

DESCRIPTION - INTERLINE/PC is an interactive program designed to simulate the routing practices of the United States rail system. The rail industry is divided into a large number of independent competing companies. The INTERLINE data base represents these rail companies as 94 separate subnetworks. An additional two subnetworks represent navigable inland/intracoastal and deep draft marine routes. Interchange points between individual rail systems and waterway systems are also identified.

PACKAGE CONTENTS - Media Directory; Software Abstract; ORNL/TM-12090; Media Includes Source Code, User's Guide, Executable Module, Auxiliary Material;

SOURCE CODE INCLUDED? - Yes

MEDIA QUANTITY - 1 3.5 Diskette

METHOD OF SOLUTION - INTERLINE is based on a shortest path algorithm modified both to reflect the nature of railroad company operations and to accommodate computer resource limitations in dealing with a large transportation network.

COMPUTER - IBM PC

OPERATING SYSTEMS - DOS 3.1 or greater.

PROGRAMMING LANGUAGES - FORTRAN 77

SOFTWARE LIMITATIONS - None

SOURCE CODE AVAILABLE (Y/N) - Y

UNIQUE FEATURES - This version of INTERLINE includes population density information routes based on the 1990 Census of Population. The database used for this version is the ORNL Rail Barge Database, Network 11.

RELATED SOFTWARE - None

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OTHER PROG/OPER SYS INFO - INTERLINE expects data files to conform to its standard names. Program uses calls to MICROSOFT FORTRAN extensions.

HARDWARE REQS - A minimum of 286 PC is suggested. Program runs best if files can be run from a virtual disk.

TIME REQUIREMENTS - One to four minutes on a slow 286. Approximately 10 seconds on a fast 486 using virtual disk.

REFERENCES - P.E. Johnson, D.S. Joy, D.B. Clark, and J.M. Jacobi, 'INTERLINE5.0, An Expanded Railroad Routing Model: Program Description, Methodology, and Revised User's Manual', ORNL/TM-12090, March 1993.

ABSTRACT STATUS - Submitted January 5, 1995.

SUBJECT CLASS CODE - RG

KEYWORDS -

COMPUTER PROGRAM DOCUMENTATION
I CODES
RAIL TRANSPORT
ROUTING
RAILWAYS
OPTIMIZATION
WASTE DISPOSAL
RADIOACTIVE WASTES

EDB SUBJECT CATEGORIES -
990200 050900

SPONSOR - DOE/EM

PACKAGE TYPE - AS - IS