

PACKAGE ID - 001284IBMPC00 MAD BROWSER

KWIC TITLE - ANL's Map and Data Browser

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LIMITATION CODE -COPY **AUDIENCE CODE** - LIM

COMPLETION DATE - 02/01/1998 **PUBLICATION DATE** - 02/01/1998

DESCRIPTION - The MaD browser is a web browser Java applet developed to display and interact with vector graphic (map) objects, relational database tables, and other data sources. It was designed for use in remedial action projects to quickly and widely disseminate sampling results but is generally applicable to many other mapping situations. Its primary value is its simplicity and general availability.

PACKAGE CONTENTS - Media Directory; Software Abstract; Media includes; Source Code; Help File;

SOURCE CODE INCLUDED? - Yes

MEDIA QUANTITY - 1 3.5 diskette

METHOD OF SOLUTION - The ANL software uses conventional Internet technology (WWW browser, HTTP server, database middleware, ODBC enabled relational database) to provide an interface to map, database, and flat files in which the relevant data are stored. Application logic resides on both the client (as a Java applet) and server (as stored database queries) side. The maps and tabular data are in simple, nonproprietary formats.

COMPUTER - IBM PC

OPERATING SYSTEMS - The server side development target was Windows95 or WindowsNT 4.0. Client side development target was any system capable of running a Java enabled WWW browser.

PROGRAMMING LANGUAGES - NA

SOFTWARE LIMITATIONS - The design focus was on small, simple maps and data sets, but there are no hard limits on the software's use. Practical limits exist with respect to available storage on the server for the maps and databases and, most critically, on client side available memory for retrieved maps and data. The efficient display of data sets of several hundred database records and/or map features have been demonstrated successfully. The maximum number of concurrent users is restricted by server machine resources.

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SOFTWARE LIMITATIONS - (CONT)

SOURCE CODE AVAILABLE (Y/N) - Y

UNIQUE FEATURES - The browser is unique in successfully integrating the following. 1) It displays maps with vector based graphics without requiring special client side software, i.e., a browser plug in. (Vector graphics maintains good map resolution during changes of scale, e.g., zoom in, zoom out, better than raster graphics formats. 2) It handles most user interaction with the map locally, i.e., on the client side, permitting multiple map object selections for more sophisticated operations. 3) The map and tabular data displays may be linked dynamically.

RELATED SOFTWARE - An HTTP server capable of supporting the WinCGI standard, ODBC database connectivity, and Symantec's proprietary dbAnywhere Workgroup Server (middleware) are required. In addition, the user needs a Java enabled browser such as Netscape or Internet Explorer v3 or higher.

OTHER PROG/OPER SYS INFO - Users must have Internet access.

HARDWARE REQS - A client side computer running a Java enabled browser and a server side computer running Windows95 or WindowsNT 4.0.

TIME REQUIREMENTS - Not applicable.

ABSTRACT STATUS - Released AS-IS 2/19/1999

SUBJECT CLASS CODE - M

KEYWORDS -

COMPUTER PROGRAM DOCUMENTATION
M CODES
MAPPING
INFORMATION SYSTEMS
DATA ANALYSIS
INTERNET

EDB SUBJECT CATEGORIES -

990200

SPONSOR - DOE/ER

PACKAGE TYPE - AS - IS