

■ 2.1 Installing IDAS

IDAS is designed to operate in the Windows NT 4.0 and Windows 2000 environments. IDAS also operates in the Windows 95 and XP environments, although there may be some irregularities. IDAS is not compatible with the Windows 98 environment. It is recommended that at a minimum, IDAS is run on a 300 megahertz Pentium II processor, due primarily to the use of complex algorithms in the assignment process and the graphical interface. In addition, it is recommended that at least 128 megabytes of RAM and at least two gigabytes of free disk space are available when running the IDAS programs. For larger networks (greater than 750 zones), at least five gigabytes of free disk space should be made available.

Warning – If you are installing a new version of IDAS or uninstalling IDAS and you are using the IDAS.DB file as your custom database, copy the IDAS.DB file in the \IDAS\DATABASE subdirectory to another location and copy it back when you have reinstalled the IDAS program. If you have created a new IDAS database using a filename other than IDAS.DB, the IDAS install/uninstall process will not delete it. The uninstall process will only remove files that were originally installed. If you are installing a new version of IDAS and have an existing database that you would like to use with the new version, you will need to upgrade the database to the version being installed. Upgrade database instructions are included with the install CD.

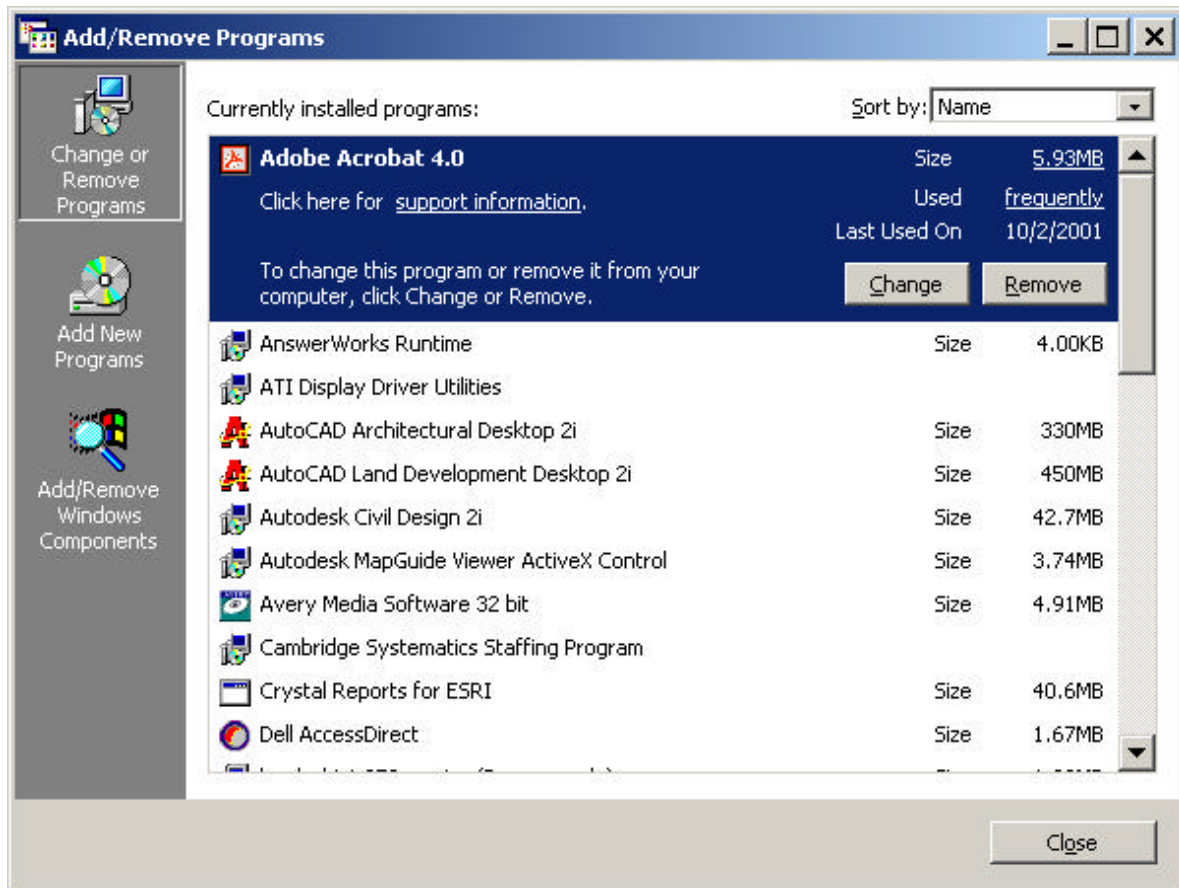
The **UNINST.ISU** file, which is installed in the IDAS root directory, is necessary to uninstall IDAS, so **NEVER** delete this file.

2.1.1 Installing the IDAS Program

The IDAS program executable, dynamic link library (DLL) files, database and database driver files, user’s manual, and sample data sets are stored on the installation CD.

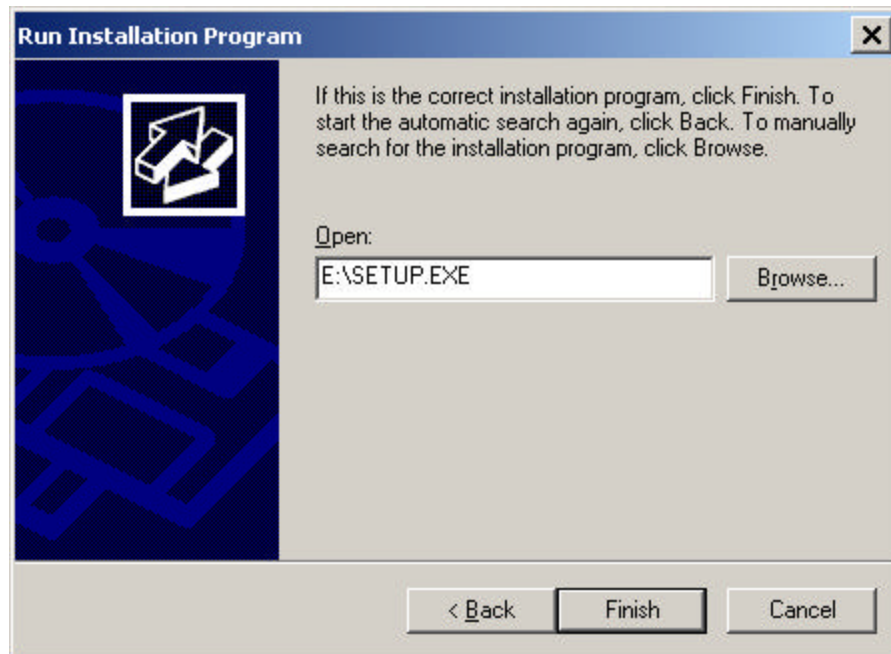
To install IDAS, follow the steps below:

1. Insert the IDAS installation CD into the CD-ROM.
2. Go to the **Control Panel**, and then open **Add/Remove Programs**.
3. At the **Add/Remove Programs Properties** window, click on the **Add New Programs** icon.

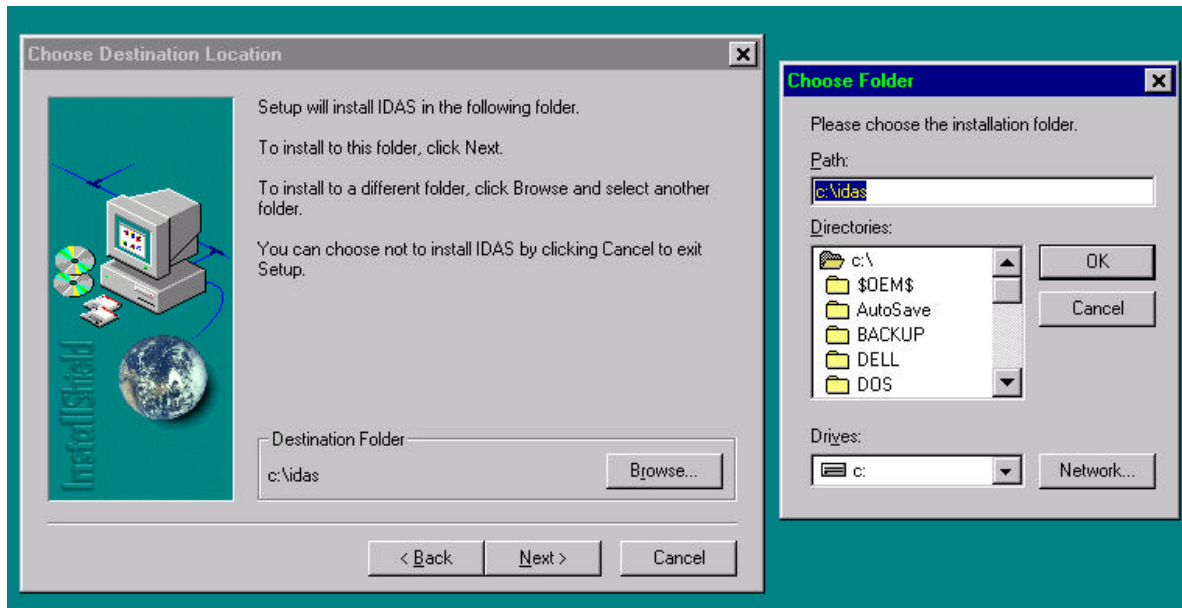
Figure 2.1 Installing IDAS Program

4. At **Add a program from CD-ROM or floppy disk**, click on the **CD or Floppy** button.
5. At the **Install Program from Floppy Disk or CD-ROM** window, click on the **Next** button.
6. At the **Run Installation Program** window, **Browse** to the drive where the CD-ROM is located and select the **SETUP.EXE** file as shown below. Click on the **Open** button. When done, click on the **Finish** button.

Figure 2.2 Installing IDAS – Setup File



7. The IDAS **Welcome** screen will appear. Read the instructions on the screen and make sure that other programs are closed before continuing. Click on the **Next** button.
8. At the **Choose Destination Location** window, select where you would like to have IDAS installed. The default is the **C:\IDAS** directory. However, IDAS functions on other drives and in other directory locations on the computer if desired. Clicking on the **Browse** button will bring up the **Choose Folder** window where you can identify the directory to install IDAS. If you change the default drive for installation, keep the folder name as IDAS. When done, click on the **Next** button.

Figure 2.3 IDAS Program Destination at Installation

9. At the **Select Program Folder** window, click on the Next button.
10. The IDAS installation process will begin and when complete a window will appear stating that IDAS has been installed. Click on the **Finish** button. IDAS has been installed.

The setup program will install five subdirectories of information. The program executables and DLL files will be installed in the \IDAS root directory and the \IDAS\ODBCFILES subdirectory. The database files will be installed in the \IDAS\DATABASE subdirectory with example data files installed in the \IDAS\DATABASE\SAMPLEDATA subdirectory. Various required data spreadsheets will be installed in the \IDAS\DOCUMENTS subdirectory and the PDF format IDAS User’s Manual will be installed in the \IDAS\USERMANUAL subdirectory. The IDAS\CRYSTALREPORTS directory will contain files of the reports that are created when the user generates one of the reports in the drop-down list from the toolbar.

2.1.2 IDAS Configuration File

When IDAS is installed, a configuration file, called IDAS.INI, is created. This file contains information used by IDAS during runtime (under the [Idas] title block), displays database characteristics (under the [Database] title block), and saves the window view coordinates (under the [Default] title block) used by the IDAS graphical user interface. The user can modify several of these runtime configuration settings by revising the IDAS.INI file using a text editor. The default runtime configuration settings (appearing under the title block [Idas]) are modifiable including the following:

1. NotifySeconds = 1.5 – This value is the time in seconds used by IDAS to show warnings and transient messages to the user during some program operations.
2. DBPriority = normal – Changing this value affects the CPU memory resources used when the database is calculating. Setting this value to “low” or “high” would modify the operation of IDAS and provide more resources to other programs active at the same time. A setting of ‘low’ would provide fewer resources to the IDAS program and more resources to running background programs. Conversely, a setting of ‘high’ would provide more resources to the IDAS program and fewer resources to running background programs.
3. RunVerbose = Yes – This value controls the amount of information displayed during the execution of the benefits modules. Changing this value to “No” will primarily make IDAS not show the detail on the number of iterations run by the IDAS trip assignment module.

2.1.3 Installed Database Files

When IDAS is installed, two different databases are created in the \IDAS\DATABASE subdirectory, IDASEMPTY.DB and IDAS.DB. IDASEMPTY.DB is the empty database used by IDAS as a template when the user creates a new database. The user should never overwrite IDASEMPTY.DB. IDAS.DB is the default database file that the IDAS program addresses when IDAS is first run, and contains an empty database created from IDASEMPTY.DB. When the user begins an IDAS session starting from scratch, the installed IDAS.DB file is used as the initial default. The user can then begin populating the database with input data. The program executable accesses, reads and writes to the database as the program is operated. Access to the databases is accomplished through a database engine and ODBC compliant driver. With the IDAS software, a Sybase SQL Anywhere 5.5 database engine is provided with the installation, however the user can use any ODBC database engine to connect to the database and run IDAS.

The IDAS database will increase in size as analysis options are defined and as data are added, and could become quite large as analysis proceeds, particularly if there are a large number of transportation analysis zones. Therefore, the user should ensure that there is adequate disk space at all times when running IDAS. It is recommended that a minimum of 2GB exist for a <750 zone model system, 5GB for larger networks.

Viewing the contents of the IDAS.DB can be accomplished by using a database program such as InfoMaker or any SQL applications program. The database can also be manipulated using SQL command language of a database program; however, it is not recommended that the user change database tables in IDAS, as key relational variables required to perform calculations can be dropped from tables resulting in application errors.

2.1.4 Installed Sample Data Files

The IDAS installation copies sample input data files, in ASCII format, for the user to build an example database file to run IDAS. These files consist of sample node, link, trip and travel time information that can be used to build a database. Descriptions of these files are provided in detail in the remainder of this section of the User’s Manual.

The sample input data consist of the following:

- DISTRICT.DAT – Zone to district equivalence,
- NODES.DAT – Node coordinate data,
- LINKS.DAT – Link data,
- AUTO.TRP – Auto vehicle trip data,
- TRUCK.TRP – Truck vehicle trip data,
- TRANSIT.TRP – Transit person trip data,
- AUTO.IVT – Auto in-vehicle travel times,
- TRUCK.IVT – Truck in-vehicle travel times,
- TRANSIT.IVT – Transit in-vehicle travel times,
- AUTO.OVT – Auto out-of-vehicle travel times,
- TRUCK.OVT – Truck out-of-vehicle travel times,
- TRANSIT.OVT – Transit out-of-vehicle travel time data, and
- TURNPEN.DAT – Turn prohibitors.

The data used in this section originate from the EMME/2 User’s Manual and correspond to the 1976 network and travel demand data for the City of Winnipeg, Manitoba, Canada. These data have been modified to create the example files used in IDAS. These data were made available to Cambridge Systematics by INRO Consultants, Inc., and the City of Winnipeg, Canada.