

PACKAGE ID - 000175IBMPC00 INTERLINE

KWIC TITLE - Railroad Routing Model

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

COMPLETION DATE - 03/12/1990 **PUBLICATION DATE** - 11/01/1985

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; Instructions for Installation; ORNL/TM-8944; Media Includes Source Code;

SOURCE CODE INCLUDED? - Yes

MEDIA QUANTITY - 2 5.25 diskettes

METHOD OF SOLUTION - INTERLINE is based on a shortest path algorithm modified both to reflect the nature of railroad company operations and to accomodate 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 - INTERLINE calculates waterway transportation routes as well as rail.

RELATED SOFTWARE - None

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

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OTHER PROG/OPER SYS INFO - (CONT)

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 - B.E. Peterson, INTERLINE, A Railroad Routing Model: Program Description and User's Manual, ORNL/TM-8944, November 1985.

ABSTRACT STATUS - Version 4.0 submitted March 12, 1990.

SUBJECT CLASS CODE - RG

KEYWORDS -

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

EDB SUBJECT CATEGORIES -

990200 050900

SPONSOR - DOE/ER

PACKAGE TYPE - SCREENED