

GISID-C — A Digital Cartographic System Based on GIS

Yianmin Wang

Dept. of Surveying and Mapping/Harbin Engineering Institute/153 Zhongshan Road, Harbin 150001/P.R.China/Phone:0451-2636054/Fax:0451-2624226

GISID-C is a subsystem of the Geographical Information System Independent from commercial Database management system (GISID) which is newly developed by us. If used alone, GISID-C is a complete digital cartographic system that is also independent from database management system. In this paper, the general structure, required environments, main functions and features of the system are described.

General Structure: The System is an integrated environment, consists of 6 subsystems named as Input, Edit, Symbol Design, Data Conversion, Output, and Report Design.

Required Environment: The system requires 386 or higher computer with minimum 2M (we recommend 8M or more) memory, 100M (recommend 200M or more) hard disk, VGA or higher monitor. The system can be run well in Microsoft Windows 3.1 (we recommend to run it in Windows 3.1 with Win32s or Windows NT). All peripheral equipment supported for Windows will work well for the system.

Main Functions: The main function of the system is to digitize, edit, revise and generate(output) topographical and thematic map. User can easily design statistical report, define or design feature legend, line style and fill color or style for the object map, set or select parameters of the environment and device equipped. The system can build topological relation in automatic(batch) mode and real-time mode, accomplish data classification according to user defined or default format, and execute data conversion bilaterally(in or out) and openly(open data structure).

Main Features: Standard Windows application program, object-oriented and event-driven programming, graphic and attribute data restored in the same database(seamless combination), independent from DBMS, online help.